



MEDITERRANEAN ACTION PLAN

UNITED NATIONS ENVIRONMENT PROGRAMME

**DIRECTORY OF MEDITERRANEAN
MARINE ENVIRONMENTAL CENTRES**

Compiled by Athena Davaki

**REPERTOIRES DES CENTRES RELATIFS
AU MILIEU MARIN EN MEDITERRANEE**

Compilé par Athena Davaki

MAP Technical Reports Series No. 65

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This volume is the sixty fifth issue of the Mediterranean Action Plan Technical Reports Series.

This series contains selected reports resulting from the various activities performed within the framework of the components of the Mediterranean Action Plan: Pollution Monitoring and Research Programme (MED POL), Blue Plan (BP), Priority Actions Programme (PAP), Specially Protected Areas (SPA) and Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea (REMPEC).

Ce volume constitue le soixante cinquième numéro de la série des rapports techniques du Plan d'action pour la Méditerranée.

Cette série comprend certains rapports élaborés au cours des diverses activités menées dans le cadre des composantes du Plan d'action pour la Méditerranée: Programme de surveillance continue et de recherche en matière de pollution (MED POL), Plan Bleu (PB), Programme d'actions prioritaires (PAP), Aires spécialement protégées (ASP) et Centre régional méditerranéen pour l'intervention d'urgence contre la pollution marine accidentelle (REMPEC).

INTRODUCTION

The third edition of the Directory of Mediterranean Marine Environmental Centres prepared by UNEP/FAO in 1985 proved to be, as had the earlier editions of 1976 and 1977, a useful source of reference and a successful tool for continued regional co-operation. In view of this, the UNEP/Co-ordinating Unit for the Mediterranean Action Plan (MEDU), with the support of the Oceans and Coastal Areas Programme (OCA/PAC) of UNEP, has prepared a new, updated edition of this Directory.

The new Directory contains up-to-date information on one hundred and forty two governmental, international, UN, private and other institutions, including their scientists and administrators, engaged in the research, monitoring, education, training and management of the Mediterranean marine environment.

The listings and information collected went into compiling the MARIN and MARPER computerized databases, managed and maintained at MEDU in Athens, which will continue to be updated as new information is contributed.

All marine environmental centres included in previous editions of the Directory, as well as others listed in the UNEP/Regional Seas Directory of Marine Scientists and Marine Environmental Centres in the Arab States, the UNEP/Regional Seas Directory of Organizations Co-operating with or Contributing to Action Plans and Global Activities of the UNEP Oceans Programme, the Fondation René Seydoux "Répertoire Méditerranéen", 1991, and those on the MEDU mailing list, were contacted. Questionnaires in English and French, along with comprehensive guidelines, were distributed, and those institutions which completed the questionnaire were invited to comment and verify the information prior to printing.

In this Directory, institutions are listed in alphabetical order within country. The name of the institution is cited in English and its original language or the transliterated form of that language, wherever provided. Francophone institutions appear in French.

An index of professional/scientific staff citing the last name, first name and speciality, arranged alphabetically within country, follows the main body of information.

Only institutions whose activities and specialities directly relate to the marine environment have been included. Every effort was made to prepare a complete, accurate and useful source of reference on Mediterranean marine environmental institutions, their objective, specialities, activities, programmes, equipment and staff. We invite institutions to communicate errors or omissions, together with their comments to:

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Co-ordinating Unit for the Mediterranean Action Plan
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INTRODUCTION

La troisième édition du Répertoire des centres méditerranéens de recherche marine établie par le PNUE et la FAO en 1985 s'est révélée, comme les éditions précédentes de 1976 et 1977, une source utile de référence et un outil précieux pour la coopération régionale. C'est pourquoi, l'Unité de coordination du Plan d'action pour la Méditerranée, avec l'aide du Programme pour les océans et les zones côtières du PNUE, a préparé une nouvelle édition à jour de ce Répertoire.

Le nouveau Répertoire contient des informations actualisées sur cent quarante deux organisations gouvernementales et internationales, les organisations des Nations Unies, les institutions privées et autres - y compris le personnel scientifique et administratif - qui s'occupent de recherche, de surveillance, d'éducation, de formation et de gestion dans le domaine de l'environnement marin méditerranéen.

Les listes et renseignements y figurant, proviennent de la compilation des bases de données MARIN et MARPER, gérées et entretenues par l'Unité de coordination d'Athènes, qui continuent à être mises à jour en fonction des nouveaux renseignements reçus.

Tous les centres de recherche marine figurant dans les éditions précédentes du Répertoire, ainsi que d'autres figurant dans le Répertoire des océanographes et des centres d'étude du milieu marin dans les Etats arabes du Programme pour les mers régionales du PNUE, dans le Répertoire des organismes coopérant et contribuant aux plans d'action et activités mondiales du Programme pour les océans du PNUE, dans le "Répertoire méditerranéen" de la Fondation René Seydoux de 1991 et sur la liste de diffusion de l'Unité de coordination, ont été contactés. Des questionnaires en anglais et français, accompagnés de directives détaillées, ont été distribués et les institutions qui les ont remplis ont été invitées à communiquer leurs observations et à vérifier les informations avant impression.

Dans le présent Répertoire, les institutions sont classées par ordre alphabétique à l'intérieur de chaque pays. Le nom de l'institution est donné en anglais, puis dans sa langue d'origine ou sous une forme translittérée dans cette langue, selon le cas. Le nom des institutions francophones est en français.

Le corps du texte est suivi d'un index alphabétique par pays du personnel scientifique et administratif, avec leurs noms, prénoms et spécialités.

Seules les institutions dont les activités et spécialités se rapportent directement à l'environnement marin figurent dans le Répertoire. On s'est efforcé d'établir une source de référence complète, exacte et utile des institutions travaillant dans le domaine de l'environnement marin méditerranéen, avec leurs objectifs, spécialités, activités, programmes, matériel et personnel. Nous invitons les institutions à signaler toute erreur ou omission et à communiquer leurs observations à l'adresse suivante:

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Acknowledgements

Credit is due to Mr. Adnan Aksel, Computer Operations Officer, MEDU, Athens, for his assistance and technical expertise without which this Directory would not have been possible; and to Mr. Kevin Grose, Head Librarian, UNEP, Nairobi, for the compilation of the questionnaire and his assistance and support in this project.

Remerciements

Nous tenons à exprimer notre gratitude à M. Adnan Aksel, spécialiste du traitement des données à l'Unité de coordination d'Athènes, pour l'aide précieuse et l'appui technique qu'il nous a apportés et sans lesquels l'établissement de ce Répertoire n'aurait pas été possible. Nos remerciements vont également à M. Kevin Grose, bibliothécaire chef, PNUE, Nairobi, pour la compilation du questionnaire, et pour l'aide et l'appui qu'il a donnés au projet.

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Institute of Chemical Technology

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ALBANIA

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Executive officer Mr Lirim SELFO, Chief of Cabinet for Environmental Protection

Governmental, national institution founded in 1983. Languages: Albanian; Italian; English

Nature of activities Research; Laboratory

Purpose and objectives Studies and projects in chemical technology and environmental protection

Areas of speciality/activities Chemical analysis of waste waters; Technological studies for the control or elimination of toxic and noxious compounds from chemical industry effluents

Research programmes/projects

- Qualitative and quantitative estimation of effluents from the chemical industry

Co-operative research programmes/projects

- UNEP/MED POL Phase II: Long-term programme for pollution monitoring and research in the Mediterranean Sea

Staff Professional 1; Technical 1

Information facilities

Publications Buletini I.S.P.T.K

Library 910 volumes/reprints; 13 periodicals **Librarian** Petrit Ndraqi

Physical facilities 1500 m²

Laboratories 500 m² **Laboratory equipment** Thermostate; Kiln; Centrifuge; Stirrer; pH-meter; O₂-meter; Balances (analytical and technical); Pilot plant for waste water treatment (Attisholz system)

Conference/seminar facilities for 50 participants

ALBANIA

Professional/Scientific staff

Name	Degree	Position	Specialization
Selfo , Lirim (Mr)		Chief of Cabinet	Protection of surface waters from industrial pollution; Chemical treatment of polluted waters from chemical industry
Strakosha , Bardhyl (Mr)			Protection of surface waters from industrial pollution; Chemical treatment of polluted waters from chemical industry

Research Institute of Hygiene and Epidemiology

Tirana
ALBANIA

Telephone (355) 42 33553

Executive officer Dr Qeramedin KODRA, Director

Governmental, national institution founded in 1969. Languages: Albanian; English; Italian; Russian

Nature of activities Research; Technical training; Laboratory; Academic/educational

Purpose and objectives Study of hygiene and epidemiology and the setting of hygiene-antiepidemic regulations and standards; Assistance to regional institutions in the methodology of preventive medicine; Production of vaccines

Areas of speciality/activities Analytical methodology; Waters; Marine microbiology; Parasitology; Toxicology; Monitoring and/or assessment; Pollution; Environmental impact assessment; Environmental education; Recreation/tourism

Environments Lakes; Brackishwater; Coastal zone; Rivers; Littoral zone; Lagoons

Geographic areas Adriatic Sea; Ionian Sea

Co-operative research programmes/projects

- UNEP/MED POL: Monitoring station

Staff Professional 8; Technical 5; Other 4

Information facilities

Library 1000 volumes/reprints; 12 periodicals **Co-operative programmes/projects** WHO; UNEP; Istituto Superiore di Sanita **Librarian** Adrian Dafa

Computers 1 PC (IBM); 1 Printer (Epson FX1050) **Applications** Database management; Graphics; Statistical; Word processing **Data exchange** 5.25"(DD) PC diskette; dBase, Lotus

Physical facilities 2342 m²

Laboratories 123 m²; climate controlled **Laboratory equipment** Incubator Funken-stort, type 8; Incubator Funken-stort, type 4; Aerosteril STE 39/II; Autoclave MA 5402; Refrigerator-Gronland; Centrifuge-Janecky, T30; Vacuum pump DS-2; Fluorometer Spekker; Spectrophotometer, type 72; Aparatus BOD 5, mod. 212 and 214, BSB; TPN water sampler 581; Neocoparateur "Hellige", M57; Aerosteril "Chirana", STE 31; pH meter-autotitrator "Pye-Unicam" mod. 291 Mk2; Dissolved oxygen meter (for water). mod. 1010; FEK (photoelectric colorimeter), mod. 581; Spectrophotometer, mod. 2260; Melangeuse magnetique, MM 1; Maufle M5; Refrigerator Gronland; Incubator, type BS 104K; Incubator, type Hasse; Incubator, type Schulc No.6; Microscope, type Zeiss

Facilities for 4 visiting scientists; 4 students **Conference/seminar facilities** for 120 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Angjeli , Valer (Mr)	PhD	Chief, Communal Hygiene Division	Hygiene; Potable and surface water hygiene
Azdurjan , Teuta (Ms)	PhD	Chief, Food Microbiological Laboratory	Microbiology; Microbiology of food
Bardhoshi , Adriana (Ms)	PhD	Chief, Food Hygiene Division	Hygiene; Food toxicology
Bukli , Ramazan (Mr)	PhD	Chief, Water Chemical Laboratory	Analytical chemistry; Water chemistry
Haxhi , Kristo (Mr)	MSc	Chief, Hygiene Sector	Hygiene; Food hygiene
Kodra , Qeramedin (Mr)	PhD	Director	
Leno , Luljeta (Ms)	PhD	Chief, Water Microbiological Laboratory	Microbiology; Microbiology of water
Qeribashi , Mustafa (Mr)	MSc	Chief, Food Toxicological Laboratory	Food toxicology; Analytical toxicology of food
Tafaj , Lindita (Ms)	PhD	Chemist	Food toxicology; Analytical toxicology of food

ALBANIA

Tirana University Faculty of Natural Sciences Analytical Chemistry Chair

Tirana
ALBANIA

Telephone (355) 42 26372
(355) 42 25805

Telex 2211 UNISITAB

Executive officer Dr Besnik B BARAJ, Chief

Governmental, national institution founded in 1957. Languages: Albanian; English; French

Nature of activities Research; Academic/educational

Purpose and objectives Teaching of analytical chemistry in different branches of the University;
Introduction of new methods of analysis

Areas of speciality/activities Analytical methodology; Heavy metals; Sediments; Waters; Biota;
Analysis of metals with SAA in blood, urine, etc.; Environmental samples (water, air, etc.); Underground
waters (brine); Metallurgical samples

Environments Lakes; Brackishwater; Coastal zone; Rivers; Lagoons; Estuaries

Geographic areas Adriatic Sea; Ionian Sea

Research programmes/projects

- Studies on the determination of Hp with SAA of biological samples
- Studies on the determination of indicator metals in brines with optical methods
- Preparation and application of ion-selective electrodes
- Application of kinetical methods for trace analysis

Co-operative research programmes/projects

- Determination of heavy metals in river waters
- Ni-Co Plant, Elbasan: Chemical analysis of metallurgical products of nickel with SAA and various methods
- UNEP/MED POL: Programme for pollution monitoring and research in the Mediterranean Sea

Training programmes

- Nine-month postgraduate course in analytical chemistry
- Two-week training course for SAA (offered once every three years)

Staff Professional 10; Technical 2

Information facilities

Publications "Buletini i Shkencave ti Natyres" - quarterly, published by the Faculty of Natural Sciences; Monographs on analytical chemistry, instrumental analysis and laboratory practicum for student-use

Library 75000 volumes/reprints; 60 periodicals **Librarian** Vasilika Darku

Computers 1 PC (IBM); 1 Printer (Epson FX1050) **Applications** Scientific; Statistical **Data exchange** Statgraphics, Grapher, WordStar 2000 files

Physical facilities 400 m²

Laboratories 252 m² **Laboratory equipment** SAA (SP9-700, Pye Unicam); SFUV-VIS (SP6-550, Pye Unicam); Ionometer; Polarograph (Radelkis, Hungarian)

Facilities for 2 visiting scientists; 5 students **Conference/seminar facilities** available

Professional/Scientific staff

Name	Degree	Position	Specialization
Baraj, Besnik (Mr)	PhD	Chief	Optical methods of analysis
Cabej, Argjirulla (Ms)	PhD		Chromatographic methods of analysis
Cela, Valbona (Ms)			Optical methods of analysis
Cullaj, Algi (Mr)	PhD	Docent	Optical methods of analysis
Dimo, Marika (Ms)			Chromatographic methods of analysis
Gercaliu, Diana (Ms)		Research Assistant	Optical methods of analysis
Kati, Odeta (Ms)	PhD		Electrochemical methods of analysis
Kellezi, Fatos (Mr)		Laboratory Assistant	
Lubouja, Filip (Mr)	PhD		Electrochemical methods of analysis
Matja, Sefer (Mr)	PhD		Chromatographic methods of analysis
Merkosi, Arben (Mr)	PhD		Electrochemical methods of analysis
Nati, Roza (Ms)	PhD		Optical methods of analysis

ALBANIA

Tirana University
Faculty of Natural Sciences
Organic Chemistry Chair
Laboratory for Organic Instrumental Analysis

Bulervardi Deslimoret e Kombit
Tirana
ALBANIA

Telephone (355) 42 25805
Telex 2211 UNISITAB

Executive officer Dr Kosta KOCI, Docent/Chief

Governmental, national institution founded in 1957. Languages: Albanian; English; French

Nature of activities Research; Academic/educational

Purpose and objectives Teaching of organic chemistry, instrumental organic analysis and spectroscopic methods (UV-VIS, IR, MS)

Areas of speciality/activities Analytical methodology; Organics; Sediments; Waters; Biota; Evaluation of Albanian organic natural resources (petroleum, essential oils, alcaloid plants, etc.); Pollution monitoring of hazardous organic substances

Environments Lakes; Brackishwater; Coastal zone; Rivers; Lagoons; Estuaries

Geographic areas Adriatic Sea; Ionian Sea

Research programmes/projects

- Organic geochemistry of ancient sediments and petroleum
- Generics of petroleum and natural gas-correlation and maturation studies by biological markers
- Composition of essential oils
- Composition of alcaloids in alcaloid plants

Co-operative research programmes/projects

- UNEP/MED POL: Monitoring station for the Mediterranean Action Plan

Staff Professional 6; Technical 4

Information facilities

Publications "Buletini i Shkencave ti Natyres" - quarterly, published by the Faculty of Natural Sciences

Library 75000 volumes/reprints; 60 periodicals **Co-operative programmes/projects** Various
Librarian Vasilika Darku

Physical facilities 250 m²

Laboratories 200 m² **Laboratory equipment** GCMS-QP1000 (Shimadzu); IR-spectrophotometer-377 (Perkin-Elmer); UV-VIS-spectrophotometer (Beckmann); HPLC (Pye-Unicam-Philips); Gas-chromatographs (Pye-Unicam, Carlo-Erba)

Facilities for 2 visiting scientists **Conference/seminar facilities** for 50 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Biba , Edmond (Mr)		Assistant	Organic analysis
Damani , Genci (Mr)	PhD	Teacher	Organic chemistry; Biochemistry; Alcaloids
Koci , Kosta (Mr)	PhD	Docent/Chief	Organic instrumental analysis
Sazam , Gerta (Ms)		Assistant	Pollution from organic substances
Troja , Pandeli (Mr)	PhD	Docent	Organic chemistry; Enzymes
Vaso , Kozeta (Ms)		Assistant	Organic synthesis

ALGERIA

Institut des Sciences de la Mer et de l'Aménagement du Littoral (ISMAL)

Boîte Postale 54
Sidi-Fredj 42321
Wilaya de Tipaza
Alger
Algérie

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Télex 67526 ISMAL DZ
63126 ISMAL DZ
Télifax (213) 2 393538

Université des Sciences et de la Technologie Houari Boumedienne Institut des Sciences de la Nature Laboratoire de Biologie et d'Ecologie Marines (USTHB-ISN)

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Alger 16111
Wilaya d'Alger
ALGERIE

Téléphone (213) 2 751285
(213) 2 751054
Télex 54835 DZ
Télifax (213) 2 764311

Directeur M. Ahmed AIDOUD, Directeur

Organisme gouvernemental, national créé en 1962. Langues de travail: Français

Nature des activités Recherche; Enseignement (universitaire)

Objectifs/mandat Formation supérieure en sciences de la nature dont biologie marine et océanologie biologique

Domaines ou disciplines scientifiques/activités Sédimentologie; Biologie marine et écologie; Phytoplancton; Zooplancton; Benthos; Poissons; Algues; Mollusques; Crustacés; Parasitologie; Taxinomie et systématiques; Productivité; Etudes des communautés et populations; Gestion des ressources; Etude des écosystèmes pélagiques de la région d'Alger; Etude de l'écosystème côtier; Ecologie et biologie de certains mollusques et algues; Etude de poissons d'intérêt économique

Environnements Eaux saumâtres; Zones côtières; Environnement pélagique; Environnement benthique; Zones littorales

Zones géographiques Mer Méditerranée; Bassin algéro-provençal

Programmes/projets de recherche

- Ecosystèmes pélagiques et benthiques
- Campagne programmée dans la région d'Alger et l'Algérie occidentale
- Etude de la biologie et de l'écologie des palourdes, moules, mollusques, céphalopodes
- Biologie et écologie des poissons, *Pagellus bogaraveo*, *Helicolenus dactylopterus*, *Sardinella aurita*, *Barbus callensis*, *Aristeus antennatus*

Programmes de recherche menés en coopération

- Campagne Mediprod VI: Exploitation des résultats
- Campagne dans le Bassin algérien occidental avec l'ISMAL

Programmes de formation/enseignement

- Formation supérieure
- Diplôme d'études supérieures d'océanologie biologique-Ingénierat en aquaculture
- Formation hautement spécialisée en écologie marine
- Post-graduation

Personnel Scientifique 19; Technique 2; Autre 10

Moyens d'information

Publications Rapports d'activités

Bibliothèque 1148 volumes/tirés à part; 258 périodiques **Programmes/projets de coopération**
Bibliothèque centrale de l'USTHB **Bibliothécaire** Fatiha Mahouch

Ordinateurs Micro-ordinateurs **Applications** Comptabilité, planification financière;
Communications; Gestion de bases de données; Graphiques; Modélisation; Statistiques; Traitement
de texte

Installations

Equipements de laboratoire Microscopes; Loupes binoculaires; Salières; Balance de précision;
Etuve; Chambre froide; Centrifugeuse **Espèces entretenues** Larves de crustacés décapodes;
Copépodes; Perna perna; Algues; Divers mollusques

Bateaux/embarcations de recherche Petite embarcation

Possibilités d'accueil pour 1 scientifique extérieur; 2 étudiants **Installations pour conférences/séminaires** pour 50 participants

ALGERIA

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Abada-Boudjema , Yamina-Madiha (Mme)	Doctorat 3ème cycle	Chargée de Cours/Chargée de Recherche	Biologie marine et écologie; Dynamique et génétique des populations de moules
Abada-Guerroui , Halima (Mme)	Doctorat 3ème cycle	Chargée de Cours/Chargée de Recherche	Biologie et écologie marines; Milieux perturbés
Aidoud , Ahmed (M)		Directeur	
Ait-Kaci , Dalila (Mme)	DEA	Maître Assistante/Attachée de Recherche	Géologie marine; Sédimentologie
Alili , Djamal Eddine (M)	Thèse magistère	Maître Assistant/Attaché de Recherche	Biologie marine et écologie; Poissons
Benmeradi , Nasser (M)	Thèse magistère	Chargé de Cours/Chargé de Recherche	Biologie marine et écologie; Reproduction mollusques
Bensalah , Fawzia (Mme)	Doctorat 3ème cycle	Chargée de Cours/Attachée de Recherche	Biologie marine et écologie; Génétique de populations de mollusques
Berkane-Maouche , Samia (Mme)	Doctorat 3ème cycle	Chargée de Cours/Chargée de Recherche	Géologie marine; Sédimentologie
Boukhroufa , Faiçal (M)	Thèse magistère	Maître Assistant/Attaché de Recherche	Biologie marine; Cyto-histologie; Reproduction
Boumendjel , Myriam (Mme)	DES	Assistante/Attachée de Recherche	Biologie marine et écologie; Poissons: Reproduction
Chalabi , Lila (Mme)	Doctorat 3ème cycle	Chargée de Cours/Chargée de Recherche	Biologie et écologie marines; Populations de praires et palourdes
Cherabi , Omar (M)	Thèse magistère	Maître Assistant/Attaché de Recherche	Biologie et écologie marines; Poissons
Djediat , Chakib (M)	Thèse magistère	Maître Assistant/Attaché de Recherche	Biologie marine; Cyto-histologie; Reproduction
Harchouche , Kamel (M)	Thèse magistère	Maître Assistant/Attaché de Recherche	Biologie marine et écologie; Poissons
Hemida , Farid (M)	Thèse magistère	Maître Assistant/Attaché de Recherche	Biologie marine et écologie; Poissons
Mouhoub , Redouane (M)	Thèse magistère	Maître Assistant/Attaché de Recherche	Biologie marine et écologie; Poissons
Nouar , Ahmed (M)	Thèse magistère	Chargé de Cours/Chargé de Recherche	Biologie marine et écologie; Poissons; Pêches
Samson-Kechacha , Leila (Mme)	Doctorat 3ème cycle	Chargée de Cours/Chargée de Recherche	Biologie marine et écologie; Sels nutritifs; Phytoplancton; Systèmes perturbés
Semroud , Rachid (M)	Doctorat 3ème cycle	Chargé de Cours/Chargé de Recherche	Biologie marine et écologie; Herbières à Posidonies
Seridi , Halima (Mme)	Thèse magistère	Maître Assistante/Attachée de Recherche	Biologie marine et écologie; Algologie; Taxonomie

Nom	Diplôme	Fonction	Spécialité
Seridji , Rabia (Mme)	Doctorat	Maître de Conférences	Biologie marine et écologie; Zooplancton; Larves de crustacés décapodes
Yahiaoui , Mokhtar (M)	Doctorat 3ème cycle	Chargé de Cours/Chargé de Recherche	Biologie marine et écologie; Crustacés; Pêche

CROATIA

Institute of Oceanography and Fisheries-Split

Biological Institut-Dubrovnik (BIOINST)

Institut za Oceanografiju i Ribarstvo-Split

Bioloski Zavod-Dubrovnik (IORBZDBK)

12 Damjana Jude
P.O. Box 39
Dubrovnik 50000
CROATIA

Telephone (38) 50 27937
Fax (38) 50 25775

Executive officer Dr Frano KRSINIC, Scientist

Governmental, national institution founded in 1951. Languages: Croatian; English

Nature of activities Research

Areas of speciality/activities Nutrients; Phytoplankton; Zooplankton; Algae; Molluscs; Crustaceans; Marine microbiology; Productivity; Aquaculture; Monitoring and/or assessment; Pollution

Environments Coastal zone; Littoral zone; Estuaries

Geographic areas Adriatic Sea

Co-operative research programmes/projects

- UNEP/MED POL monitoring programme

Staff Professional 16; Technical 2; Other 17

Information facilities

Library 3785 volumes/reprints; 15 periodicals **Co-operative programmes/projects** Various

Computers PCs (IBM, Olivetti); Apple Macintosh II **Applications** Scientific; Statistical

Physical facilities 400 m²

Laboratories 250 m² **Aquariums** 27

Facilities for 4 visiting scientists; 10 students **Conference/seminar facilities** available

Professional/Scientific staff

Name	Degree	Position	Specialization
Batistic , Mirna (Ms)	BA	Assistant	Plankton
Benovic , Adam (Mr)	PhD	Director	Oceanography
Boletin , Jaksa (Mr)	MSc	Assistant Scientist	Mariculture
Caric , Marina (Ms)	PhD	Scientist	Chemistry
Hecimovic , Marija (Ms)	MSc	Assistant Scientist	Botany
Hecimovic , Stipe (Mr)	MSc	Assistant Scientist	Botany
Jasprica , Nemed (Mr)	MSc	Assistant Scientist	Phytoplankton
Krsinic , Frano (Mr)	PhD	Scientist/Executive Officer	Oceanography
Lucic , Davor (Mr)	PhD	Assistant Scientist	Microzooplankton
Mikus , Josip (Mr)	BA	Assistant	
Musin , Damir (Mr)	MSc	Assistant Scientist	Oceanography
Njire , Jakica (Ms)	MSc	Assistant Scientist	Mariculture
Onofri , Vladimir (Mr)	MSc	Assistant Scientist	Oceanography
Radonicic , Svetlana (Ms)	BA	Assistant	Microbiology
Skaramuca , Bosko (Mr)	PhD	Scientist	Oceanography
Vilicic , Damir (Mr)	PhD	Scientist	Oceanography

Institute of Oceanography and Fisheries

Institut za Oceanografiju i Ribarstvo (IOR)

63 Mose Pijade
P.O. Box 500
Split 58000
CROATIA

Telephone (38) 58 46688
(38) 58 46795
Fax (38) 58 46593

Executive officer Dr Ante BARIC, Director

Governmental, national institution founded in 1930. Languages: Croatian; English

Nature of activities Research; Technical training; Laboratory; Academic/educational

Purpose and objectives Study of the physical, chemical, biological and geological characteristics of the Adriatic; Study of fisheries

CROATIA

Areas of speciality/activities Physical oceanography; Water masses and circulation; Currents and dispersion; Waves, tides, surges and sea level; Modelling; Marine chemistry and geochemistry; Analytical methodology; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Suspended matter; Biota; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Eutrophication; Plankton blooms; Molluscs; Crustaceans; Marine physiology; Marine microbiology; Toxicology; Taxonomy and systematics; Productivity; Community and population studies; Fisheries; Aquaculture; Marine meteorology and climatology; Monitoring and/or assessment; Coastal zone management; Pollution; Environmental impact assessment; Environmental education; Remote sensing; Assistance to the Government of Croatia in the management of living resources of the Adriatic; Pollution control measures; Sanitary quality control of coastal areas and beaches

Environments Brackishwater; Coastal zone; Pelagic environment; Benthic environment; Littoral zone; Estuaries

Geographic areas Adriatic Sea

Research programmes/projects

- Influence of climatic change on water mass exchange and marine ecosystems
- Influence of natural and anthropogenic origin ecophysiology on marine aquaculture
- Management of renewable resources of the Adriatic Sea
- Organic pollutants in the Adriatic, red tide phenomena
- Experimental hatchery

Co-operative research programmes/projects

- UNEP/MED POL: Monitoring station
- Correlation of some pathogens to bacterial indicator organisms in polluted recreational areas
- Climatological Atlas of the Adriatic Sea
- Extreme phytoplankton bloom in semi-enclosed coastal bays

Training programmes

- Training course in fisheries for participants from developing countries

Staff Professional 47; Technical 15; Other 23

Information facilities

Publications Acta Adriatica, journal; Reports; Notes; "Flora and Fauna of the Adriatic", monographs; Studies; Technical reports

Library 5000-8000 volumes/reprints; 290 periodicals **Librarian** Mrs Ankica Boksic

Computers Iskra Delta Adria 300/2 (DEC MicroVax/II)

Physical facilities 2100 m²

Laboratories 1000 m² **Laboratory equipment** AAS-Perkin Elmer; GC-Varian; Aanderaa current meters; Aanderaa thermistor chain; Techicon-autoanalyser; PAP-polarograph; 2 licensed SCUBA divers

Research vessels/crafts RV "Bios" (1953), fishing trawler, 27.74 m, 173 BRT, equipped with echosounder, trawling winch, satellite navigation system Transit, scientific sounder Simrad, 7 crew, accommodations for 13 scientists

Facilities for 5 visiting scientists **Conference/seminar facilities** for 30 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Alegria , Veronika (Ms)	PhD	Senior Scientist	Fishery science; Populations dynamics; Ecology
Alfirevic , Slobodan (Mr)	PhD	Senior Scientist	Marine geology
Antolic , Boris (Mr)	PhD	Assistant	Marine biology; Taxonomy and ecology of seaweeds and seagrasses
Baranovic , Anamarija (Ms)	MSc	Assistant	Marine biology; Zooplankton ecology
Baric , Ante (Mr)	PhD	Director	Chemical oceanography; Nutrients
Beg , Gordana (Ms)	BA		Physical oceanography; Numerical modelling
Bone , Mario (Mr)	PhD	Scientist	Physical oceanography; Numerical modelling
Cetinic , Perica (Mr)	PhD	Senior Scientist	Fisheries Science; Fishing technique
Dadic , Vlado (Mr)	MSc	Assistant	Computer sciences; Data management
Dujmov , Jozo (Mr)	MSc	Research Officer	Marine chemistry; Organic pollutants
Dulcic , Jakov (Mr)	BA	Assistant	Marine biology (Fishery science); Ichthyoplankton, eggs, larvae, small pelagic fish
Gacic , Miroslav (Mr)	PhD	Senior Scientist	Physical oceanography; Coastal circulation; Climatic changes
Glamuzina , Branko (Mr)	MSc	Assistant	Fishery biology; Aquaculture; Toxicology
Glavurtic , Milos (Mr)	BA	Assistant	Informatics; Data management
Grbec , Branka (Ms)	MSc	Assistant	Physical oceanography; Data analysis; Coastal circulation
Grubelic , Ivana (Mr)	BA	Assistant	Marine biology; Zoobenthos ecology
Jardas , Ivan (Mr)	PhD	Senior Scientist	Marine biology (Fishery science); Ichthyology; Coastal fisheries
Jug Dujakovic , Jurica (Mr)	MSc	Assistant	Fishery biology; Aquaculture; Fishery ecology
Jukic , Stjepan (Mr)	PhD	Senior Scientist	Fishery science; Stock assessment and management

CROATIA

Name	Degree	Position	Specialization
Jurakic , Antonio (Mr)	BA	Assistant	Fishery science; Stock assessment; Fisheries statistics
Kacic , Ivo (Mr)	PhD	Senior Scientist	Fishery science; Pelagic resources; Stock assessment (echodetection)
Katavlic , Ivan (Mr)	PhD	Senior Scientist	Fishery biology; Mariculture; Environmental aspect of aquaculture; Culturing technique; Reproduction
Kovacevic , Vedrana (Ms)	MSc	Assistant	Physical oceanography; Coastal circulation; Data analysis
Kraljevic , Miro (Mr)	MSc	Assistant	Fishery biology; Mariculture; Nutrition and fish ecology
Krstulovic , Nada (Ms)	PhD	Senior Scientist	Marine biology; Marine microbiology; Sanitary bacteriology
Kuspilic , Grozdan (Mr)	MSc	Assistant	Chemical oceanography; Microconstituents of seawater
Marasovic , Ivona (Ms)	PhD	Senior Scientist	Marine biology; Phytoplankton ecology; Phytoplankton blooms
Marsic , Jasna (Ms)	BA	Assistant	Biochemistry; Aquaculture; Biotechnology
Morovic , Mira (Mr)	MSc	Assistant	Physical oceanography
Odzak , Niksa (Mr)	BA	Assistant	Chemical oceanography; Heavy metals
Pallaoro , Armin (Mr)	MSc	Assistant	Marine biology (Fishery science); Ichthyology; Coastal fisheries
Petrovic , Andelka (Ms)	MSc	Assistant	Marine biology; Mariculture; Plankton
Pucher-Petkovic , Tereza (Ms)	PhD	Senior Scientist	Marine biology; Phytoplankton ecology, long-term fluctuations
Regner , Dubravka (Ms)	PhD	Senior Scientist	Marine biology; Zooplankton, copepods
Regner , Slobodan (Mr)	PhD	Senior Scientist	Marine biology; Ichthyoplankton, eggs, larvae, small pelagic fish
Simunovic , Ante (Mr)	MSc	Assistant	Marine biology; Benthic communities, molluscs
Sinovcic , Gorenka (Ms)	MSc	Assistant	Fishery biology; Ichthyology, populations dynamics, small pelagic fish
Solic , Mladen (Mr)	MSc	Assistant	Marine biology; Marine microbiology; Sanitary bacteriology
Span , Ante (Mr)	PhD	Senior Scientist	Marine biology; Taxonomy and ecology of seaweeds; Biocoenology

CROATIA

Name	Degree	Position	Specialization
Stojanoski , Lambe (Mr)	MSc	Assistant	Chemical oceanography; Hydrography
Sucevic , Perica (Ms)	MSc	Assistant	Marine chemistry; Organic pollutants
Tonkovic , Miro (Mr)	MSc	Assistant	Fishery science; Stock assessment/management
Tudor , Mladen (Mr)	MSc	Assistant	Biochemistry; Aquaculture; Toxicology; Pollution
Vucetic , Tamara (Ms)	PhD	Senior Scientist	Marine biology; Zooplankton ecology, long-term fluctuations
Vukadin , Ilija (Mr)	MSc	Assistant	Chemical oceanography; Nutrients
Zvonaric , Tomislav (Mr)	PhD	Senior Scientist	Chemical oceanography; Heavy metals

**"Rudjer Boskovic" Institute
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Executive officer Dr Nenad SMODLAKA, Director

Governmental, national institution founded in 1891. Languages: Croatian; English; Italian

Nature of activities Research; Academic/educational

Purpose and objectives Basic and applied marine research

Areas of speciality/activities Physical oceanography; Water masses and circulation; Currents and dispersion; Air-sea interaction; Marine chemistry and geochemistry; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Radioactivity; Sediments; Waters; Suspended matter; Biota; Marine geology and geophysics; Sedimentology; Coastal and nearshore processes; Marine biology and ecology; Phytoplankton; Zooplankton; Benthos; Algae; Eutrophication; Plankton blooms; Molluscs; Crustaceans; Marine physiology; Marine biochemistry; Marine microbiology; Pathology of marine species; Toxicology; Taxonomy and systematics;

CROATIA

Productivity; Community and population studies; Aquaculture; Marine environmental management; Monitoring and/or assessment; Coastal zone management; Pollution; Environmental impact assessment; Environmental education; Development policy/planning; Resources management; Assistance in planning the development of marine resources; Monitoring programmes; Determination of sites for marine sewage outfalls

Environments Coastal zone; Pelagic environment; Benthic environment; Estuaries

Geographic areas Adriatic Sea

Research programmes/projects

- Study of main physical, chemical and biological process in the Adriatic ecosystem
- Ecotoxicology and ecophysiology of marine organisms
- Taxonomy and dynamics of benthic communities
- Analysis of genotoxicity and DNA damage in marine organisms under pollution

Co-operative research programmes/projects

- Alpe-Adria: Study of the mucilage problem in the northern Adriatic
- UNEP/MED POL: Maintenance of monitoring stations
- Croatian/German co-operation in science: Transport of osmolytes and heavy metals across surfaces of marine organisms

Training programmes

- Course work and research leading to
- MSc in oceanology and biology
 - PhD in chemistry and biology

Staff Professional 35; Technical 6; Other 15

Information facilities

Library 12000 volumes/reprints; 300 periodicals **Co-operative programmes/projects** "Rudjer Boskovic" Institute Library **Librarian** Ms Branka Cerin

Computers 24 PCs (4 PC-286, 4 PC-386SX, 15 PC-386, 1 PC-486); 2 HP Laserjet III; Various Epson matrix printers (13 LQ500 series, 3 LQ1000 series, 2 FX80); 1 HP 7550+ plotter; 1 Epson GT4000 colour scanner **Applications** Accounting/financial planning; Database management; Graphics; Mapping; Scientific; Statistical; Word processing **Data exchange** 5.25"(HD)/3.5"(HD) PC diskettes; WordPerfect 5.1, Paradox, Quattro Pro, ASCII text files

Physical facilities 1700 m²

Laboratories 1000 m² **Laboratory equipment** SCUBA diving equipment for 10; Spectrophotometers; Fluorometers; Microspectrofluorometer; Centrifuges; Ultracentrifuges; Multichannel analyser; Beta-scintillating counter; Gas-chromatograph; AA-spectrometer; Autoanalyser; Various research microscopes; CTD, O₂, pH, turbidity, fluorometer, probe; Quantameter-fluorometer probe; Current meters; Salinometers; pH meters **Aquariums** Public aquarium, 21 tanks: 1x40 m³; 1x10 m³; 2x2 m³; 14x1 m³; 3x0.5 m³ **Visitors** 60000 annually

Research vessels/crafts RV "Vila Velebita" (1948), mine-sweeper, redesigned in 1971, 26.5 m, equipped with 30 m² laboratories, running seawater, A-frame, hydraulic crane, 12/24 DC, 220/380 VAC (2x40 kVA), Loran C, 2 radars, 2 VHF radiotelephones, satellite navigator, autopilot, depth recorder, trawler winch, 2 hydrowinches, 3-5 crew, accommodations for 8-10 scientists; RV "Burin" (1978), 9 m, equipped with A-frame, light trawler winch, radar, VHF radiotelephone, depth recorder, 2 crew

Facilities for 45 students

Professional/Scientific staff

Name	Degree	Position	Specialization
Batel , Renato (Mr)	PhD		Molecular biology; DNA study
Bihari , Nevenka (Ms)	PhD		Molecular biology; DNA study
Brana , Josip (Mr)	PhD		Physical oceanography; Currents; Dynamics
Brenko , Mirjana (Ms)	PhD		Marine biology; Shellfish
Degobbis , Danilo (Mr)	PhD		Biological oceanography; Nutrients; Eutrophication
Devescovi , Massimo (Mr)	MSc		Ecotoxicology; Bacteria; Marine invertebrates
Filipic , Branka (Ms)	MSc		Biological oceanography; Phytoplankton
Fuks , Dragica (Ms)	MSc		Biological oceanography; Marine bacteriology
Igic , Ljubimka (Ms)	PhD		Marine biology; Fouling
Ivancic , Ingrid (Ms)	MSc		Oceanography; Nutrients
Jaklin , Andrej (Mr)	MSc		Marine biology; Benthic communities; Diving
Jaksic , Zeljko (Mr)	BS		Molecular biology; DNA study
Jelisavcic , Olga (Ms)	MSc		Biological oceanography; Radioactivity
Krajcar , Valter (Mr)	BS		Physical oceanography; Currents; Dynamics
Labura , Zeljka (Ms)	MSc		Marine biology; Pathology
Loncar , Zeljko (Mr)	BS		Biological oceanography; Nutrients
Lucu , Cedomil (Mr)	PhD		Marine biology; Ecophysiology; Ecotoxicology
Medakovic , Davorin (Mr)	MSc		Marine biology; Shellfish; Crystallography
Najdek , Mirjana (Ms)	PhD		Marine chemistry; Gas chromatography; Pesticides; Lipids
Ozretic , Bartolo (Mr)	PhD		Marine biology; Ecotoxicology
Ozretic-Krajnovic , Mirjana (Ms)	PhD		Marine biology; Ecotoxicology

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Name	Degree	Position	Specialization
Pavicic , Dijana (Ms)	BS		Marine biology; Ecophysiology; Radioecology
Petrovic , Sinisa (Mr)	MSc		Marine biology; Ecotoxicology
Precali , Robert (Mr)	MSc		Biological oceanography; Primary production; Eutrophication; Databank
Puskaric , Stasa (Mr)	PhD		Oceanography; Sedimentology
Santini , Mirjana (Ms)	BS		Biological oceanography; Phytoplankton
Smodlaka , Nenad (Mr)	PhD	Director	Biological oceanography; Primary production; Eutrophication
Stevcic , Zdravko (Mr)	PhD		Marine biology; Systematics; Crustacea
Stipic , Zeljko (Mr)	BS		Biological oceanography; Nutrients
Supic , Nastjenjka (Ms)	BS		Physical oceanography; Thermodynamics
Travizi , Ana (Ms)	MSc		Marine biology; Nematodes
Vukmirovic , Milena (Ms)	BS		Molecular biology; DNA study
Zahtila , Elvis (Mr)	MSc		Marine biology; Taxonomy; Polychaeta
Zavodnik , Dusan (Mr)	PhD		Marine biology; Systematics; Benthic dynamics
Zavodnik , Nevenka (Ms)	PhD		Marine biology; Benthic algae

**"Rudjer Boskovic" Institute
Centre for Marine Research-Zagreb (IRB-CMR-Z)
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Executive officer Dr Bozena M COSOVIC, Acting Director

Governmental, national institution founded in 1950. Languages: Croatian; English

Nature of activities Research; Laboratory; Academic/educational

Purpose and objectives Fundamental and applied research in marine, estuarine and freshwater systems

Areas of speciality/activities Physical oceanography; Currents and dispersion; Air-sea interaction; Waves, tides, surges and sea level; Modelling; Marine chemistry and geochemistry; Analytical methodology; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Radioactivity; Sediments; Waters; Suspended matter; Biota; Marine geology and geophysics; Topography and morphology; Sedimentology; Coastal and nearshore processes; Marine biology and ecology; Phytoplankton; Benthos; Fish; Algae; Eutrophication; Plankton blooms; Molluscs; Marine physiology; Marine biochemistry; Marine microbiology; Parasitology; Pathology of marine species; Toxicology; Community and population studies; Fisheries; Aquaculture; Marine environmental management; Monitoring and/or assessment; Coastal zone management; Pollution; Nature conservation and/or restoration; Environmental impact assessment; Environmental education; Marine support services; Remote sensing; Data acquisition and telemetry; Ocean policy/Law of the sea; Development policy/planning; Recreation/tourism; Disaster preparedness and relief; Assistance to Croatian authorities in development planning, protection and use of marine resources; Guidance in water quality-control in Croatia; Monitoring of pollutants and quality-control in aquaculture

Environments Lakes; Coastal zone; Rivers; Littoral zone; Islands; Estuaries

Geographic areas Mediterranean Sea; Adriatic Sea

Research programmes/projects

- Physical chemistry of trace metals in water systems
- Organic substances and processes in natural waters
- Barotropic and baroclinic dynamics of the Adriatic shelf
- Eutrophication in a stratified estuary
- Immune response on viral antigen in insoluble immunocomplexes
- Digital modelling of physical and chemical processes in water and at geological and biological interface
- Fate of radionuclides and microconstituents in natural systems
- Genotoxic risk assessment in the water environment by molecular biomarkers
- Surface-electrochemical properties of metals and metal oxides
- Pollution and processes at the solid-liquid interface
- Pathology, genetics and nutritionism of water organisms
- Biogeographical distribution, mapping and development of the Croatian Karst ecosystems

Co-operative research programmes/projects

- EUROMAR/ELANI: Development of electroanalytical instrumentation for physico-chemical characterization of trace metals in the marine environment
- EC: Eutrophication processes in the stratified Krka estuary (East Adriatic). Importance of biogeochemical reactions at the halocline
- EC: Pollutant receiving capacity of selected areas of the Northern Adriatic
- UNEP/FAO/IAEA/IOC research projects
- UNEP/MED POL: National monitoring project
- ASCOP: Croatian-Italian monitoring of the Adriatic Sea
- Bilateral scientific co-operation with Germany, Italy, France, USA

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Training programmes

- Course work and research leading to MSc and PhD in oceanology, marine biology, marine chemistry, marine physics and marine geology

Staff Professional 88; Technical 15; Other 5

Information facilities

Publications V. Zutic (Ed.): Physical, chemical and biological processes in stratified estuaries, *Marine Chemistry*, 32(2-4):111-390, 1991; V. Pravdic (Ed.): Chemistry of solid/liquid interfaces, *Croatica Chemica Acta*, 42(2), 1970; 45(1), 1973; 48(4), 1976; 53(2), 1980; 56(4), 1983; 60(3), 1987; 63(3), 1990; M. Branica (Ed.): Chemistry of the Mediterranean, *Marine Chemistry*, 18(2-4), 1986; 22(2-4), 1987; 28(1-3):1-266; 36(1-4):1-38, 1991; Annual reports

Library 29200 volumes; 373 periodicals **Librarian** Ms Vlasta Topolcic

Computers 1 DEC 4000/200; 1 DEC VAX 11/730; Various PCs **Applications**

Accounting/financial planning; Communications; CAD/CAM/CAE; Database management; Desktop publishing; Geographic Information Systems (GIS); Graphics; Library/documentation; Mathematical; Mapping; Modelling; Network access; Scientific; Statistical; Word Processing **Data exchange** 5.25"/3.5" PC diskettes; Tape; CD-ROM; dbase, MS-Word, AUTOCAD files

Physical facilities

Laboratories 1330 m² **Laboratory equipment** AAS (Hewlett Packard); HPLC (LKB); GC (Perkin Elmer); GCMS (Hewlett Packard); TOC analyser (Shinadzu); Electrochemical instruments; Automatised microelectrophoresis S-3000 (PEN-KEM); Aminoanalyser (Tecator); UV VIS spectrophotometer (Perkin Elmer); Ultracentrifuges; Alpha-beta-gamma radiospectrometry (Canberra); B-liquid scintillation spectrometer; Diving equipment for 7 licensed divers **Aquariums** Under construction

Species maintained *Oncorhynchus mykiss*; *Cyprinus carpio* L.; *Oncorhynchus kisutch*; *Pecten jacobaeus*; *Mytilus galloprovincialis*; *Ostrea edulis*

Research vessels/crafts Several boats for estuarine research

Facilities for 5 visiting scientists; 30 students **Conference/seminar facilities** for 30 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Ahel , Marijan (Mr)	PhD	Research Associate	Aquatic organic chemistry; Biogeochemistry of pollutants and natural products
Barisic , Delko (Mr)	MSc	Research Assistant	Radiochemistry; Radioecology; Environment
Batina , Nikola (Mr)	PhD	Research Associate	Chemistry; Electroanalysis; Adsorption
Biscan , Jasenka (Ms)	PhD	Research Associate	Chemistry; Surface chemistry

Name	Degree	Position	Specialization
Bosnar , Darko (Mr)	BS	Graduate Assistant	Electrical engineering; Computer sciences; Modelling; Information systems; Communication
Bozic , Davor (Mr)	BS	Graduate Assistant	Mathematics; Ecological modelling
Branica , Marko (Mr)	PhD	Senior Scientist	Marine chemistry; Physico-chemical characterization of trace metals
Britvic , Smiljana (Ms)	PhD	Research Associate	Ecotoxicology; Water ecotoxicology
Cerovecki , Ivana (Ms)	BS	Graduate Assistant	Physical oceanography; Sea level, tides and surges
Ciglenecki , Irena (Ms)	BS	Graduate Assistant	Chemistry; Sulphur chemistry in marine environment
Cosovic , Bozena (Ms)	PhD	Senior Scientist/Acting Director	Aquatic and interfacial chemistry; Electroanalysis; Adsorption; Surface active substances
Coz-Rakovac , Rozalinda (Ms)	MSc	Research Assistant	Aquaculture; Histology
Culjak , Ivan (Mr)	BS	Graduate Assistant	Electroanalytical chemistry; Metal speciation
Cukman , Dunja (Ms)	PhD	Research Associate	Chemistry; Physical chemistry; Electrochemistry
Dotic , Renata (Ms)	PhD	Research Assistant	Chemistry; Physico-chemical characterization of uranium (VI) in natural waters
Ecimovic-Merle , Martina (Ms)	BS	Graduate Assistant	Biology; Immunology
Erk , Marijana (Ms)	BS	Graduate Assistant	Environmental chemistry; Speciation of metals in natural waters and their interaction with organic matter; Interaction of radionuclides with particulate matter
Gasparovic , Blazenka (Ms)	MSc	Research Assistant	Chemistry; Interaction of organic pollutants with natural organic matter
Grahek , Zeljko (Mr)	BS	Graduate Assistant	Radiochemistry; Radioecology; Environment
Hacmanjek , Mato (Mr)	MSc	Research Assistant	Aquaculture; Pathology of aquatic organisms; Parasitology
Hodko , Dalibor (Mr)	PhD	Research Assistant	Chemistry; Physical chemistry; Electrochemistry
Hrsak , Dubravka (Ms)	PhD	Research Associate	Microbiology; Organic chemistry; Biodegradation of organic compounds
Juros , Suzana (Ms)	MSc	Research Assistant	Chemistry; Immunochemistry; Molecular virology

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Name	Degree	Position	Specialization
Kniewald , Goran (Mr)	PhD	Research Assistant	Geochemistry; Geology; Inorganic marine geochemistry (trace elements, redox systems)
Komorsky-Lovric , Sebojka (Ms)	PhD	Research Associate	Chemistry; Analytical chemistry of marine system
Konrad , Zdenka (Ms)	PhD	Research Associate	Environmental chemistry; Speciation of metals in natural waters and their interaction with organic matter; Interaction of radionuclides with particulate matter
Kosutic , Katarina (Ms)	MSc	Research Assistant	Radiochemistry; Radioecology; Environment
Kovac , Solveg (Ms)	BS	Graduate Assistant	Oceanography; Electroanalysis of marine particles and colloids
Kovac , Tatjana (Ms)	BS	Graduate Assistant	Water pollution; Determination of organic pollutants
Kozar , Sonja (Ms)	MSc	Research Assistant	Chemistry; Trace metals in the environment; Distribution of metals between particulate and dissolved phase
Kozarac , Zlata (Ms)	PhD	Senior Research Associate	Chemistry; Interfacial processes in marine environment
Krca , Sanja (Ms)	PhD	Research Assistant	Ecotoxicology; Water ecotoxicology
Krznaric , Damir (Mr)	PhD	Research Associate	Chemistry; Adsorption studies in environment
Kurelec , Branko (Mr)	PhD	Senior Scientist	Ecotoxicology; Genotoxicity
Kuzmic , Milivoj (Mr)	MSc	Research Assistant	Physical oceanography; Currents and circulation; Mathematical modelling
Kvastek , Kresimir (Mr)	PhD	Research Associate	Chemistry; Radioecology; Hydrogeology; Electrochemistry
Kvestak , Renata (Ms)	BS	Graduate Assistant	Aquatic organic chemistry; Synthetic surfactants
Lazaric , Katica (Ms)	MSc	Research Assistant	Radiochemistry; Radioecology; Environment
Legovic , Tarzan (Mr)	PhD	Senior Scientist	Marine research; Modelling
Limic , Nedzad (Mr)	PhD	Senior Scientist	Mathematics; Transport processes of pollutants in the sea
Lovric , Andrija-Zeljko (Mr)	MSc	Research Assistant	Botany; Karst ecology; Xerophytes; Endemics
Lovric , Milivoj (Mr)	PhD	Senior Research Associate	Chemistry; Theory of electrochemistry in marine environment
Lugaric , Jasmina (Ms)	BS	Graduate Assistant	Marine chemistry; Marine electrochemistry

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Name	Degree	Position	Specialization
Lulic , Stipe (Mr)	PhD	Research Associate	Radiochemistry; Nuclear chemistry; Radioecology; Environment
Malnar , Leon (Mr)	MSc	Research Assistant	Aquaculture; Bacteriology; Virology
Margus , Drago (Mr)	PhD	Research Assistant	Aquaculture, Shellfish culture
Marijan , Drazen (Mr)	BS	Graduate Assistant	Chemistry; Electrochemistry
Martincic , Darko (Mr)	PhD	Research Assistant	Analytical chemistry; Distribution of trace metals between water, sediments and mussels
Mihelcic , Goran (Mr)	BS	Graduate Assistant	Marine geology; Recent sediments; Anoxic processes
Mikac , Nevenka (Ms)	PhD	Research Assistant	Chemistry; Biogeochemical cycle of trace metals in the environment; Organometallic compounds
Milunovic , Momir (Mr)	BS	Technical Assistant	Electrical engineering
Mlakar , Marina (Ms)	PhD	Research Assistant	Chemistry; Electrochemistry of trace metals; Electroanalysis
Modrusan , Zvonko (Mr)	MSc	Research Assistant	Aquaculture; Fish biology
Musani , Ljerka (Ms)	PhD	Research Associate	Environmental chemistry; Speciation of metals in natural waters and their interaction with organic matter; Interaction of radionuclides with particulate matter
Pasaric , Zoran (Mr)	MSc	Research Assistant	Mathematics; Data analysis; Mathematical modelling
Pavicic , Jasenka (Ms)	MSc	Research Assistant	Marine biochemistry; Toxicology of marine organisms; Induction of metallothionein in <i>Mytilus galloprovincialis</i>
Pecar , Jadranka (Ms)	BS	Graduate Assistant	Electrical engineering; Computer sciences; Modelling; Information systems; Communication
Picer , Mladen (Mr)	PhD	Research Associate	Water pollution; Determination of organic pollutants
Picer , Nena (Ms)	PhD	Research Associate	Water pollution; Determination of organic pollutants
Pivcevic , Branka (Ms)	BS	Graduate Assistant	Ecotoxicology; Genotoxicity
Pizeta , Ivanka (Ms)	MSc	Research Assistant	Electrochemistry; Development of new methods; Processing of data
Plavsic , Marta (Ms)	PhD	Research Associate	Chemistry; Interaction of trace metals with organics in marine environment
Pokric , Biserka (Ms)	PhD	Senior Research Associate	Chemistry; Immunochemistry

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Name	Degree	Position	Specialization
Pravdic , Velimir (Mr)	PhD	Senior Scientist	Chemistry; Physical chemistry; Environmental science
Rac , Mladen (Mr)	MSc	Research Assistant	Botany; Mountain ecology; Alpine plants; Bioclimatology
Raspor , Biserka (Ms)	PhD	Senior Research Associate	Marine chemistry; Speciation of essential and toxic trace metals; Complexation of Cd, Cu, Pb, Zn with the organic matter
Ruzic , Ivica (Mr)	PhD	Senior Scientist	Environmental chemistry; Modelling; Dispersion of pollutants; Information systems (GIS)
Sekulic , Bogdan (Mr)	PhD	Senior Research Associate	Marine ecology; Land base sources; Biometrical characteristics of Nephropidae
Smrkulj , Bojan (Mr)	BS	Graduate Assistant	Aquaculture
Sondi , Ivan (Mr)	BS	Graduate Assistant	Geology; Environmental science; Geochemistry
Stipanicev , Vesna (Ms)	BS	Graduate Assistant	Chemistry; Oceanography; Trace metals in seawater
Skrivanic , Ante (Mr)	MSc	Research Assistant	Geology; Marine geology and geochemistry
Strunjak-Perovic , Ivancica (Ms)	BS	Graduate Assistant	Aquaculture
Svetlicic , Vesna (Ms)	PhD	Senior Research Associate	Marine chemistry; Interfacial processes and phase transitions; New sensors
Surija , Budimir (Mr)	BS	Graduate Assistant	Geology; Geochemistry; Trace metals in sediments
Sustra , Anita (Ms)	BS	Graduate Assistant	Aquaculture
Terzic , Senka (Ms)	MSc	Research Assistant	Aquatic organic chemistry; Synthetic surfactants in the marine environments; Pigments
Teskeredzic , Emin (Mr)	PhD	Senior Research Associate	Aquaculture; Biotechnology; Genetics
Teskeredzic , Zlatica (Ms)	PhD	Research Associate	Aquaculture; Nutritionism
Tomaic , Jadranka (Ms)	PhD	Research Associate	Marine chemistry; Characterization of organic matter and organic aggregates in the sea
Tomas , Branko (Mr)	BS	Graduate Assistant	Computer simulation; Transport of substances in the sea
Tomec , Marija (Ms)	PhD	Research Assistant	Aquaculture; Phytoplankton
Vdovic , Neda (Ms)	MSc	Research Assistant	Geology; Environmental science; Geochemistry
Vertacnik , Astrea (Ms)	MSc	Research Assistant	Radiochemistry; Radioecology; Environment

Name	Degree	Position	Specialization
Vojvodic , Vjerocka (Ms)	PhD	Research Assistant	Marine and freshwater chemistry; Dissolved and colloid organic matter
Vukovic , Marijan (Mr)	PhD	Senior Research Associate	Chemistry; Physical chemistry; Electrochemistry
Zelic , Marina (Ms)	PhD	Research Assistant	Chemistry; Species equilibria; Electrochemistry
Zutic , Vera (Ms)	PhD	Senior Scientist	Marine chemistry; Estuarine processes; Eutrophication; Electroanalysis

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Executive officer Dr Ivan PENZAR, Professor

Governmental, national institution founded in 1861. Languages: Croatian; English

Nature of activities Research; Academic/educational

Purpose and objectives Research and education in physics of the atmosphere, the sea and the earth's interior

Areas of speciality/activities Physical oceanography; Currents and dispersion; Air-sea interaction; Waves, tides, surges and sea level; Modelling; Marine geology and geophysics; Seismology; Marine meteorology and climatology; Seismological service to the Republic of Croatia

Environments Coastal zone; Estuaries

Geographic areas Mediterranean Sea; Adriatic Sea

CROATIA

Research programmes/projects

- Atmosphere/ocean interaction and recent climatic changes
- Physical processes in the earth's interior

Co-operative research programmes/projects

- Centre for Marine Research, "Rudjer Boskovic" Institute, Zagreb: Barotropic and baroclinic dynamics of the Adriatic shelf
- Marine Biological Station, Piran: Subinertial sea level variations in the Mediterranean and related currents
- Novogradnja, Zagreb: Urban meteorology
- Centre for Marine Research, "Rudjer Boskovic" Institute, Zagreb: Participation in Eurotrac

Training programmes

- Course work leading to BS in geophysics and meteorology
- Course work and research leading to MSc and PhD in physics of the atmosphere, the sea, and the earth's interior

Staff Professional 18; Technical 4; Other 6

Information facilities

Publications Geofizika, journal

Library 24000 volumes/reprints; 198 periodicals **Librarian** Ms Katarina Gajic

Computers 2 PCs (386 and 286); 5 Atari STs; 1 Laptop (286); Printers (5 Epson dot matrix, 1 HP Laserjet III) **Applications** Communications; Education; Graphics; Mapping; Modelling; Scientific; Statistical; Word processing **Data exchange** 5.25"(HD)/3.5"(HD) PC diskettes; WordStar, WordPerfect, ChiWriter, Lotus 1-2-3, ASCII text files

Physical facilities 1500 m²

Laboratories 250 m² **Laboratory equipment** Tide-gauge station in Bakar; Meteorological station in Zagreb (Horvatovac); Seismological stations in Zagreb, Puntijarka, Rijeka and Hvar

Facilities for 2 visiting scientists; 15 students **Conference/seminar facilities** for 60 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Allegretti, Ivo (Mr)	MSc	Research Assistant	Seismology; Seismological instrumentation
Grisogono, Branko (Mr)	MSc	Assistant	Meteorology; Boundary; Layer meteorology
Grubisic, Vanda (Ms)	BS	Graduate student	Meteorology; Dynamic meteorology
Herak, Davorka (Ms)	MSc	Research Assistant	Seismology; Microseismicity

CROATIA

Name	Degree	Position	Specialization
Herak , Marijan (Mr)	MSc	Assistant	Seismology; Computational seismology
Juras , Josip (Mr)	MSc	Assistant	Meteorology; Climatology
Kuk , Vlado (Mr)	MSc	Research Assistant	Seismology; Seismic risk
Lisac , Inga (Ms)	PhD	Assistant Professor	Meteorology; Dynamic meteorology
Maric , Kresimir (Mr)	MSc	Research Assistant	Seismology; Seismological instrumentation
Milosevic , Andelka (Ms)	MSc	Research Assistant	Seismology; Microseismicity
Orlic , Mirko (Mr)	PhD	Assistant Professor	Physical oceanography; Coastal oceanography
Penzar , Ivan (Mr)	PhD	Professor/Executive Officer	Meteorology; Physical meteorology
Sinik , Nadezda (Ms)	PhD	Associate Professor	Meteorology; Dynamic meteorology
Skoko , Dragutin (Mr)	PhD	Professor	Seismology; Seismotectonics

CYPRUS

Ministry of Agriculture and Natural Resources

Department of Fisheries

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Executive officer Mr Andreas D DEMETROPOULOS, Director

Governmental, national institution founded in 1964. Languages: Greek; English

Nature of activities Research; Laboratory; Policy and planning; Information/public awareness

Purpose and objectives Fisheries/acquaculture, research, development, management; Marine pollution research, monitoring, control; Oceanographic, marine biological and ecological research; Conservation of marine species

Areas of speciality/activities Physical oceanography; Water masses and circulation; Currents and dispersion; Air-sea interaction; Marine chemistry and geochemistry; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Suspended matter; Biota; Marine biology and ecology; Benthos; Fish; Algae; Eutrophication; Molluscs; Crustaceans; Marine mammals; Taxonomy and systematics; Community and population studies; Fisheries; Aquaculture; Marine environmental management; Monitoring and/or assessment; Pollution; Nature conservation and/or restoration; Environmental impact assessment; Environmental education; Artificial reefs; Development policy/planning; Recreation/tourism; Disaster preparedness and relief; Resources management; Physical planning; Pollution research, monitoring and combating; Conservation work on aquatic species and habitats; Hydrography; Development of recreational fishing (angling); Law enforcement

Environments Coastal zone; Pelagic environment; Benthic environment; Rivers; Littoral zone; Lagoons; Estuaries; Reservoirs

Geographic areas Mediterranean Sea; Levantine Sea

Research programmes/projects

- Monitoring of fish stocks
- Pollution monitoring (petroleum, pesticides and heavy metals) in the aquatic environment
- Research on the effects of pollution in marine ecology
- Environmental impact assessment of the Limassol Central Sewerage System sea outfall, on fish farms
- Breeding of marine fish
- Turtle conservation/hatchery techniques/coastal ecology

Co-operative research programmes/projects

- UNEP/MED POL monitoring and research programme

Training programmes

- Summer courses in turtle conservation techniques

Staff Professional 13; Technical 30; Other 6

Information facilities

Publications Annual Report of the Fisheries Department and the Cyprus Fisheries (until 1989); Fisheries Bulletin (irregular)

Library 4000 volumes/reprints; 30 periodicals **Co-operative programmes/projects** Various

Computers 7 IBM PCs (5 AT, 2 XT); 7 IBM PS/2s (3 Model 60, 4 Model 30); 1 Apple Macintosh IIe computer; Printers (1 Epson FX100, 2 EX1000, 3 LQ1050, 2 IBM Proprinter XL24, 1 Brother 2024L, 2 laser printers); Plotters (HP 7470A, HP 7475A, Hitachi 672/XD) **Applications** Accounting/financial planning; Database management; Modelling; Scientific; Statistical; Word processing

Physical facilities 1300 m²

Laboratories 300 m²; climate controlled **Laboratory equipment** AAS; Gas chromatograph; UV chromatograph; CID; Aanderaa current meters and decoders; Microscopes; Reversing bottles; Dredges; Aqualungs and DPVs; Compressors (3 divers) **Species maintained** Chelonia mydas; Caretta caretta; Pseudemys caspica; Dicentranchus labrax Chrysophryaurata; Pagrus major; Puntazzo puntazzo; Siganus rivulatus

Research vessels/crafts RV "Triton", equipped with 16 m oal trawlers, winches, echosounders, radar, radio; "Alkyon" (multipurpose vessel), equipped with 13 m winch echosounders, radar, radio, planning hull; F3 (multipurpose vessel), 12 m, displacement hull, equipped with echosounders, radio and winch

Professional/Scientific staff

Name	Degree	Position	Specialization
Anastassiades, George (Mr)	BS	Fisheries Officer	Freshwater aquaculture; Trout farming
Athanasiadou, Lina (Ms)	BS	Fisheries Officer	Oceanography; Physical oceanography; Heavy metals (AAS) pollution; Pesticides
Demetropoulos, Andreas (Mr)	MSc	Director	Fisheries; Marine environment; Fisheries management; Marine ecology; Turtles; Pollution effects/combating
Economou, Emiliос (Mr)	MSc	Senior Fisheries Officer	Fisheries; Pelagic fisheries; Sponge fisheries; Fisheries development programmes
Georgiou, George (Mr)	BS	Fisheries Officer A	Mariculture; Hatchery technology
Hadjichristophorou, Myroula (Ms)	MSc	Fisheries Officer	Marine ecology; Conservation; Turtles; Wetlands
Hadjistefanou, Nicos (Mr)	PhD	Fisheries Officer	Stock assessment; Crustaceans; Brine shrimp

CYPRUS

Name	Degree	Position	Specialization
Konteatis , Demetris (Mr)	BS	Fisheries Officer	Fisheries development; Pelagic fish; Sponge fishery; Fisheries development
Loizides , Loizos (Mr)	MSc	Fisheries Officer	Pollution; Petroleum hydrocarbons; Oil pollution combatting; Marine chemistry
Loucaides , Zanettos (Mr)	BS	Fisheries Officer A	Fishing harbours
Stephanou , Daphne (Ms)	BS	Fisheries Officer A	Aquaculture; Marine and freshwater aquaculture; Recreational use of dams; Inland waters management

Ministry of Agriculture and Natural Resources Geological Survey Department

Nicosia
CYPRUS

Telephone (357) 2 302338
(357) 2 302337

Telex 5533 WDD CY
Fax (357) 2 445019

Executive officer Dr George CONSTANTINOU, Director

Governmental, national institution founded in 1952. Languages: Greek; English

Nature of activities Research; Policy and planning

Purpose and objectives Geological study of inland and coastal Cyprus; Evaluation and proper exploitation of all mineral resources

Areas of speciality/activities Biota; Marine geology and geophysics; Topography and morphology; Sedimentology; Coastal and nearshore processes; Paleontology; Ocean policy/law of the Sea; Development policy/planning; Resources management; Mineral resources; Determination of the seabed morphology, nature and distribution of sediments; Determination of the nature and structure of the oceanic crust and causes of seismicity in the seas around Cyprus; Coastal areas studies for the evaluation of man's impact on coastal processes

Environments Lakes

Geographic areas Gulf of Sirte

Co-operative research programmes/projects

- USSR Academy of Sciences: Geological, geophysical, seismological and hydrographic studies in the sea areas south of Cyprus

Staff Professional 18; Technical 35; Other 80

Information facilities

Publications Annual report; Monographs; Memoirs; Bulletins; Coloured maps

Library 20000 volumes/reprints; 4 periodicals **Co-operative programmes/projects** Various

Librarian Mrs Nitsa Rousou

Computers PCs (386, AT, XT); Printers **Applications** Database management; Graphics **Data exchange** 5.25"(HD)/3.5"(HD) PC diskettes

Physical facilities 2000 m²

Laboratories 200 m²; climate controlled **Laboratory equipment** Atomic absorption spectrophotometer for chemical analysis

Professional/Scientific staff

Name	Degree	Position	Specialization
Constantinou , George (Mr)	PhD	Director	
Eleftheriou , Serghis (Mr)	PhD	Geological Officer, Class A	Seismics; Seismology; Hydrography
Panayiotou , Andreas (Mr)	PhD	Senior Geological Officer	Mineral and energy resources
Xenophontos , Costas (Mr)	PhD	Geological Officer, Class A	Marine Geology

**Ministry of Health
Medical and Public Health Services
Environmental Health Section**

Ministry of Health
Nicosia
CYPRUS

Telephone (357) 2 302425
Fax (357) 2 303498

Executive officer Dr George MALLIOTIS, Director

Governmental, national institution founded in 1878. Languages: Greek; English

Nature of activities Public health services

CYPRUS

Purpose and objectives Safeguarding of public health and protection of the sea from pollution

Areas of speciality/activities Monitoring and/or assessment; Pollution; Environmental education; Recreation/tourism; Monitoring of the bacteriological quality of sea water along the coastal zone of Cyprus

Environments Coastal zone

Geographic areas Mediterranean Sea

Staff Professional 23; Technical 60

Information facilities

Publications Annual report

Library 1000 volumes/reprints; 75 periodicals **Co-operative programmes/projects** Various in Cyprus and abroad **Librarian** Mr Andreas Savva

Computers DEC VAX 4000/200; Various IBM PC compatibles **Applications** Statistical **Data exchange** Remote access; 5.25"/3.5" PC diskettes; dBase, Lotus 1-2-3, Quattro, Foxbase, WordPerfect 5.1, Volkswriter 3.4 files

Physical facilities

Research vessels/crafts Vessels are made available by the Department of Fisheries, Ministry of Agriculture and Natural Resources, whenever required

Conference/seminar facilities for 50 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Agrotou , Androulla (Ms)	MD MPH	Senior Medical Officer	Public health; Health education
Anthousis , Sophoclis (Mr)	BS	Chief Health Inspector	Environmental sanitation; Environmental health legislation; Public health administration
Charalambous , Andreas (Mr)	RSH	Senior Health Inspector	Environmental sanitation
Chrysostomou , Kyriacos (Mr)	RSH	Senior Health Inspector	Environmental sanitation
Demetriades , Melanthios (Mr)	RSH	Senior Health Inspector	Environmental sanitation
Demetrou , Stavroulla (Ms)	MD MPH	Senior Medical Officer	Public health; Health education; Epidemiology of communicable diseases
Dioghenous , Andreas (Mr)	MD	Chief Medical Officer	Public health administration; Environmental sanitation
Eliades , Panayiotis (Mr)	MD	Chief Medical Officer	Public health administration; Environmental sanitation

Name	Degree	Position	Specialization
Georgiou , Andreas (Mr)	MD/MSc	Medical Officer, Class I	Public health; Occupational health; Environmental health
Hadjianastasiou , Chrystalla (Ms)	MD/MSc	Medical Officer, Class I	Public health
Hadjisavvas , Costas (Mr)	RSH	Senior Health Inspector	Environmental sanitation
Ioannou , Pavlos (Mr)	RSH	Senior Health Inspector	Environmental sanitation
Komodiki , Charitini (Ms)	MD/DPHMA	Chief Health Officer	Public health; Health services administration
Kyriacou , Anastasia (Ms)	MPH	Health Inspector	Public health; Environmental sanitation
Lakatamitis , Spyros (Mr)	MD	Chief Medical Officer	Public health administration; Environmental sanitation
Malliotis , Costas (Mr)	MD	Chief Medical Officer	Public health administration; Environmental sanitation
Malliotis , George (Mr)	MD	Director	Public health; Administration; Environmental sanitation
Mallis , Costas (Mr)	MD	Chief Medical Officer	Public health administration; Environmental sanitation
Michaelides , Modestos (Mr)	RSH	Senior Health Inspector	Environmental sanitation
Papantoniou , Laura (Ms)	MD/MSc	Medical Officer, Class I	Public health; Epidemiology
Pavlides , Pavlos (Mr)	RSH	Health Inspector	Environmental sanitation
Polynekis , Andreas (Mr)	MD MPH	Senior Medical Officer	Public health; Health systems research
Theophanous , Phedias (Mr)	MD	Chief Medical Officer	Public health administration; Environmental health

State General Laboratory

Yenikon Chimion tou Kratous

44 Kimonos Street
Nicosia 138
CYPRUS

Telephone (357) 2 305124
(357) 2 305076
Fax (357) 2 316434

Executive officer Constandia AKKELIDOU, Director

Governmental, national institution founded in 1910. Languages: Greek; English

Nature of activities Research; Laboratory; Policy and planning; Information/public awareness

CYPRUS

Purpose and objectives The laboratory, one of the largest and best equipped in Cyprus, carries out research in applied analytical chemistry, provides scientific advice and participates in international programmes

Areas of speciality/activities Analytical methodology; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Waters; Marine microbiology; Toxicology; Monitoring and/or assessment; Pollution; Environmental impact assessment;

Environments Coastal zone; Littoral zone; Islands

Geographic areas Mediterranean Sea

Research programmes/projects

- Chemical and microbiological analysis of seawater (general analysis, pollutants)
- Chemical and microbiological analysis of fish

Co-operative research programmes/projects

- UNEP/MED POL programme
- Research programmes in co-operation with the Fisheries Department

Staff Professional 28; Technical 10; Other 9

Information facilities

Publications Annual report

Library 1350 volumes/reprints; 13 periodicals **Co-operative programmes/projects** FAO, WHO libraries **Librarian** Mrs Yiota Horaitou

Computers 8 PCs (Acer 915, AT/XT); Printers (1 Canon LBP 8 III laser, 5 OKI 393, 1 Star); 1 Plotter (Roland DXY1200) **Applications** Database management; Graphics; MIS; Statistical; Word processing **Data exchange** 5.25"(HD) PC diskettes; dBase, VolksWriter files

Physical facilities

Laboratories climate controlled **Laboratory equipment** GLC's fitted with various kinds of detectors, autosamplers and data processors; Shimatzu HPLC's UV (variable); Fluorescence and diode array detector-waters; Atomic absorption spectrometers (for flame and flameless techniques, HGA, Pye-Unicam, Perkin Elmer, Jarell-Ash); IR spectrometers (Pye-Unicam); UV-VIS scanning spectrophotometers (Perkin Elmer, Shimatzu)

Professional/Scientific staff

Name	Degree	Position	Specialization
Akkelidou, Constandia (Ms)	MSc	Director	Chemistry; Analytical chemistry
Aletrari, Maria (Ms)	BS	Analyst I	Chemistry
Anastassi, Agathi (Ms)	BS	Technician 2nd Class	Biochemical engineering; Computers

Name	Degree	Position	Specialization
Argyrides , Renos (Mr)	PhD	Senior Analyst	Chemistry; Specific analysis in foodstuffs
Christodoulidou , Maro (Ms)	BS	Analyst II	Chemistry; Analysis of foodstuffs; Contaminants
Constantinidou , Elena (Ms)	BS	Technician 2nd Class	Chemistry; Toxicology
Demetriou , Eleni (Ms)	BS	Technician 2nd Class	Chemistry; Drugs analysis
Eleftheriadou , Mary (Ms)	MSc	Technician 2nd Class	Food microbiology; Dairy microbiology
Empedokli , Olympiada (Ms)	BS	Technician 2nd Class	Chemistry
Hadjigeorgiou , Miltsa (Ms)	BS	Technician 2nd Class	Chemistry; Toxicology; Forensic science
Ioannou , Eleni (Ms)	MSc	Analyst I	Microbiology; Food, water, drug microbiology
Kakouri , Eleni (Ms)	PhD	Analyst I	Chemistry; Specific analysis in foodstuffs; Food additives; Contaminants
Kanari , Popi (Ms)	PhD	Senior Analyst	Chemistry; Toxicology; Forensic science
Kathidjiotis , Georghis (Mr)	MSc	Analyst I	Water analysis
Kavaliero , Anastasia (Ms)	MSc	Technician 2nd Class	Chemistry; Organic chemistry
Kokkinofta , Rebecca (Ms)	BS	Technician 2nd Class	Chemistry; Drugs analysis
Konari , Katharine (Ms)	BS	Analyst II	Forensic science; Toxicology
Kontoghiorghe , Katerina (Ms)	MSc	Technician 2nd Class	Chemistry; Construction material; Industrial material
Kyriakidou , Panayiota (Ms)	BS	Technician 2nd Class	Chemistry; Toxicology; Drug monitoring; Forensic science
Loizou , Evdokia (Ms)	MSc	Technician 2nd Class	Chemical engineering; Petrochemistry
Michael , Costas (Mr)	PhD	Senior Analyst	Chemistry; Instrument analysis; Environment; Food toxicology
Michaelidou-Canna , Stella (Ms)	PhD	Analyst I	Chemistry; Food toxicology; Environmental/water pollution
Papageorgiou , Georgios (Mr)	BS	Technician 2nd Class	Microbiology; Sewage parasitology; Food, water, drug microbiology
Partasidou , Dora (Ms)	MSc	Technician 2nd Class	Chemistry; Food technology; Drugs and food analysis
Pissarides , Nicholas (Mr)	MSc	Technician 2nd Class	Biochemical engineering
Poliniki , Irene (Ms)	MSc	Analyst II	Chemistry; Drugs analysis
Prokopiou , Eleni (Ms)	BS	Technician 2nd Class	Chemistry; Analysis of foodstuffs; Food additives; Contaminants
Vatiliotou , Evgenia (Ms)	BS	Technician 2nd Class	Chemistry
Yiannopoulos , Stelios (Mr)	PhD	Analyst II	Chemistry

CYPRUS

Name	Degree	Position	Specialization
Zanopoulos , Nicos Christou (Mr)	MPh	Analyst I	Chemistry; Petrochemicals; Building material; Industrial products
Ziegler , Pinelopi (Ms)	PhD	Analyst I	Chemistry; Pesticide residues and other toxic substances in food, water and environment

EGYPT

**Alexandria University
Faculty of Science
Department of Oceanography**

Moharram Bey
Alexandria
EGYPT

Telephone (20) 48 22918
(20) 48 22919
Telex 54467 UNIVY UN

Executive officer Dr Massoud A SAAD, Professor

Governmental, national institution founded in 1948. Languages: Arabic; English; French

Nature of activities Research; Academic/educational

Purpose and objectives Teaching and research. It is the only institution in Egypt which awards degrees in marine science in four disciplines, both at the undergraduate and graduate level

Areas of speciality/activities Physical oceanography; Water masses and circulation; Currents and dispersion; Waves, tides, surges and sea level; Modelling; Marine chemistry and geochemistry; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Suspended matter; Biota; Marine geology and geophysics; Sedimentology; Coastal and nearshore processes; Paleontology; Marine biology and ecology; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Eutrophication; Plankton blooms; Molluscs; Crustaceans; Marine physiology; Marine biochemistry; Marine microbiology; Taxonomy and systematics; Productivity; Community and population studies; Fisheries; Aquaculture; Marine environmental management; Monitoring and/or assessment; Pollution; Environmental impact assessment; Disaster preparedness and relief; Mineral resources; Marine archaeology; Studies of the chemistry, biology, productivity and oceanography of the Mediterranean coastal waters of Egypt, particularly of the Nile Delta area; Limnological studies of the Egyptian coastal lagoons and lakes; Geology of the Red Sea and the Mediterranean; Fishery biology in Egyptian waters; Pollution studies (monitoring and cycles), heavy metals and oil; Modelling and ecosystems

Environments Lakes; Brackishwater; Coastal zone; Pelagic environment; Benthic environment; Rivers; Littoral zone; Lagoons; Coral reefs and atolls; Estuaries

Geographic areas Mediterranean Sea; Algero-Provencal Basin; Balaearic Sea; Arab Gulf

Research programmes/projects

- National Monitoring Network-EEAA/Alexandria University/MED POL: Monitoring of pollutants in coastal waters off Alexandria
- Alexandria University funded programme: Biogeochemical cycle of selected trace metals in coastal waters
- Hypersaline deposits in the Mediterranean
- Study of Lake Qaram (limnology)
- Algal community in Alexandria Posidonia beds
- Facies model of Red Sea reef sediments
- Oil pollution in Alexandria

EGYPT

Co-operative research programmes/projects

- Study of the wastewater disposal of Alexandria (Mediterranean)
- Alexandria University/Bordeaux University: Environmental impact and future reuse of wastewater in reforestation and agriculture (in preparatory phase)

Training programmes

- Courses leading to BS, MSc and PhD in oceanography (physical, geological, chemical, biological)

Staff Professional 31; Technical 10; Other 7

Information facilities

Publications Contributions to the Bulletin of the Faculty of Science, Alexandria University (annual); Papers published in the world scientific literature

Library 800 textbooks; 32 periodicals **Co-operative programmes/projects** Various **Librarian**
Mr A Saleh

Computers Remote access to faculty mainframe computer; 15 PCs **Applications**
Accounting/financial planning; Desktop publishing; Education; Graphics; Library/documentation;
Modelling; Scientific; Statistical; Word processing

Physical facilities

Laboratories climate controlled **Laboratory equipment** 2 sets of diving gear; Bottles (air tanks);
Masks; Fins

Research vessels/crafts 2 Zodiac boats with outboard engines; 1 maintenance craft

Facilities for 3 visiting scientists; 40 students **Conference/seminar facilities** for 40 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Abdallah , Abdallah (Mr)	PhD	Lecturer	Physical oceanography; Dynamics; Modelling
Abdelaziz , El Sayeda (Ms)	PhD	Assistant Professor	Ichthyology; Physiology
Abdul Moti , Alaa (Mr)	PhD	Lecturer	Chemical oceanography; Heavy metal pollution
Aboul Dahab , Ossama (Mr)	PhD	Lecturer	Chemical oceanography; Heavy metal pollution
Abu El Kassem , Tarek (Mr)	MSc	Assistant Lecturer	Chemical oceanography; Nutrients
Aleem , Anwar (Mr)	DSc	Professor Emeritus	Biological oceanography; Ecology
Ali , Baher (Ms)	PhD	Lecturer	Geological oceanography; Geochemistry

Name	Degree	Position	Specialization
Atta , Monal (Ms)	PhD	Lecturer	Biological oceanography; Bottom fauna
Awad , Hassan (Mr)	PhD	Professor	Chemical oceanography; Oil pollution
Dorgham , Mohamed (Mr)	PhD	Assistant Professor	Biological oceanography; Plankton
Dowidar , Naim (Mr)	PhD	Professor	Biological oceanography; Ecology
Eid , Fahmy (Mr)	PhD	Lecturer	Physical oceanography; Sea level
El Gindy , Ahmed (Mr)	PhD	Assistant Professor	Physical oceanography; Dynamics
El Moghraby , Ali (Mr)	PhD	Professor Emeritus	Biological oceanography; Zooplankton
El Nadi , Fatma (Ms)	PhD	Lecturer	Chemical oceanography; Nutrients
El Rashidi , Hoda (Ms)	MSc	Assistant Lecturer	Biological oceanography; Ichthyoplankton
El Rayis , Osman (Mr)	PhD	Assistant Professor	Chemical oceanography; Heavy metals pollution
El Sabrout , Mohamed (Mr)	PhD	Assistant Professor	Geological oceanography; Sedimentology
El-Sammak , Amr (Mr)	MSc	Assistant Lecturer	Geological oceanography; Reef sedimentology
El-Sayed , Abdel Fattah (Mr)	PhD	Lecturer	Fisheries; Aquaculture
El-Sayed , Mahmoud (Mr)	PhD	Professor	Geological oceanography; Sedimentology; Pollution
Ezzat , Altaf (Ms)	PhD	Professor	Fisheries; Physiology
Halim , Youssef (Mr)	PhD	Professor Emeritus	Biological oceanography; Ecology; Pollution
Hamza , Wahid (Mr)	MSc	Assistant Lecturer	Biological oceanography; Plankton
Hemeida , Engi (Ms)	MSc	Assistant Lecturer	Limnology; Chemistry of brackish waters
Hosny , Chehat (Mr)	PhD	Lecturer	Fisheries; Stock assessment
Khalil , Abdel Ghani (Mr)	PhD	Professor	Biological oceanography; Algae pollution
Mustafa , Hesham (Mr)	MSc	Assistant Lecturer	Biological oceanography; Posidonia
Nour El Din , Nehad (Ms)	MSc	Assistant Lecturer	Biological oceanography
Saad , Massoud (Mr)	PhD	Professor/Executive Officer	Chemical oceanography; Chemistry of coastal and brackish waters; Pollution
Sharaf El Din , Sayed (Mr)	PhD	Professor	Physical oceanography; Dynamics; Sea level

EGYPT

Alexandria University Institute of Graduate Studies and Research (UNARC)

163 Horreya Road
P.O. Box 832
Alexandria
EGYPT

Telephone (20) 3 4225007
Telex 54467 UNIVY UN

Executive officer Dr Mohamed E EL-RAEY, Professor/Vice Dean

Governmental, national institution founded in 1983. Languages: English; Arabic

Nature of activities Research; Technical training; Laboratory; Academic/educational; Information/public awareness

Purpose and objectives Postgraduate multidisciplinary education, research and consultation

Areas of speciality/activities Physical oceanography; Water masses and circulation; Waves, tides, surges and sea level; Modelling; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Radioactivity; Sediments; Waters; Suspended matter; Sedimentology; Coastal and nearshore processes; Phytoplankton; Algae; Eutrophication; Monitoring and/or assessment; Coastal zone management; Pollution; Environmental impact assessment; Environmental education; Remote sensing; Data acquisition and telemetry; Disaster preparedness and relief; Resources management; Mineral resources; Energy resources; Physical planning; Remote sensing of coastal processes; Monitoring of water pollution, air pollution and socioeconomic parameters; Development of an environmental information network in Alexandria

Environments Lakes; Coastal zone; Littoral zone; Lagoons; Coral reefs and atolls; Islands

Geographic areas Mediterranean Sea; Alboran Sea; Algero-Provencal Basin; Ionian Sea; Levantine Sea; Strait of Gibraltar; Tyrrhenian Sea

Research programmes/projects

- Monitoring of pollution along the shores of Alexandria by remote sensing
- Monitoring of heavy metal pollution in the bottom sediments of the coastal waters of Alexandria
- Interstitial water in marine sediments
- Speciation of heavy metals in marine sediments
- Erosion and accretion processes along the Nile Delta

Co-operative research programmes/projects

- University of Maryland, USA: Impact of global climatic changes on the Alexandria coast
- Moscow University, USSR: Interstitial water pollution of marine sediments in the Mediterranean, Red Sea, Black Sea and the Atlantic Ocean

Training programmes

- Post-graduate courses in remote sensing, environmental monitoring and environmental awareness

Staff Professional 15; Technical 12; Other 6

Information facilities

Publications Proceedings of the biannual environmental symposia

Library 50 periodicals **Co-operative programmes/projects** Various **Librarian** Mrs Faiza Foad

Computers PCs (IBM) **Applications** Education; Engineering; Geographic Information Systems (GIS); Graphics; LAN; Mathematical; Mapping; Modelling; Scientific; Statistical; Word processing

Data exchange PC media

Physical facilities 10000 m²

Laboratories 1000 m²; climate controlled **Laboratory equipment** Remote sensing unit/Microcomputers; Air pollution laboratory and meteorological station; Alpha-gamma ray spectrometer

Facilities for 5 visiting scientists; 150 students **Conference/seminar facilities** for 300 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Amin , Mervat (Ms)	MSc	Assistant Lecturer	Air pollution; Monitoring and analysis
Balba , Mahmoud (Mr)	MSc	Senior Specialist	Air pollution; Instrumentation
EI-Demerdash , Fatma (Ms)	MSc	Assistant Lecturer	Chemistry; Air pollution; Water pollution
EI-Gamal , Ayman (Mr)	MSc	Specialist	Radiation in the marine environment; Gamma ray spectroscopy
EI-Hattab , Mamdouh (Mr)	BS	Specialist	Coastal geology; Remote sensing and erosion/GIS
EI-Kaffas , Saleh (Mr)	MSc	Assistant Lecturer	Remote sensing; Image processing
EI-Raej , Mohamed (Mr)	PhD	Professor/Vice Dean	Environmental physics; Remote sensing/GIS; Remote sensing of marine pollution; Environmental information
Farag , Magdy (Mr)	PhD	Assistant Lecturer	Remote sensing; Marine environment
Ghattas , Zikry (Mr)	BS	Instructor	Environmental physics; Gamma ray spectrometry
Gurguis , Shawkat (Mr)	PhD	Lecturer	Computer science; Modelling
Khairy , Ahmed (Mr)	PhD	Associate Professor	Analytical chemistry
Nasr , Samir (Mr)	PhD	Associate Professor	Marine geology; Sedimentology; Geochemistry of interstitial water pollution of marine sediments

EGYPT

Name	Degree	Position	Specialization
Shalaby, El-Said (Mr)	PhD	Assistant Lecturer	Monitoring; Heavy metals in air and water
Zahran, Ashraf (Mr)	Doctorate	Specialist	Air pollution; Instrumentation
Zaki, Hesham (Mr)	PhD	Lecturer	Pesticide chemistry; Environmental monitoring

Coastal Research Institute (CRI)

15 Faraana Street
El-Shallat
Alexandria 21514
EGYPT

Telephone (20) 3 4829582 (20) 3 4821208
Telex 54467 UNIVY UN
Fax (20) 3 4829582

Executive officer Dr Ahmed Abdel Wahab KHAFAGY, Professor/Director

Governmental, national institution founded in 1971. Languages: Arabic; English

Nature of activities Research; Technical training; Laboratory; Academic/educational

Purpose and objectives Protection of the coastal area; Monitoring of the shoreline evolution

Areas of speciality/activities Physical oceanography; Currents and dispersion; Waves, tides, surges and sea level; Modelling; Marine chemistry and geochemistry; Analytical methodology; Sediments; Waters; Suspended matter; Marine geology and geophysics; Topography and morphology; Sedimentology; Coastal and nearshore processes; Paleontology; Marine meteorology and climatology; Marine environmental management; Monitoring and/or assessment; Coastal zone management; Environmental impact assessment; Shoreline changes; Coastal erosion studies; Hydrodynamic factors affecting the Nile Delta coast; Sediment drift; Grain size distribution; Heavy mineral studies; Beach profiles; Beach nourishment

Environments Lakes; Brackishwater; Coastal zone; Pelagic environment; Rivers; Littoral zone; Lagoons; Estuaries

Geographic areas Mediterranean Sea

Research programmes/projects

- Shoreline evolution along the Nile Delta coast
- Sea level changes and their impact
- Littoral current measurements
- Sediment transport using fluorescent sand tracers
- Volumetric changes of accretion and erosion areas of nearshore zone
- Wave measurements

Co-operative research programmes/projects

- Egyptian General Authority for Shore Protection: Shoreline changes at Rosetta
- Egyptian General Authority for Fishing: Design of protection works for Bardaweil Lake outlets
- Delft Hydraulics Inc.: Impacts of sea level rise on the Nile Delta coast

Staff Professional 29; Technical 38; Other 33

Information facilities

Publications Annual report; Technical reports and papers

Library 3000 volumes/reprints; 5 periodicals **Co-operative programmes/projects** Water Research Centre library, Cairo **Librarian** Mrs Soad Fathy El-Shenawi

Computers 1 DEC Microvax II; PCs (1 NCR 386, 1 AT, 2 XTs); 2 IBM PS/2s (Model 80 and Model 55); 1 Zenith portable; Printers (1 HP Laserjet, 1 Epson FX86E, 2 Star LC24-10, 1 Star XB 24-15)

Applications Communications; Database management; Engineering; Graphics; Mathematical; Modelling; Network access; Project management; Scientific; Statistical; Word processing

Physical facilities 2000 m²

Laboratories 500 m²; climate controlled **Laboratory equipment** Sediment laboratory; Physical oceanography laboratory; Directional wave recorders; Sea level gauges; Current meters; Salinity measurements; Shakers and sieving analysis; Clay analysis; Spectrophotometer; Vibro-corers; Hand-corers; Marine survey equipment (mini ranger, positioning system, echo-sounding); Calcimeters; Heavy mineral and shape analysis of grains

Research vessels/crafts 1 Vessel and 10 rubber boats

Facilities for 10 visiting scientists; 10 students **Lodging** for 10

Professional/Scientific staff

Name	Degree	Position	Specialization
Abdel Kader , Ahmed Ismail (Mr)	MSc	Assistant Director of Works	Civil engineering; Beach profiles
Abdel-Khader , Ahmed Hassan (Mr)	BS	Specialist III	Physical oceanography; Marine positioning system
Abdel-Khalek , Mohamed Nagib (Mr)	MSc	Specialist II	Geology; Subsurface geology
Abdel-Motaleb , Fathy Sayed (Mr)	BS	Assistant Researcher	Civil engineering; Soil mechanics
Abdel-Rahman , Farid Mohamed (Mr)	MSc	Specialist II	Physical oceanography; Littoral currents
Abu El-Magd , Hamid Attia (Mr)	MSc	Specialist II	Geology; Coastal geology
Abu Zeid , Abu Bakr El-Seidik (Mr)	MSc	Assistant Researcher	Physical oceanography; Currents and waves
Aly , Medhat Abdel-Mohsen (Mr)	BS	Engineer III	Civil engineering; Beach profiles

EGYPT

Name	Degree	Position	Specialization
Awad , Ahmed Ezat (Mr)	BS	Specialist II	Geology; Grain size and heavy minerals
Badr , Abdel-Moneim (Mr)	PhD	Specialist II	Marine geology; Coastal geology
Bahnasy , Kamal El-Sayed (Mr)	BS	Specialist II	Physics; Mathematics; Data processing
Darahem , Ghada Ibrahim (Ms)	MSc	Assistant Researcher	Computer science; Data processing
El-Bana , Mahmoud Mahmoud (Mr)	MSc	Specialist II	Geology; Costal geology
El-Fishawi , Nabil Mohamed (Mr)	PhD	Assistant Professor	Marine geology; Sediment drift
Fanos , Alfy Morcos (Mr)	PhD	Professor/Head, Hydrodynamics	Civil engineering; Ocean dynamics; Coastal engineering
Frihy , Omran El-Sayed (Mr)	PhD	Assistant Professor	Marine geology; Sedimentology
Gewelli , Youssef Mohamed (Mr)	BS	Assistant Researcher	Civil engineering; Hydrodynamics
Helmy , Essam El-Din (Mr)	BS	Assistant Researcher	Civil engineering; Hydrodynamics
Kadib , Abdalla Mohamed (Mr)	BS	Engineer III	Civil Engineering; Hydrodynamics
Khafagy , Ahmed Abdel-Wahab (Mr)	PhD	Professor/Director	Civil engineering; Design of coastal protection; Modelling
Lotfy , Morad Fahmy (Mr)	PhD	Senior Researcher	Geology; Coastal geology
Mahar , Khaled Mohamed (Mr)	MSc	Assistant Researcher	Computer science; Data processing
Mohamed , Saad El-Din Ahmed (Mr)	BS	Director of Works	Civil engineering; Beach profiles
Morsy , Amal Mahmoud (Ms)	MSc	Researcher	Civil engineering; Water resources
Nafaa , Mary Georgy (Ms)	PhD	Senior Researcher	Civil engineering; Hydrodynamics
Seyd-Ahmed , Shehata Mohamed (Mr)	BS	Specialist II	Physical oceanography; Littoral currents
Shereet , Samy Mohamed (Mr)	MSc	Specialist III	Physical oceanography; Hydrodynamics
Werasa , Abdel-Aziz Mohamed (Mr)	BS	Specialist II	Physical oceanography; Beach profiles

National Institute of Oceanography and Fisheries (NIOF)

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Kayed Bey
Alexandria

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Executive officer Dr Hussein K BADAWI, Professor/President

Governmental, national institution founded in 1920. Languages: Arabic; English

Nature of activities Research; Technical training; Laboratory

Purpose and objectives Research and studies in oceanography, fisheries, marine sciences and freshwater and man-made lakes

Areas of speciality/activities Physical oceanography; Instruments and methods; Water masses and circulation; Currents and dispersion; Air-sea interaction; Waves, tides, surges and sea level; Modelling; Marine chemistry and geochemistry; Analytical methodology; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Radioactivity; Sediments; Waters; Suspended matter; Biota; Marine geology and geophysics; Topography and morphology; Sedimentology; Coastal and nearshore processes; Paleontology; Seismology; Marine biology and ecology; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Eutrophication; Plankton blooms; Molluscs; Crustaceans; Marine mammals; Marine birds; Marine physiology; Marine biochemistry; Marine microbiology; Parasitology; Pathology of marine species; Toxicology; Taxonomy and systematics; Productivity; Community and population studies; Fisheries; Aquaculture; Monitoring and/or assessment; Coastal zone management; Pollution; Nature conservation and/or restoration; Environmental impact assessment; Environmental economics; Environmental education; Artificial reefs; Marine support services; Marine technology; Remote sensing; Data acquisition and telemetry; Ocean policy/law of the Sea; Development policy/planning; Recreation/tourism; Disaster preparedness and relief; Resources management; Mineral resources; Marine archaeology; Sensitive/protected areas mapping of the Egyptian coast; Management and development of the different bodies of water and their natural resources; Drafting of measures for the protection of the aquatic environment; Co-ordinating and supervising research programmes to ensure better management of the country's natural resources

Environments Lakes; Brackishwater; Coastal zone; Mangrove swamps; Pelagic environment; Benthic environment; Rivers; Littoral zone; Lagoons; Coral reefs and atolls; Islands; Estuaries

Geographic areas Mediterranean Sea; Levantine Sea; Red Sea; Suez Canal

EGYPT

Research programmes/projects

- Artificial breeding, fish stock assessment in lakes
- Fish nutrition, survey of ponds and other bodies of water suitable for fish farming
- Fisheries development in Bardaweil Lake
- Farming of coastal lagoons in the Red Sea
- Development of jelly-fish-control gear in Lake Manzala
- Monitoring of pollutants in the Mediterranean

Co-operative research programmes/projects

- USA/Israel/Egypt Co-operative Marine Technology Programme: Lake management; Wastewater re-use; Seafood toxins; Artificial breeding of grey mullet -IDRC: Cage culture
- Water circulation in the Levantine Sea

Training programmes

- Marine ecology of the Red Sea
- Computer languages
- Analytical chemistry instrumentation
- Statistics and data analysis
- Aquaculture

Staff Professional 512; Technical 125; Other 400

Information facilities

Publications Bulletin; Annual report; Monographs; Technical reports

Library 10000 volumes/reprints; 150 periodicals **Co-operative programmes/projects** Various

Computers Various **Applications** Accounting/financial planning; Database management; Education; Graphics; Library/documentation; Mathematical; Mapping; Modelling; Project management; Scientific; Statistical; Word processing

Physical facilities 4000 m²

Laboratories 3000 m² **Laboratory equipment** AAS; XRD; HPLC; GC; Current metres; Water-level recorders; Weather station; Fluorometers; Spectrophotometers; Mercury analyser; Liquid scintillator; Polarograph; Electrophoresis

Facilities for visiting scientists **Conference/seminar facilities** available **Lodging** available

Professional/Scientific staff

Name	Degree	Position	Specialization
Abbas, Mohamed M (Mr)	PhD		
Abd-EI Hamid, Omayma H (Ms)	PhD		Marine chemistry
Abd-EI Razek, Fatma (Ms)	PhD	Assistant Professor	Marine biology; Invertebrates
Abdallah, Aly M (Mr)	PhD		

Name	Degree	Position	Specialization
Abdel-Malek , Samir (Mr)	PhD	Professor	Marine biology; Fish nutrition
Abdel-Moneim , Mahmoud A (Mr)	PhD		Marine pollution
Abdelkawy , Samira M (Ms)	MSc		
Abdelmohsen , Hala A (Ms)	BS	Research Assistant	Pollution; Effects of lake pollution on fish
Abdelsalam , Khaled M (Mr)	BS	Research Assistant	Limnology; Freshwater invertebrates; Ecology
Abed-El-Salam , Cherief M (Mr)	BS		Marine pollution
Abed-El-Wahab , Ola E (Ms)	BS		Marine pollution
Abo-El-Naga , Wafika M (Ms)	PhD		Marine chemistry
Abu-Shagar , El-Sayed M (Ms)	MSc		Marine geology
Ahmed , Adel A (Mr)	BS	Research Assistant	Limnology; Freshwater invertebrates; Ecology
Ahmed , Doaa H (Ms)	BS		Marine pollution
Ahmed , Nehad K (Ms)	BS	Research Assistant	Limnology; Freshwater invertebrates; Ecology
Aly , Ahmed M (Mr)	BS		Physical oceanography
Aly , Manal M (Ms)	BS		Marine pollution
Asem , Hanae (Mr)	PhD	Assistant Professor	Marine biology; Ichthyology
Awad , Morad B (Mr)	PhD		Geophysics
Awad , Talat (Mr)	PhD	Assistant Professor	Limnology; Freshwater chemistry
Badawi , Hussein K (Mr)	PhD	Professor/President	Marine biology; Fish physiology
Basyony , Mohamed (Mr)	PhD	Researcher	Limnology; Freshwater chemistry; Biochemistry
Botros , Aida R (Ms)	PhD		Marine chemistry; Antifouling
Deghedy , Esam M (Mr)	PhD		Sedimentology; Geochemistry
Draze , Souzan E (Ms)	MSc		Marine geology
Ebeid , Maha H (Ms)	BS		Marine chemistry
Ebrahem , Ahmed M (Mr)	PhD		
Eisawy , Ahmed (Mr)	PhD	Professor	Marine biology; Fish farming
El-Batikhy , Nabil N (Mr)	MSc	Assistant Lecturer	Physical oceanography
El-Beltagy , Ali I (Mr)	PhD	Professor	Marine geochemistry; Chemistry; Geochemistry; Pollution
El-Chenawy , Mohamed A (Mr)	PhD		Marine pollution
El-Deek , Mohamed S (Mr)	PhD		Marine chemistry
El-Mamoney , Mohamed H (Mr)	MSc	Assistant Lecturer	Marine geology
El-Maradny , Amr A (Mr)	MSc		Marine chemistry; Trace metals

EGYPT

Name	Degree	Position	Specialization
El-Naggar , Manal M (Ms)	BS		Marine pollution
El-Naggar , Mona F (Ms)	BS		Marine chemistry
El-Said , Mohamed A (Mr)	PhD		Marine chemistry; Trace metals
El-Sarnagay , Dief (Mr)	PhD	Assistant Professor	Veterinary; Fish disease and pathology
El-Says , Abdo (Mr)	PhD	Assistant Professor	Geology; Marine geology
El-Sersy , Nermen A (Ms)	BS		Marine pollution
El-Sharkawy , Salama M (Mr)	MSc		Physical oceanography
El-Sherif , Ramdan (Mr)	PhD	Professor	Economics; Fish stock assessment
El-Skely , Amany M (Ms)	MSc		Marine pollution
El-Tabakh , Tahany E (Ms)	MSc		Marine pollution
Elbassat , Randa A (Ms)	BS	Research Assistant	Limnology; Freshwater invertebrates; Ecology
Elewa , Abdelsame (Mr)	PhD	Assistant Professor/Head, Freshwater Chemistry Laboratory	Freshwater chemistry
ElSarraf , Wagdy M (Mr)	PhD		Marine pollution; Amino acids; Microbial activity
Elshabrawy , Gamal (Mr)	BS	Research Assistant	Limnology; Freshwater invertebrates; Ecology
Emara , Hosni I (Mr)	PhD	Assistant Professor	Marine chemistry; Hydrocarbons
Ezat , Hanan M (Ms)	BS		Marine pollution
Fahmy , Mamdoh A (Mr)	PhD		Marine chemistry
Faragalla , Hayat M (Ms)	MSc		Marine chemistry
Gendy , Hoda R (Ms)	MSc		Marine pollution
Gerges , Makram A (Mr)	PhD	UNESCO Expert	Physical oceanography
Gerges , Shokry K (Mr)	PhD	Assistant Professor/Head, Laboratory of Aquatic Animals	Freshwater zooplankton
Ghareeb , Sameha (Ms)	MSc	Assistant Lecturer	Limnology; Phytoplankton
Hafez , Hoda H (Ms)	MSc		Marine pollution
Hamdona , Samia Kh (Ms)	PhD		Marine chemistry
Hanafy , Thana M (Ms)	PhD		Marine chemistry
Hanna , Mona K (Ms)	BS		Marine geology
Hassan , Hassan M (Mr)	PhD		Physical oceanography
Hassan , Khamis (Mr)	PhD	Professor	Marine biology; Marine fisheries
Hehyawy , Mohamed L (Mr)	PhD		Marine chemistry
Hemada , Hoda E (Ms)	PhD		Marine chemistry
Ibrahem , Ezzat A (Mr)	PhD	Professor/Director, Inland Water & Fish Farm Institute	Phytoplankton

Name	Degree	Position	Specialization
Ibrahem , Soad S (Ms)	BS	Research Assistant	Limnology; Freshwater invertebrates; Ecology
Kamel , Mohamed S (Mr)	MSc		Physical oceanography
Kenawy , Samira M (Ms)	PhD		Marine chemistry; Biochemistry
Khaled , Azza M (Ms)	MSc		Marine pollution
Khedr , Amany M (Ms)	PhD		Marine chemistry
Kottb , Sonia M (Ms)	MSc		Marine chemistry
Mahmoud , Manal G (Ms)	BS		Marine chemistry
Maiyza , Ibrahim A (Mr)	PhD		Physical oceanography
Misiba , Refat (Mr)	PhD	Assistant Professor	Chemistry; Marine chemistry
Mohamed , Hassan (Mr)	PhD	Assistant Professor	Geology; Physical oceanography
Mohamed , Reda (Mr)	BS	Research Assistant	Limnology; Freshwater invertebrates; Ecology
Mohammed , Ebtessam E (Ms)	PhD		Physical oceanography
Moursy , Zeinb A (Ms)	PhD		Physical oceanography
Mousa , Atef A (Mr)	PhD		Sedimentology; Geochemistry
Mousa , Khaled A (Mr)	BS		Marine geology
Nawar , Ahmed H (Mr)	PhD		Sedimentology; Mineralogy
Nessim , Ramzy B (Mr)	PhD		Marine chemistry
Okba , Mohamed A (Mr)	MSc		Marine chemistry
Ramadan , Sherif E (Mr)	PhD	Researcher	Marine biology; Marine ecology; Coastal ecology; Limnology; Invertebrates
Rifaat , Ahmed E (Mr)	PhD	Lecturer	Marine geology; Geochemistry of marine sediments
Rodwan , Ahmed (Mr)	BS		Physical oceanography
Rofail , Feby (Ms)	BS		Marine chemistry
Saed , Mahmoud M (Mr)	PhD		Marine pollution
Said , Mohamed A (Mr)	PhD		Physical oceanography
Saleh , Hamed H (Mr)	PhD	Professor/Head, Freshwater & Lakes Branch	Pollution
Saman , Amin (Mr)	PhD	Professor	Marine biology; Fish physiology
Shaath , Fatma S (Mr)	BS		Marine geology
Shabban , Yasser A (Mr)	BS		
Shaker , Hanan H (Ms)	BS		Marine chemistry
Shakwir , Laila (Ms)	MSc		Marine chemistry
Shata , Mohamed A (Mr)	PhD		Marine geology
Sheradah , Mohamed A (Mr)	PhD		Marine chemistry
Shhyon , Aly H (Ms)	PhD		Physical oceanography

EGYPT

Name	Degree	Position	Specialization
Soad , El-Ghohary E (Mr)	MSc		Marine chemistry
Soliman , Gerges F (Mr)	PhD		Physical oceanography
Tayel , Fathy T (Mr)	PhD		Marine pollution
Zaki , Hermin R (Ms)	BS		Marine chemistry
Zaki , Magda (Ms)	PhD	Professor	Marine biology; Marine fisheries
Zazou , Sameha M (Ms)	PhD		Paleontology

FRANCE

Centre d'Etude et de Recherche d'Océanographie Médicale (CERBOM)

1 Avenue Jean Lorrain
Nice 06300
FRANCE

Téléphone (33) 93 897249
(33) 93 893292
Télifax (33) 93 266227

Directeur Professeur Maurice AUBERT, Directeur

Organisme gouvernemental, local créé en 1960. Langues de travail: Français

Nature des activités Recherche; Laboratoire; Enseignement (universitaire)

Objectifs/mandat Etude des pollutions, de leur impact sur la vie marine et de leurs conséquences sanitaires; Utilisation des produits d'origine marine; Etudes des mécanismes de productivité planctonique et des processus d'eutrophisation; Recherche appliquée en matière de rejet en mer des eaux usées, de surveillance de l'aquaculture, de restructuration et d'aménagement du littoral

Domaines ou disciplines scientifiques/activités Masses d'eau et circulation; Courants et dispersion; Modélisation; Substances nutritives; Métaux lourds; Composés organiques (hydrocarbures halogènes, hydrocarbures pétroliers, etc.); Eaux; Matière en suspension; Biomasse; Biologie marine et écologie; Phytoplancton; Eutrophisation; Floraizon du plancton; Biochimie marine; Microbiologie marine; Toxicologie; Aquaculture; Surveillance continue et/ou évaluation; Gestion des zones côtières; Pollution; Conservation et/ou régénération des ressources naturelles; Evaluation de l'impact sur l'environnement; Economies de l'environnement; Education relative à l'environnement; Politique pour les océans/Droit de la Mer; Recherches en microbiologie marine, en toxicologie, en chimie des eaux et sédiments; Surveillance de la qualité des eaux; Recherche sur l'utilisation médicale de substances d'origine planctonique et sédimentaire; Surveillance de la qualité chimique et microbiologique des eaux méditerranéennes; Surveillance des eaux et produits utilisés en thalassothérapie; Etablissement de tests de toxicité de produits chimiques rejetés en milieu marin; Enquête sur les conséquences sanitaires des proliférations de Dinoflagellés; Etude des conséquences écologiques des fermes aquacoles

Environnements Eaux saumâtres; Zones côtières; Environnement benthique; Zones littorales; Iles; Estuaires

Zones géographiques Mer Méditerranée; Mer Adriatique; Mer Egée; Mer d'Alboran; Dardanelles; Golfe du Lion; Mer Ionienne; Mer de Ligurie; Détrôit de Sicile; Détrôit de Gibraltar; Détrôit d'Otrante; Mer Tyrrhénienne; Océan Atlantique; Bosphore; Mer de Marmara; Mer Noire

Programmes/projets de recherche

- Surveillance de la qualité chimique et microbiologique des eaux méditerranéennes
- Etude des causes et conséquences sanitaires de l'eutrophisation
- Surveillance des eaux et produits utilisés en Thalassothérapie
- Analyse des résultats acquis au cours des campagnes océanographiques
- Etudes des mécanismes de l'eutrophisation marine
- Etude des apports de la mer Noire à la mer Méditerranée

FRANCE

Programmes de recherche menés en coopération

- Ministère de l'Environnement, France: Etude de la qualité des eaux méditerranéennes
- RAMOGE: Etude de la qualité des eaux côtières de la zone Ligure Provençale
- Université de Messine pour MED POL: Etude des transferts de polluants à travers le détroit de Messine
- Institut National de Consommation: Etude de la toxicité des détergents

Programmes de formation/enseignement

- DESCA, Université de Nice: Environnement marin et économie maritime
- DUR, Université de Nice: Environnement marin et économie maritime
- COI-UNESCO: Ecologie marine et économie maritime

Personnel Scientifique 14; Technique 6; Autre 4

Moyens d'information

Publications Revue Internationale d'Océanographie Médicale (trimestrielle); Rapports de campagne océanographique; Rapports d'études techniques maritimes; Traité d'Océanographie Médicale; Métaux lourds dans les mers d'Europe; Protection juridique du milieu marin

Bibliothèque 500 volumes/tirés à part; 60 périodiques

Ordinateurs Micro-ordinateur Apple Macintosh Plus **Applications** Comptabilité, planification financière; Gestion de bases de données; Graphiques; Statistiques; Traitement de texte

Installations 1100 m²

Laboratoires 900 m² **Equipements de laboratoire** pH mètre; Salinomètre; Oxymètre; Spectrophotomètre; UV visible; Spectrophotomètre atomique; Appareils de filtration; Etuves bactériologiques; Salle de culture de plancton; Fluorimètres; Microscopes **Aquariums** 5x40 m³ **Espèces entretenues** Dicentrarchus labrax; Mytilus galloprovincialis; Nereis diversicolor; Carcinus maenas; Phytoplancton (15 souches)

Bateaux/embarcations de recherche Bateau "Noeric III" (45 tx) équipé de sondeurs, de treuils hydrauliques, de matériel de positionnement (radar, Loran, Satnav, GPS), un laboratoire à bord et canots annexes à moteur

Possibilités d'accueil pour 3 scientifiques extérieurs; 3 étudiants **Installations pour conférences/séminaires** pour 25 participants

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Aubert , Jacqueline (Mme)	Doctorat	Directeur de Recherche INSERM	Microbiologie marine; Bactériologie
Aubert , Maurice (M)	Doctorat	Professeur/Directeur	
Bernigaud , Jean (M)	Doctorat	Chef du Département Juridique	Droit et économie maritime et littorale; Etudes juridiques et économiques

FRANCE

Nom	Diplôme	Fonction	Spécialité
Billard, Pierre (M)	Doctorat		Pharmacologie des produits marins; Thalassothérapie
Drai, Philippe (M)	Doctorat	Chef de Laboratoire (Attaché)	Sciences naturelles; Aquaculture; Physiologie des êtres marins
Dubreuil, Alain (M)	Doctorat	Chargé de Recherches INSERM	Cultures cellulaires
Elatau, Gilles Nicolas (M)	Doctorat	Chargé de Recherches INSERM	Chimie
Gauthier, Michel Joseph (M)	Doctorat	Directeur de Recherches INSERM	Microbiologie
Girard, Jean-Pierre (M)	Doctorat	Professeur de l'Université de Nice	Physiologie animale; Physiologie des êtres marins
Guillemaut-Drai, Caroline (Mme)	Doctorat	Chef de Laboratoire	Sciences naturelles; Microbiologie marine; Ecologie
Lahlou, Brahim (M)	Doctorat	Professeur de l'Université de Nice/Directeur d'Unité CNRS	Physiologie cellulaire; Physiologie des êtres marins
Madhyoun, Ferhydoun (M)	Doctorat	Maître de Conférence	Biologie végétale
Pietri-Jehl, Chantal (Mme)	Doctorat	Chargé de Recherches INSERM	Virologie
Revillon, Pierre (M)	Ingénieur	Chef de Laboratoire	Etudes de la dynamique des eaux; Océanographie physique

**Centre d'Océanologie de Marseille
Observatoire des Sciences de l'Université d'Aix Marseille II
Unité Associée au CNRS 41 (COM)**

Station Marine d'Endoume
Rue de la Batterie des Lions
Marseille 13007
FRANCE

Téléphone (33) 91 041600
Télifax (33) 91 041635

Directeur Professeur François BLANC, Directeur du COM et de l'OSU

Organisme gouvernemental, national créé en 1889. Langues de travail: Français

Nature des activités Recherche; Enseignement (universitaire)

Objectifs/mandat Enseignement et recherche en matière d'océanologie

FRANCE

Domaines ou disciplines scientifiques/activités Océanographie physique; Masses d'eau et circulation; Courants et dispersion; Interaction air/mer; Modélisation; Chimie marine et géochimie; Méthodologie analytique; Substances nutritives; Métaux lourds; Composés organiques (hydrocarbures halogénés, hydrocarbures pétroliers, etc.); Radioactivité; Dépôts; Eaux; Matière en suspension; Biomasse; Géologie marine et géophysique; Topographie et morphologie; Sédimentologie; Formation des côtes et franges côtières; Paléontologie; Biologie marine et écologie; Phytoplancton; Zooplankton; Benthos; Poissons; Algues; Eutrophisation; Floraizon du plancton; Mollusques; Crustacés; Physiologie marine; Biochimie marine; Microbiologie marine; Toxicologie; Taxinomie et systématiques; Productivité; Etudes des communautés et populations; Pêches; Aquaculture; Gestion de l'environnement marin; Surveillance continue et/ou évaluation; Gestion des zones côtières; Pollution; Evaluation de l'impact sur l'environnement; Education relative à l'environnement; Récifs artificiels; Télédétection; Gestion des ressources;

Environnements Eaux saumâtres; Zones côtières; Mangroves; Environnement pélagique; Environnement benthique; Zones littorales; Lagunes; Récifs coralliens/atolls; Estuaires

Zones géographiques Mer Méditerranée; Mer d'Alboran; Bassin algéro-provençal; Mer des Baléares; Golfe du Lion; Détrict de Sicile; Détrict de Gibraltar; Océan Atlantique; Mer Rouge; Antarctique; Océan Indien; Océan Pacifique; Océan Arctique

Programmes/projets de recherche

- Production océanique, microorganismes marins
- Flux particulaires et biotransferts
- Réseaux trophiques dans les milieux littoraux
- Histoire des espèces et des océans-ecosystèmes profonds et coralliens

Programmes de recherche menés en coopération

- PFO/JGOFS: Campagnes Frontale et Eumeli
- PRIMO
- COST 647 (CEE)
- Coopération avec des laboratoires suisses, grecs et italiens
- CCE/MAST: EROS 2000
- WMCE (COI/UNESCO): Western Mediterranean Circulation Experiment
- COI/CIESM: PRIMO
- CCE: Medmodel
- PNUE/MED-POL/FAO
- PNDR CNRS/IFREMER: Programme National Déterminisme du Recrutement
- PRO INSU/ORSTOM: Programme récifs coralliens
- PICS Franco-Australien: Récifs coralliens
- Actions intégrées: Franco-Espagnole, Franco-Portugaise
- Contract CCE 87-89 612F: Ecotoxicologie environnement
- Groupement scientifique CNRS/PIREN/SNEA Université: Dégradation de la matière organique en milieu littoral
- ATP: Ecotoxicologie environnement
- PNOC (Programme National d'Océanologie Côtière)
- WOCE (World Ocean Circulation Experiment)

Programmes de formation/enseignement

- Maîtrise de géoscience avec tronc commun, option biologie-chimie, option physique et stage final
- DEA d'Océanologie: 1) Océanologie biologique, 2) Gestion des ressources vivantes, 3) Biotechnologies marines, 4) Génie de l'environnement marin-stage de recherche de 6 mois
- Doctorat en océanographie

Personnel Scientifique 60; Technique 48; Autre 27

Moyens d'information

Publications Publications dans revues internationales

Bibliothèque 6000 ouvrages; 1000 thèses; 16000 tirés à part et microfiches; 1250 périodiques

Programmes/projets de coopération Prêts inter-universitaires **Bibliothécaire**
Mme Yolande Bentosela

Ordinateurs Mini-ordinateur HP 9000/835; Station de travail HP 9000/350; Poste de traitement d'image; Réseau; Micro-ordinateurs (PC et Apple Macintosh); Imprimantes diverses **Applications** Comptabilité, planification financière; Gestion de bases de données; Publication assistée par ordinateur; Enseignement; Graphiques; Bibliothèque/documentation; Cartes; Modélisation; Scientifique; Statistiques; Traitement de texte **Echange de données** Divers

Installations 6000 m²

Laboratoires climatisés **Equipements de laboratoire** Analyseur CHN LECO 800; HPLC; Spectrophotomètres; Chaines d'analyse automatique Technicon; Chromatographes phase gazeuse; Compteurs électroniques de particules de type multisizer; Spectromètre de masse; Microscope électronique à balayage; Filets à plancton; Pièges à particules; Carottiers; Benne Flucha; Sondeurs acoustiques; Zodiacs et bostons; Compresseur et bouteilles de plongée; Véhicules **Espèces entretenues** Souches de micro-algues

Bateaux/embarcations de recherche Accès aux bateaux gérés par le CIRMED (Comité Inter-régional Méditerranéen)-tailles comprises entre 15 et 25 m; Accès aux moyens nationaux gérés par GENAVIRE (IFREMER); Petites embarcations de Station (de 5 à 9 m)

Possibilités d'accueil pour 10 scientifiques extérieurs; 20 étudiants **Installations pour conférences/séminaires** pour 24 participants **Logement** disponible

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Alliot, Elizabeth (Mme)	Doctorat	Chercheur	Ecophysiologie; Poissons; Mollusques
Arfi, Robert (M)	Doctorat	Chercheur	Hydrobiologie; Etangs; Lagunes; Côtier
Arnaud, Patrick (M)	Doctorat	Chercheur	Biologie marine; Benthos; Antarctique; Mollusques
Bellan, Gérard (M)	Doctorat	Chercheur	Biologie marine; Pollution; Polychètes

FRANCE

Nom	Diplôme	Fonction	Spécialité
Bellan-Santini , Denise (Mme)	Doctorat	Chercheur	Biologie marine; Benthos; Pollution; Amphipodes
Berland , Brigitte (Mme)	Doctorat	Chercheur	Biologie marine; Microalgues; Efflorescences planctoniques
Bertrand , Jean-Claude (M)	Doctorat	Enseignant/Chercheur	Microbiologie marine; Cycles biogéochimiques; Hydrocarbures
Blanc , François (M)	Doctorat	Enseignant/Chercheur/ Directeur	Océanographie biologique; Traitement des données
Blanc , Jean-Joseph (M)	Doctorat	Enseignant/Chercheur	Géologie marine; Sédimentologie
Bonin , Daniel (M)	Doctorat	Enseignant/Chercheur	Biologie marine; Phytoplancton
Bonin , Patricia (Mme)	Doctorat	Chercheur	Microbiologie marine; Cycle de l'azote
Bourcier , Michel (M)	Doctorat	Chercheur	Biologie marine; Benthos
Bourdillon , André (M)	Doctorat	Enseignant/Chercheur	Biologie marine; Migrations du zooplancton
Boury-Esnault , Nicole (Mme)	Doctorat	Chercheur	Biologie marine; Eponges
Castelbon , Christian (M)	Doctorat	Enseignant/Chercheur	Biologie marine; Migrations du zooplancton
Champalbert , Gisèle (Mme)	Doctorat	Chercheur	Biologie marine; Zooplancton
Coste , Bernard (M)	Doctorat	Chercheur	Océanographie biologique; Production primaire
Degiovanni , Claude (M)	Doctorat	Enseignant/Chercheur	Géologie marine; Sédimentologie; Géochimie
Dekeyser , Ivan (M)	Doctorat	Enseignant/Chercheur	Océanographie physique; Numéricien; Dynamique des fluides
Denis , Michel (M)	Doctorat	Chercheur	Biophysique; Systèmes respiratoires
Durbec , Jean-Pierre (M)	Doctorat	Enseignant/Chercheur	Statistiques; Traitement des données
Elkaim , Richard (M)	Doctorat	Chercheur	Biologie marine; Ecotoxicologie
Emig , Christian (M)	Doctorat	Chercheur	Zoologie marine; Lophophoriens; Paléoécologie
Fauque , Guy (M)	Doctorat	Chercheur	Biologie cellulaire; Systèmes respiratoires
Gaudy , Raymond (M)	Doctorat	Chercheur	Biologie marine; Ecophysiolologie; Zooplancton
Gilewicz , Michèle (Mme)	Doctorat	Enseignant/Chercheur	Microbiologie; Enzymologie
Goutx , Madeleine (Mme)	Doctorat	Chercheur	Biochimie marine; Lipides
Guerin , Jean-Pierre (M)	Doctorat	Enseignant/Chercheur	Biologie marine; Meroplankton
Harmelin , Jean-Georges (M)	Doctorat	Chercheur	Biologie marine; Benthos; Bryozoaires; Poissons

FRANCE

Nom	Diplôme	Fonction	Spécialité
Harmelin-Vivien , Mireille (Mme)	Doctorat	Chercheur	Biologie marine; Récifs; Poissons
Kerambrun , Pierre (M)	Doctorat	Enseignant/Chercheur	Biologie marine; Polymorphisme enzymatique
Le Campion , Joel (M)	Doctorat	Enseignant/Chercheur	Biologie marine; Phoraminifères planctoniques
Le Campion , Thérèse (Mme)	Doctorat	Chercheur	Biologie marine; Cyanophycées; Récifs
Leveau , Michel (M)	Doctorat	Enseignant/Chercheur	Océanographie biologique; Hydrobiologie
Macquart-Moulin , Claude (M)	Doctorat	Chercheur	Biologie marine; Migrations du zooplancton
Massé , Henri (M)	Doctorat	Chercheur	Biologie marine; Benthos
Millet , Bertrand (M)	Doctorat	Enseignant/Chercheur	Océanographie physique; Modélisation physique et biologique
Millot , Claude (M)	Doctorat	Chercheur	Océanographie physique; Circulation océanique
Minas , Hans Joachim (M)	Doctorat	Chercheur	Océanographie biologique; Production primaire
Minas , Monique (Mme)	Doctorat	Chercheur	Océanographie biologique; Production primaire
Pagano , Marc (M)	Doctorat	Chercheur	Hydrobiologie; Etangs; Lagunes
Passelaigue , Françoise (Mme)	Doctorat	Enseignant/Chercheur	Biologie marine; Migrations du zooplancton
Patriti , Gilbert (M)	Doctorat	Chercheur	Biologie marine; Zooplancton
Peyrot , Mireille (Mme)	Doctorat	Chercheur	Biologie marine; Récifs
Plante , Marie-Reine (Mme)	Doctorat	Chercheur	Biologie marine; Microphytobenthos
Plante , Raphaël (M)	Doctorat	Enseignant/Chercheur	Biologie marine; Benthos
Raimbault , Patrick (M)	Doctorat	Chercheur	Océanographie biologique; Chimie marine
Reys , Jean-Pierre (M)	Doctorat	Enseignant/Chercheur	Biologie marine; Benthos; Traitement des données
Romano , Jean-Claude (M)	Doctorat	Chercheur	Océanographie biologique; Biochimie; Interface air-mer
Roux , Max (M)	Doctorat	Enseignant/Chercheur	Géologie marine; Sédimentologie
Salen , Chantal (Mme)	Doctorat	Chercheur	Biologie marine; Benthos
Slawyk , Gerd (M)	Doctorat	Chercheur	Océanographie biologique; Production primaire
Stora , Georges (M)	Doctorat	Chercheur	Biologie marine; Benthos; Pollution

FRANCE

Nom	Diplôme	Fonction	Spécialité
Taupier-Letage , Isabelle (Mme)	Doctorat	Chercheur	Océanographie biologique; Production primaire; Télédétection
Thomassin , Bernard (M)	Doctorat	Chercheur	Biologie marine; Récifs coralliens
Travers , Marc (M)	Doctorat	Enseignant/Chercheur	Biologie marine; Phytoplancton
Vacelet , Jean (M)	Doctorat	Chercheur	Biologie marine; Eponges
Weydert , Pierre (M)	Doctorat	Enseignant/Chercheur	Géologie marine; Sédimentologie
Zibrowius , Helmut (M)	Doctorat	Chercheur	Biologie marine; Benthos; Biogéographie

Centre de Documentation, de Recherche et d'Expérimentation sur les Pollutions Accidentielles des Eaux (CEDRE)

Boîte Postale 72
Plouzane 29280
FRANCE

Téléphone (33) 98 491266
Télex 940145 F
Télifax (33) 98 496446

Directeur Dr Marthe MELGUEN, Directeur

Organisme privé (sans but lucratif) créé en 1979. Langues de travail: Français; Anglais

Nature des activités Recherche; Formation spécialisée; Information, vulgarisation

Objectifs/mandat Informer ses partenaires des études, recherches et expérimentations effectuées pour améliorer la préparation de la lutte contre les pollutions accidentielles des eaux; Faire progresser les équipements et techniques de lutte; Conseiller les administrations dans l'élaboration de leur politique d'investissement en moyens de lutte; Assister les autorités tant au niveau de la préparation à la lutte que des interventions sur le terrain en assurant un rôle d'expert à leurs côtés; Promouvoir les équipements et techniques de lutte français

Domaines ou disciplines scientifiques/activités Pollution; Télédétection; Prévision et remèdes aux catastrophes; Assistance aux gouvernements de pays étrangers en préparation (MALTE) et en intervention (Task Force CEE: Italie, Golfe Persique) antipollution; Prestation de service en assistance et conseils pour raffineries, ports autonomes, agences financières de bassin

Environnements Lacs; Eaux saumâtres; Zones côtières; Mangroves; Rivières; Zones littorales; Lagunes; Récifs coralliens/atolls; Iles; Estuaires

Zones géographiques Toutes les mers

Programmes/projets de recherche

- Amélioration des techniques de lutte
- Brûlage des nappes
- Perte de conteneurs
- Guide de reconnaissance aérienne
- Guide de l'absorbant
- Amélioration de la lutte sur le littoral
- Oxygénéation
- Guide d'ancrage des barrages
- Analyse du trafic et des accidents

Programmes de formation/enseignement

- Lutte contre les pollutions par hydrocarbures (en mer, sur le littoral)
- Lutte contre les pollutions par substances dangereuses
- Stages pour CEE, Administrations Françaises, Ministères de la Mer, de la Défense, de l'Intérieur et de l'Industrie

Personnel Scientifique 15; Technique 2; Autre 10

Moyens d'information

Publications Rapports annuels; Bulletin trimestriel activités du CEDRE; Rapports techniques et manuels; Guides pratiques d'intervention sur les hydrocarbures et les produits chimiques

Bibliothèque 2500 volumes/tirés à part; 50 périodiques **Programmes/projets de coopération** Centre de Documentation de l'IFREMER; Centres de Documentation du Ministère de l'Environnement; Centres de Documentation des Agences de Bassin **Bibliothécaire** Mme Marie-Lise Petit

Ordinateurs Plusieurs PC (Sedasis-386SX, 2 Olivetti-286, 4 Kenitex-286, Epson-386SX); Portables (Toshiba-386, Sedasis-386SX, Sedasis-286); Imprimantes diverses (HP LaserJet IIISi, HP PaintJet, 2 QMS 810, 1 Epson LQ 500); Table traçante (HP 7475A); Scanner (Epson GT600); CD-ROM (Hitachi) **Applications** Comptabilité, planification financière; Gestion de bases de données; Publication assistée par ordinateur; Graphiques; Bibliothèque/documentation; Modélisation; Traitement de texte

Installations 600 m²

Laboratoires 50 m²; climatisés **Equipements de laboratoire** Caractérisation physique des polluants (point Eclair, viscosité, densité, teneur en eau, indice de pénétration); Tests spécialisés sur l'efficacité des produits de lutte (dispersants, absorbants, produits de lavage, désémulsifiants); Tests de toxicité (CL 50 sur crevettes)

Possibilités d'accueil pour 1 scientifique extérieur; 5 étudiants **Installations pour conférences/séminaires** pour 25 participants

FRANCE

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Cabioch , François (M)	DEA	Ingénieur Recherche Expérimentations	Chimie analytique; Pollutions industrielles des eaux
Fauvre , Daniel (M)	Ingénieur	Ingénieur Recherche Expérimentations	Méthodes de lutte en eaux intérieures; Pollution des eaux intérieures
François , Atilio (M)	Doctorat	Responsable Informatique	Informatique appliquée; Systèmes d'information appliqués à la gestion des pollutions
Kantin , Roger (M)	Doctorat	Responsable du Service Intervention	Océanologie; Protection de l'environnement; Intervention antipollution
Kerambrun , Loic (M)	Doctorat	Ingénieur Recherche Expérimentations	Equipements et méthodes de lutte; Pollutions accidentielles des eaux
Kremer , Xavier (M)	Officier de Marine	Chargé de mission	Equipements de lutte en mer; Sécurité industrielle
Melguen , Marthe (Mme)	Doctorat	Directeur	Pollutions marines
Merlin , François (M)	Maîtrise	Ingénieur Recherche Expérimentations	Produits de traitement des polluants; Pollutions des eaux
Peigne , Georges (M)	Ingénieur	Responsable du Service Recherche Expérimentations	Equipements et méthodes de lutte; Pollutions des eaux
Pellen , Robert (M)	Maîtrise	Officier Marine	Planification des interventions; Plans d'intervention antipollution
Refloch , Hervé (M)	Ingénieur	Directeur Administratif et Financier	Lutte antipollution; Gestion des interventions antipollution et direction des projets
Rousseau , Christophe (M)	Licence	Responsable Relations Publiques/Formations	Pollutions marines; Formation et gestion des interventions
Sparfel , Jean (M)	Licence	Directeur Technique	Prévention et gestion des pollutions marines
Tiercelin , Claudine (Mme)	Doctorat	Adjoint Formation	Risques de pollution des eaux; Pollutions des eaux, hydrocarbures et produits chimiques

**Centre National de la Recherche Scientifique
Commissariat à l'Energie Atomique
Centre des Faibles Radioactivités (CNRS-CEA-CFR)**

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Directeur Dr Jean-Claude DUPLESSY, Directeur

Organisme gouvernemental, national. Langues de travail: Français

Nature des activités Recherche

Objectifs/mandat Appliquer les méthodes modernes de la physique et de la chimie aux sciences de la terre selon les grandes orientations ci-après: Physico-chimie du système océan-atmosphère; Paléoclimatologie et paléo-océanologie; Géophysique couplée à la géologie; Géochronologie nucléaire appliquée au quaternaire, à l'archéologie et à la préhistoire

Domaines ou disciplines scientifiques/activités Chimie marine et géochimie; Méthodologie analytique; Métaux lourds; Radioactivité; Matière en suspension; Biomasse; Sédimentologie; Paléontologie; Météorologie marine et climatologie; Pollution; Evaluation de l'impact sur l'environnement; Télédétection

Environnements Environnement pélagique

Zones géographiques Mer Méditerranée; Mer d'Alboran; Mer Tyrrhénienne; Océan Atlantique

Programmes/projets de recherche

- Flux des matières en milieu océanique
- Géochimie des métaux lourds
- Sédimentologie et paléo-océanographie
- Apports de matière voie atmosphérique

Programmes de recherche menés en coopération

- Programme DYFAMED (France-JGOFS): Dynamique des flux atmosphériques en Méditerranée
- Leur évolution dans la colonne d'eau
- Programme climatique et programme environnement de la CEE

Programmes de formation/enseignement

- DEA de géochimie, sédimentologie et océanographie dans le cadre des universités de Paris, Brest et Pau (France)

Personnel Scientifique 30; Technique 30

FRANCE

Moyens d'information

Publications Rapports annuels/revues; Rapports techniques

Bibliothèque 2000 volumes/tirés à part; 100 périodiques **Programmes/projets de coopération**

Catalogue Collectif National (Bu Orsay); Météo. Paris; CEN-Saclay/Jussieu/Museum Paris/Sté.

Géologique de France/Ecole des Mines **Bibliothécaire** Mme Spyridakis

Ordinateurs Divers

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Buat-Ménard , Patrick (M)	Doctorat	Directeur de Recherche	Flux particulaires; Flux de matière particulaire dans le système atmosphère-océan; Aérosols
Dulac , François (M)	Doctorat	Ingénieur CEA	Géochimie atmosphérique; Aérosols; Télédétection; Modélisation
Duplessy , Jean-Claude (M)	Doctorat	Directeur	
Labeyrie , Laurent (M)	Doctorat	Directeur de Recherche	Paléoclimatologie; Paléo-océanographie; Géochimie isotopique
Lambert , Claude Elizabeth (Mme)	Doctorat	Chargé de Recherche	Flux particulaires; Flux de matière particulaire dans le système atmosphère-océan; Aérosols
Reyss , Jean-Louis (M)	Doctorat	Directeur de Recherche	Dynamique de l'interface eau-sédiment; Hydrothermalisme; Sédimentation profonde

Centre National de la Recherche Scientifique Institut National des Sciences de l'Univers (CNRS-INSU)

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FRANCE

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Télifax (33) 1 40512101

Directeur Professeur André BERROIR, Directeur

Organisme gouvernemental, national créé en 1985. Langues de travail: Français

Nature des activités Politique/planification

Objectifs/mandat Agence de moyens de la communauté géophysique française: gestion scientifique de ce secteur de recherche

Domaines ou disciplines scientifiques/activités Océanographie physique; Instruments et méthodes; Masses d'eau et circulation; Courants et dispersion; Interaction air/mer; Vagues, marées, houles et niveau de la mer; Modélisation; Chimie marine et géochimie; Méthodologie analytique; Substances nutritives; Métaux lourds; Composés organiques (hydrocarbures halogénés, hydrocarbures pétroliers, etc.); Radioactivité; Dépôts; Eaux; Matière en suspension; Biomasse; Géologie marine et géophysique; Topographie et morphologie; Sédimentologie; Formation des côtes et franges côtières; Paléontologie; Sismologie; Biologie marine et écologie; Phytoplancton; Zooplankton; Benthos; Poissons; Algues; Eutrophisation; Floraison du plancton; Mollusques; Crustacés; Mammifères marins; Physiologie marine; Biochimie marine; Microbiologie marine; Parasitologie; Pathologie des espèces marines; Productivité; Etudes des communautés et populations; Météorologie marine et climatologie; Gestion de l'environnement marin; Surveillance continue et/ou évaluation; Pollution; Technologie marine; Télédétection; Acquisition des données par télémétrie; Astronomie/Astrophysique; Océan/Atmosphère; Sciences de la Terre

Environnements Lacs; Eaux saumâtres; Zones côtières; Mangroves; Environnement pélagique; Environnement benthique; Rivières; Zones littorales; Lagunes; Récifs coralliens/atolls; Iles; Estuaires

Zones géographiques Mer Méditerranée; Mer d'Alboran; Bassin algéro-provençal; Mer des Baléares; Golfe du Lion; Mer de Ligurie; Détrict de Sicile; Détrict de Gibraltar; Mer Tyrrhénienne; Océan Atlantique; Mer Rouge

Programmes/projets de recherche

- Océanographie grande échelle: observations, modélisation
- Océanographie côtière
- Participation à TOGA, WOCE, JGOFS (IGEP)

Programmes de recherche menés en coopération

- CEE: Eurometmodel
- Flux Manche
- EROS 2000

Personnel Scientifique 5; Technique 60

Moyens d'information

Publications Rapport annuel; Soutien à la publication de monographies

Ordinateurs Divers **Applications** Comptabilité, planification financière

Installations

Bateaux/embarcations de recherche 9 bateaux, taille 15-22 m; 10 embarcations, 10 m

Possibilités d'accueil pour 50 scientifiques extérieurs; 50 étudiants **Installations pour conférences/séminaires** pour 50 participants **Logement** pour 50 personnes

FRANCE

**Centre National de la Recherche Scientifique
Ministère Education Nationale
Université de Perpignan
Laboratoire de Sédimentologie et Géochimie Marines (LSGM)**

52 Avenue de Villeneuve
Perpignan 66860
FRANCE

Téléphone (33) 68 662088
Télex 505005 UNIPERP
Télifax (33) 68 662096

Directeur M. André A MONACO, Directeur

Organisme gouvernemental, national créé en 1982. Langues de travail: Français

Nature des activités Recherche; Laboratoire; Enseignement (universitaire)

Objectifs/mandat Recherches sur les environnements sédimentaires côtiers et profonds

Domaines ou disciplines scientifiques/activités Chimie marine et géochimie; Métaux lourds; Dépôts; Matière en suspension; Géologie marine et géophysique; Topographie et morphologie; Sédimentologie; Gestion de l'environnement marin; Pollution; Evaluation de l'impact sur l'environnement

Environnements Zones côtières; Environnement pélagique; Environnement benthique; Rivières; Estuaires

Zones géographiques Mer Méditerranée; Mer Egée; Mer d'Alboran; Bassin algéro-provençal; Golfe du Lion; Océan Atlantique

Programmes/projets de recherche

- Recherches sur les écosystèmes de marges (Programme ECOMARGE): Flux de matière et d'énergie, transfert côte-large et vers l'écosystème benthique
- Stratigraphie séquentielle des corps sédimentaires sur les marges continentales

Programmes de recherche menés en coopération

- EURECOMARGE: Recherches sur les écosystèmes des marges européennes de Méditerranée avec la Grèce (NCMR Athènes), Italie (Univ.Bologne, Univ.Gênes), Espagne (Univ.Barcelone), Algérie (UHTB-Alger) et Maroc (Univ.Melenés), dans le cadre d'échanges interuniversitaires et avec le CNRS

Programmes de formation/enseignement

- ERASMUS: Licence et maîtrise d'océanologie appliquée
- Universités de Perpignan et de Barcelone

Personnel Scientifique 12; Technique 2; Autre 5

Moyens d'information

Publications Recueil des travaux du LSGM; Triple numéro de "Continental Shelf Research" en 1990, consacré à la phase 1 du programme ECOMARGE

Bibliothèque 1000 volumes/tirés à part; 10 périodiques **Programmes/projets de coopération**
Divers avec bibliothèques universitaires

Ordinateurs 4 PC; 3 micro-ordinateurs Apple Macintosh **Applications** Comptabilité, planification financière; Enseignement; Graphiques; Scientifique; Statistiques; Traitement de texte **Echange de données** Disquettes 3.5"

Installations 400 m²

Laboratoires 200 m²; climatisés **Equipements de laboratoire** Diffractomètre; Microscope électronique; Spectromètre AB.A; Doseur de carbone; Doseur carbone dissous; Spectro UV visibles; Gamma densitomètre; Pièges à particules; Courantomètres; Transmissomètres

Possibilités d'accueil pour 2 scientifiques extérieurs; 2 étudiants **Installations pour conférences/séminaires** pour 100 participants **Logement** disponible

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Aloïsi, J C (M)	Doctorat	Maître de Conférence	Sédimentologie; Lithoacoustique
Buscaill, R (Mme)	Doctorat 3ème cycle	Chargée de Recherche CNRS	Géochimie; Matière organique
Cauwet, G (M)	Doctorat	Ingénieur CNRS	Géochimie; Matière organique, carbone
Deniaux, B (Mme)	Doctorat 3ème cycle	Ingénieur CNRS	Sédimentologie; Microscopie
Gadel, F (M)	Doctorat	Chargé de Recherche CNRS	Géochimie; Matière organique
Gensous, B (M)	Doctorat 3ème cycle	Maître Assistant	Sédimentologie; Faciès dépôts récents
Got, H (M)	Doctorat	Professeur	Sédimentologie; Géophysique
Heussner, S (M)	Doctorat 3ème cycle	Chargé de Recherche CNRS	Sédimentologie; Flux biogènes
Monaco, A (M)	Doctorat	Directeur de Recherche CNRS	Géochimie; Sédimentologie; Eléments métalliques; Flux matière
Naudin, J J (M)	Doctorat	Chargé de Recherche CNRS	Sédimentologie; Suspensions
Paul, H (M)	Doctorat 3ème cycle	Maître de Conférence	Sédimentologie; Suspensions
Tesson, M (M)	Doctorat 3ème cycle	Maître de Conférence	Sédimentologie; Stratigraphie séquentielle

FRANCE

Centre National du Machinisme Agricole, du Génie Rural, des Eaux et des Forêts (CEMAGREF)

CEMAGREF Groupement de Bordeaux,
50 Avenue de Verdun
Boîte Postale 3
Cestas-Gazinet 33610
FRANCE

Téléphone (33) 56 360940
Télex 540003 F
Télifax (33) 56 367511

Directeur M. Jacques J J BORIES, Chef de la Division, Aquaculture et Pêche

Organisme gouvernemental, national créé en 1981. Langues de travail: Français

Nature des activités Recherche; Recherche appliquée

Objectifs/mandat Recherches appliquées dans le domaine des pêches continentales (estuaires, fleuves, lacs), de l'aquaculture en eau douce et saumâtre; Mission de formation, information et développement

Domaines ou disciplines scientifiques/activités Pêches; Aquaculture; Surveillance continue et/ou évaluation; Gestion des zones côtières; Conservation et/ou régénération des ressources naturelles; Evaluation de l'impact sur l'environnement; Appui technique aux ministères chargés des problèmes d'environnement et de la gestion des pêches continentales; Appui technique au ministère de l'agriculture pour le secteur de l'aquaculture et pour la valorisation et l'aménagement des zones rurales; Assistance technique à certains professionnels de l'aquaculture ou à leurs structures représentatives

Environnements Lacs; Eaux saumâtres; Zones côtières; Rivières; Zones littorales; Estuaires

Zones géographiques Océan Atlantique

Programmes/projets de recherche

- Etudes et recherches sur la biologie des espèces d'intérêt halienrique, dulçaquicoles ou amphihalines
- Recherche sur la gestion des stocks et la gestion des pêcheries continentales
- Mise au point de techniques d'aquacultures extensives en eau saumâtre ou douce
- Etude de la gestion de l'eau en élevage intensif d'eau douce et des modalités de traitement des effluents
- Programme esturgeon particulier visant à restaurer les stocks et à développer la pisciculture des acipenséridés

Programmes de recherche menés en coopération

- Valorisation des zones littorales pour la pêche et l'aquaculture menée en collaboration avec le Muséum d'Histoire Naturelle, l'université et l'IFREMER

Programmes de formation/enseignement

- Encadrement de thésards
- Réalisation de conférences, de cours dans des écoles de techniciens ou d'ingénieurs

Personnel Scientifique 14; Technique 7; Autre 3

Moyens d'information

Publications Divers; Catalogue des publications mis à jour périodiquement

Bibliothèque 15000 volumes/tirés à part; 70 périodiques **Programmes/projets de coopération** Université; INRA; IFREMER **Bibliothécaire** Mme Chantal Gardes; Mlle Marie Pierre Maleyran

Ordinateurs 2 ordinateurs DEC VAX; 10 micro-ordinateurs (PC et Apple Macintosh) **Applications** Comptabilité, planification financière; Communications; Gestion de bases de données; Graphiques; Bibliothèque/documentation; Statistiques; Traitement de texte **Echange de données** Divers

Installations 300 m²

Laboratoires 40 m² **Equipements de laboratoire** Un chalutier d'estuaire pour pêche scientifique; Une vedette rapide avec matériel scientifique embarqué; Engins de pêche, et engins de prélèvement; Une centrale de mesure; Une pisciculture expérimentale en eau douce; Une station de terrain en aquaculture extensive (40 ha). **Aquariums** 3x1.5 m³ **Espèces entretenues** Acipenser baeri; Acipenser ruthenus; Acipenser sturio; Hucho hucho; Anguila anguila; Mugil (sp)

Bateaux/embarcations de recherche "Chalutier", 13 m, pêche artisanale, équipage 2, 2 scientifiques; "Vedette", 8 m, pêche artisanale

Possibilités d'accueil pour 2 scientifiques extérieurs; 2 étudiants **Installations pour conférences/séminaires** pour 60-80 participants

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Babin , Didier (M)	DEA	Géographe	Socio-économie des pêcheries continentales
Bories , Jacques J J (M)		Chef, Division Aquaculture et Pêche	
Brun , Jean Remy (M)	Ingénieur	Pathologiste	Pathologie et prophylaxie des esturgeons; Prophylaxie pathologie des Acipenséridés
Castelnaud , Gérard (M)	Doctorat		Gestion des pêcheries continentales; Suivi des stocks d'Acipenser sturio; Attaché à l'équipe PMPC
Clement , Olivier (M)	Ingénieur	Socio-économiste (Animateur de l'équipe Marais Atlantique et Aquaculture)	

FRANCE

Nom	Diplôme	Fonction	Spécialité
Duret, Jean (M)	Ingénieur	Animateur de l'équipe salmoniculture et élevage intensif (SEI)	Technologie Aquacole; Gestion de l'eau en élevage intensif
Elie, Pierre (M)	Doctorat	Hydrobiologiste (Animateur de l'Equipage Poissons Migrateurs et Pêche Continentale PMPC)	Spécialiste notamment de l'anguille (<i>Anguila anguila</i>)
Funten, Eric (M)	DEA	Hydrobiologiste	Valorisation de zones humides littorales
Jatteau, Philippe (M)	DEA	Hydrobiologiste	Elevages intensifs en eau douce; Diversification aquacole; Gestion informatisée des piscicultures
Massé, Jacques (M)	Ingénieur	Agronome	Aquaculture; Aménagement aquacole en zone littorale; Aquaculture extensive en eau douce et saumâtre
Rigaud, Christian (M)	Ingénieur	Hydrobiologiste (Spécialiste de l'anguille et des espèces inféodées aux zones saumâtres)	
Rochard, Eric (M)	DEA	Hydrobiologiste	Dynamique des populations d'espèce Amphitalines
Rovault, Thierry (M)	Ingénieur	Technologue en Aquaculture	Technologie aquacole; Conception des équipements; Sursaturation gazeuse
Salin, Dominique (M)	Ingénieur	Physiologiste	Physiologie; Excrétion azotée des esturgeons; Toxicité ammoniacale
Sertier, Michel (M)	Ingénieur	Halieute	Evaluation des impacts de la pollution; Impact sur le milieu estuarien des activités anthropiques, industrielles ou halieutiques
Taverny, Catherine (Mme)	DEA	Hydrobiologiste	Dynamique des populations d'Alose
Williot, Patrick (M)	Ingénieur	Hydrobiologiste (Animateur de l'équipe Esturgeon)	Physiologie de la reproduction

Centre National du Machinisme Agricole, du Génie Rural, des Eaux et des Forêts (CEMAGREF)

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Télifax (33) 67 635795

Directeur M. Christian ALBAGES, Chef de la Division, Aquaculture et Pêche de Montpellier

Organisme gouvernemental, national créé en 1981. Langues de travail: Français

Nature des activités Recherche

Objectifs/mandat Recherche appliquée dans le domaine de l'aquaculture continentale en eaux tempérées; Gestion des milieux lagunaires méditerranéens

Domaines ou disciplines scientifiques/activités Poissons; Algues; Eutrophisation; Pêches; Aquaculture; Surveillance continue et/ou évaluation; Gestion des zones côtières; Pollution; Conservation et/ou régénération des ressources naturelles; Evaluation de l'impact sur l'environnement; Mise au point de filière d'élevage aquacole sur des espèces nouvelles; Appui technique aux Ministères, professionnels, en matière de pisciculture en eau douce; Etude des milieux lagunaires méditerranéens (pêche-eutrophisation); Appui technique à l'Etat ou aux collectivités territoriales pour la gestion des lagunes

Environnements Lacs; Eaux saumâtres; Zones côtières; Zones littorales

Zones géographiques Mer Méditerranée

Programmes/projets de recherche

- Développement des filières piscicoles Silure glane et Sandre
- Etude de l'eutrophisation des lagunes méditerranéennes peu profondes
- Etude de l'anguille (biologie, halieutisme, production) en Méditerranée

Programmes de recherche menés en coopération

- Idem avec universités ou autres organismes de recherche nationaux

Programmes de formation/enseignement

- Participation à des formations en aquaculture
- Encadrement d'étudiants 3ème cycle ou autres

Personnel Scientifique 5; Technique 1; Autre 2

Moyens d'information

Publications Rapports annuels/revues; Rapports techniques

FRANCE

Bibliothèque 1000 volumes/tirés à part; 30 périodiques **Programmes/projets de coopération**
CEMAGREF de Bordeaux; CIDARC Montpellier **Bibliothécaire** Mme Vannobel

Ordinateurs 3 micro-ordinateurs Apple Macintosh; 4 PC **Applications** Gestion de bases de données; Graphiques; Bibliothèque/documentation; Statistiques; Traitement de texte **Echange de données** Divers

Installations 150 m²

Laboratoires 60 m² **Equipements de laboratoire** Embarcations et matériel de pêche et de prélèvement pour étude des milieux lagunaires; Matériel d'analyse des eaux; Matériel de pisciculture (bacs, cuve de transport de poissons vivants); Laboratoire d'aquaculture **Espèces entretenues** Silurus glanis; Stizostedion lucioperca; Tinca tinca

Bateaux/embarcations de recherche Matériel léger pour étude de milieux peu profonds

Possibilités d'accueil pour 2 scientifiques extérieurs; 2 étudiants **Installations pour conférences/séminaires** pour 20 participants

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Albiges , Christian (M)	Ingénieur	Chef, Division Aquaculture et Pêche	Aquaculture
Fillit , Muriel (Mme)	DEA	Thésard	Milieux lagunaires; Eutrophisation; Macro végétaux; Télédétection
Lieutaud , Anne (Mme)	Ingénieur	Ingénieur	Milieux lagunaires
Panfili , Jacques (M)	DEA	Thésard	Biologie; Lecture de l'âge des poissons; Automatisation
Proteau , Jean-Pierre (M)	Doctorat	Ingénieur	Aquaculture
Schlumberger , Olivier (M)	Doctorat	Ingénieur	Hydrobiologie; Aquaculture
Ximenes , Marie Claude (Mme)	Ingénieur	Ingénieur	Milieux lagunaires; Halieutisme

Commissariat à l'Energie Atomique Département de Biologie Cellulaire et Moléculaire Laboratoire Jean Maetz (CEA)

La Darse
Boîte Postale 68
Villefranche-sur-Mer 06230
FRANCE

Téléphone (33) 93 019565
Télifax (33) 93 766017

FRANCE

Directeur Professeur René J MOTAIS, Directeur

Organisme para-publique créé en 1964. Langues de travail: Français

Nature des activités Recherche

Objectifs/mandat Recherche fondamentale: Biologie et physiologie cellulaire (perméabilité des membranes biologiques)

Domaines ou disciplines scientifiques/activités Physiologie marine; Perméabilité ionique; Transduction d'énergie; Transport membranaire; Cinétique isotopique

Environnements Rivières; Zones littorales

Zones géographiques Mer Méditerranée; Mer Adriatique; Mer Egée; Mer d'Alboran; Dardanelles; Golfe du Lion; Mer Ionienne; Mer de Ligurie; Détrict de Sicile; Détrict de Gibraltar; Détrict d'Otrante; Mer Tyrrhénienne; Océan Atlantique; Bosphore; Mer de Marmara; Mer Noire

Programmes/projets de recherche

- Mécanisme de transduction d'énergie chez les bactéries
- Etude de la perméabilité ionique des épithéliums
- L'érythrocyte nucléé du poisson: Un modèle pour l'étude de la régulation hormonale de la perméabilité membranaire

Programmes de formation/enseignement

- Stages de DEA: Pharmacologie cellulaire et moléculaire
- Formation de chercheurs (thèse)

Personnel Scientifique 15; Technique 7

Moyens d'information

Bibliothèque 25 périodiques

Ordinateurs Divers **Applications** Graphiques; Bibliothèque/documentation; Scientifique; Traitement de texte

Installations 1000 m²

Laboratoires 700 m²; climatisés **Equipements de laboratoire** HPLC; Electrophorèse; Centrifugeuses; Compteur bêta et gamma; Spectrophotomètre; Matériel biologie moléculaire
Espèces entretenues Escherichia coli; Culture A6; Salmo gairdneri

Possibilités d'accueil pour 3 scientifiques extérieurs

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Bassilana, Martine (Mme)	Doctorat	Chargée Recherche	Biologie cellulaire; Bactérie

FRANCE

Nom	Diplôme	Fonction	Spécialité
Borgese , Franck (M)	Doctorat	Chargé Recherche	Biologie cellulaire; Erythrocyte
Cappodoro , Marina (Mme)	DEA	Chercheur	Biologie moléculaire; Erythrocyte
Ehrenfeld , Jordi (M)	Doctorat	Professeur/Chef de Recherche	Biologie cellulaire; Epithélium
Fievet , Bruno (M)	Doctorat	Chercheur	Biologie cellulaire; Erythrocyte
Garcia-Romeu , Federico (M)	Doctorat	Directeur de Recherche	Biologie cellulaire; Erythrocyte
Guizouarn , Hélène (Mme)	DEA	Chercheur	Biologie cellulaire; Erythrocyte
Harvey , Brian (M)	PhD	Chargé Recherche	Biologie cellulaire; Electrophysiologie; Epithélium
Lacoste , Isabelle (Mme)	DEA	Chercheur	Biologie cellulaire; Epithélium
Leblanc , Gérard (M)	Doctorat	Chercheur	Biologie cellulaire; Bactérie
Lindenthal , Sabine (Mme)	PhD	Chercheur	Biologie cellulaire; Erythrocyte
Lirbach , Valérie (Mme)	DEA	Chercheur	Biologie cellulaire; Epithélium
Motaïs , René (M)	Doctorat	Professeur/Chef de Recherche/ Directeur	Biologie cellulaire; Erythrocyte
Pourcher , Thierry (M)	Doctorat	Chercheur	Biologie moléculaire; Bactérie
Zani , Marie-Louise (Mme)	DEA	Chercheur	Biologie cellulaire; Bactérie

**Commissariat à l'Energie Atomique
Département de Protection de l'Environnement et des Installations
Station d'Etudes Radioécologiques Méditerranée (CEA-DPEI-SERM)**

CEA/SERM chez IFREMER-CT
Boîte Postale 330
La Seyne-sur-Mer 83500
FRANCE

Téléphone (33) 94 304829
Télex 400662 F
Télifax (33) 94 301372

Directeur Sabine Sylvie Claude CHARMASSON, Responsable de la Station d'Etudes Radioécologiques Méditerranée

Organisme gouvernemental, national créé en 1979. Langues de travail: Français; Anglais

Nature des activités Recherche

Objectifs/mandat Etude du comportement dans l'environnement des produits polluants utilisés ou créés dans les installations

Domaines ou disciplines scientifiques/activités Radioactivité; Eaux; Matière en suspension; Benthos; Poissons; Algues; Mollusques; Crustacés; Surveillance continue et/ou évaluation; Evaluation de l'impact sur l'environnement; Technologie marine; Politique pour les océans/Droit de la Mer; Etudes préliminaires à l'aménagement d'une installation nucléaire

Environnements Environnement benthique; Zones littorales

Zones géographiques Mer Méditerranée; Océan Atlantique

Programmes/projets de recherche

- En Méditerranée: Bilan et impact des radionucléides d'origine rhodanienne
- Etude du recyclage des polluants au niveau des installations mytilicoles
- En Atlantique: Etude des sites d'immersion de déchets de faible activité en Atlantique nord

Programmes de recherche menés en coopération

- Programme DYPOL (ministère environnement): Dynamique et pollution dans le golfe du Lion
- ECOMARGE (Institut National des Sciences de l'Univers-INSU): Etudes des marges continentales
- AIEA: Source of radioactivity in the marine environment and their relative contributions to overall dose assessment from marine radioactivity
- INSU: Programme flux océaniques opération EUMELI

Personnel Scientifique 3; Technique 2

Moyens d'information

Bibliothèque Oui

Ordinateurs Ordinateur HP 1000/A600; 3 PC (HP Vectra, Toshiba 3200-SX) **Applications** Communications; Gestion de bases de données; Bibliothèque/documentation; Scientifique; Statistiques; Traitement de texte

Installations 250 m²

Laboratoires 80 m²; climatisés **Equipements de laboratoire** Métrologie-spectrométrie: 1 détecteur Germanium hyper pur 7pct type P; 1 détecteur Germanium hyper pur 30pct type N; Granulométrie laser cils 715

Possibilités d'accueil pour 1 scientifique extérieur; 2 étudiants

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Arnaud , Mireille (Mme)	Maîtrise	Chercheur	Sédimentologie; Océanographie; Radioécologie
Charmasson , Sabine (Mme)	Doctorat 3ème cycle	Chercheur/Directeur	Océanographie biologie; Radioécologie
Gontier , Gilles (M)	Doctorat 3ème cycle	Chercheur	Biologie; Etudes expérimentales transfert radioactivité

FRANCE

Commission Océanographique Intergouvernementale de l'UNESCO (COI) *Intergovernmental Oceanographic Commission of UNESCO (IOC)*

7 Place de Fontenoy
Paris 75700
FRANCE

Téléphone (33) 1 45681000
Télex 204461 PARIS
Télégrammes UNESCO PARIS
Télifax (33) 1 40569316
Courrier électr. (OMNET) IOC.SECRETARIAT

Directeur Professeur Gunnar E B KULLENBERG, Secrétaire

Organisation des Nations Unies créé en 1960. Langues de travail: Anglais; Français; Espagnol; Russe; Arabe; Chinois

Nature des activités Recherche; Formation spécialisée; Politique/planification; Information, vulgarisation

Objectifs/mandat Coopération internationale dans le domaine de la recherche scientifique concernant les océans; élaborer, recommander et coordonner des programmes océaniques internationaux

Domaines ou disciplines scientifiques/activités Océanographie physique; Instruments et méthodes; Masses d'eau et circulation; Courants et dispersion; Interaction air/mer; Vagues, marées, houles et niveau de la mer; Modélisation; Chimie marine et géochimie; Méthodologie analytique; Substances nutritives; Métaux lourds; Composés organiques (hydrocarbures halogénés, hydrocarbures pétroliers, etc.); Radioactivité; Eaux; Matière en suspension; Biomasse; Géologie marine et géophysique; Topographie et morphologie; Sédimentologie; Formation des côtes et franges côtières; Sismologie; Biologie marine et écologie; Phytoplancton; Zooplankton; Benthos; Poissons; Algues; Eutrophisation; Floraison du plancton; Mollusques; Crustacés; Mammifères marins; Physiologie marine; Biochimie marine; Microbiologie marine; Toxicologie; Taxinomie et systématiques; Etudes des communautés et populations; Pêches; Aquaculture; Météorologie marine et climatologie; Gestion de l'environnement marin; Surveillance continue et/ou évaluation; Gestion des zones côtières; Pollution; Evaluation de l'impact sur l'environnement; Education relative à l'environnement; Assistance marine; Technologie marine; Télédétection; Acquisition des données par télémétrie; Politique pour les océans/Droit de la Mer; Prévision et remèdes aux catastrophes; Gestion des ressources; Ressources minérales; Le Système mondial d'observation du niveau de la mer (GLOSS), qui comprend un réseau mondial de marégraphes et des systèmes d'échange et de traitement des données de niveau moyen de la mer; Le Système d'échange international des données et de l'information océanographiques (IODE) qui a pour objectif principal de rassembler, traiter, archiver, retrouver et échanger des données océanographiques sur le plan mondial; Le Système d'accès aux informations des données sur le milieu marin (MEDI); Le Groupe international de coordination pour le Système d'alerte aux tsunamis dans le Pacifique (ITSU)

Environnements Zones côtières; Mangroves; Environnement pélagique; Environnement benthique; Rivières; Zones littorales; Lagunes; Récifs coralliens/atolls; Iles; Estuaires

Zones géographiques Mer Méditerranée; Mer Adriatique; Mer Egée; Mer d'Alboran; Bassin algéro-provençal; Mer des Baléares; Dardanelles; Golfe du Lion; Golfe de Sirte; Mer Ionienne; Mer Levantine; Mer de Ligurie; Détrict de Sicile; Détrict de Gibraltar; Détrict d'Otrante; Mer Tyrrhénienne; Océan Atlantique; Bosphore; Mer de Marmara; Mer Noire; Mer Rouge; Canal de Suez

Programmes/projets de recherche

- L'océanologie et les ressources vivantes (OSLR)
- L'océanologie et les ressources non vivantes (OSNLR)
- Etude mondiale de la pollution dans le milieu marin (GIPME) qui comprend la recherche en pollution marine, les études de base et le développement d'un système mondial de surveillance de la pollution marine
- Cartographie des océans: La Carte bathymétrique internationale de la Méditerranée (IBCM) a été achevée et imprimée en 1981

Programmes de recherche menés en coopération

- Programme mondial de recherches sur le climat (PMRC) avec l'OMM et le CIUS
- Système mondial d'observation de l'océan (GOOS) en coopération avec l'OMM
- Système mondial intégré des services océaniques (SMISO) en coopération avec la COI et l'OMM
- Programme mixte FAO/COI/ONU (OETB) chargé d'étudier le Système d'information sur les sciences aquatiques et la pêche (ASFIS)

Programmes de formation/enseignement

- La Commission poursuit son action dans le domaine de la formation, l'enseignement et l'assistance mutuelle. Elle a adapté les structures des pays en développement dans le domaine des sciences de la mer
- Océanographie côtière et mouvements des eaux

Personnel Scientifique 25; Technique 20; Autre 10

Moyens d'information

Publications Rapports annuels/revues; Rapports de réunions de travail; Manuels et guides; Séries techniques

Bibliothécaire Mme Nicole Levy

Ordinateurs Divers **Applications** Comptabilité, planification financière; Communications; Gestion de bases de données; Publication assistée par ordinateur; Enseignement; Graphiques;

Bibliothèque/documentation; Mathématique; Gestion de projet; Statistiques; Traitement de texte

Echange de données Divers

Ecole Normale Supérieure Institut de Biogéochimie Marine Unité Associée au CNRS 386 (ENS-IBM)

1 Rue Maurice Arnoux
Montrouge 92120
FRANCE

Téléphone (33) 1 46571286 Ext.612
Télifax (33) 1 46570497

FRANCE

Directeur Dr Jean-Marie MARTIN, Directeur

Organisme gouvernemental, national créé en 1986. Langues de travail: Français; Anglais

Nature des activités Recherche; Laboratoire; Enseignement (universitaire)

Objectifs/mandat Recherches sur le comportement biogéochimique des oligoéléments stables et radioactifs en milieu estuaire et côtier; Flux advectifs à l'océan, zone côtière, cycles globaux

Domaines ou disciplines scientifiques/activités Chimie marine et géochimie; Méthodologie analytique; Métaux lourds; Radioactivité; Dépôts; Eaux; Matière en suspension; Etudes biogéochimiques en Méditerranée occidentale; Recherches géochimiques sur l'environnement arctique (Mer de Laptev et estuaire de la Lena); Apports atmosphériques; Modélisation

Environnements Eaux saumâtres; Zones côtières; Rivières; Zones littorales; Estuaires

Zones géographiques Mer Méditerranée; Mer Adriatique; Golfe du Lion; Détrict de Sicile; Détrict de Gibraltar; Océan Atlantique

Programmes de recherche menés en coopération

- Programme EROS 2000 (European River Ocean System)
- Programme SPASIBA (Scientific Programme on Arctic and Siberian Aquatorium)
- GDR ICO (Groupement de Recherches Interaction Continent Océan)
- Programme francoyougoslave sur l'estuaire de Krka

Programmes de formation/enseignement

- 8 thèses en cours

Personnel Scientifique 20; Technique 7; Autre 4

Moyens d'information

Publications Rapports annuels/revues; Rapports techniques

Bibliothèque 500 volumes/tirés à part; 32 périodiques

Ordinateurs Divers **Applications** Comptabilité, planification financière; Communications; Publication assistée par ordinateur; Graphiques; Modélisation; Scientifique; Statistiques; Traitement de texte **Echange de données** Communication par le réseau EARN

Installations 750 m²

Laboratoires 250 m²; climatisés **Equipements de laboratoire** Spectromètre alpha et gamma; INAA; AAS; Polarographie; Autoanalyseur; Cytomètre de flux; Microcalorimétrie; SSA; MEB

Possibilités d'accueil pour 5 scientifiques extérieurs; 5 étudiants **Installations pour conférences/séminaires** pour 20-30 participants **Logement** disponible

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Brun-Cottan , Jean-Claude (M)	Doctorat	Chargé de Recherche	Géochimie marine; Modélisation; Sédimentologie
Chevalet , Jean (M)	Doctorat	Directeur de Recherche	Chimie marine; Electrochimie
Elbaz-Poulichet , Françoise (Mme)	Doctorat	Chargée de Recherche	Géochimie marine; Métaux traces
Garnier , Jean-Marie (M)	Doctorat	Chargé de Recherche	Géochimie marine; Interaction solide-liquide
Guieu , Cécile (Mme)	Doctorat	Ingénieur d'Etudes	Geochimie marine; Apports atmosphériques
Lepesteur , Muriel (Mme)	DEA		Biologie marine
Li , Zhanhua (Mme)	DEA		Hydrodynamique; Modélisation
Loye-Pilot , Marie-Dominique (Mme)		Maître de Conférences	Géochimie marine; Apports atmosphériques
Martin , Jean-Marie (M)	Doctorat	Directeur de Recherche	Géochimie marine; Cycles biogéochimiques; Eléments traces
Moreira-Turcq , Patricia (Mme)	DEA	Attachée de Recherche	Géochimie marine
Morelli , Jacques (M)	Doctorat	Chargé de Recherche	Apports atmosphériques
Mouchel , Jean-Marie (M)	Doctorat	Chargé de Recherche	Géochimie marine; Interaction solides-liquides; Modélisation
Nguyen , Dan (M)		Maître de Conférences	Hydrodynamique; Modélisation
Rosset , Marie (Mme)		Maître de Conférences	Biologie marine
Sioud , Khaled (M)	DEA	Stagiaire	Géochimie marine
Thomas , Alain J (M)		Maître de Conférences	Géochimie marine; Radionuclides artificiels
Yoon , Yi Yong (M)	DEA	Assistant	Géochimie marine

**Institut Français de Recherche et d'Exploitation de la Mer
Département Milieu et Ressources (IFREMER)**

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Boîte Postale 1049
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FRANCE

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Télex 711196
Télifax (33) 40 374073

FRANCE

Directeur M. Claude J L ALZIEU, Directeur de Département

Organisme gouvernemental, national créé en 1985. Langues de travail: Français

Nature des activités Recherche; Information, vulgarisation

Objectifs/mandat Promouvoir et développer les recherches nécessaires à l'exploitation et la protection des ressources marines

Domaines ou disciplines scientifiques/activités Chimie marine et géochimie; Méthodologie analytique; Métaux lourds; Composés organiques (hydrocarbures halogénés, hydrocarbures pétroliers, etc.); Dépôts; Matière en suspension; Biomasse; Biologie marine et écologie; Phytoplancton; Floraison du plancton; Mollusques; Crustacés; Biochimie marine; Toxicologie; Surveillance continue et/ou évaluation; Pollution; Evaluation de l'impact sur l'environnement;

Environnements Eaux saumâtres; Zones côtières; Zones littorales; Estuaires

Zones géographiques Mer Méditerranée; Golfe du Lion; Océan Atlantique; Manche

Programmes/projets de recherche

- Efflorescences phytoplanctoniques toxiques
- Surveillance (contamination chimique-effets biologiques)
- Contamination par le cadmium (géochimie diagénèse précoce)
- Spéciation du mercure en milieu estuarien
- Flux de contaminants (pesticides, métaux)

Programmes de recherche menés en coopération

- MAST, Communauté Européenne: Flux de métaux en Manche
- PNUE/MED POL: Flux de pesticides (triazines) en Méditerranée

Personnel Scientifique 12; Technique 14; Autre 3

Moyens d'information

Publications Participation aux revues IFREMER: "Equinoxe", "Aquatic Living Resources"; Rapports techniques

Bibliothèque 37000 volumes/tirés à part; 980 périodiques **Programmes/projets de coopération**
Bibliothèques d'universités, du CNRS et de l'étranger **Bibliothécaire**
Mme Michèle l'Excellent

Ordinateurs 12 micro-ordinateurs **Applications** Comptabilité, planification financière;
Communications; Gestion de bases de données; Graphiques; Scientifique; Statistiques; Traitement de texte

Installations 1400 m²

FRANCE

Laboratoires 1300 m²; climatisés **Equipements de laboratoire** Spectrophotomètres d'absorption atomique; Chromatographes en phase gazeuse; Chromatographes liquide haute pression; Salles de culture; Microscopes; Coulter counter; Analyse d'image **Espèces entretenues** Prorocentrum lima; Prorocentrum micans; Alexandrium tamarensa; A. minutum; Dunaliella tertiolecta; Tetraselmis suecica; Skeletonema costatum; Chaetoceros gracile; Phaeodactylum tricornutum; Tigriopus brevicornis

Bateaux/embarcations de recherche 1 embarcation légère; Navires IFREMER

Possibilités d'accueil pour 5 étudiants **Installations pour conférences/séminaires** pour 200 personnes

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Alzieu, Claude J L (M)		Directeur	
Boutier, Bernard (M)	Ingénieur	Chercheur	Agronomie; Géochimie; Métaux; Sédiments
Chiffolleau, Jean-François (M)	DEST	Chercheur	Productions agroalimentaires; Géochimie; Métaux
Cossa, Daniel (M)	Doctorat	Chercheur	Géochimie; Mercure (spéciation)
Gonzales, Jean-Louis (M)	DEA	Boursier	Diagénèse des métaux; Cadmium; Mercure
Michel, Pierre (M)	Ingénieur	Chef de Laboratoire	Chimie; Géochimie; Arsenic; Organoétains
Thibaud, Yves (M)	Doctorat	Chercheur	Contamination par les métaux; Mercure
Tronczynski, Jacek (M)	Doctorat	Chercheur	Géochimie; Polluants organiques

Institut Français de Recherche pour l'Exploitation de la Mer (IFREMER)

155 Rue Jean-Jacques Rousseau
Issy les Moulineaux 92138 Cedex
FRANCE

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Télex 631912
Télifax (33) 1 46482248

Directeur M. Pierre PAPON, Président/Directeur Général

Organisme gouvernemental, national créé en 1984. Langues de travail: Français

FRANCE

Nature des activités Recherche

Objectifs/mandat Recherche fondamentale et appliquée; Développement technologique et industriel appliqués à la mise en valeur et à l'exploitation des océans

Domaines ou disciplines scientifiques/activités Océanographie physique; Instruments et méthodes; Masses d'eau et circulation; Courants et dispersion; Interaction air/mer; Vagues, marées, houles et niveau de la mer; Modélisation; Chimie marine et géochimie; Méthodologie analytique; Substances nutritives; Métaux lourds; Composés organiques (hydrocarbures halogénés, hydrocarbures pétroliers, etc.); Dépôts; Eaux; Matière en suspension; Biomasse; Géologie marine et géophysique; Topographie et morphologie; Sédimentologie; Sismologie; Biologie marine et écologie; Phytoplancton; Zooplancton; Benthos; Poissons; Algues; Eutrophisation; Floraison du plancton; Mollusques; Crustacés; Physiologie marine; Biochimie marine; Microbiologie marine; Parasitologie; Pathologie des espèces marines; Toxicologie; Productivité; Etudes des communautés et populations; Pêches; Aquaculture; Gestion de l'environnement marin; Surveillance continue et/ou évaluation; Gestion des zones côtières; Pollution; Evaluation de l'impact sur l'environnement; Assistance marine; Technologie marine; Télédétection; Politique pour les océans/Droit de la Mer; Gestion des ressources; Ressources minérales

Environnements Zones côtières; Environnement pélagique; Environnement benthique; Zones littorales; Lagunes; Estuaires

Zones géographiques Mer Méditerranée; Golfe du Lion; Océan Atlantique; Océan Pacifique

Programmes/projets de recherche

- Océanographie physique et dynamique
- Océanographie biologique pélagique et benthique
- Géosciences marines
- Environnement littoral
- Aquaculture et pêche
- Technologie marine
- Télédétection

Programmes de recherche menés en coopération

- Projet HALIOS lancé en 1988 dans le cadre de la procédure EUREKA
- Programmes pluriannuels en coopération internationale et européenne

Programmes de formation/enseignement

- Cours de formation relatifs à l'introduction de programmes de l'Institut
- Formation aux nouvelles technologies et nouveaux programmes pour le personnel

Personnel Scientifique 591; Technique 625

Moyens d'information

Publications Rapports annuels/revues; Rapports techniques

Bibliothèque 40000 volumes/tirés à part; 400 périodiques **Programmes/projets de coopération**
Divers **Bibliothécaire** M. R Piboubes; Mme M L'Excellent

Ordinateurs Ordinateurs (Bull DSP/7000, CDC 992); Réseau de station de travail SUN
Applications Comptabilité, planification financière; Communications; Gestion de bases de données; Publication assistée par ordinateur; Génie maritime; Système d'information géographique ("GIS"); Graphiques; Bibliothèque/documentation; Cartes; Modélisation; Télématic; Gestion de projet; Scientifique; Statistiques; Traitement de texte **Echange de données** Divers

Installations

Equipements de laboratoire Matériels de laboratoire et de mesure à la mer

Bateaux/embarcations de recherche 9 navires dont "L'Atalante", "Nereis" et "Nop"; 2 submersibles

Installations pour conférences/séminaires disponibles

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Cailliau , Etienne (M)	Ingénieur	Directeur des Recherches Océaniques	Océanographie hauturière et côtière
De Loof , Jean-Pierre (M)	Ingénieur	Directeur de l'Ingénierie, de la Technologie et de l'Informatique	Développements technologiques; Instrumentation scientifique
Fontana , André (M)	Doctorat	Directeur des Ressources Vivantes	Océanographie biologique; Pêche et aquaculture
Girard , Dominique (M)	Ingénieur	Directeur des Opérations et Moyens Navals	
Grizel , Henri (M)	Doctorat	Directeur d'Objectifs	Substances et biotechnologies marines; Valorisation des substances et biotechnologies marines
Herrouin , Guy (M)	Ingénieur	Directeur d'Objectifs	Intervention sous marine
Jarmache , Elie (M)	Doctorat	Directeur d'Objectifs	Etudes juridiques et socio-économie de la mer
Laubier , Lucien (M)	Doctorat	Directeur	Relations et coopération internationales
Madelain , François (M)	Doctorat	Directeur d'Objectifs	Environnement et aménagement littoral
Massoud , Zaher (M)	Doctorat	Directeur Scientifique	
Merckelbagh , Alain (M)	Ingénieur	Directeur de l'Environnement et de l'Aménagement Littoral	Océanographie côtière
Papon , Pierre (M)		President/Directeur Général	
Voituriez , Bruno (M)	Doctorat	Directeur d'Objectifs	Programmes internationaux géosphères

FRANCE

Institut Français de Recherche pour l'Exploitation de la Mer Service "Environnement Méditerranéen" Centre de Toulon-La-Seyne (IFREMER)

Zone Portuaire de Brégallion
Boîte Postale 330
La Seyne-sur-Mer 83507
FRANCE

Téléphone (33) 94 304800
(33) 94 304902
Télex 400662
Télifax (33) 94 301372

Directeur M. Louis Alexandre ROMANA, Chercheur Scientifique

Organisme gouvernemental, national créé en 1985. Langues de travail: Français; Anglais; Italien; Espagnol

Nature des activités Recherche; Laboratoire; Information, vulgarisation

Objectifs/mandat Recherche finalisée pour l'acquisition de connaissances de base et le développement d'outils scientifiques nécessaires à l'élaboration des réponses aux problèmes d'environnement

Domaines ou disciplines scientifiques/activités Océanographie physique; Masses d'eau et circulation; Courants et dispersion; Modélisation; Chimie marine et géochimie; Dépôts; Eaux; Matière en suspension; Biomasse; Topographie et morphologie; Sédimentologie; Eutrophisation; Mollusques; Surveillance continue et/ou évaluation; Gestion des zones côtières; Evaluation de l'impact sur l'environnement; Technologie marine; Politique de développement et planification; Prévision et remèdes aux catastrophes; Gestion des ressources; Aménagement du territoire; Suivi et surveillance de sites de rejet de grandes métropoles; Impact des rejets urbains dans le cadre de projets d'assainissement; Qualité des eaux lagunaires (eutrophisation-prolifération végétales)

Environnements Eaux saumâtres; Zones côtières; Environnement pélagique; Environnement benthique; Zones littorales; Iles; Estuaires

Zones géographiques Mer Méditerranée; Golfe du Lion; Océan Atlantique

Programmes/projets de recherche

- Programme pluridisciplinaire appliqué à la problématique méditerranéenne des dépôts particulaires contaminés issus de grandes métropoles et d'élevages conchylicoles intensifs
- Modélisation de la qualité de l'eau (en estuaire notamment)

Programmes de recherche menés en coopération

- Italie/Espagne/Grèce/Tunisie: Toxicologie
- Modélisation hydrodynamique
- Pollution marine

Programmes de formation/enseignement

- Cours-DUST Environnement/DEA Génie Environnement Accueil de Stagiaires: Sujets divers
- Thésards: Boursiers en modélisation mathématique et qualité des eaux

Personnel Scientifique 8; Technique 4; Autre 4

Moyens d'information

Publications Rapport annuel; Revue "Equinoxe"; Nombreuses publications scientifiques et techniques. Thèmes principaux: Rejets urbains, lagunes côtières, grands estuaires

Bibliothèque 150 volumes/tirés à part; 4 périodiques **Programmes/projets de coopération**
Centre de documentation centralisé IFREMER de Brest **Bibliothécaire** Mme Bernadette Berthe

Ordinateurs 1 ordinateur scientifique CYBER; Réseau de stations de travail SUN; Plusieurs PC

Applications Comptabilité, planification financière; Gestion de bases de données; Graphiques; Bibliothèque/documentation; Mathématique; Cartes; Modélisation; Scientifique; Statistiques;

Traitement de texte **Echange de données** Communications par le réseau TRANSPAC; Bandes (1600 BPI); Disquettes DOS

Installations 300 m²

Laboratoires 400 m² **Equipements de laboratoire** Analyseur CNS; Fluorimètre; Mesure DBO; Salinomètre BECKMAN; Sondes multiparamètres; Station météorologique ANDERAA; Turbidimètre; Coulter-counter; Tamiseuse; Calcimètre BERNARD; Courantomètres; Chaînes de thermistances; Pièges à sédiment

Bateaux/embarcations de recherche Bateaux de toutes tailles pour investigations de différents milieux et outils sous-marins

Possibilités d'accueil pour 2 scientifiques extérieurs; 2 étudiants **Installations pour conférences/séminaires** pour 30 participants

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Arnal, Olivier (M)	DEA	Chercheur	Océanographie environnement; Qualité du milieu marin; Pollution; Effets biologiques
Denis, Jacques (M)		Ingénieur	Pollution marine; Technologie de lutte
Desious-Paoli, Jean-Marc (M)	Thèse 3ème cycle	Chercheur	Océanographie biologique et environnement; Qualité du milieu marin; Ecophysiology
Landrein, Sonia (Mme)	Thèse Université	Chercheur	Océanographie biologique et environnement; Hydrobiologie
Loarer, Ronan (M)	DEA	Chercheur	Littoral; Sédimentologie
Pichot, Paul (M)	Licence	Chercheur	Océanographie biologique et environnement; Qualité du milieu marin

FRANCE

Nom	Diplôme	Fonction	Spécialité
Romana , Louis Alexandre (M)	Doctorat	Chercheur/Directeur	Océanographie environnement; Protection et gestion de l'environnement marin côtier; Modélisation
Thouvenin , Bénédicte (Mme)	Thèse 3ème cycle	Chercheur	Océanographie physique et qualité de l'eau; Modélisation hydrodynamique et qualité de l'eau
Tournier , Henri (M)	Licence	Chercheur	Océanographie biologique et environnement; Hydrobiologie

Institut Français du Pétrole (IFP)

1 et 4, Avenue de Bois Préau
 Boîte Postale 311
 Rueil-Malmaison 92506
 FRANCE

Téléphone (33) 1 47490214
Télex IFP A 203050 F
Télifax (33) 1 47490411

Directeur M. Pierre JACQUARD, Directeur Général

Organisme para-publique créé en 1944. Langues de travail: Français

Nature des activités Recherche; Enseignement (universitaire)

Objectifs/mandat Recherches et études pour le développement des connaissances scientifiques et techniques industrielles concernant le pétrole, ses dérivés et substituts; Documentation des pouvoirs publics, des scientifiques et des entreprises sur ces connaissances et techniques

Domaines ou disciplines scientifiques/activités Chimie marine et géochimie; Méthodologie analytique; Métaux lourds; Composés organiques (hydrocarbures halogènes, hydrocarbures pétroliers, etc.); Dépôts; Matière en suspension; Géologie marine et géophysique; Sédimentologie; Sismologie; Télédétection; Ressources énergétiques; Assistance au CEDRE (Centre de Documentation de Recherche et d'Expérimentations sur les pollutions accidentelles des eaux); Mise à disposition de matériel d'analyse pour contrôle des pollutions marines et continentales; Assistance aux Pouvoirs Publics (conseils, expertises)

Programmes/projets de recherche

- Prévention de la pollution (épuration des effluents, moteurs propres, etc.)
- Restauration du milieu pollué (dispersants, produits tensio-actifs)

Programmes de recherche menés en coopération

- Conventions pluriannuelles bilatérales, associations à partenariat multiple, consortiums scientifiques avec de nombreux pays d'Amérique Latine et du Nord, d'Asie du Sud-Est et du Moyen-Orient
- Projets multilatéraux soutenus par la CEE

Programmes de formation/enseignement

- Formation d'ingénieurs dans le cadre de l'Ecole nationale Supérieure du Pétrole, formation permanente et stages dans les directions de recherche

Personnel Scientifique 6; Technique 15; Autre 4

Moyens d'information

Publications Revue de l'IFP; "Profils IFP"; "Cedigaz News Report"; "Le gaz naturel dans le monde"; Livres, thèses et actes de colloques publics chaque année par les éditions Technio de l'IFP

Bibliothèque 10000 volumes/tirés à part; 100 périodiques **Programmes/projets de coopération**
Divers **Bibliothécaire** Mme Anne Girard

Ordinateurs Ordinateur DEC Vax Cray **Applications** Comptabilité, planification financière; Enseignement; Bibliothèque/documentation; Mathématique; Modélisation; Gestion de projet; Scientifique; Traitement de texte

Installations

Installations pour conférences/séminaires disponibles

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Bratu, Christian (M)	Ingénieur	Directeur de Recherche	Production en mer; systèmes polyphasiques
Fail, Jean-Pierre (M)	Ingénieur Civil des Mines	Directeur de Division	Géophysique; Sismique marine
Jacquard, Pierre (M)		Directeur Général	
Molin, Bernard (M)	Docteur Ingénieur	Ingénieur de recherche principal	Hydrodynamique navale
Montadert, Lucien (M)	Ingénieur ENSPM	Directeur Exploration	Géologie marine
Pelet, Régis (M)	Ingénieur Civil des Mines	Conseiller Scientifique	Géochimie organique marine

FRANCE

Institut National de la Santé et de la Recherche Médicale "Mer et Santé" Unité Associée au CNRS 303 (INSERM)

La Darse
Boîte Postale 3
Villefranche-sur-Mer 06230
FRANCE

Téléphone (33) 93 763870
Télifax (33) 93 763877

Directeur Professeur Simone PUISEUX-DAO, Directeur Unité INSERM 303

Organisme gouvernemental, national. Langues de travail: Français

Nature des activités Recherche; Enseignement (universitaire)

Objectifs/mandat Recherche en rapport avec la santé humaine

Domaines ou disciplines scientifiques/activités Métaux lourds; Phytoplancton; Zooplancton; Poissons; Algues; Mollusques; Biochimie marine; Microbiologie marine; Toxicologie; Pollution; Toxines marines; Polluants minéraux en milieu marin; Microorganismes pathogènes en milieu marin

Environnements Zones côtières; Environnement pélagique; Environnement benthique; Zones littorales; Estuaires

Zones géographiques Mer Méditerranée; Mer de Ligurie; Mer Tyrrhénienne; Océan Atlantique

Programmes/projets de recherche

- Thèmes toxicologiques et écotoxicologiques: Développement de nouveaux antifongiques (agrochimie, aquaculture, santé humaine), anticancéreux, immunomodulateurs
- Participation aux programmes nationaux et internationaux sur les phycotoxines (épidémiologie, mode d'action des toxines)
- Participation à des campagnes en mer soit pour la récolte de nouveaux producteurs de substances actives, soit pour des études "in situ" sur la pollution (recherche de marqueurs de stress toxique)
- Thèmes microbiologie marine: Connaissance des mécanismes de résistance des bactéries pathogènes dans l'environnement marin. Amélioration des méthodes de détection et dénombrement dans les eaux et coquillages par méthodes moléculaires

Programmes de recherche menés en coopération

- UA-CNRS 651/Université de Nice: Modèles toxicologiques: cytotoxicité, embryotoxicité (oursin, algues, cellules animales en culture) et promotion des cancers (poisson)

Programmes de formation/enseignement

- DEA de Toxicologie option "Environnement" à l'Université Paris 7
- DEA d'Océanologie de l'Université de Marseille

Personnel Scientifique 11; Technique 4; Autre 3

Moyens d'information

Publications Rapports annuels/revues; Rapports techniques

Bibliothèque 15 périodiques **Programmes/projets de coopération** Bibliothèque Université de Nice; Observatoire Océanologique de Villefranche/Mer; Musée de Monaco; INIST CNRS (Plan National)

Ordinateurs Divers **Applications** Comptabilité, planification financière; Gestion de bases de données; Publication assistée par ordinateur; Graphiques; Statistiques; Traitement de texte

Installations 485 m²

Equipements de laboratoire Analyse chimique: HPLC, AAS, FAAS, DPASV; Centrifugeuses réfrigérées; Ultracentrifugeuse; Hottes à flux laminaires; Etuves régulées; Four microondes programmable; Polarographe; Spectroscope d'absorption atomique; Matériel de plongée **Espèces entretenues** 60 souches de phytoplancton marin en culture (algorithme); Cellules animales (fibroblastes BHK, 3T3); Bactéries marines et entériques

Bateaux/embarcations de recherche Utilisation possible du N.O. "Korotneff" de l'Observatoire Océanologique de Villefranche/Mer

Possibilités d'accueil pour 5 scientifiques extérieurs; 5 étudiants **Logement** Dans le cadre de l'Observatoire Océanologique de Villefranche/Mer

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Dubreuil , Alain (M)	DEA	Chargé de Recherche	Biologie cellulaire; Toxicologie
Durand-Clément , Monique (Mme)	Thèse 3ème cycle	Chargée de Recherche	Toxines marines; Toxicologie
Flatau , Gilles (M)	Doctorat	Chargé de Recherche	Microbiologie; Bactériologie marine
Gauthier , Michel (M)	Doctorat	Directeur de Recherche	Microbiologie; Bactériologie marine
Gnassia-Barelli , Mauricette (Mme)	Doctorat 3ème cycle	Chargée de Recherche	Polluants minéraux; Toxicologie; Pollution; Environnement
Mallea , Monique (Mme)	Doctorat	Chargée de Recherche	Biologie; Mycologie
Munro , Patrick (M)	Doctorat	Chargé de Recherche	Microbiologie; Bactériologie marine
Pesando , Danielle (Mme)	Doctorat	Chargée de Recherche	Biochimie; Toxicologie marine
Pietri , Chantal (Mme)	Thèse Université	Chargée de Recherche	Virologie; Virologie marine
Puiseux-Dao , Simone (Mme)	Professeur	Directeur de l'Unité 303	Toxicologie
Roméo , Michèle (Mme)	Doctorat	Chargée de Recherche	Polluants minéraux; Toxicologie; Pollution; Environnement

FRANCE

Ministère de l'Environnement Laboratoire Régional du Ministère de la Santé Laboratoire Municipal

6 Avenue François Cuzin
Toulon 83000
FRANCE

Téléphone (33) 94 363230

Directeur Dr Sylvie CAMPENIO, Directeur

Organisme gouvernemental, local créé en 1889. Langues de travail: Français

Nature des activités Laboratoire

Objectifs/mandat Analyse de l'eau des divers milieux aquatiques

Domaines ou disciplines scientifiques/activités Métaux lourds; Composés organiques (hydrocarbures halogénés, hydrocarbures pétroliers, etc.); Eaux; Matière en suspension; Microbiologie marine; Surveillance continue et/ou évaluation; Pollution; Loisirs/tourisme; Essentiellement d'analyses d'eau, qu'il s'agisse: D'eaux douces destinées à la consommation humaine; D'eaux "récréatives": rivières, lacs, piscines; D'eau de mer-contrôle de la salubrité des zones de baignade; De rejets: stations d'épuration, rejets industriels; Eaux thermales-eaux minérales

Environnements Lacs; Zones côtières; Rivières; Zones littorales; Iles

Zones géographiques Mer Méditerranée

Programmes/projets de recherche

- Essai de mise en place d'un protocole d'analyse pour les eaux de mer (Commission "eau"-Bruxelles)

Programmes de recherche menés en coopération

- Participation à différentes commissions-de l'AFNOR en particulier-sur les Legionella
- Etudes menées au sein de l'association des Directeurs de Laboratoires Régionaux
- Etudes menées par le Ministère de la Santé

Personnel Scientifique 7; Technique 7; Autre 17

Moyens d'information

Publications Rapports annuels aux organismes de tutelle

Bibliothèque 300 volumes/tirés à part; 30 périodiques **Programmes/projets de coopération**
Réseau OREDIC

Installations 1000 m²

Laboratoires climatisés

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Augras , Gérard (M)	Doctorat	Assistant	Chimie
Belaude , Bérengère (Mme)	Doctorat	Assistant	Biologie; Bactériologie
Binet , Françoise (Mme)		Assistante	Bactériologie
Campenio , Sylvie (Mme)	Doctorat	Directeur	
Fretton , Robert (M)	Maîtrise	Assistant	Bactériologie
Medail , André (M)	Doctorat	Chef de Travaux	Bactériologie

**Muséum National d'Histoire Naturelle
Centre National d'Etude des Mammifères Marins
Département Outre-Mer (CNEMM-DOM)**

55 Rue de Buffon
Paris 75005
FRANCE

Téléphone (33) 1 40793298
Télex 202641 MUSNAHN F
Télifax (33) 1 40793484

Directeur Professeur Daniel ROBINEAU, Directeur

Organisme gouvernemental, national créé en 1982. Langues de travail: Français

Nature des activités Recherche; Formation spécialisée

Objectifs/mandat Etude des mammifères marins

Domaines ou disciplines scientifiques/activités Mammifères marins; Gestion des ressources;

Environnements Zones côtières; Environnement pélagique

Zones géographiques Bassin algéro-provençal; Océan Indien

Programmes/projets de recherche

- Recherches sur les cétacés de l'océan Indien
- Etude du tissu osseux des mammifères marins

Programmes de recherche menés en coopération

- Université d'Oran: Recherches sur les mammifères marins des côtes d'Algérie

Personnel Scientifique 2

FRANCE

Moyens d'information

Bibliothèque 500 volumes/tirés à part; 4 périodiques **Programmes/projets de coopération**
Bibliothèque Central du Muséum National d'Histoire Naturelle

Ordinateurs 2 PC **Applications** Gestion de bases de données; Scientifique; Traitement de texte

Installations 100 m²

Equipements de laboratoire Radiographie; Microtomes; Microscopes

Possibilités d'accueil pour 1 scientifique extérieur; 1 étudiant

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
De Buffrénil, Vivian (M)	Doctorat	Enseignant Chercheur	Tissu osseux des mammifères marins
Robineau, Daniel (M)	Doctorat	Directeur	Anatomie; Systématique; Biologie; Ecologie des mammifères marins

Muséum National d'Histoire Naturelle Ichthyologie Générale et Appliquée (MNHN-IGA)

43 Rue Cuvier
Paris 75231 Cedex 5
FRANCE

Téléphone (33) 1 4079
Télex 202641 MUSNAHN F
Télifax (33) 1 40793484
Courrier électr. (BITNET) HUREAURMNHN11

Directeur Professeur Roland BILLARD, Directeur du Laboratoire

Organisme gouvernemental, national créé en 1635. Langues de travail: Français

Nature des activités Recherche; Enseignement (universitaire); Information, vulgarisation

Objectifs/mandat Recherche dans les domaines suivants: le poisson dans les écosystèmes; le poisson dans l'évolution des vertébrés; le poisson comme ressource

Domaines ou disciplines scientifiques/activités Biologie marine et écologie; Zooplancton; Poissons; Taxinomie et systématiques; Etudes des communautés et populations; Pêches; Gestion de l'environnement marin; Conservation et/ou régénération des ressources naturelles; Gestion des ressources

FRANCE

Environnements Lacs; Eaux saumâtres; Zones côtières; Environnement pélagique; Environnement benthique; Rivières; Lagunes; Récifs coralliens/atolls; Iles

Zones géographiques Mer Méditerranée; Océan Atlantique; Antarctique

Programmes/projets de recherche

- Ecophases juvéniles et facteurs de l'environnement, structure des peuplements dans les systèmes fluviaux, dynamique des populations, systématique moléculaire, cytogénétique

Programmes de recherche menés en coopération

- Programmes de diversité génétique des poissons:
- PEDALO
- BIOMASS
- CCAMLR
- EPOS
- EASIZ
- ICOKER
- COPEC

Programmes de formation/enseignement

- DEA "Océanographie Biologique" de l'Université Paris 6
- "Evolution et Biodiversité chez les Métazoaires" (Université Paris &, Museum et Paris 11)

Personnel Scientifique 29; Technique 11

Moyens d'information

Publications "CYBIUM" ISSN 0399-0974; Revue Européenne d'Ictyologie (trimestrielle)

Bibliothèque 5000 volumes/tirés à part; 275 périodiques **Programmes/projets de coopération** Catalogue Collectif National (CCN); Catalogue Collectif du Muséum (en liaison avec la Bibliothèque Centrale); Catalogue Collectif International (OCLC) **Bibliothécaire**
Mme Françoise Nadot

Ordinateurs 9 micro-ordinateurs Apple Macintosh; 10 PC **Applications** Communications; Gestion de bases de données; Graphiques; Bibliothèque/documentation; Mathématique; Télématicque; Scientifique; Statistiques; Traitement de texte **Echange de données** Communication par le réseau BITNET

Installations 1000 m²

Laboratoires 600 m² **Equipements de laboratoire** Atelier de séquençage de gènes; Electrophorèse; Matériel pour cytogénétique; Matériel informatique **Aquariums** 7x4 m³ **Espèces entretenues** Cyprinus carpio

Possibilités d'accueil pour 3 scientifiques extérieurs; 3 étudiants **Installations pour conférences/séminaires** pour 15-20 participants

FRANCE

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Bataille-Benguigui, M C (Mme)	DEA	Assistante	Ethnologie des pêches; Pêches dans le Pacifique
Baumann, E (Mme)	DEA	Chargée de Recherche ORSTOM	Ethnosciences; Populations humaines et ressources
Billard, R (M)	Doctorat	Professeur/Directeur	Reproduction poissons eaux douces; Motilité des spermatozoïdes
Dingerkus, G (M)	PhD	Maître de Conférences	Hydrobiologie; Systématique des poissons d'eau douce
Duhamel, G (M)	Doctorat	Professeur/Sous-Directeur	Océanographie biologique; Dynamique des populations de poissons marins
Galgani, François (M)	Doctorat	Chercheur	Biochimie; Biomarqueurs; Biologie moléculaire; Ecotoxicologie
Geistdoerfer, A (Mme)	Doctorat	Chargée de Recherche au CNRS	Ethnosciences; Relations pêcheurs, poissons marins
Geistdoerfer, P (M)	Doctorat	Directeur de Recherche au CNRS	Océanographie biologique; Poissons des grandes profondeurs
Goy, J (Mme)	Doctorat 3ème cycle	Maître de Conférences	Océanographie biologique; Etude des méduses en Méditerranée
Hureau, J C (M)	Doctorat	Professeur/Sous-Directeur	Océanographie biologique; Systématique des poissons marins
Koubbi, P (M)	DEA	Allocataire de Recherche	Océanographie biologique; Ichtyoplancton
Lassus, Patrick (M)	Doctorat 3ème cycle	Chef de Laboratoire	Phytoplancton; Dinoflagellés toxiques
Le Baut, Claire (Mme)	Maîtrise	Chercheur	Phytoplancton; Biotoxines
Lecointre, G (M)	DEA	Assistant	Ichtyologie; Séquences de DNA chez les Perciformes
Meniger-Desoutter, M (Mme)	DEA	Assistante	Ichtyologie; Systématique des Soléidés
Morlaix, Martine (Mme)	DEA	Boursière	Phytoplancton; Dinoflagellés toxiques
Oberdorff, T (M)	DEA	Allocataire de Recherche	Hydrobiologie; Structure des peuplements de poissons d'eau douce
Rausch de Traubenberg, Catherine (Mme)	DEA	Boursière	Microbiologie; Phytoplancton; Biotoxines
Sevrin-Reyssac, J (Mme)	Doctorat	Chargée de Recherche au CNRS	Hydrobiologie; Influence des facteurs de l'environnement sur les peuplements de poissons

**Observatoire Océanologique de Banyuls-sur-Mer
Laboratoire Arago
Unité Associée au CNRS 117**

Banyuls-sur-Mer 66650
FRANCE

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Télifax (33) 68 881699

Directeur M. Alain GUILLE, Directeur

Organisme gouvernemental, national créé en 1882. Langues de travail: Français

Nature des activités Recherche; Laboratoire; Enseignement (universitaire)

Objectifs/mandat Enseignement, recherche et accueil en océanologie

Domaines ou disciplines scientifiques/activités Substances nutritives; Phytoplancton; Zooplankton; Benthos; Algues; Floraison du plancton; Mollusques; Crustacés; Biochimie marine; Microbiologie marine; Taxinomie et systématiques; Productivité; Etudes des communautés et populations; Evaluation de l'impact sur l'environnement; Océanographie biologique; Ecologie terrestre et marine; Biologie cellulaire et moléculaire

Environnements Eaux saumâtres; Zones côtières; Environnement pélagique; Environnement benthique; Zones littorales

Zones géographiques Mer Méditerranée; Mer d'Alboran; Mer des Baléares; Golfe du Lion; Mer de Ligurie; Océan Atlantique; Antarctique

Programmes/projets de recherche

- Processus biologiques dans les flux de matières océaniques
- Stratégies de reproduction et de dispersion des populations marines et terrestres
- Taxonomie, phylogénie et évolution
- Structure du génome, biologie du développement

Programmes de recherche menés en coopération

- JGOFS

Programmes de formation/enseignement

- DEA "Océanographie biologique", maîtrise

Personnel Scientifique 34; Technique 61; Autre 8

Moyens d'information

Publications Revue "Vie et Milieu" (trimestrielle); Faune marine des Pyrénées Orientales; Faune terrestre et d'eau douce des Pyrénées Orientales; Fascicules à thèmes; Suppléments périodiques

FRANCE

Bibliothèque 50000 volumes/tirés à part; 2100 périodiques **Programmes/projets de coopération** Bibliothèques universitaires ou spécialisées en France et à l'étranger **Bibliothécaire** Marie-Thérèse Panouse

Ordinateurs 30 micro-ordinateurs Apple Macintosh; 20 PC (PC-286, and PC-386); 4 imprimantes laser; 30 imprimantes (aiguilles et jet d'encre); 1 traceur A4; 2 numériseurs **Applications** Comptabilité, planification financière; Communications; Gestion de bases de données; Publication assistée par ordinateur; Enseignement; Graphiques; Bibliothèque/documentation; Mathématique; Modélisation; Scientifique; Statistiques; Traitement de texte **Echange de données** Communications par le réseau TRANSPAC

Installations 6820 m²

Laboratoires 1900 m² **Equipements de laboratoire** Cytofluorimètre Brücker ACR 1000; Autoanalyseur Technicon; Gaydyser tricarb; Ultramicrotomes; Cryo-ultramicrotome; Appareil à point critique; Métaliseur; Microscope électronique (Hitachi H600/3); Microscopes photoniques; Analyse d'image; HPLC; Electrophorèse; Chromatographie gaz; Spectrophotomètre; Spectrofluorimètre; Ultracentrifugeuses; Lyophilisateur; Compteur à scintillations liquide; Plongée: 2 professionnels, compresseur 220 bars **Aquariums** 36 **Visiteurs** 60000 annuels **Espèces entretenues** 12 espèces de Diatomophyceae; 7 Dinophyceae; 4 Prymnesiophyceae; 2 Cryptophyceae; 3 Chlorophyceae; 2 Prasinophyceae; 1 Raphidophyceae; 1 Cyanophyceae; Amphioxus; Astropecten aranciacus; Marthasterias glacialis; Sphaerechinus granularis; Sepia officinalis; Octopus vulgaris; Eupolymnia Nebulosa

Bateaux/embarcations de recherche "Prof. George Petit", 20 m, 6 équipages et 16 scientifiques; "Néréïs", 12 m, 4 équipages et 12 scientifiques; "Ruffi II", 7 m, 2 équipages et 2 scientifiques; Equipement classique de navires océanographiques et chalut bennes, dragues, filets à plancton, bathysonde

Possibilités d'accueil pour 14 scientifiques extérieurs; 62 étudiants **Installations pour conférences/séminaires** pour 80 participants **Logement** pour 40-80 personnes

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Amouroux, J Michel (M)	Doctorat	CR-1	Benthos; Approche expérimentale et modélisation transferts dans écosystèmes littoraux
Bhaud, Michel (M)	Doctorat	DR-2	Plancton larvaire; Etude de l'environnement physique sur le recrutement du plancton larvaire
Bhaud, Yvonne (Mme)	Doctorat	CR-1	Biologie cellulaire; Cycle cellulaire des dinoflagellés
Binche, Françoise (Mme)	Doctorat	DR-2	Symbiose des acariens; Incendies de forêts
Bodiou, J Yves (M)	DEA	MC-1	Ecologie benthique; Meiobenthos copépodes harpacticoides

FRANCE

Nom	Diplôme	Fonction	Spécialité
Boletzky , Sigurd (M)	Doctorat	CR-1	Zoologie; Biologie; Biologie du développement des céphalopodes
Boutiere , Henri (M)	DES	MC-1	Biologie lagunaire; Ichthyologie
Cahet , Guy (M)	Doctorat	MC-1	Océanographie biologique; Ecologie microbienne; Biogéochimie
Coineau , Nicole (Mme)	Doctorat	DR-2	Faune intersticielle; Evolution phylogénie et écologie
De Bovee , Francis (M)	Doctorat	CR-1	Benthos; Méibenthos; Nématofaune
Dinet , Alain (M)	Doctorat	CR-1	Benthos; Biologie et écologie benthos abyssal, particulièrement de la méiofaune
Dinet , M Jose (Mme)	Doctorat	CR-1	Phytoplancton; Systématique et écologie du phytoplancton, groupes nemoplanctoniques
Duchene , J Claude (M)	Doctorat	CR-1	Benthos larvaire; Formation précoce des populations benthiques en relation avec l'environnement
Feral , J Pierre (M)	Doctorat	DR-2	Diversité biologique et évolution; Phylogénie moléculaire des invertébrés marins
Fiala , Aline (Mme)	Doctorat	MC-1	Benthos; Biologie et physiologie de la macrofaune abyssale
Fiala , Michel (M)	Doctorat	CR-1	Phytoplancton; Structure du phytoplancton océanique
Fons , Roger (M)	Doctorat	CR-1	Biologie évolutive; Ecologie parasitaire; Micromammifères
Garrigues , A Marie (Mme)	Doctorat	CR-1	Biologie cellulaire et moléculaire; Etude de la régulation du cycle cellulaire chez les eucaryotes
Giraud , M Madeleine (Mme)		MC-1	Etude du cytosquelette; Assemblages cristallins liquides du collagène
Gremare , Antoine (M)	Doctorat	CR-1	Réseau trophique benthique; Nutrition des dépositivores
Gros , Chantal (Mme)		CR-1	Phytoplancton; Voie de fixation du carbone par le phytoplancton et autres communautés végétales
Guille , Alain (M)		Directeur	
Jacques , Guy (M)		DR-1	Productivité primaire; Fonctionnement écosystème pélagique, notamment antarctique

FRANCE

Nom	Diplôme	Fonction	Spécialité
Knoepffler , Michèle (Mme)	Doctorat	MC-1	Phytobenthos; Ecologie des algues benthiques en milieu littoral
Lafargue , Françoise (Mme)		CR-1	
Lebaron , Philippe (M)	Doctorat	MC-2	Microbiologie
Marthy , Jurg (M)	Doctorat	CR-1	Biologie du développement; Embryologie cellulaire
Neveua , Jacques (M)	Doctorat	CR-1	Océanographie biologique; Phytoplankton/production primaire, pigments
Picard , André (M)	Doctorat	DR-2	Biologie cellulaire et moléculaire; Etude de la régulation du cycle cellulaire chez les eucaryotes
Prodon , Roger (M)	Doctorat	MC-1	Ecologie terrestre; Dynamique des écosystèmes terrestres
Razouls , Claude (M)	Doctorat	MC-1	Zooplancton; Systématique et répartition des copépodes
Razouls , Syzanne (Mme)	Doctorat	CR-1	Zooplancton; Métabolisme; Reproduction du zooplankton
Riaua , Catherine (Mme)	Doctorat	CR-1	Océanographie biologique; Microphytobenthos
Soyer , M Odile (Mme)	Doctorat	DR-1	Biologie cellulaire; Dinoflagellés
Trave , Joseph (M)		DR-1	Ecologie terrestre; Systématique des acariens

Observatoire Océanologique de Villefranche-sur-Mer

Organismes de rattachement: Université Pierre et Marie Curie (Paris VI)
(CNRS-INSU)

Boîte Postale 28
Villefranche-sur-Mer 06230
FRANCE

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Télifax (33) 93 763893

Directeur M. Jacques SOYER, Directeur

Organisme gouvernemental, national créé en 1885. Langues de travail: Français

Nature des activités Recherche; Enseignement (universitaire)

Objectifs/mandat Recherche et enseignement

Domaines ou disciplines scientifiques/activités Océanographie physique; Instruments et méthodes; Masses d'eau et circulation; Courants et dispersion; Modélisation; Chimie marine et géochimie; Méthodologie analytique; Substances nutritives; Métaux lourds; Matière en suspension; Biomasse; Géologie marine et géophysique; Topographie et morphologie; Sismologie; Biologie marine et écologie; Phytoplancton; Zooplankton; Benthos; Algues; Floraison du plancton; Mollusques; Crustacés; Biochimie marine; Toxicologie; Taxinomie et systématiques; Etudes des communautés et populations; Météorologie marine et climatologie; Surveillance continue et/ou évaluation; Télédétection; Etude de la marge continentale et de l'océan; Physique et chimie marines; Ecologie du plancton; Océanographie biochimique et écologie; Biologie cellulaire marine

Environnements Environnement pélagique; Environnement benthique; Zones littorales; Iles

Zones géographiques Mer Méditerranée; Mer d'Alboran; Bassin algéro-provençal; Golfe du Lion; Mer de Ligurie; Détrict de Sicile; Détrict de Gibraltar; Mer Tyrrhénienne; Océan Atlantique; Mer Rouge

Programmes/projets de recherche

- Etude de la marge continentale et de l'océan: Riftogénèse et mouvements de la lithosphère, marges transformantes, messages sédimentaires et morphologiques, convergence-collision-inversion structurale
- Physique et chimie marines: Cycle du CO₂ dans l'océan, chimie et biochimie organiques marines, modélisation des cycles géochimiques, rayonnement et océan, fronts géostrophiques, circulation et production primaire
- Ecologie du plancton: Structure de l'écosystème pélagique, distribution spatiale, régulation de la production, fluctuations à long terme, analyse des séries temporelles, modélisation
- Océanographie biochimique et écologie: Liaison océanographie biochimique et géochimie, analyse des causes biologiques de la variabilité et de la plasticité des écosystèmes marins; Flux interface eau-sédiment (marge continentale); Relations flux de matière et activités biologiques benthiques et pélagiques; Dynamique de populations-modélisation; Génétique des populations naturelles et exploitées; Cytogénétique, polymorphisme enzymatique et moléculaire des mollusques pélagiques et benthiques
- Biologie cellulaire marine: Biologie du développement (Ascidies, Oursins, Beroe)-fécondation et ségrégation ooplasmique-régulation des gènes au cours du développement; Motilité cellulaire (Dinoflagellés, Acanthaires); Evolution et phylogénie (ARN ribosomique)

Programmes de recherche menés en coopération

- ODP
- IST
- DBT
- ECORS
- JGOFS-France
- EROS 2000
- PNEDC
- PNDR
- EPOS

Programmes de formation/enseignement

- Enseignement lié aux programmes de l'université Pierre et Marie Curie (Paris 6). Deux stages inter-universitaires
- Biologie marine méditerranéenne
- Analyse de données en écologie
- Accueil de stages d'autres universités françaises et étrangères

FRANCE

Personnel Scientifique 50; Technique 71; Autre 30

Moyens d'information

Publications Recueil des publications effectuées par les chercheurs de l'Observatoire

Bibliothèque 7300 volumes/tirés à part; 250 périodiques **Programmes/projets de coopération**

Divers **Bibliothécaire** Mme Martine Fioroni

Ordinateurs Ordinateurs (HP 9000/835, HP 9000-370, 2 HP 1000, HP 9360); Plusieurs ordinateurs (IBM compatibles, Compaq, HP, et Apple Macintosh) **Applications** Comptabilité, planification financière; Enseignement; Bibliothèque/documentation; Modélisation; Scientifique; Traitement de texte

Installations 6910 m²

Equipements de laboratoire Equipement classique pour l'océanographie physique et chimique (sondes multiparamétriques, préleveurs d'échantillons); Matériel d'hydrologie et de prélèvements (bouteilles Niskin et Go Flow, Isaackid, filet pompe, filet multi-nappes Bioness, filets à plancton divers); Matériel de prélèvements de sédiment (carottier Kullenberg, bennes Flucha et Shipeck Techmation); Equipment sismique haute résolution-flûte, cannon à air pour sismique monotrace; Appareils spécialisés pour la mesure à diverses profondeurs des propriétés optiques et de la lumière solaire résiduelle; SHET (sonde poisson pour mesures en continu des paramètres chimiques et physiques); Service de microscopie électronique (cryofactures, coupes, ombrage rotatif, congélation rapide); Service de microscopie optique (fluorescence, vidéoscopie, traitement d'images); Laboratoire de manipulations des radio-isotopes (flux et marquage); Laboratoire d'électrophysiologie (microélectrodes, cellules perfusées, patch clamp); Laboratoire de biologie moléculaire (clonage, biochimie des protéines); Laboratoire de chimie pour la mesure du CO₂ et des éléments métalliques "traces" (spectrophomètres, absorption atomique, voltampérémètre); Salles d'analyses des sels nutritifs et des particules (chromatographes en phase gazeuse, autoanalysers Technicon, CHN, HPLC, spectrophotomètres, fluorimètres Turner, compteurs de particules HIAC et Coulter); Chambres froides et fraîches; Salles de cultures d'algues **Espèces entretenues** En fonction des recherches en cours

Bateaux/embarcations de recherche "Catherine Laurence", 21 m (dragage, carottage, études sismiques); "Korotneff", 19.7 m (hydrologie, pêche pélagique, bathysonde); "Sagitta", 10 m; "Velelle", 8 m; 1 Zodiac

Possibilités d'accueil pour 25 étudiants **Logement** Dortoir et 12 chambres

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Andersen , Valérie (Mme)	Doctorat 3ème cycle	Chargée de Recherche	Ecologie du plancton; Modélisation
Bellaïche , Gilbert (M)	Doctorat	Directeur de Recherche	Etude de la marge continentale
Beslier , Marie-Odile (Mme)	Doctorat	Chargée de Recherche	Etude de la marge continentale
Bethoux , Jean-Pierre (M)	Doctorat	Directeur de Recherche	Physique et chimie marines; Rayonnement et océan
Boillot , Annie (Mme)	Doctorat	Maître de Conférences	Biologie cellulaire marine; Développement
Boillot , Gilbert (M)	Doctorat	Professeur	Etude de la marge continentale

FRANCE

Nom	Diplôme	Fonction	Spécialité
Braconnot , Jean-Claude (M)	Doctorat	Chargé de Recherche	Ecologie du plancton
Bricaud , Annick (Mme)	Doctorat	Chargée de Recherche	Physique et chimie marines; Rayonnement et océan
Cachon , Monique (Mme)	Doctorat	Directeur de Recherche	Biologie cellulaire marine
Carlotti , François (M)	Doctorat	Chargé de Recherche	Ecologie du plancton; Modélisation
Carre , Claude (M)	Doctorat 3ème cycle	Maître de Conférence	Ecologie du plancton
Carre , Danièle (Mme)	Doctorat	Directeur de Recherche	Biologie cellulaire marine; Développement
Christen , Richard (M)	Doctorat	Directeur de Recherche	Biologie cellulaire marine; Evolution
Claustre , Hervé (M)	Doctorat	Chargé de Recherche	Physique et chimie marines
Copin-Montegut , Claire (Mme)	Doctorat	Chargée de Recherche	Physique et chimie marine; Cycle du CO ₂
Copin-Montegut , Gérard (M)	Doctorat	Maître de Conférences	Physique et chimie marines; Cycle géochimiques
Cosson , Jacky (M)	Doctorat	Chargé de Recherche	Biologie cellulaire marine; Motilité
Cuzin , Janine (Mme)	Doctorat	Maître de Conférence	Biologie; Physiologie; Ecologie; Crustacés
Dallot , Serge (M)	Doctorat 3ème cycle	Maître de Conférences	Ecologie du plancton marin
Deverchere , Jacques (M)	Doctorat	Maître de Conférences	Etude de la marge continentale
Droz , Laurence (Mme)	Doctorat	Chargée de Recherche	Etude marge continentale
Febvre , Colette (Mme)	Doctorat	Maître de Conférences	Biologie cellulaire marine; Motilité
Febvre , Jean (M)	Doctorat	Maître de Conférences	Biologie cellulaire marine; Motilité
Gostan , Jacques (M)	Doctorat	Directeur de Recherche	Ecologie du plancton marin
Goudeau , Henri (M)	Doctorat	Professeur	Biologie cellulaire marine; Développement
Goudeau , Marie (Mme)	Doctorat	Professeur	Biologie cellulaire marine; Développement
Guidi , Laurence (Mme)	Doctorat 3ème cycle	Chargée de Recherche	Benthologie
Huitorel , Philippe (M)	Doctorat	Chargé de Recherche	Biologie cellulaire marine; Motilité
Ibanez , Frédéric (M)	Doctorat	Maître de Conférences	Ecologie du plancton marin; Modélisation
Labat , Jean-Philippe (M)	Doctorat	Maître de Conférences	Crustacés; Modélisation
Laval , Philippe (M)	Doctorat	Chargé de Recherche	Ecologie du plancton marin
Lemoine , Marcel (M)	Doctorat	Directeur de Recherche	Etude de la marge continentale

FRANCE

Nom	Diplôme	Fonction	Spécialité
Lepage , Thierry (M)	Doctorat	Chargé de Recherche	Biologie cellulaire marine
Marty , Jean-Claude (M)	Doctorat	Directeur de Recherche	Physique et chimie marines; Cycles géochimiques
Mascle , Jean (M)	Doctorat	Directeur de Recherche	Etude de la marge continentale
Mayzaud , Patrick (M)	Doctorat	Directeur de Recherche	Océanographie biochimique
Michaud , François (M)	DEA	Maître de Conférences	Etude de la marge continentale
Migon , Claude (M)	Doctorat	Maître de Conférences	Physique et chimie marines
Morel , André (M)	Doctorat	Professeur	Physique et chimie marines; Rayonnement et océan
Nival , Paul (M)	Doctorat	Professeur	Ecologie du plancton; Modélisation
Prieur , Louis (M)	Doctorat	Directeur de Recherche	Physique et chimie marines; Fronts géostrophiques, circulation et production primaire
Rassoulzadegan , Ferreidoun (M)	Doctorat	Directeur de Recherche	Ecologie du plancton; Boucle microbienne
Royer , Jean-Yves (M)	Doctorat	Chargé de Recherche	Etude de la marge continentale
Sardet , Christian (M)	Doctorat	Directeur de Recherche	Biologie cellulaire marine
Sardou , Jacques (M)	Doctorat 3ème cycle	Maître de Conférences	Ecologie du plancton marin
Sciandra , Antoine (M)	Doctorat	Chargé de Recherche	Ecologie du plancton marin; Modélisation
Soyer , Jacques (M)	Doctorat	Professeur/Directeur	Benthos
Thiriot , Catherine (Mme)	Doctorat	Directeur de Recherche	Génétique bivalves
Turin , Luca (M)	Doctorat	Chargé de Recherche	Biologie cellulaire marine

Programme des Nations Unies pour l'Environnement

Département Industrie et Environnement (PNUE-DIE)

United Nations Environment Programme

Industry and Environment Office (UNEP-IEO)

Tour Mirabeau
39/43 Quai André Citroën
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FRANCE

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Télex 204997 UNITERA F
Télégrammes UNITERRA PARIS
Télifax (33) 1 40588874

FRANCE

Directeur Mme Jacqueline ALOISI DE LARDEREL, Directeur

Organisation des Nations Unies créé en 1975. Langues de travail: Français; Anglais

Objectifs/mandat Prévenir les accidents technologiques et leurs conséquences en incitant les responsables et les spécialistes à améliorer l'information de la population sur les risques industriels et à préparer des plans d'urgence

Domaines ou disciplines scientifiques/activités Gestion de l'environnement marin; Pollution; Conservation et/ou régénération des ressources naturelles; Evaluation de l'impact sur l'environnement; Economies de l'environnement; Education relative à l'environnement; Politique de développement et planification; Loisirs/tourisme; Prévision et remèdes aux catastrophes; Gestion des ressources; Ressources minérales; Ressources énergétiques; Les programmes APELL; Produire Plus Propre; Gestion des déchets dangereux; Publication de documentation technique; Favoriser l'utilisation des technologies propres et sûres; Stimuler les échanges d'information et d'expérience; Encourager la prise en compte des critères d'environnement dans les plans et projets de développement industriel

Programmes de formation/enseignement

- Sessions de formation ou séminaires APELL pour des participants de haut niveau avec présentation du programme et d'études de cas

Personnel Technique 10; Autre 9

Moyens d'information

Publications Rapport annuel; Revue trimestrielle "Industry and Environment"; Bulletins semestriels "Produire Plus Propre" et "APELL"; UNEP/IEO Technical Reports Series; Des manuels ont été publiés en anglais, espagnol et français

Bibliothèque 12000 volumes/tirés à part; 248 périodiques **Programmes/projets de coopération** Divers avec d'autres bibliothèques **Bibliothécaire** M. Benyoucef Megherbi

Ordinateurs 1 mini-ordinateur Wang OIS 40; PC (1 Memorex-286, 6 Compaq-286); Imprimantes (1 Memorex 2824, 2 OKI Microlinc 390, 1 QMS 820, 1 Kyocera F1000, 1 Imprimante Wang DW/05-55)

Applications Gestion de bases de données; Bibliothèque/documentation; Traitement de texte

Echange de données PC disquettes 5.25"(HD)/3.5"(HD)

Installations 320 m²

Station de Recherches Sous-Marins et Océanographiques (STARESO S.A.)

Pointe de la Revellata
Boîte Postale 33
Calvi 20260
FRANCE

Téléphone (33) 95 650618
Télifax (33) 95 650134

FRANCE

Directeur M. Daniel BAY, Directeur

Organisme privé (commercial) créé en 1965. Langues de travail: Français; Anglais

Nature des activités Recherche; Formation spécialisée; Laboratoire; Enseignement (universitaire); Information, vulgarisation

Objectifs/mandat Recherche scientifique fondamentale et appliquée, pédagogie, activité commerciale

Domaines ou disciplines scientifiques/activités Océanographie physique; Masses d'eau et circulation; Courants et dispersion; Interaction air/mer; Vagues, marées, houles et niveau de la mer; Métaux lourds; Sédimentologie; Formation des côtes et franges côtières; Phytoplancton; Zooplankton; Benthos; Poissons; Algues; Microbiologie marine; Productivité; Etudes des communautés et populations; Pêches; Gestion de l'environnement marin; Gestion des zones côtières; Pollution; Conservation et/ou régénération des ressources naturelles; Evaluation de l'impact sur l'environnement; Education relative à l'environnement; Loisirs/tourisme; Etudes impacts sur l'environnement: Ouvrages d'art en mer; Emissaire; Recul de plage bilans écologiques; Courantologie; Bactériologie

Environnements Eaux saumâtres; Zones côtières; Environnement benthique; Zones littorales; Iles

Zones géographiques Mer Méditerranée; Bassin algéro-provençal; Mer de Ligurie

Programmes de recherche menés en coopération

- Cycle des carbonates
- Dynamique de l'herbier de posidonie
- Dégradation des coquilles
- Ethologie des poissons
- Bactériologie et virologie dans la colonne d'eau
- Planctonologie du bassin ligure

Programmes de formation/enseignement

- Formation plongeurs, sportifs, gestionnaires de réserves marines, moniteurs de plongée

Personnel Scientifique 2; Technique 5

Moyens d'information

Publications 30 rapports techniques sur la période 1979-1991

Ordinateurs 4 IBM PCs; 3 Apple Macintosh PCs **Applications** Communications; Publication assistée par ordinateur; Génie maritime

Installations

Equipements de laboratoire Compresseur humide; Compresseur de plongée; 30 équipements plongeurs; 4 véhicules; Matériel de prises de vues sous-marines; Courantomètres; 1 chaîne de thermistors; Marégraphe **Aquariums** 15x15 m³

FRANCE

Bateaux/embarcations de recherche 2 vedettes rapides, 150CV, 8 personnes; 1 Zodiac, 20CV, 4 personnes; 2 barges aluminium, 40CV, 5 personnes; 1 catamaran océanographique, 22 m, équipé pour la recherche océanographique et la plongée

Possibilités d'accueil pour 40 scientifiques extérieurs **Installations pour conférences/séminaires** pour 40 participants **Logement** pour plusieurs, tout confort, 1 salle de conférence

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Bay, Daniel (M)	Doctorat	Directeur	Océanographie; Dynamique des populations; Herbiers de posidonies
Lejeune, Pierre (M)	Doctorat	Directeur Opérationnel	Ethologie; Poissons labridés

Université de Bordeaux I Unité Associée au CNRS 348

351 Cours de la Libération
Talence 33405 Cedex
FRANCE

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(33) 56 848732
Télifax (33) 56 846645

Directeur Dr Philippe Paul Louis Georges GARRIGUES, Chargé de Recherche

Organisme gouvernemental, national créé en 1974. Langues de travail: Français; Anglais

Nature des activités Recherche; Enseignement (universitaire)

Objectifs/mandat Recherche en chimie de l'environnement et océanographie

Domaines ou disciplines scientifiques/activités Méthodologie analytique; Métaux lourds; Composés organiques (hydrocarbures halogènes, hydrocarbures pétroliers, etc.); Dépôts; Eaux; Matière en suspension; Sédimentologie; Poissons; Mollusques; Biochimie marine; Toxicologie; Surveillance continue et/ou évaluation; Pollution; Evaluation de l'impact sur l'environnement

Environnements Lacs; Eaux saumâtres; Zones côtières; Environnement pélagique; Environnement benthique; Rivières; Zones littorales; Estuaires

Zones géographiques Mer Méditerranée; Golfe du Lion; Océan Atlantique

FRANCE

Programmes/projets de recherche

- Devenir des composés organiques et métalliques dans les systèmes aquatiques
- Mise au point d'une méthodologie pour l'évaluation de la qualité des eaux du littoral aquitain

Programmes de recherche menés en coopération

- PNUE/MED POL: Etudes des composés aromatiques dans l'environnement côtier méditerranéen
- Groupe Interface Chimie Biologie des Ecosystèmes Marins (GICGEM)

Programmes de formation/enseignement

- Université Paris VII: DEA National de Toxicologie
- Université Bordeaux I: DEA des Environnements Océaniques
- Ecole Nationale Supérieure de Chimie et Physique de Bordeaux I

Personnel Scientifique 10; Technique 2

Moyens d'information

Publications Rapports annuels/revues; Rapports techniques

Bibliothèque Oui **Programmes/projets de coopération** Divers

Ordinateurs Divers **Applications** Gestion de bases de données; Publication assistée par ordinateur; Graphiques; Bibliothèque/documentation; Scientifique; Statistiques **Echange de données** Divers

Installations 90 m²

Laboratoires 90 m²; climatisés **Equipements de laboratoire** 1 moniteur CHAS; Plongée; Bouteilles; Compresseurs; Bouteille de prélèvement in situ; Chromatographes en phase gazeuse et liquide; Absorption atomique; Spectromètre de masse

Bateaux/embarcations de recherche disponibles

Possibilités d'accueil pour 2 scientifiques extérieurs; 4 étudiants **Installations pour conférences/séminaires** pour 40 participants **Logement** disponible

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Donard, Olivier (M)	Doctorat	Chargé de Recherche	Océanographie; Biogéochimie; Composés organométalliques dans l'environnement marin
Garrigues, Philippe (M)	Doctorat	Chargé de Recherche	Biogéochimie marine; Toxicologie; Composés organiques biogènes et anthropiques dans l'environnement

**Université de Toulon et du Var
Laboratoire de Sondages Electromagnétiques de l'Environnement Terrestre
(LSEET)**

83 La Garde (F)
Boîte Postale 132
La Garde 83957 Cedex
FRANCE

Téléphone (33) 94 082828
Télifax (33) 94 080262

Directeur Professeur Pierre BROCHE, Enseignant/Chercheur

Organisme gouvernemental, national créé en 1976. Langues de travail: Français

Nature des activités Recherche; Enseignement (universitaire)

Objectifs/mandat Recherche universitaire; Formation à et par la recherche

Domaines ou disciplines scientifiques/activités Océanographie physique; Instruments et méthodes; Masses d'eau et circulation; Courants et dispersion; Interaction air/mer; Vagues, marées, houles et niveau de la mer; Modélisation; Télédétection; Etude dynamique des décharges fluviales en mer sans marées; Télédétection par radars VHF; Télédétection spatiale par SAR; Assimilation de données dynamiques; Modélisation

Environnements Zones côtières; Zones littorales; Estuaires

Zones géographiques Mer Méditerranée; Golfe du Lion

Programmes/projets de recherche

- Etude des images SAR d'ERS 1

Programmes de recherche menés en coopération

- Participation à EROS 2000 (European River Ocean System)

Personnel Scientifique 7; Technique 4; Autre 5

Moyens d'information

Publications Rapports bisannuels au CNRS

Bibliothèque Oui **Programmes/projets de coopération** Bibliothèque de l'Université de Toulon

Ordinateurs Divers **Applications** Publication assistée par ordinateur; Enseignement; Graphiques; Mathématique; Modélisation; Scientifique; Statistiques; Traitement de texte

Installations 200 m²

Laboratoires 100 m² **Equipements de laboratoire** Radars VHS Cohérents

FRANCE

Possibilités d'accueil pour 5 étudiants **Installations pour conférences/séminaires** pour 100 participants hors période scolaire

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Broche, Pierre (M)	Doctorat	Enseignant/Chercheur/ Directeur	Télédétection océanique
Caccia, Jean-Luc (M)	Doctorat	Maître de Conférences	Radar météorologie
Crochet, Michel (M)	Doctorat	Professeur	Télédétection atmosphérique
De Maistre, J Charles (M)	Doctorat	Maître de Conférences	Systèmes radars
Devenon, Jean-Luc (M)	Doctorat	Maître de Conférences	Modélisation côtière
Forget, Philippe (M)	Doctorat	Chargé de Recherche	Télédétection océanique
Hanuise, Christian (M)	Doctorat	Directeur de Recherche	Physique de l'ionosphère

Université Montpellier II Sciences et Techniques Laboratoire d'Ichthyologie

Place E. Bataillon
Montpellier 34095 Cedex 5
FRANCE

Téléphone (33) 67 143616
Télex 490944 F
Télifax (33) 67 543079

Directeur Professeur Jean-Pierre QUIGNARD, Directeur

Organisme gouvernemental, national créé en 1975. Langues de travail: Français

Nature des activités Recherche; Enseignement (universitaire)

Objectifs/mandat Ichthyologie; Biologie des populations; Stratégies et tactiques adaptatives; Pêche, gestion, conservation des espèces

Domaines ou disciplines scientifiques/activités Biologie marine et écologie; Poissons; Etudes des communautés et populations; Pêches; Biologie des populations de certains Téléostéens; Systématique écologie et biologie des sélaciens

Environnements Eaux saumâtres; Zones littorales

Zones géographiques Mer Méditerranée; Golfe du Lion

FRANCE

Programmes/projets de recherche

- Biologie des populations des poissons lagunaires sédentaires et migrateurs
- Age et croissance: Techniques d'étude
- Stratégie et tactiques de la reproduction chez les Téléostéens et Sélaciens

Programmes de recherche menés en coopération

- Ministère Education, Tunisie/Ministère Affaires Etrangères, France: Ecologie lac Ichkeul Tunisie
- Corse Ministère Environnement: Inventaire des poissons et suivi des populations dans la réserve des îles Carbicales et Lavezzi
- Ministère Affaires Etrangères, France/Ministère Recherche, Yougoslavie: Atlas des poissons méditerranéens

Programmes de formation/enseignement

- Maîtrise: Biologie des organismes et des populations aquatiques
- DESS: Activités et aménagements littoraux et maritimes

Personnel Scientifique 5; Technique 2; Autre 3

Moyens d'information

Publications Rapports annuels/revues; Rapports techniques

Bibliothèque Oui

Ordinateurs 2 micro-ordinateurs Apple Macintosh SE; 1 PC (Zenith); 1 imprimante laser; 1 scanner

Applications Gestion de bases de données; Enseignement; Graphiques;
Bibliothèque/documentation; Scientifique; Statistiques; Traitement de texte

Installations 500 m²

Laboratoires 500 m² **Equipements de laboratoire** 3 Loupes binoculaires Wild avec prise de vues et chambre claire; 1 Microscope Leitz; 2 Trébuchets sartorius; 1 Balance Mettler; 1 Balance Precisa; 2 Equipements de plongée, filets de pêche, etc. **Aquariums** 6 **Espèces entretenues** Lipophrys pavo; Pomatoschistus microps; Pomatoschistus minutus; Syngnathus abaster

Bateaux/embarcations de recherche 1 Chalutier "G. Petit" pour l'ensemble de la côte méditerranéenne française

Possibilités d'accueil pour 2 scientifiques extérieurs; 2 étudiants **Installations pour conférences/séminaires** au niveau de l'Université **Logement** au niveau de l'Université

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Bouchereau , Jean-Claude (M)	Doctorat	Maître de Conférence	Biologie marine et lagunaire; Ichthyologie (Téléostéens, Gobiidés)
Capapé , Christian (M)	Doctorat	Maître de Conférence	Biologie marine; Ichthyologie (Sélaciens)

FRANCE

Nom	Diplôme	Fonction	Spécialité
Joyeux, (M)	Doctorat	Chercheur	Biologie marine et lagunaire; Ichthyologie (Téléostéens, Gobiidés)
Quignard, Jean-Pierre (M)	Doctorat	Professeur/Directeur	Biologie marine et lagunaire; Ichthyologie (Sélaciens, Téléostéens)
Ruchon, François (M)	Doctorat	Chercheur	Biologie marine et lagunaire; Ichthyologie (Téléostéens, Blenniidés)
Tomasini, Jean-Antoine (M)	Doctorat	Maître de Conférence	Biologie marine et lagunaire; Ichthyologie (Téléostéens, Syngnathidés)
Trabelsi, Monia (Mme)	Doctorat	Assistante	Biologie marine et lagunaire; Ichthyologie (Athérinidés)

**Université Paris
Laboratoire de Physico-Chimie de l'Atmosphère
Unité de Physico-Chimie de l'Atmosphère (LPCA)**

2 Place Jussieu
LPCA - Tour 44.45, 5ème étage
Paris 75251 Cedex 5
FRANCE

Téléphone (33) 1 44273640
Télifax (33) 1 44275709

Directeur Dr Gérard MOUVIER, Professeur

Organisme gouvernemental, national créé en 1970. Langues de travail: Français; Anglais

Nature des activités Recherche; Laboratoire; Enseignement (universitaire)

Objectifs/mandat Recherche fondamentale

Domaines ou disciplines scientifiques/activités Instruments et méthodes; Interaction air/mer; Substances nutritives; Métaux lourds; Dépôts; Pollution; Evaluation de l'impact sur l'environnement; Apports atmosphériques à la Méditerranée Occidentale (DYFAMED); Apports atmosphériques à l'Atlantique Tropical Nord; Chimie des masses d'air Atlantique

Environnements îles

Zones géographiques Mer Méditerranée; Mer de Ligurie; Océan Atlantique

Programmes/projets de recherche

- Géochimie des apports atmosphériques à la Méditerranée Occidentale (DYFAMED)
- Retombée de poussières désertiques sur l'Atlantique Tropical Nord
- Chimie des masses d'air atlantique (OCEANO NOX)

Programmes de recherche menés en coopération

- Programme Franco-Germano-Britannique: OCEANO NOX
- Programme copératif français: DYFAMED

Programmes de formation/enseignement

- DEA et formation doctorale "Chimie de la Pollution Atmosphérique et Physique de l'Environnement" (3ème cycle)
- Formation continue en environnement et analyse

Personnel Scientifique 10; Technique 6; Autre 10

Moyens d'information

Publications Articles scientifiques dans des revues internationales; Publication de thèses

Bibliothèque 300 volumes/tirés à part; 10 périodiques

Ordinateurs 16 PC Applications Comptabilité, planification financière; Gestion de bases de données; Publication assistée par ordinateur; Enseignement; Graphiques; Modélisation; Gestion de projet; Scientifique; Statistiques; Traitement de texte

Installations 800 m²

Laboratoires 500 m² Equipements de laboratoire Appareils d'analyses: Absorption atomique; XRF; Chromatographie; Polarographie; Salle dépoussiérée

Possibilités d'accueil pour 3 scientifiques extérieurs; 10 étudiants **Installations pour conférences/séminaires** pour 20 participants

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Bergametti , Gilles (M)	Doctorat	Chercheur CNRS	Chimie atmosphère; Géochimie des aérosols
Carlier , Patrick (M)	Doctorat	Chercheur CNRS	Chimie atmosphère; Réactivité chimique dans l'atmosphère
Colin , Jean-Louis (M)	Doctorat	Maître de Conférence	Chimie atmosphère; Chimie des précipitations
Fresnet , Paul (M)	Doctorat	Maître de Conférence	Chimie analytique; Chimie chromatographie
Losno , Rémi (M)	Doctorat	Maître de Conférence	Chimie atmosphère; Chimie des précipitations

FRANCE

Nom	Diplôme	Fonction	Spécialité
Mouvier , Gérard (M)	Doctorat	Professeur/Directeur	Chimie atmosphère; Réactivité chimique dans l'atmosphère
Quisefit , Jean-Paul (M)	Doctorat	Maître de Conférence	Chimie analytique; XRF
Steiner , Effroim (M)	Doctorat 3ème cycle	Maître de Conférence	Chimie analytique; Traitement informatique

GREECE

**Aristotelian University of Thessaloniki
Chemistry Department
Environmental Pollution Control Laboratory**
*Aristotelio Panepistimio Thessalonikis
Tmima Chimias
Ergastirio Elenchou Rypansi Perivallondos*

Thessaloniki 54006
GREECE

Telephone (30) 31 991483
Telex 412181 AUTH GR
Fax (30) 31 206138

Executive officer Dr Themistokles A KOUIMTZIS, Professor

Governmental, national institution founded in 1925. Languages: Greek; English

Nature of activities Research; Laboratory; Academic/educational

Purpose and objectives Education; Basic and applied research

Areas of speciality/activities Analytical methodology; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Suspended matter; Assistance to the government in the establishment of quality standards for waters disposed into the Thermaikos Gulf and other developed areas of marine resources

Environments Lakes; Coastal zone; Rivers; Estuaries

Geographic areas Aegean Sea

Research programmes/projects

- Chemical characterization of underground and surface water
- Heavy metals in marine organisms, seawater and sediments

Co-operative research programmes/projects

- Eutrophication modelling of the Thermaikos Gulf

Training programmes

- Course work and research leading to PhD in water pollution control

Staff Professional 5; Technical 2; Other 5

Information facilities

Library 4 periodicals **Co-operative programmes/projects** Various

GREECE

Computers Various **Applications** Accounting/financial planning; Graphics; Library/documentation; Scientific; Statistical; Word processing

Physical facilities 600 m²

Laboratories 400 m²

Facilities for 2 visiting scientists; 4 students

Professional/Scientific staff

Name	Degree	Position	Specialization
Fytianos, Constantinos (Mr)	PhD	Associate Professor	Environmental chemistry; Marine chemistry
Kouimtzis, Themistokles (Mr)	PhD	Professor/Executive Officer	Environmental chemistry; Analytical methodology; Nutrients; Heavy metals; Organics; Sediments; Waters; Suspended matter
Misailides, Panagiotis (Mr)	PhD	Associate Professor	Radiochemistry; Radioactivity
Samara, Constantini (Ms)	PhD	Lecturer	Environmental chemistry; Analytical methodology; Nutrients; Heavy metals; Sediments; Waters; Suspended matter
Zoumpoulis, Anastasios (Mr)	PhD	Lecturer	Chemical technology; Water treatment

Aristotelian University of Thessaloniki

School of Biology

Department of Zoology

Aristotelio Panepistimio Thessalonikis

Tmima Vilogias

Tomeas Zoologias

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GREECE

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Executive officer Dr Panos S ECONOMIDES, Professor

Governmental, national institution founded in 1928. Languages: Greek; English; French

Nature of activities Research; Academic/educational

Purpose and objectives Research in marine pollution, systematics and zoogeography of marine invertebrates and fishes, benthic ecology and marine zooplankton

Areas of speciality/activities Marine biology and ecology; Zooplankton; Benthos; Fish; Eutrophication; Molluscs; Crustaceans; Marine birds; Taxonomy and systematics; Productivity; Community and population studies; Fisheries; Aquaculture

Environments Lakes; Brackishwater; Coastal zone; Pelagic environment; Benthic environment; Littoral zone; Lagoons; Islands; Estuaries

Geographic areas Mediterranean Sea; Aegean Sea; Ionian Sea

Research programmes/projects

- Study of the Kavala Gulf ecosystem
- Study of Porto Lago (Vistonis) estuaries

Co-operative research programmes/projects

- Research leading to PhD in marine biology/ichthyology

Staff Professional 15; Other 6

Information facilities

Library 16000 volumes/reprints; 40 periodicals

Computers 2 PCs; 8 Apple Macintosh **Applications** Scientific; Statistical; Word processing

Physical facilities 900 m²

Laboratories 250 m²; climate controlled **Laboratory equipment** Diving equipment for six persons
Aquariums 3x0.5 m³; 1x1 m³

Research vessels/crafts 3 boats

Facilities for 4 visiting scientists; 10 students

Professional/Scientific staff

Name	Degree	Position	Specialization
Chintiroglou, Chariton (Mr)	PhD	Assistant Professor	Marine biology; Cnidaria systematics
Economidis, Panos (Mr)	PhD	Professor/Executive Officer	Ichthyology; Systematics
Koukouras, Athanassios (Mr)	PhD	Associate Professor	Marine biology; Benthic pollution; Decapod systematics; Community structure
Sinis, Apostolos (Mr)	PhD	Assistant Professor	Ichthyology; Life cycles

GREECE

Name	Degree	Position	Specialization
Voultsiadou-Koukoura, Eleni (Ms)	PhD	Assistant Professor	Marine biology; Sponges systematics; Community structure

Aristotelian University of Thessaloniki

School of Biology

Institute of Botany

Aristotelio Panepistimio Thessalonikis

Tmima Viologias

Ergastirio Votanikis

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Thessaloniki 54006
GREECE

Telephone (30) 31 991402

Telex 412181

Fax (30) 31 206138

Executive officer Dr Ioannes TSEKOS, Professor

Governmental, national institution founded in 1928. Languages: Greek; English; German

Nature of activities Research; Academic/educational

Purpose and objectives Teaching and scientific research in several disciplines of general botany (cytology, morphology, anatomy, ecophysiology, cytogenetics) and in ecology, systematic phytosociology and physiology of marine and freshwater algae

Areas of speciality/activities Nutrients; Heavy metals; Waters; Suspended matter; Biota; Phytoplankton; Benthos; Algae; Eutrophication; Plankton blooms; Taxonomy and systematics; Productivity; Community and population studies; Pollution; Environmental education; Guidance in nature conservation; Quality control for fish processing

Environments Lakes; Brackishwater; Coastal zone; Pelagic environment; Benthic environment; Rivers; Estuaries

Geographic areas Mediterranean Sea; Aegean Sea; Ionian Sea

Research programmes/projects

- Hellenic General Secretariat of Research and Technology: Structure, differentiation and development of red algal cell
- Hellenic Ministry of Agriculture: Qualitative and quantitative composition of phytoplankton of the north Aegean Sea

Co-operative research programmes/projects

- Volkswagenwerk Foundation/Zellenlehre University of Heidelberg/University of Athens, department of general botany: Cytomorphogenesis, cytoskeleton and structure of the cell
- Alexander von Humboldt Foundation/Zellenlehre University of Heidelberg: Structure and differentiation of red algal cell
- Hellenic Ministry of Agriculture/University of Thessaloniki, laboratory of zoology: Hydrobiological study of Lake Mikri Prespa

Training programmes

- Course work and research leading to MSc and PhD in marine botany (phycology and oceanography)

Staff Professional 14; Technical 5; Other 2

Information facilities

Publications Scientific papers and reports in reviewed journals

Library 16000 volumes/reprints; 25 periodicals **Librarian** Ms Areti Kiratzidou-Dimopoulou

Computers 1 IBM 4381; 1 DEC VAX 9000; 1 HP 9000; 3 PCs; 3 Apple computers (2 Macintosh Plus, 1 Macintosh IIcx); Printers (1 LaserWriter, 2 Epson) **Applications** Communications; Library/documentation; Network access; Scientific; Statistical; Word processing **Data exchange** Remote access via network (BITNET); VM/CMS, VMS TK50 cartridges, ASCII text file

Physical facilities 900 m²

Laboratories 250 m²; climate controlled **Laboratory equipment** Atomic absorption spectrophotometer (Perkin Elmer); Spectrophotometers (Zeiss PM Q II and LKB); Electron microscope; Ultramicrotome **Species maintained** Teraselmis suecica; Prorocentrum micans; Thalassiosira sp.; Coscinochitus granii; Ditylum brightwellii; Chlorogloeoopsis fritchii; Plectonema boryanum; Anabaena variabilis; Chlamydomonas spp.; Microcystis spp.

Facilities for 5 visiting scientists; 15 students

Professional/Scientific staff

Name	Degree	Position	Specialization
Bosabalidis , Artemios (Mr)	PhD	Associate Professor	Anatomy and cytology of plant tissues; Development, differentiation and function
Delivopoulos , Stylianos (Mr)	PhD	Assistant Professor	Biology of marine algae; Ultrastructure, function and differentiation of algal cells
Diannelidou , Barbara (Ms)	PhD	Lecturer	Biology of marine algae; Red algae: Life cycles, ultrastructure, histo-cytochemistry
Eleftheriou , Eleftherios (Mr)	PhD	Associate Professor	Anatomy and cytology of plant tissues; Phloem structure; Plant cytoskeleton

GREECE

Name	Degree	Position	Specialization
Haritonidis , Savas (Mr)	PhD	Associate Professor	Bionomy and taxonomy of marine algae; Marine algae as pollution indices
Karataglis , Stylianos (Mr)	PhD	Professor	Cytology; Cytotaxonomy/chemotaxonomy; Ecological and physiological aspects of heavy metal tolerance; Toxicity in plants
Lanaras , Thomas (Mr)	PhD	Assistant Professor	Carbon metabolism; Localisation of photosynthetic enzymes; Carbon metabolism; Photosynthetic microorganisms; Cyanobacterial toxins
Malea , Paraskevi (Ms)	BA	Research Fellow	Heavy metals; Accumulation of heavy metals by marine algae and sea grasses
Moustaka-Gouni , Maria (Ms)	PhD	Lecturer	Biology of plankton algae; Plankton ecology and taxonomy
Moustakas , Michael (Mr)	PhD	Lecturer	Cytogenetics and ecophysiology of Graminae; Karyotype analysis; Seed protein electrophoresis; Heavy metal tolerance
Nikolaidis , Georgios (Mr)	PhD	Lecturer	Biology of algae; Life cycles and ecology of marine microalgae
Sawidis , Thomas (Mr)	PhD	Lecturer	Anatomy and cytology of plant tissues; Fine structure and function of plant glands; Heavy metal and radionuclide uptake by plants
Symeonidis , Lazaros (Mr)	PhD	Assistant Professor	Cytogenetics; Chemotaxonomy; Ecophysiology of Graminae
Tsekos , Ioannes (Mr)	PhD	Professor/Executive Officer	Cell biology; Ecology of marine algae; Fine and supramolecular structure of algal cells

Aristotelian University of Thessaloniki

School of Health Sciences

Laboratory of Hygiene

Aristotelio Panepistimio Thessalonikis

Tmima Epistimon Hygeias

Ergastirio Hygeias

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(30) 31 991339

Telex 412181

Fax (30) 31 206138

Executive officer Professor Vassilios KATSOUYIANNOPoulos, Director

Governmental, national institution founded in 1965. Languages: Greek; English; French

Nature of activities Research; Technical training; Laboratory; Academic/educational

Purpose and objectives Training of medical students in environmental hygiene and eco-epidemiology; Research projects and routine work

Areas of speciality/activities Heavy metals; Waters; Marine microbiology; Pollution; Environmental impact assessment; Environmental education; Development policy/planning; The Laboratory serves as adviser to the local authorities on pollution problems of fresh water and on the quality of water for bathing and coastal recreation

Environments Lakes; Coastal zone; Rivers

Geographic areas Mediterranean Sea; Aegean Sea

Research programmes/projects

- Bacteriological investigation of potable water in the areas of Macedonia and Thrace
- Chemical analysis of potable water in special regions and analysis of refreshments
- Heavy metals in the waters of Thermaikos Gulf

Co-operative research programmes/projects

- UNEP/MED POL Phase II research project: Detection of enteric pathogens in shellfish and their relation to the presence of indicator microorganisms
- Greek Ministry of Health: Detection of Campylobacter, Yersinia, Cryptosporidium and Giardia lamblia in waters

Training programmes

- Eco-epidemiology, third-year medical students (four-week course)
- Bacteriology and hygiene of water, third-year medical students (four-week course)

Staff Professional 7; Technical 8; Other 2

GREECE

Information facilities

Publications Monographs; Technical reports

Library 2350 volumes/reprints; 1 periodical **Co-operative programmes/projects** University Central Library; National Documentation Centre; WHO-Regional Office for Europe **Librarian** Ms Elpiniki Kouridou

Computers PCs (IBM, APRICOT, SORD); 1 Laser printer **Applications** Database management; Education; Graphics; Library/documentation; Mapping; Modelling; Scientific; Statistical; Word processing **Data exchange** SPSS, BMDP, EXCEL files

Physical facilities 850 m²

Laboratories 700 m²; climate controlled **Laboratory equipment** Atomic absorption; Liquid chromatographer; Spectrometer **Species maintained** Mice; Guinea pigs

Facilities for 3 visiting scientists; 6 students **Conference/seminar facilities** available

Professional/Scientific staff

Name	Degree	Position	Specialization
Delidou , Kyriaki (Ms)	MD	Assistant Professor of Hygiene	Eco-epidemiology
Gregoriadou , Anthoula (Ms)	MD	Assistant Professor of Hygiene	Environmental microbiology
Katsouyannopoulos , Vassilios (Mr)	MD/PhD	Professor of Hygiene and Epidemiology/Director	Probability and statistics in bacteriology
Pegadas , Alkis (Mr)	MD	Lecturer	Environment pollution
Stathopoulos , George (Mr)	MD	Assistant Professor of Hygiene	Water bacteriology
Tsoumparis , Paraschos (Mr)	MD	Lecturer	Chemistry of water; Heavy metals in the environment
Vagionas , Tania (Ms)	MD	Lecturer	Water bacteriology

Aristotelian University of Thessaloniki
School of Veterinary Medicine
Laboratory of Ecology and Protection of the Environment
Aristotelio Panepistimio Thessalonikis
Tmima Ktiniatrikis
Ergastirio Ecologias & Prostasias Perivallondos

P.O. Box 404
Thessaloniki 54006
GREECE

Telephone (30) 31 991304

Executive officer Dr Stylianos KILIKIDIS, Professor

Governmental, national institution founded in 1980. Languages: Greek; English

Nature of activities Research; Laboratory; Academic/educational

Purpose and objectives Education in ecology, environmental protection and research

Areas of speciality/activities Analytical methodology; Nutrients; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Suspended matter; Eutrophication; Toxicology; Monitoring and/or assessment; Coastal zone management; Pollution; Nature conservation and/or restoration; Environmental impact assessment; Environmental education; Resources management

Environments Lakes; Brackishwater; Coastal zone; Rivers; Lagoons; Estuaries

Geographic areas Mediterranean Sea; Aegean Sea

Co-operative research programmes/projects

- UNEP/MED POL programme

Training programmes

- Research leading to PhD in water pollution and water pollution management

Staff Professional 3; Technical 1

Information facilities

Library 100 volumes/reprints; 4 periodicals

Computers 1 PC (XT); Printer (IBM Proprietary X24) **Applications** Database management; Graphics; Statistical; Word processing **Data exchange** 5.25" PC diskettes; WordStar 2000+, dBase files

Physical facilities 200 m²

Laboratories 150 m² **Laboratory equipment** Gas chromatograph (Varian 3600); Polarograph (Metrophry); Spectrophotometer (Simachu); Water quality analyser (Martek); Refrigerated incubator (Forma Sci.); Oxygen-Temperature-BOD analyser (YSI); Portable water analyser (Huch) **Aquariums** 4x1.5 m³

Facilities for 1 visiting scientists **Conference/seminar facilities** with 4-language interpretation for 300 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Kamarianos, Athanasios (Mr)	PhD	Assistant Professor	Ecology; Environmental protection; Water pollution; Eutrophication

GREECE

Name	Degree	Position	Specialization
Karamanlis, Xanthippos (Mr)	PhD	Lecturer	Ecology; Environmental protection
Kilikidis, Stylianos (Mr)	PhD	Professor/Laboratory Director	Ecology; Environmental protection

Benaki Phytopathological Institute (BPI)

*Institut Phytopathologique Benaki
Benakeio Phytopathologico Instituto*

8 Delta Street, Kifissia
Athens 14561
GREECE

Telephone (30) 1 8070239
Fax (30) 1 8077506

Executive officer Dr Anna MANOUILIDIS-CHITZANIDIS, Director

Parastatal institution founded in 1929. Languages: Greek; English

Nature of activities Research

Purpose and objectives Research on plant protection problems (fungi, viruses, bacteria, non-parasitic diseases, pests, weeds, biological control, pesticides and control measures)

Areas of speciality/activities Nutrients; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Toxicology; Monitoring and/or assessment; Pollution; Determination of pesticide residues in plant and animal tissues and toxicological studies to evaluate their significance as pollutants of plant and animal life; Diagnostic work on plant pests and pathogens

Geographic areas Aegean Sea

Research programmes/projects

- Research aiming at reducing environmental pollution caused by pesticide residues and other pollutants
- Research on plant disease, pests, weeds and pesticides

Staff Professional 44; Technical 40; Other 28

Information facilities

Publications Annales de l'Institut Phytopathologique Benaki; Technical reports; Various

Library 60000 volumes/reprints; 820 periodicals **Co-operative programmes/projects** Various
Librarian Ms Stella Chatzimari

GREECE

Computers PCs (4 Tulip PC, 2 IBM PC); 4 Printers (3 Star LC24/15, 1 HP Laserjet); 1 Scanner (Eizo Flexscan 8060S) **Applications** Accounting/financial planning; Communications; Database management; Graphics; Library/documentation; Scientific; Word processing **Data exchange** WordPerfect file

Physical facilities 20000 m²

Laboratories 4000 m² **Laboratory equipment** 2 microscopes; 1 GL-chromatograph Varian 3700; 1 histokinette; 1 spectrophotometer Shimatzu; 1 clinical analyser **Aquariums** 17x1 m³ **Species maintained** Gambusia sp

Facilities for 4 visiting scientists; 10 students

Professional/Scientific staff

Name	Degree	Position	Specialization
Machera, K (Ms)	PhD		Biochemistry; Toxicology; Pesticide toxicology
Manouilidis-Chitzanidis, Anna (Ms)	PhD	Director	

Children's Hospital "Aglaia Kyriakou"

Poison Control Centre

Nosokomio Paedon "Aglaia Kyriakou"

Kendro Delitiriaseon

Thivon and Levadias

Goudi

Athens 11527

GREECE

Telephone (30) 1 7793777

Telex 7774127

Executive officer Dr Pavlos VLACHOS, Professor

Governmental, national institution founded in 1975. Languages: Greek; English

Nature of activities Information/public awareness

Purpose and objectives Poisoning: treatment, prevention, information

Areas of speciality/activities Toxicology; Public health

Environments Coastal zone

Geographic areas Mediterranean Sea

GREECE

Co-operative research programmes/projects

- UNEP/MED POL Phase II

Staff Professional 2

Information facilities

Publications Annual report

Computers Various **Applications** Statistical; Word processing

Physical facilities 30 m²

Professional/Scientific staff

Name	Degree	Position	Specialization
Mermiga, Dora (Ms)	Pharmacist		
Vlachos, Pavlos (Mr)	PhD	Professor MD/Executive Officer	Clinical toxicology

Institute of Marine Biology of Crete (IMBC)

Instituto Thalassias Viologias Cretes

Eleftheriou Venizelou Avenue
P.O. Box 2214
Iraklion 71110
Crete
GREECE

Telephone (30) 81 242022

(30) 81 241992

Telex 262268 IMBC GR

Fax (30) 81 241882

Executive officer Professor Anastasios ELEFTHERIOU

Governmental, national institution founded in 1987. Languages: English; French

Nature of activities Research; Technical training; Laboratory; Academic/educational; Policy and planning; Commercial; Information/public awareness

Purpose and objectives Promotion and co-ordination of pure applied research programmes in selected sectors of marine biology with high RND

Areas of speciality/activities Water masses and circulation; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Suspended matter; Biota; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Eutrophication; Molluscs; Crustaceans; Marine mammals; Marine physiology; Marine microbiology; Parasitology; Pathology of marine species; Toxicology; Taxonomy and systematics; Productivity; Community and population studies; Fisheries; Aquaculture; Monitoring and/or assessment; Pollution; Environmental impact assessment; Environmental education; Remote sensing; Development policy/planning; Recreation/tourism; Disaster preparedness and relief; Resources management; Food chain studies in the continental shelf of the Aegean Sea; Stock assessment of pelagic fish resources (sardines, anchovies); Pollution studies (effects from domestic effluents, heavy metals, hydrocarbon, etc.); Studies of the deep sea ecosystem of the Greek seas; Aquaculture research in commercial species of fish

Environments Coastal zone; Pelagic environment; Benthic environment; Littoral zone; Islands

Geographic areas Mediterranean Sea; Aegean Sea; Ionian Sea; Levantine Sea

Research programmes/projects

- Pollution studies in the Cretan shelf
- Assessment of the red-coral stocks and management for its exploitation
- Study of the secondary production of the coastal areas in the Aegean
- The ecosystem of the continental shelf of Southern Aegean
- Assessment of pelagic fish resources in the Greek seas by hydroacoustic methods
- Stock assessment of the benthopelagic fish of the Cretan shelf
- Introduction of new species in marine aquaculture (red sea bream, sheepshead bream, groupers): their biology and behaviour under farming conditions

Co-operative research programmes/projects

- UNEP/MED POL: Monitoring station
- EEC MAST I (University of Hamburg/Plymouth Marine Laboratory, U.K./Helsingor Marine Laboratory/University of Copenhagen): Sulphide and methane-based ecosystems
- University of Hamburg/Seckenberg Hist. Frankfurt/University of Genova: The deep sea ecosystem of Eastern Mediterranean
- University of Crete: Hydroacoustic research of the marine environment
- IFREMER, Lyon/IMBC, Aberdeen: Development of a wide-band frequency echosounder for species identification
- IMBC, Ancona: Improvement of fish calibration techniques
- St. Mar. Biol. de Sete, Montpellier: Research on the effectiveness of the mesocosms as early larval stages of marine fish rearing system
- University L. Pasteur, Strasbourg: Comparison of 4 feeding techniques for sea bass and sea bream
- University L. Pasteur, Strasbourg: Sea bass food preferences concerning colour, size and energy content

Training programmes

- Training courses for graduates of technical colleges in the theory and practice of marine aquaculture
- Training courses for laboratory technicians and local authority employees in methodology and techniques in environmental pollution

Staff Professional 31; Technical 4; Other 18

GREECE

Information facilities

Publications IMBC Marine Research Reports/IMBC Marine Technical Reports, Series A: Fisheries; Series B: Marine ecology; Series C: Aquaculture

Library 2000 volumes/reprints; 3 periodicals **Co-operative programmes/projects** NCMR

Computers 2 SUN Sparc-4 workstation; Apple Macintosh computers (4 SE 30, 1 MAC II, 1 SE, 3 Classics); IBM PCs and compatibles (2 PC-386, 4 PC-AT); Apple Printers (1 Laserwriter, 4 Image Writers, 1 Image Writer LQ); Various printers (4 HP Desk Writer, 2 NEC P5, 2 IBM Proprinter, 2 HP Laserjet II, 1 HP Paintjet XL); Plotter (HP 7475A); Scanner (Apple) **Applications** Accounting/financial planning; Communications; CAD/CAM/CAE; Database management; Desktop publishing; Education; Geographic Information Systems (GIS); Graphics; Library/documentation; LAN; Mathematical; MIS; Mapping; Modelling; Network access; Project management; Scientific; Statistical; Word processing **Data exchange** Network access (E-mail); 5.25"/3.5" PC diskettes; Excell, Atlas, dBase, Lotus 123, and ASCII text files

Physical facilities 3300 m²

Laboratories 964 m²; climate controlled **Laboratory equipment** Electronic: SBE CTD with dissolved oxygen meter; Ospray CCD camera; Benthos minirover MKII ROV; Sony U-matic recorders and editing suite; Various CCD land cameras; 2 Nikons U/W still cameras; Diving: SCUBA 6 sets and 6 qualified divers; Analytical equipment: Chemistry: PE 2400 CHN analyser; Turner fluorometer; Lumac biocounter; Beckmann DU 6 spectrophotometer; Beckmann GP centrifuge; SB4 freeze dryer; Endecott sieve shaker; Mettler AE 163 (X3) & Mettler PJ 3000 (X3) balance; Buhler SM25 shaker; Ovens; Carbolite furnace; Freezers; pH; Eh; Sulphide electrodes and meters; Water baths with immersion heaters and cooler; Micros: 18 stereoscopes; 13 compound microscopes with photomicrography **Aquariums** 64x2 m³; 51x0.5 m³; 24x10 m³; 6x33 m³; 4x60 m³ **Species maintained** Sparus aurata; Dicentrarchus labrax; Pagrus pagrus; Puntazzo puntazzo; Epinephelus aenurus

Research vessels/crafts RV "Philia" (1986), 26 m, 200 ton, equipped with echosounder, trawling winch, satellite navigator system, 7 crew, accommodations for 6 scientists; RV "Niki" (1987), fishing boat, 8 m, 4 ton, equipped with echosounder, compass, radar, sailor VHF and speed log, 2 crew; Several inflatables and small launches

Facilities for 10 visiting scientists; 10 students **Conference/seminar facilities** for 30 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Bazigos, George (Mr)	PhD	Consultant	Fisheries; Fishery statistics; Fishery resources; Hydroacoustic surveys
Boulet, Madone (Ms)	BS	Research Scientist	Aquaculture; Zooplankton; Phytoplankton
Charalambakis, Gregory (Mr)	MSc	Research Scientist	Aquaculture; Fish pathology
Dafnomili, Eleni (Ms)	BS	Research Assistant	Marine chemistry; Nutrients

GREECE

Name	Degree	Position	Specialization
Divanach , Pascal (Mr)	PhD	Research Scientist	Aquaculture; Marine physiology
Dounas , Costas (Mr)	PhD	Research Scientist	Marine ecology; Benthic ecology
Economaki , Katerina (Ms)	BS	Research Assistant	Genetics; Population genetics
Economou , Alkiviades (Mr)	PhD	Research Scientist	Fisheries; Fisheries research
Eleftheriou , Anastasios (Mr)	PhD	Professor/Executive Officer	Biological oceanography; Benthic ecology
Georgakarakos , Efstratios (Mr)	PhD	Research Scientist	Fisheries; Hydroacoustics
Godes , Constantinos (Mr)	MSc	Research Scientist	Fisheries; Population dynamics
Hatzithanasiou , Antigoni (Ms)	BS	Research Assistant	Aquaculture; Rotifers
Hughes , James Alan (Mr)	BS	Research Scientist	Benthic ecology; Population studies and taxonomy
Kallianotis , Argyris (Mr)	BS	Research Scientist	Fisheries; Population studies
Kapantagakis , Argyris (Mr)	BS	Research Assistant	Fisheries; Electronic engineering
Kentouri , Maroudio (Ms)	PhD	Associate Professor	Aquaculture; Fish behaviour
Kottoulas , George (Mr)	PhD	Research Scientist	Genetics; Population genetics
Leahy , Yvonne (Ms)	PhD	Research Scientist	Benthic ecology; Community and population studies
Magoulas , Antonios (Mr)	PhD	Research Scientist	Genetics; Population genetics
Pagonis , Minos (Mr)	MSc	Research Scientist	Aquaculture; Broodstock and cage management
Papadopoulou , Konstantia Nadia (Ms)	BS	Research Scientist	Marine ecology; Benthic ecology and taxonomy
Papandroulakis , Nikolaos (Mr)	MSc	Research Assistant	Mathematic models; Fish growth models in aquaculture
Plaiti , Wanda (Ms)	BS	Research Scientist	Benthic ecology; Crustacean taxonomy
Smith , Christopher James (Mr)	PhD	Research Scientist	Marine ecology; Benthic ecology
Stefanou , Evripides (Mr)	PhD	Associate Professor	Analytical chemistry; Organic pollution
Tselepidis , Anastasios (Mr)	MSc	Research Scientist	Biological oceanography; Deep sea ecology
Tserpes , George (Mr)	MSc	Research Scientist	Fisheries; Fish population dynamics
Tsimenides , Nikolaos (Mr)	PhD	Associate Professor	Fisheries; Fish pollution dynamics
Vlachonis , George (Mr)	BS	Research Scientist	Marine chemistry; Heavy metals; Pollution
Zivanovic , Snezana (Ms)	BS	Research Scientist	Marine chemistry; Nutrients; Waters

GREECE

Name	Degree	Position	Specialization
Zouros, Eleftherios (Mr)	PhD	Associate Professor	Genetics; Population genetics

National Centre for Marine Research (NCMR)

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Aghios Kosmas
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Athens 16604
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Telex 224135
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Executive officer Dr Nikolaos FRILIGOS, Acting Director

Governmental, national institution founded in 1965. Languages: Greek; English; French

Nature of activities Research; Technical training; Laboratory; Academic/educational; Information/public awareness

Purpose and objectives Implementation of national development programmes; Scientific research and applications; Consultant services to public and private institutions

Areas of speciality/activities Physical oceanography; Water masses and circulation; Currents and dispersion; Waves, tides, surges and sea level; Modelling; Marine chemistry and geochemistry; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Suspended matter; Biota; Marine geology and geophysics; Topography and morphology; Sedimentology; Coastal and nearshore processes; Paleontology; Marine biology and ecology; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Eutrophication; Plankton blooms; Molluscs; Crustaceans; Marine physiology; Marine biochemistry; Parasitology; Pathology of marine species; Toxicology; Taxonomy and systematics; Productivity; Community and population studies; Fisheries; Aquaculture; Marine meteorology and climatology; Marine environmental management; Monitoring and/or assessment; Pollution; Environmental impact assessment; Environmental education; Marine support services; Remote sensing; Data acquisition and telemetry; Dynamic, physical, chemical and biological state of the aquatic and marine environment; Ecology of the sea, lakes and rivers; Geology and geophysics of the sea-floor and coastal areas; Fisheries; Aquaculture developments

Environments Lakes; Brackishwater; Coastal zone; Pelagic environment; Benthic environment; Rivers; Littoral zone; Lagoons; Islands; Estuaries

Geographic areas Mediterranean Sea; Adriatic Sea; Aegean Sea; Ionian Sea; Levantine Sea; Strait of Otranto

Research programmes/projects

- Oceanographic and environmental study of sewage discharge of the city of Kerkyra
- Oceanographic study of the coastal waters of Kalamitsi, Preveza
- Biogeochemical cycle of carbon dioxide in the Eastern Mediterranean
- Modular instrument package and its application in Mediterranean hydrothermal research (MIRAMEHR)
- Pollution effects on plankton composition and spatial distribution near the sewage outfall of Athens
- Effects of sewage on the distribution of benthic fauna in Saronikos Gulf
- Impact of eutrophication on the sea-urchins of Amvrakikos Gulf
- Research on the vulnerability of Mediterranean benthic ecosystems
- Physiological responses of marine indicator organisms to global pollution
- Environmental study of the north Evoikos Gulf
- Oceanographic study of Phaliron Bay
- Study of the biology and ecology of an endemic fresh water fish of Rhodos (Gherane)
- Hydrobiological study of Lake Trichonis (western Greece)
- Environmental protection and fishery management study of the Mornos reservoir
- Assessment of pelagic resources in the Greek seas
- Infections and feeding diseases in marine aquaculture

Co-operative research programmes/projects

- EURECOMARGE
- MAST I
- POEM
- EUROMAR
- OSNLR, COCDYF (IOC programmes)
- ODP
- NATO
- FAR (EEC)
- UNEP/MED POL (Phase II)

Staff Professional 35; Technical 40; Other 58

Information facilities

Publications "Thalassographica", journal; Technical reports; Monographs

Library 2750 volumes; 2736 reprints; 440 periodicals **Co-operative programmes/projects**
Various **Librarian** Ms Sofia Goulala

Computers HP 3000; HP 9000/825; PCs **Applications** Accounting/financial planning; Database management; Desktop publishing; Graphics; Library/documentation; Mathematical; Mapping; Modelling; Scientific; Statistical; Word processing

Physical facilities 2100 m²

Laboratories 550 m²; climate controlled **Laboratory equipment** Technikon; Gas and liquid chromatographs; Atomic absorption spectrophotometers; Polarograph; Elemental analyser; CTDs; Rosette units; Tide gauges; Currentmeters; Acoustic releasers; Liquid scintillation counter; X-Ray diffractometer; Sparker-air-gun hydrophones; Lyophylisator-microtome-cool incubator; Water and sediment samplers; Salinometers **Aquariums** 40x82 m³ **Visitors** 200000 annually **Species maintained** Ladigesosypris ghigii (endemic species)

GREECE

Research vessels/crafts RV "Aegaio", 51.1 m, 9.6 m beam, 597 ton, 13 knots, 22 crew, 16 research personnel

Facilities for 16 visiting scientists; 15 students

Professional/Scientific staff

Name	Degree	Position	Specialization
Alexandri , Stamatina (Ms)	BS	Scientific Staff	Marine geology and geophysics; Topography and morphology; Coastal and nearshore processes
Alexi , Maria (Ms)	PhD	Senior Scientific Officer	Marine biology and ecology; Fish; Marine physiology; Marine biochemistry; Aquaculture
Anagnostou , Christos (Mr)	PhD	Senior Scientific Officer	Marine geology and geophysics; Sedimentology; Coastal and nearshore processes; Pollution
Anastasakis , George (Mr)	PhD	Scientific Staff	Marine geology and geophysics; Topography and morphology; Coastal and nearshore processes
Balopoulos , Efstathios (Mr)	PhD	Principal Scientific Officer	Physical oceanography; Watermasses and circulation; Modelling
Barbetsea , Helen (Ms)	BS		Marine geology and geophysics
Barbetseas , Stavros (Mr)	BS	Scientific Officer	Physical oceanography; Water masses and circulation
Catsiki , Vasiliki (Ms)	PhD	Higher Scientific Officer	Marine biology and ecology; Benthos; Fish; Heavy metals; Toxicology; Monitoring and assessment; Pollution; Environmental impact assessment
Christianidis , Savvas (Mr)	MSc	Scientific Staff	Physical oceanography; Marine meteorology and climatology; Water masses and circulation; Currents and dispersion
Christou , Epaminondas (Mr)	PhD	Scientific Staff	Marine biology and ecology; Zooplankton; Eutrophication; Plankton blooms; Taxonomy and systematics; Community and population studies

Name	Degree	Position	Specialization
Chronis , George (Mr)	PhD	Principal Scientific Officer	Marine geology and geophysics; Topography and morphology; Coastal and nearshore processes
Daoulas , Charalambos (Mr)	PhD	Principal Scientific Officer	Marine biology and ecology; Fish; Taxonomy and systematics; Productivity; Community and population studies; Fisheries; Aquaculture
Diapoulis , Aristidis (Mr)	PhD	Principal Scientific Officer	Marine biology and ecology; Algae; Taxonomy and systematics; Community and population studies; Environmental impact assessment
Filippas , Dimitrios (Mr)	BS	Scientific Staff	Marine geology and geophysics; Topography and morphology
Friligos , Nikolaos (Mr)	PhD	Senior Principal Scientific Officer/Acting Director	Marine chemistry and geochemistry; Nutrients; Waters; Eutrophication; Pollution
Georgakopoulos , Ephrosini (Ms)	BS	Scientific Officer	Marine chemistry and geochemistry; Organics; Waters; Biota
Georgopoulos , Dimitrios (Mr)	MSc	Higher Scientific Officer	Physical oceanography; Water masses and circulation; Remote sensing
Gotsi , Olympia (Ms)	PhD	Senior Scientific Officer	Marine biology and ecology; Phytoplankton; Eutrophication; Plankton blooms; Taxonomy and systematics; Community and population studies; Environmental impact assessment
Karagitsou , Elektra (Ms)	MSc	Higher Scientific Officer	Marine biology and ecology; Fish; Taxonomy and systematics; Community and population studies; Fisheries
Karanikolas , Kyriakos (Mr)	MSc	Scientific Officer	Marine biology and ecology; Fish; Marine physiology; Parasitology; Pathology of marine species; Toxicology
Klaoudatos , Spiridon (Mr)	PhD	Principal Scientific Officer	Marine biology and ecology; Aquaculture
Korsini-Foka , Maria (Ms)	BS	Scientific Officer	Marine biology; Phytoplankton; Fish; Taxonomy; Aquaculture

GREECE

Name	Degree	Position	Specialization
Kousouris , Theodoros (Mr)	MSc	Principal Scientific Officer	Marine biology and ecology; Phytoplankton; Eutrophication; Plankton blooms; Taxonomy and systematics
Likousis , Vasilis (Mr)	PhD	Scientific Staff	Marine geology and geophysics; Topography and morphology; Sedimentology; Coastal and nearshore processes
Mitilinaiou , Chrisoula (Ms)	MSc	Scientific Officer	Marine biology and ecology; Fish; Taxonomy; Community and population studies; Fisheries
Nakopoulou , Chrisanthe (Ms)	MSc	Scientific Staff	Marine chemistry and geochemistry; Heavy metals; Waters; Suspended matter; Pollution
Pagou , Kalliopi (Ms)	MSc	Scientific Staff	Marine biology and ecology; Phytoplankton; Eutrophication; Plankton blooms; Taxonomy and systematics; Productivity; Community and population studies
Panayotidis , Panayotis (Mr)	PhD	Senior Scientific Officer	Marine biology and ecology; Algae; Taxonomy and systematics; Community and population studies; Monitoring and assessment; Environmental impact assessment; Environmental education
Pankoutsi , Maria-Antonella (Ms)	MSc	Scientific Staff	Marine biology and ecology; Benthos; Zooplankton; Eutrophication; Taxonomy; Community and population studies
Papageorgiou , Emanuil (Mr)	BS	Scientific Officer	Physical oceanography; Currents and dispersion
Papakonstantinou , Konstantinos (Mr)	PhD	Principal Scientific Officer	Marine biology and ecology; Fish; Taxonomy and systematics; Productivity; Community and population studies; Fisheries
Papathanassiou , Evangelos (Mr)	PhD	Principal Scientific Officer	Marine biology and ecology; Toxicology; Pollution; Environmental impact assessment

GREECE

Name	Degree	Position	Specialization
Pavlakis , Peter (Mr)	MSc	Scientific Staff	Marine geology and geophysics; Topography; Coastal and nearshore processes; Seismology
Petrakis , George (Mr)	BS	Scientific Officer	Marine biology and ecology; Fish; Taxonomy; Community and population studies; Fisheries
Psarras , Theodoros (Mr)	BS	Scientific Officer	Marine biology and ecology; Fish; Taxonomy; Community and population studies; Fisheries; Aquaculture
Psilidou , Roza (Ms)	BS	Scientific Staff	Marine geology and geophysics; Organics; Biota; Waters
Roussakis , Gregory (Mr)	BS	Scientific Staff	Marine geology and geophysics; Topography and morphology
Simpoura , Nomiki (Ms)	MSc	Scientific Staff	Marine biology and ecology; Benthos; Crustaceans; Taxonomy and systematics
Siokou , Joan (Ms)	MSc	Higher Scientific Officer	Marine biology and ecology; Zooplankton; Eutrophication; Plankton blooms; Taxonomy; Monitoring and assessment; Pollution
Sioulas , Andreas (Mr)	PhD	Senior Scientific Officer	Marine geology and geophysics; Topography; Sedimentology; Coastal and nearshore processes; Environmental impact assessment
Souvermezoglou , Katerina (Ms)	PhD	Senior Scientific Officer	Marine chemistry and geochemistry; Nutrients; Waters; Pollution
Stavrakakis , Spiridon (Mr)	BS	Scientific Officer	Marine geology and geophysics; Sedimentology; Coastal and nearshore processes
Taliadouri-Voutsinou , Fani (Ms)	PhD	Principal Scientific Officer	Marine chemistry and geochemistry; Heavy metals; Sediments; Pollution
Theocharis , Alexandros (Mr)	BS	Senior Scientific Officer	Physical oceanography; Watermasses and circulation
Tziavos , Christos (Mr)	MSc	Senior Scientific Officer	Marine geology and geophysics; Coastal and nearshore processes; Paleontology
Vassilopoulou , Vasiliki (Ms)	MSc	Scientific Officer	Marine biology and ecology; Fish; Taxonomy; Community and population studies; Fisheries

GREECE

Name	Degree	Position	Specialization
Verikokakis , Emanuil (Mr)	BS	Scientific Officer	Marine chemistry and geochemistry; Organics; Waters
Zenetas , Argyro (Ms)	PhD	Higher Scientific Officer	Marine biology and ecology; Benthos; Molluscs; Taxonomy and systematics; Community and population studies; Monitoring and assessment; Pollution; Environmental impact assessment
Zodiatis , George (Mr)	MSc	Scientific Staff	Physical oceanography; Water masses and circulation

National Centre for Scientific Research "Demokritos"
Institute of Biology
Hydrobiology Laboratory (NRC "DEMOKRITOS")
Ethniko Kendro Erevnas Physikon Epistimon "Demokritos"
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Executive officer Dr Ion SIOTIS, Director

Governmental, national institution founded in 1963. Languages: Greek; English

Nature of activities Research

Purpose and objectives Research on primary productivity, phytoplankton populations and effects of eutrophication on the marine environment

Areas of speciality/activities Nutrients; Phytoplankton; Algae; Eutrophication; Plankton blooms; Productivity; Community and population studies; Monitoring and/or assessment; Pollution

Environments Coastal zone; Pelagic environment

Geographic areas Mediterranean Sea; Aegean Sea

Research programmes/projects

- Ecological studies on the effects of pollution and eutrophication on the phytoplanktonic ecosystem
- Primary productivity of inshore marine ecosystems

Co-operative research programmes/projects

- University of the Aegean, Department of Environmental Studies, Mytilene
- UNEP: Eutrophication assessment based on multivariate procedures; criteria development for the management of coastal waters

Staff Professional 2; Technical 1

Information facilities

Publications "DEMO" Reports

Library 70000 volumes/reprints; 1200 periodicals **Librarian** Ms Noria Christoforidou

Computers Remote access to the Computer Centre; PCs **Applications** Database management; Mathematical; Modelling; Scientific; Statistical; Word processing **Data exchange** 5.25" PC diskettes; Lotus 1-2-3, various WP and ASCII text files

Physical facilities 1000 m²

Laboratories 100 m²; climate controlled **Laboratory equipment** Spectrophotometer (Varian 634); Salinometer (CSIRO); Fluorometer (Baird); Scintillation counter (Packard Tricarb 4000); Balances; **Field equipment** Water bottles; Sea surface microlayer samplers; Nets; Underwater photometer **Species maintained** Skeletomema costatum; Pavlova lutheri; Nitzschia closterium

Research vessels/crafts hired, occasionally

Facilities for 2 visiting scientists; 2 students **Conference/seminar facilities** for 100 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Becacos-Kontos, Theano (Ms)	Doctorate		Biological oceanography; Primary productivity
Ignatiades, Lydia (Ms)	PhD		Biological oceanography; Phytoplankton ecology
Siotis, Ion (Mr)	PhD	Director	

GREECE

University of Athens
Department of Chemistry
Division III-Inorganic and Environmental Chemistry
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GREECE

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Executive officer Dr Michael J SCOULLOS, Professor of Environmental and Marine Chemistry

Governmental, national institution founded in 1835. Languages: Greek; English

Nature of activities Research; Laboratory; Academic/educational; Policy and planning; Information/public awareness

Purpose and objectives Education-training/research/scientific advice/policy and participation in national monitoring projects

Areas of speciality/activities Air-sea interaction; Nutrients; Heavy metals; Sediments; Waters; Suspended matter; Biota; Algae; Eutrophication; Monitoring and/or assessment; Coastal zone management; Pollution; Environmental education; Ocean policy/law of the Sea; Resources management; Drafting plans for the management of marine parks and ecologically important lagoons; Active participation in scientific and ocean policies; International consultations

Environments Lakes; Brackishwater; Coastal zone; Pelagic environment; Rivers; Lagoons; Islands; Estuaries

Geographic areas Mediterranean Sea; Aegean Sea; Gulf of Lyon; Ionian Sea

Research programmes/projects

- Study of estuaries, mainly transport of metals in dissolved and particulate forms
- Thorough study of the magnetic properties of particles and sediments ("Pioneer", research in the Mediterranean)
- Study of air-water and water-sediment interactions

Co-operative research programmes/projects

- UNEP/MED POL (monitoring and research)
- Full participation in phases I and II of the EEC funded programme, EROS 2000 (European River Ocean Systems)
- Leading role in the newly developing AIMS Programme (EEC-MAST II) for the eastern Mediterranean area

Training programmes

- Three undergraduate courses in environmental chemistry and chemical oceanography, offered annually
- One 2 1/2 year postgraduate course in oceanography for 20 scientists, offered annually since 1974

Staff Professional 12; Technical 2; Other 5

Information facilities

Publications Textbooks for the lectures offered; Various publications of the University of Athens

Library Yes

Computers 2 PCs (IBM XT); 2 Printers (Star LN10, Star LC10) **Applications** Database management; Graphics; Scientific; Statistical; Word processing **Data exchange** 5.25"(DD) PC diskettes; dBase, WordStar, ASCII text files

Physical facilities 700 m²

Laboratories 200 m²; climate controlled **Laboratory equipment** 4 water sampling bottles 3.5 lt. (Hydrobios); 3 water sampling bottles 5 lt. (Hydrobios); 2 sediment pneumatic corers (Mackeith); 1 AF demagnetizer; 2 pulse magnetizers; 1 minispin (Molspin); 1 magnetic susceptibility meter (Bartington); 1 atomic absorption spectrophotometer-HGA 300 (Perkin Elmer); 1 UV VIS photometer (Hitachi)

Facilities for 90 students **Conference/seminar facilities** for approximately 1000 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Camberi , Helen (Ms)	MSc	Researcher	Chemical oceanography; Chemical-biological interactions
Dassenakis , Manos (Mr)	DSc	Lecturer	Chemical oceanography; Trace elements; Nutrients; Estuaries
Degaita , Antonia (Ms)	MSc	Researcher	Geochemistry; Geochemistry of lagoons and inland waters
Foufa , Helen (Ms)	MSc	Researcher	Chemical oceanography; River pollution
Gaitlich , Martin (Mr)	MSc	Researcher	Biology; Ecology; Ecological management of lagoons and other biotopes
Iordanidou , Zoe (Ms)	MSc	Researcher	Chemical oceanography; Coastal and inland waters
Krasakopoulou , Eva (Ms)	MSc	Researcher	Chemical oceanography; Petroleum hydrocarbons; Interactions with metals

GREECE

Name	Degree	Position	Specialization
Mantzara , Bessy (Ms)	MSc	Researcher	Chemical oceanography; Trace metals; Environmental management
Mertzanis , Aris (Mr)	MSc	Researcher	Geological oceanography; Geology of coasts; Coastal management
Remountaki , Emmanuela (Ms)	DSc	Researcher	Atmospheric chemistry; Oceanography; Aerosols; Air-water interface
Scoullos , Michael (Mr)	DSc/PhD	Professor/Executive Officer	Chemical oceanography; Environmental chemistry; Trace metals and nutrients in seawater; Suspended particles; Sediments
Zeri-Symeon , Christina (Ms)	MSc	Researcher	Environmental chemistry; Magnetics; Magnetic characterisation of particles and sediments

University of Patras
Physical Chemistry Laboratory (PCL)
Panepistimio Patras
Ergastirio Physikis Chimias

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 GREECE

Telephone (30) 61 997110
Telex 312447 UN PA GR
Fax (30) 61 991725

Executive officer Professor Nicholas A KATSANOS, Director

Governmental, national institution founded in 1969. Languages: Greek

Nature of activities Research; Laboratory; Academic/educational

Purpose and objectives Teaching and research at the higher education level in the area of physical chemistry

Areas of speciality/activities Marine chemistry and geochemistry; Analytical methodology; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Physical planning; Lectures and practical courses in various aspects of physical chemistry, quantum chemistry and applications of computers to chemistry

Environments Lakes; Coastal zone; Pelagic environment; Rivers

Geographic areas Mediterranean Sea; Aegean Sea; Ionian Sea

Research programmes/projects

- Heterogeneous catalysis studies by reversed-flow gas chromatography (RF-GC)
- Mass transfer rates studied by RF-GC
- Thermodynamic studies of solutions by RF-GC
- Development of field-flow fractionation (FFF) for characterizing colloidal materials and macromolecules
- Particulate matter in coastal waters
- Ab initio calculations of molecular properties

Co-operative research programmes/projects

- EEC Step Programme: Physicochemical parameters, including pollutants interaction, affecting the rates of dry deposition on stone surfaces

Training programmes

- The use of chromatographic methods for physicochemical measurements: course leading to Doctoral Degree

Staff Professional 3; Technical 3

Information facilities

Publications Various

Computers Various **Applications** Education; Graphics; Mathematical; Modelling; Scientific; Statistical; Word processing

Physical facilities 400 m²

Laboratories 250 m²; climate controlled **Laboratory equipment** Various physicochemical instruments such as spectrophotometers, chromatographs (gas and liquid), electrochemistry apparatus, etc.

Conference/seminar facilities available

Professional/Scientific staff

Name	Degree	Position	Specialization
Karaiskakis, George (Mr)	Doctorate	Professor	Physical chemistry; Chromatography
Katsanos, Nicholas A (Mr)	Doctorate	Professor/Director	Physical chemistry; Chromatography; Catalysis; Radiochemistry
Maroulis, George (Mr)	PhD	Assistant Professor	Quantum chemistry; Theoretical chemistry; Computers

GREECE

University of the Aegean
Department of Environmental Studies (UA)
Panepistimio Aegeou
Tmima Perivallondos

17 Karantoni Street
Mytilene 81100
Lesvos
GREECE

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(30) 251 29579
Telex 297172 UASS GR
Fax (30) 251 23783

Executive officer Mrs Anna SFIROGIANNAKI, Administrative Manager

Governmental, national institution founded in 1984. Languages: Greek

Nature of activities Research; Laboratory; Academic/educational

Purpose and objectives Teaching and research in the areas of ecosystem management, society and environment and environmental engineering

Areas of speciality/activities Physical oceanography; Instruments and methods; Water masses and circulation; Currents and dispersion; Waves, tides, surges and sea level; Marine chemistry and geochemistry; Nutrients; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Marine biology and ecology; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Eutrophication; Plankton blooms; Marine biochemistry; Marine microbiology; Taxonomy and systematics; Productivity; Community and population studies; Marine environmental management; Coastal zone management; Pollution; Nature conservation and/or restoration; Environmental impact assessment; Environmental economics; Environmental education; Remote sensing; Ocean policy/law of the Sea; Development policy/planning; Recreation/tourism; Resources management

Environments Coastal zone; Pelagic environment; Islands

Geographic areas Mediterranean Sea; Aegean Sea; Ionian Sea

Research programmes/projects

- The ecosystem of the Messolonghi saltworks
- The Kalama River delta
- The Ioannina sewerage
- Environmental protection of the east Kavala coast
- Impact of pollution on the flora of Attica
- Human impact on the Aegean islands ecosystems
- The diversion of the Acheloos River
- Ecosystem management
- The Athens air pollution problem
- Crete and the Aegean islands: Effects of changing climate and the environment
- Ecologic evaluation of the Kitros (Pieria) saltworks ecosystem dispersal in the greater Athens region
- Methods of detection and quality determination of odours
- Determination of air particulates through ion chromatography

- Textbook authoring: Management of industrial wastes
- Prefecture of Lesvos waste management programme
- Waste management of the greater Chania area
- Impacts of urbanization on ocean resources
- Petra
- Salt purification
- Agricultural production of Lesvos
- Modern agriculture practices and eutrophication in the Pagassitikos Gulf
- "Green in the cities"

Training programmes

- ERASMUS: Urban and regional planning
- Island studies

Staff Professional 10; Technical 6; Other 36

Information facilities

Publications Technical reports

Library 1500 volumes/reprints; 56 periodicals **Librarian** Mrs Katerina Karabela

Computers Various **Applications** Education; Graphics; Library/documentation; Mapping; Modelling; Word processing

Physical facilities 2400 m²

Laboratories 140 m² **Laboratory equipment** UV-Visible spectrophotometer; Ion chromatographer; Gas chromatographer; Inverted microscope; Bomb calorimeter etc **Species maintained** Collection of phytoplankton species: Skeletonema costatum; Pavlova lutheri; Platymonas sp.; Nitzschia closterium; Exuviaella baltica

Facilities for 25 students **Conference/seminar facilities** for 50 participants, with TV-Video, overhead projector (connected to computer), slide projector

Professional/Scientific staff

Name	Degree	Position	Specialization
Coccosis , Harry (Mr)	PhD	Associate Professor	Environmental planning; Urban planning; Regional planning; Management of islands and coasts
Halvadakis , Costas P (Mr)	PhD	Associate Professor	Environmental engineering; Systems of solid waste management; Waste water management and water quality
Hatzopoulos , Ioannis (Mr)	PhD	Professor	Remote sensing; Photogrammetry; Geographic information systems (GIS); Computer applications; Computers for digital image processing; Data management by GIS

GREECE

Name	Degree	Position	Specialization
Karydis , Michael (Mr)	PhD	Associate Professor	Marine ecology; Toxicology; Phytoplankton; Aquaculture; Pollution
Lekkas , Themistoclis (Mr)	PhD	Assistant Professor	Water resources; Water treatment; Waste water treatment; Management of water resources; Management of liquid and gaseous wastes
Margaris , Nicolaos S (Mr)	PhD	Professor	Ecosystems management; Structure, dynamics, function and management of Mediterranean-type ecosystems, especially islands
Sfirogiannaki , Anna (Ms)		Administrative Manager	
Skourtos , Michael (Mr)	PhD	Assistant Professor	Environmental economics; Economic theory and politics of natural resources; History of economic thought; Economics of energy
Sophoulis , Costas Man (Mr)	PhD	Professor	Economics; Urban economics; Land economics; Regional economics; Management of educational institutions; Economics of islands
Troumbis , Andreas Y (Mr)	PhD	Assistant Professor	Theoretical ecology; Terrestrial ecosystems; Management of terrestrial ecosystems; Disturbance in terrestrial ecosystems; Population dynamics
Vernicos , Nicolaos (Mr)	PhD	Associate Professor	Economics; Islands management and organization in Greece; Economic and social history of Mediterranean countries

ISRAEL

Hydrological Service of Israel

Hasherut Hahidrology

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ISRAEL

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Executive officer Dr Arie BEN-ZVI, Director

Governmental, national institution founded in 1944. Languages: Hebrew; English

Nature of activities Research; Laboratory; Policy and planning; Information/public awareness

Purpose and objectives Data collection, storage and dissemination; Estimation of hydrologic background and results for proposed water resources management activities

Areas of speciality/activities Hydrology; Disaster preparedness and relief; Resources management; Hydrologic network operation; Assessment of surface and groundwater yield; Aquatic protection; Adviser to the Water Commissioner; Research on hydrologic processes

Environments Lakes; Brackishwater; Rivers

Geographic areas Mediterranean Sea; Red Sea; Dead Sea

Research programmes/projects

- Data collection networks
- Groundwater flow paths delineation
- Instrument development
- Surface water yield
- Flood risks
- Contaminant flow in the unsaturated zone
- Hydrometeorology

Staff Professional 22; Technical 27; Other 5

Information facilities

Publications Annual reports; Hydrologic Yearbook for Israel; Summary of hydrologic effects of the wet season; The hydrologic state; Technical reports (irregular)

Library 10000 volumes/reprints; 15 periodicals **Co-operative programmes/projects** Geological Survey Library **Librarian** Dr Regina Landau

Computers Various Applications Database management; Library/documentation; Modelling; Network access; Scientific; Statistical; Word processing **Data exchange** Remote access

ISRAEL

Physical facilities 1000 m²

Laboratories 200 m²; climate controlled **Laboratory equipment** Chemical laboratory equipment

Professional/Scientific staff

Name	Degree	Position	Specialization
Azmar , Benjamin (Mr)	MA	Hydrogeologist	Hydrogeology
Bachmat , Yehuda (Mr)	DSc	Researcher	Groundwater hydrology
Beckowitz , Brian (Mr)	PhD	Researcher	Groundwater modelling
Ben-Zvi , Arie (Mr)	PhD	Director/Researcher	Surface water hydrology
Ben-Zvi , Meir (Mr)	PhD	Head, Information Department	Stochastic processes
Day , Achia (Mr)	PhD	Head, Research Department/ Researcher	Mathematical simulation of hydrologic processes
Elhanati , Sarah (Ms)	BA	Hydrologist	Water sources protection
Eyal , Michael (Mr)	BA	Head, Computerized Systems Unit	Computer sciences
Gilead , Dror (Mr)	BA	Hydrogeologist	Hydrogeology
Goldberger , Shalom (Mr)	MSc	Head, Water Resources Department	Applied hydrology
Kesler , Shmuel (Mr)	PhD	Deputy Director	System analysis
Kollin , Martin L (Mr)	MSc	Researcher	Contaminant transport
Landau , Regina (Ms)	PhD	Librarian	Chemistry
Mahler , Olga (Ms)	MA	Programmer	Computer sciences
Melloul , Avraham (Mr)	DSc	Deputy Head, Hydrology Department	Hydrology
Paskal , Fabian (Mr)	BS	Hydrologist	Data processing
Ronen , Daniel (Mr)	PhD	Researcher	Contaminant motion in the unsaturated zone
Rosenthal , Eliahu (Mr)	PhD	Head, Hydrology Department/Researcher	Hydrology
Shlimovich , Mura (Ms)	MSc	Head, Data Processing Unit	Surface hydrology
Vinokurov , Asia (Ms)	MA	Hydrogeologist	Hydrogeology
Wolfzen , Misha (Mr)	MSc	Planner	Hydraulics; Hydrology

**Israel Oceanographic and Limnological Research Ltd
The National Centre for Mariculture (IOLR-NCM)**

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Elat 88112
ISRAEL

Telephone (972) 59 373154
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Executive officer Mr Hillel GORDIN, Director

Governmental, national institution founded in 1967. Languages: Hebrew; English

Nature of activities Research; Technical training; Laboratory; Academic/educational

Purpose and objectives Development of mariculture technologies

Areas of speciality/activities Marine biology and ecology; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Eutrophication; Plankton blooms; Molluscs; Crustaceans; Marine physiology; Marine biochemistry; Marine microbiology; Parasitology; Pathology of marine species; Toxicology; Aquaculture; Mariculture research and development

Environments Coastal zone

Geographic areas Mediterranean Sea; Red Sea

Research programmes/projects

- Reproduction of marine fish and bivalves
- Larval rearing
- Fish nutrition
- Mariculture food chains (microalgae, rotifers, Artemia)
- Fish growout in inshore ponds and floating cages at sea
- Bivalve cultivation
- Macroalgae cultivation
- Integrated fish/bivalve systems
- Fish pond water quality
- Pathobiology of fish and bivalves
- Genetic selection
- Mariculture engineering
- Environmental impact of mariculture

Co-operative research programmes/projects

- Egypt/US: Marine Technology Programme for the Middle East
- Collaborative research projects with numerous institutions worldwide

Training programmes

- Training and educational programmes for graduate students (PhD, MSc), undergraduate students, high-school students and science oriented youth
- Training of technicians

ISRAEL

Staff Professional 22; Technical 33; Other 15

Information facilities

Publications Technical reports (in Hebrew and English); Biennial report (in English); Papers in reviewed journals

Library Monographs/reprints specializing in aquaculture; 140 periodicals

Co-operative programmes/projects Libraries and institutions specializing in aquaculture

Librarian Ms Gila Tandler

Computers Various PCs **Applications** Accounting/financial planning; Communications; Database management; Graphics; Library/documentation; Scientific; Statistical; Word processing

Physical facilities

Laboratories Climate controlled **Laboratory equipment** FISH REPRODUCTION CONTROL LABORATORY: Packard Tri-carb 4530 beta counter; LKB 1275 mini gamma radiation counter; Radioimmunoassay measuring facility; Waters HPLC system; Incubators; Centrifuges; Microscopes; Freezers FISH LARVAL REARING FACILITY: Dissecting and compound microscopes; HIAC PC-320 particle size analyser NUTRITION FACILITY: Tecator Kjeltec system; Hewlett Packard 5890 gas chromatograph; Waters HPLC; Parr bomb calorimeter; Bifa ashing furnace; Buchi rotavaporator ALGAL PHYSIOLOGY AND WATER QUALITY LABORATORIES: Perkin Elmer LS-5B spectrofluorometer; LI-COR LI-1000 light meter; Nikon Labophot epifluorescence microscope; Olympus BH2 microscope ANALYTICAL CHEMISTRY LABORATORY: Technicon II autoanalyser; Radiometer automatic titration system; Oxygen pH and ammonium electrodes; Miscellaneous equipment for sample preparation and chemical analyses GENETICS DEPARTMENT: Laboratory equipment for recombinant DNA experiments; Various 20°C and 4°C facilities; Various dry and wet incubators **Aquariums** 50x0.6-20 m³; 4x4 m³; 27x0.6 m³; 30x0.4 m³; 15x5 m³; 6x100 m³; 4x175 m³; 1x1000 m³; **Species maintained** Microalgae; Bivalves; Rotifers; Artemia

Facilities for visiting scientists and students **Conference/seminar facilities** for 30 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Angel , Dror (Mr)	PhD	Scientist	Microbiological ecology
Colorni , Angelo (Mr)	MSc	Scientist	Fish pathobiology
Diamant , Ariel (Mr)	PhD	Senior Scientist	Fish pathobiology
Elizur , Abigail (Ms)	PhD	Scientist	Molecular biology; Fish reproduction
Gordin , Hillel (Mr)	MSc	Director	
Gurshkov , Galina (Ms)	PhD	Scientist	Genetics
Gurshkov , Sergei (Mr)	PhD	Scientist	Genetics
Kissil , George (Mr)	PhD	Senior Scientist	Fish nutrition
Knibb , Wayne (Mr)	PhD	Scientist	Genetics; Genetic engineering
Koven , Bill (Mr)	PhD	Scientist	Fish nutrition
Mozes , Noam (Mr)	MSc	Scientist	Mariculture engineering

Name	Degree	Position	Specialization
Neori, Amir (Mr)	PhD	Senior Scientist	Algal physiology and biotechnology
Popper, Dan (Mr)	PhD	Senior Scientist	Fish physiology and ecology
Shpigel, Muki (Mr)	PhD	Senior Scientist	Bivalves reproduction, physiology and cultivation
Tandler, Amos (Mr)	PhD	Senior Scientist	Larval rearing; Fish physiology

**Israel Oceanographic and Limnological Research Ltd
The National Institute of Oceanography (IOLR-NIO)**

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Executive officer Dr Yuval COHEN, Director General

Governmental, national institution founded in 1967. Languages: Hebrew; English

Nature of activities Research; Technical training; Laboratory; Academic/educational; Policy and planning

Purpose and objectives Achieve understanding of marine environments and monitor their state; Provide a scientific basis for decision making on the utilization, conservation and management of Israel's neighbouring sea areas and its inland water bodies

Areas of speciality/activities Physical oceanography; Instruments and methods; Water masses and circulation; Currents and dispersion; Air-sea interaction; Waves, tides, surges and sea level; Modelling; Marine chemistry and geochemistry; Analytical methodology; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Suspended matter; Biota; Marine geology and geophysics; Sedimentology; Coastal and nearshore processes; Seismology; Marine biology and ecology; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Eutrophication; Molluscs; Crustaceans; Marine physiology; Marine biochemistry; Marine microbiology; Taxonomy and systematics; Productivity; Community and population studies; Fisheries; Aquaculture; Marine environmental management; Monitoring and/or assessment; Coastal zone management; Pollution; Environmental impact assessment; Marine technology; Oceanographic research; Monitoring, research and development in marine biotechnology; Development of new technologies for the exploitation of marine resources

Environments Coastal zone; Pelagic environment; Benthic environment; Rivers; Littoral zone; Coral reefs and atolls; Estuaries

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Geographic areas Mediterranean Sea; Levantine Sea; Red Sea; Dead Sea

Research programmes/projects

Oceanography

- Multidisciplinary investigations of the eastern Mediterranean, Gulf of Aqaba (Red Sea) and the Dead Sea
- Circulation of the eastern Mediterranean and Gulf of Aqaba
- Modelling of physical processes
- Air-sea interaction
- Dynamics of the continental shelf area (currents, waves)
- Sea level monitoring
- Nutrient dynamics and productivity
- Trace metal biogeochemistry in the coastal zone
- Physical chemistry of hypersaline solutions
- Coastal processes and sediment transport
- Geophysics of the continental margin
- Taxonomy and ecology of benthic organisms, including population studies
- Dynamics of Medusae populations
- Immunology of marine invertebrates
- Biology and ecology of coral reefs
- Fisheries research
- Marine pollution monitoring and research

Marine biotechnology

- Development of technologies for the cultivation of macroalgae and microalgae for the production of biochemicals
- Development of technologies for cryopreservation of marine organisms used in aquaculture
- Development of a rotifer reference centre
- Research on shrimp reproduction
- Genetic engineering research (fish)

Co-operative research programmes/projects

- UNEP/MED POL
- POEM
- Egypt/US: Marine Technology Programme for the Middle East
- US National Oceanic and Atmospheric Administration (NOAA): Agreement on scientific and technical co-operation
- Numerous collaborative research projects with research institutions worldwide

Training programmes

- Training and educational programmes for graduate students (PhD, MSc), undergraduate students, high-school students and science oriented youth
- Training of technicians

Staff Professional 41; Technical 21; Other 30

Information facilities

Publications Technical reports (in Hebrew and English); Biennial report (in English); Papers in reviewed journals

Library 4000 monographs; 14000 reprints; 1000 periodicals **Co-operative programmes/projects** With 400 libraries worldwide **Librarian** Ms Ruth Paldi

Computers 3 DEC Vax cluster stations; Various PCs **Applications** Accounting/financial planning; Communications; Database management; Desktop publishing; Graphics; Library/documentation; LAN; Mathematical; Mapping; Modelling; Network access; Scientific; Statistical; Word processing

Physical facilities

Laboratories Climate controlled **Laboratory equipment** **Field**: Neil Brown Instruments Systems CTD; Intercean S4P profiling current meter; Aanderaa recording current meters; Water level recorders with a tape reader; Sonardyne acoustic release systems; Aanderaa meteorological station; Aanderaa thermistor chain; Long-term monitoring, sea level station equipped with a marine 2 MB Pacer 63512/DWG instrument; 63512/DWG Pacer system; CAS wave gauge systems; Single channel continuous seismic profiling system; BX 700 AI Compact box corer for sampling of undisturbed deep sea sediments; Miscellaneous biological sampling gear; Equipment for hydrographic surveys. **Hydrographic Surveying Unit**: Trimble, NavTrac, GPS navigation system; Analogue/digital Odom Echotrac 3200; Raytheon OSF 6000 echosounders; Geomagnetics G-866; G-856 magnetometers; ORE 136 3.5-12kHz sub-bottom profiler; Uniboom EG&G model 230 sub-bottom profiler; Benthos 378/3881 still camera; OSPREY 1336/1311 TV camera; Messotec altimeter and a magnetic compass. **Analytical Facilities**: Perkin Elmer model 1100B, atomic absorption spectrophotometer; IL 951 atomic absorption spectrophotometer; Perkin Elmer 50A cold vapour analyser; 443 flame photometer; Technicon AA-II and Alpkem RFA autoanalysers; Radiometer DTS-833 automated titration systems; Equipment for wet and dry sample preparation; Equipment for physico-chemical measurements; HPLC system dedicated to analysis of lipids; Hewlett Packard 5890 gas chromatograph; Gilford 250 spectrophotometer; Perkin Elmer 781 IR spectrophotometer; Dynatech microtiter plate reader MR250; Kontron Betamatic scintillation counter; Coulter counter equipped with Coulter multisizer; Computer controlled (Packard Bell PB 8518 SV) cryostage fitted on an Olympus microscope (model BH2 with Nomarskii optics); Various microscopes; Centrifuges; Ultracentrifuge and sample preparation equipment; Dark room with developing tanks **Aquariums** Seawater system and experimental tanks; Experimental algae cultivation farm

Research vessels/crafts RV "Shikmona II", 27 m, equipped with modern communication, GPS navigation system, hydrographic and CTD winches, 6 t/m crane, side A frame, accommodations for 12 scientists; RV "Etziona", 10 m, fibreglass fishing boat, equipped with hydraulic winch, accommodations for 2

Facilities for visiting scientists and students **Conference/seminar facilities** for 100 participants; Several meeting rooms

Professional/Scientific staff

Name	Degree	Position	Specialization
Ben-Amotz , Ami (Mr)	PhD	Senior Scientist	Algal biochemistry, physiology and biotechnology
Bishop , Jonah (Mr)	MSc	Scientist	Physical oceanography; Coastal engineering
Brenner , Steve (Mr)	PhD	Senior Scientist	Physical oceanography; Meteorology

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Name	Degree	Position	Specialization
Cavari , Benzion (Mr)	PhD	Senior Scientist	Genetic engineering; Aquatic microbiology
Cohen , Yuval (Mr)	PhD	Director General	
Friedlander , Michael (Mr)	PhD	Senior Scientist	Algal ecology and biotechnology
Funkenstein , Bruria (Ms)	PhD	Senior Scientist	Genetic engineering; Molecular biology
Galil , Bella (Ms)	PhD	Senior Scientist	Marine biology; Benthos taxonomy; Ecology and population studies
Golik , Abraham (Mr)	PhD	Senior Scientist	Marine geology; Coastal processes; Marine pollution
Halfon , Benny (Mr)	MSc	Scientist	Computer engineering
Hecht , Artur (Mr)	PhD	Senior Scientist	Physical oceanography
Herut , Barak (Mr)	PhD	Scientist	Geochemistry
Hornung , Hava (Ms)		Scientist	Aquatic chemistry; Marine pollution
Iosilevskii , Yaakov (Mr)	PhD	Senior Scientist	Physics; Mathematics
Kalikhman , Yigal (Mr)	PhD	Senior Scientist	Fisheries hydroacoustics
Kress , Nurit (Ms)	PhD	Scientist	Aquatic chemistry; Marine pollution
Krumgalz , Boris (Mr)	PhD	Senior Scientist	Aquatic physical chemistry
Levy , Israel (Mr)	PhD	Scientist	Algal ecology and genetics
Livne , Alexander (Mr)	PhD	Scientist	Algal biochemistry
Lubzens , Esther (Ms)	PhD	Senior Scientist	Rotifers, shrimp biochemistry; Cryopreservation of marine organisms
Mart , Yossi (Mr)	PhD	Senior Scientist	Marine geophysics
Rinkevich , Baruch (Mr)	PhD	Senior Scientist	Marine biology and ecology; Invertebrates immunology; Coral reefs
Rosen , Dov (Mr)	MSc	Scientist	Coastal engineering
Rozentroub , Zvi (Mr)	MSc	Scientist	Physical oceanography
Sukernik , Assaf (Mr)	PhD	Senior Scientist	Algal biochemistry, physiology and biotechnology
Tom , Moshe (Mr)	PhD	Senior Scientist	Shrimp biochemistry; Benthos ecology

**Israel Oceanographic and Limnological Research Ltd
The Yigal Allon Kinneret Limnological Laboratory (IOLR-KLL)**

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Executive officer Professor Thomas BERMAN, Director

Governmental, national institution founded in 1968. Languages: Hebrew; English

Nature of activities Research; Laboratory; Academic/educational; Policy and planning

Purpose and objectives Achieve understanding of lake ecosystem and its responses to environmental perturbation

Areas of speciality/activities Physical oceanography; Instruments and methods; Water masses and circulation; Currents and dispersion; Waves, tides, surges and sea level; Modelling; Analytical methodology; Nutrients; Sediments; Waters; Suspended matter; Biota; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Eutrophication; Plankton blooms; Marine biochemistry; Marine microbiology; Productivity; Fisheries; Limnology/freshwater; Monitoring and/or assessment; Pollution; Environmental impact assessment; Monitoring and research in physical, chemical and biological limnology

Environments Lakes; Pelagic environment; Benthic environment; Rivers

Geographic areas Lake Kinneret

Research programmes/projects

- Special emphasis: Phosphorus cycling
- Microbial loop
- Impact of small scale salinity changes
- Fishery acoustics for ecological assessments
- Linking of physical models (e.g. DYRESM) with water quality parameters
- Impact of Fe on lake microbiota

Co-operative research programmes/projects

- Egypt/US: Marine Technology Programme for the Middle East
- POEM
- US Bureau of Reclamation: Agreement on scientific and technical co-operation
- Collaborative research projects with numerous institutions worldwide

Staff Professional 18; Technical 14; Other 6

Information facilities

Publications Annual and occasional reports (in Hebrew); Biennial report (in English); Papers in reviewed journals

ISRAEL

Computers Various **Applications** Communications; Database management; Graphics; Modelling; Scientific; Statistical; Word processing

Physical facilities

Laboratories climate controlled **Laboratory equipment** Most basic equipment for limnological research

Research vessels/crafts Vessels for lake research

Facilities for 4 visiting scientists; 6 students

Professional/Scientific staff

Name	Degree	Position	Specialization
Bergstein-Ben Dan , Talya (Ms)	PhD	Scientist	Microbiology; Photosynthetic bacteria
Berman , Thomas (Mr)	PhD	Professor/Director	Aquatic microbiology; Phytoplankton protozoan bacterial interactions
Gophen , Moshe (Mr)	PhD	Senior Scientist	Fish; Zooplankton ecology; Zooplankton physiology
Hadas , Ora (Ms)	PhD	Scientist	Microbiological ecology; Microbial loop; Anaerobic processes in sediments
Herman , Gary (Mr)	PhD	Scientist	Physical limnology; Physical modelling
Mechres , Ehud (Mr)	PhD	Scientist	Physical limnology; Currents
Nishri , Aminidav (Mr)	PhD	Scientist	Aquatic chemistry; Chemical cycling
Ostrovsky , Ilia (Mr)	PhD	Senior Scientist	Limnology; Benthos ecology
Parparov , Arkadi (Mr)	PhD	Senior Scientist	Hydrobiology; Limnology
Parparov , Roza (Ms)	PhD	Scientist	Hydrochemistry
Pollingher , Utsa (Ms)	PhD	Senior Scientist	Phytoplankton ecology and taxonomy
Serruya , Salvador (Mr)	PhD	Senior Scientist	Physical limnology; Physical modelling
Shteinman , Boris (Mr)	PhD	Senior Scientist	Hydrogeology
Walline , Paul (Mr)	PhD	Scientist	Fisheries ecology; Hydroacoustics
Wynne , David (Mr)	PhD	Senior Scientist	Algal physiology; Aquatic toxicology; Algal biochemistry
Yacobi , Yosef (Mr)	PhD	Scientist	Algal physiology; Primary production
Zohary , Tamar (Ms)	PhD	Senior Scientist	Microbiological ecology; Phytoplankton ecology

**Kimron Veterinary Institute
Veterinary Services and Animal Health
Fishery Products Laboratory**

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ISRAEL

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Executive officer Dr Alexander G GELMAN, Director

Governmental, national institution founded in 1971. Languages: Hebrew; English; Russian

Nature of activities Research; Laboratory

Purpose and objectives General research in fish biology, biochemistry and fishery products technology

Areas of speciality/activities Fish; Marine physiology; Parasitology; Fishery technology; Fish quality control; Tests on imported fish; Effects of irradiation on the quality of packaged carp; Development of objective methods for fish quality tests; New products development; Biochemistry of the digestive system of the Nile crocodile

Environments Lakes; Pelagic environment; Benthic environment

Geographic areas Mediterranean Sea; Atlantic Ocean

Research programmes/projects

- Biochemistry of the Nile crocodile
- Effects of irradiation on the preservation quality of some packaged fish

Co-operative research programmes/projects

- Technion-Israel Institute of Technology, supported by the German/Israel Fund for Research and Development (GIFRD): Utilization of small fish for human consumption
- Technion-Israel Institute of Technology, supported by the Ministry of Industry and Commerce: Development of an analogue caviar having long shelf life without refrigeration

Staff Professional 4; Technical 1; Other 1

Information facilities

Publications Various

Library 800 volumes; 3000 reprints; 8 periodicals

Computers 1 PC (IBM); 1 Printer (FACIT) **Applications** Database management; Desktop publishing; Graphics; Library/documentation; Scientific; Statistical; Word processing **Data exchange** 5.25"(HD) PC diskettes; Lotus 1-2-3 file

ISRAEL

Physical facilities 200 m²

Laboratories 120 m²; climate controlled **Laboratory equipment** Gas chromatograph tracor 560; Tracor TS-10 recorder; Sorvall RC2-B refrigerated centrifuge; Microfresh-freshness analyser; Torrymeter, OHAUS-laboratory balances-4; Beckman DU-50 spectrophotometer; FLUORIMET, "AFOS" 10961/3smok mini kiln; Odor levels indicator XP-329; Incubators-2; Penetrometer Humboldt; Hobart food cutter; Ice machine; Autoclaves-2; pH-meters 3; Electromantle ME-4; Homogenizers-4; Shakers-3; Electrophoresis, etc

Conference/seminar facilities for 30 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Benjamin, Evgenia (Ms)	MSc	Biochemist	Chemical engineering; Technology and biochemistry of fish
Drabkin, Vladimir (Mr)	MSc	Veterinary Doctor	Biochemistry; Biology and biochemistry of fish
Gelman, Alexander (Mr)	PhD	Director/Senior Research Fellow	Biology; Biochemistry and technology of fish
Pasteur, Rachel (Ms)	MSc	Biochemist	Biochemistry; Technology and biochemistry of fish

Ministry of Agriculture Department of Fisheries Fishing Technology Unit (FTU)

Kishon Fishing Harbour, Haifa
P.O. Box 584
Q. Motzkin 26117
ISRAEL

Telephone (972) 4 668332
Fax (972) 4 668333

Executive officer Mr Shmuel PISANTY, Chief

Governmental, national institution founded in 1971. Languages: Hebrew; English

Nature of activities Research; Technical training; Policy and planning; Fishing technology

Purpose and objectives Adviser to the Director of the Fisheries Department on management policy;
Consultant to fishermen on fishing technology

ISRAEL

Areas of speciality/activities Fish; Fisheries; Resources management; Monitoring of trawl fishery; Experiments with surface-long lines with live bait; Development of wire tension metre for trawls; Monitoring effects of industrial waste disposal in two dump-sites in connection to fish

Environments Lakes; Coastal zone

Geographic areas Mediterranean Sea; Levantine Sea

Co-operative research programmes/projects

- Israel Oceanographic and Limnological Research (IOLR): Monitoring of industrial waste disposal dump-sites, investigating all aspects other than fish

Staff Professional 3; Other 1

Information facilities

Computers 1 PC 286 (IBM) **Applications** Database management; Statistical; Word processing

Physical facilities 75 m²

Laboratories 72 m² **Laboratory equipment** Echosounder SIMRAD EY-M; Oscilloscope; Spectrophotometer-Milton Roy; Spectronic 20D; Stereomicroscopes; Assortment of marine biology sampling gear; Diving equipment **Aquariums** 2x3 m³; 3x1 m³; 4x0.5 m³ **Species maintained** Epinephelus aeneus; Sarotherodon aureus

Research vessels/crafts Loa boat, 5.3 m, 23 hp diesel engine

Professional/Scientific staff

Name	Degree	Position	Specialization
Khanin, Yuri (Mr)	MSc	Technologist	Inshore fishing; Mariculture; Water quality criteria; Electric fishing
Pisanty, Shmuel (Mr)	MSc	Chief	Fishing technology; Fishery surveys
Sonin, Oren (Mr)	BA	Technologist	Trawl fishing

ISRAEL

Ministry of Health "Dr A. Felix" Public Health Laboratory

69 Ben Zwi Street
P.O. Box 8255
Tel Aviv 61082
ISRAEL

Telephone (972) 3 830261
Fax (972) 3 826996

Executive officer Dr Abraham MATES, Director

Governmental, national institution founded in 1946. Languages: Hebrew; English

Nature of activities Laboratory

Purpose and objectives Main branch of the National and Regional Public Health Authorities;
Microbiological testing of seawater and sand for the safe use of recreational facilities

Areas of speciality/activities Marine microbiology; Marine environmental management; Monitoring and/or assessment; Chemical and microbiological testing of seawater and food; Testing for syphilis, toxoplasmosis, shigelia and mycobacteria

Environments Coastal zone

Geographic areas Mediterranean Sea

Research programmes/projects

- Major research programme in microbiology of drinking water and seawater
- Mycobacteriology
- Toxoplasmosis

Co-operative research programmes/projects

- UNEP/MED POL Programme

Staff Professional 28; Technical 12; Other 3

Information facilities

Library 8 periodicals

Computers PCs (IBM) **Applications** Database management **Data exchange** Remote access

Physical facilities 1500 m²

Laboratories 1200 m²; climate controlled

Facilities for 2 visiting scientists **Conference/seminar facilities** for 25 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Bar-Dov, L (Mr)	MD	Microbiologist	Water analysis
Cohen, I (Mr)	PhD	Director of Chemistry Laboratory	Chemistry; Water chemistry analysis
Ghinsburg, R (Mr)	PhD	Director of Regional Laboratory	Microbiology; Seawater analysis
Mates, Abraham (Mr)	PhD/MPh	Director	Microbiology; Seawater microbiology
Nishri, Z (Ms)	MSc	Head, National Centre for Toxoplasmosis	Toxoplasmosis; Serology of toxoplasma
Royo, M (Ms)	PhD	Chemist	Food analysis; Chemical food analysis
Sklut, O (Ms)	MSc	Food Microbiologist	Food microbiology; Food analysis

**Technion-Israel Institute of Technology
Coastal and Marine Engineering Research Institute (CAMERI)**

Technion
Haifa 32000
ISRAEL

Telephone (972) 4 220642
 (972) 4 292957
Telex 46406 TECON IL, Attn. CAMERI
Fax (972) 4 220133

Executive officer Professor Hillel RUBIN, Director

Private commercial institution founded in 1976. Languages: Hebrew; English

Nature of activities Research; Laboratory; Academic/educational

Purpose and objectives Marine engineering research and consultation

Areas of speciality/activities Physical oceanography; Instruments and methods; Water masses and circulation; Currents and dispersion; Air-sea interaction; Waves, tides, surges and sea level; Modelling; Sedimentology; Coastal and nearshore processes; Marine environmental management; Monitoring and/or assessment; Coastal zone management; Pollution; Nature conservation and/or restoration; Environmental impact assessment; Research project concerning modelling of coastal structure; Research project concerning the performance of various types of vessels; Engineering consultation regarding the design of marinas

Geographic areas Mediterranean Sea

ISRAEL

Staff Professional 10; Technical 7; Other 3

Information facilities

Publications Technical reports relevant to research projects

Library Yes **Co-operative programmes/projects** Library of the Department of Civil Engineering, Technion **Librarian** Mrs Mira Eisler

Computers Various **Applications** Engineering; Mathematical; Modelling; Scientific; Word processing

Physical facilities

Laboratories 1300 m²

Conference/seminar facilities available **Lodging** available

Professional/Scientific staff

Name	Degree	Position	Specialization
Agnon, Yehuda (Mr)	DSc	Senior Lecturer	Hydrodynamics; Sea waves; Applied mathematics
Boguslavsky, Irina (Ms)	DSc	Senior Scientist	Naval hydrodynamics
Keren, Yehuda (Mr)	DSc	Senior Scientist	Hydraulics; Hydraulic structures
Kit, Eliezer (Mr)	DSc	Professor	Hydrodynamics; Sea water
Rubin, Hillel (Mr)	DSc	Professor/Director	Hydrodynamics; Hydraulics; Flow in porous media
Stiassnie, Michael (Mr)	DSc	Professor	Sea waves; Maritime structures
Vajda, Michael (Mr)	DSc	Professor	

Tel-Aviv University Institute for Nature Conservation Research (INCR) *Makhon L'Heker Shimur Hateva*

University Street
Tel Aviv 69978
ISRAEL

Telephone (972) 3 5459813
Telex 342171
Fax (972) 3 6425518
E-mail (D63) TAUNUS

Executive officer Professor Lev FISHELSON, Director

Governmental, national institution founded in 1965. Languages: Hebrew; English

Nature of activities Research; Academic/educational; Information/public awareness

Purpose and objectives The study of anthropogenic impact on ecosystems and the advancement of ecosystem conservation

Areas of speciality/activities Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Biota; Zooplankton; Benthos; Fish; Molluscs; Coastal zone management; Pollution; Nature conservation and/or restoration; Environmental education; Bioindicators of pollution along the Mediterranean littoral and in the Gulf of Aqaba, Red Sea; Lichens as pollution bioindicators; Xenobiotics in animals around industrial centres; Ecology of rivers and littoral of Lake Tiberias

Environments Lakes; Brackishwater; Coastal zone; Benthic environment

Geographic areas Mediterranean Sea; Red Sea

Training programmes

- Ecology of animals and man
- Environmental quality in Nature Reserves
- Limnology
- Environmental quality
- Environmental toxicology

Staff Professional 8; Technical 3; Other 7

Information facilities

Library 160 periodicals

Computers Various Applications Communications; Database management; Desktop publishing; Education; Mathematical; Modelling; Scientific; Word processing

Physical facilities

Laboratories 400 m²; climate controlled **Laboratory equipment** SCUBA, 3 sets; Ultrascope; Spectrophotometer; HPLG; Gas-chromatograph; Ultracentrifuge **Aquariums** 6x3 m³ **Species maintained** Numerous invertebrates; Cat fish; Tilapias; African cichlidae

Facilities for 2 visiting scientists; 14 students

Professional/Scientific staff

Name	Degree	Position	Specialization
Fishelson, Lev (Mr)	Doctorate	Professor/Director	Zoology; Ecology; Dynamics of ecosystems; Ichthyology
Garty, Yaacob (Mr)		Assistant Professor	Botany; Lichens; A1 bioindicators

ISRAEL

Name	Degree	Position	Specialization
Gasith , Avital (Mr)		Assistant Professor	Limnology; Zoology; Ecology of freshwater littorals
Meshel , Zeev (Mr)		Senior Lecturer	Geography
Perry , Al (Mr)		Professor	Biology; Chemistry; Pest control
Sne , Borukh (Mr)		Associate Professor	Soil; Soil microbiology; Pathogenic fungi; Pest control by Bacillus thuringensis; Botany
Yaavetz , Aminadav (Mr)		Senior Scientist	Biochemistry; Environmental toxicology
Zahavi , Amotz (Mr)		Professor	Zoology; Sociobiology
Zuck-Rimon , Zohar (Mr)	MSc	Assistant	Zoology; Rodents

Weizmann Institute of Science

Rehovot 76100
ISRAEL

Telephone (972) 8 343111
Telex 381300
Fax (972) 8 466966
E-mail (BITNET)

Executive officer Professor Haim HARARI, President

Private non-profit institution founded in 1934. Languages: English; Hebrew

Nature of activities Research; Laboratory; Academic/educational

Purpose and objectives The Weizman Institute of Science is devoted to research and to graduate teaching in the natural and exact sciences

Areas of speciality/activities Water masses and circulation; Air-sea interaction; Modelling; Marine chemistry and geochemistry; Sediments; Waters; Marine meteorology and climatology; The Institute has 20 research departments, grouped into five Faculties: Mathematical sciences, Physics, Chemistry, Biophysics-Biochemistry, Biology, and the Department of Science Teaching within the Feinberg Graduate School

Environments Lakes; Coastal zone; Lagoons

Geographic areas Mediterranean Sea; Aegean Sea; Levantine Sea; Atlantic Ocean; Red Sea; Dead Sea

Staff Professional 400; Technical 600

Information facilities

Publications Annual scientific report; List of current research projects; Rehovot Magazine

Library Yes **Co-operative programmes/projects** Various **Librarian** Mrs Ilana Pollack

Computers Various **Applications** Accounting/financial planning; Communications; Education; Library/documentation; LAN; Modelling; Network access; Scientific; Word processing **Data exchange** Remote access via network

Physical facilities 100000 m²

Laboratories climate controlled

Facilities for 120 visiting scientists; 600 students **Conference/seminar facilities** for 600 participants **Lodging** for 60

ITALY

Centre for Studies in Engineering and Applied Economics

Centro Studi di Economia all'Ingegneria (CSEI)

27 Via Cifali
Catania 95023
ITALY

Telephone (39) 95 439181
Fax (39) 95 437671

Executive officer Professor Salvatore INDELICATO, Director

Private non-profit institution founded in 1975. Languages: Italian; English

Nature of activities Research; Technical training

Purpose and objectives Rational utilization of natural resources (particularly water resources) in southern Italy

Areas of speciality/activities Marine environmental management; Pollution; Environmental impact assessment; Environmental economics; Environmental education; Development policy/planning; Resources management; Research; Education; Technical assistance to public agencies

Environments Lakes; Coastal zone; Rivers; Littoral zone

Geographic areas Ionian Sea

Research programmes/projects

- Water systems management
- Information systems
- Natural resources and agricultural development
- Pollution control in rivers, lakes and coastal zones
- Economic evaluation and environmental impacts

Co-operative research programmes/projects

- Centro Formazune e Studi per il Mezzogiorno-Roma (FORMEZ): Programme on pollution control and irrigation development
- Consiglio Nazionale delle Ricerche-Roma (CNR): Programme on groundwater protection
- Sicily Region programme on wastewater plans and information systems in water resources management

Training programmes

- Pollution control and environmental protection
- Water supply for municipal, industrial and agricultural use
- Information systems

Staff Professional 6; Technical 3; Other 3

Information facilities**Publications** Quaderni CSEI-Catania**Library** Yes **Co-operative programmes/projects** Various **Librarian** Mrs Alba Musumeci

Computers 1 DEC MicroVax II; 2 IBM PS/2; 2 PCs (DEC 350); 1 Plotter (Benson); 1 Digitizer (Benson) **Applications** Accounting/financial planning; Database management; Graphics; Modelling
Data exchange Remote network access/Electronic mail (EARN/Bitnet); 5.25" PC diskettes; Tape (ASCII, TK50)

Physical facilities 300 m²**Conference/seminar facilities** for 30 participants**Professional/Scientific staff**

Name	Degree	Position	Specialization
Battiato , Salvatore Enrico (Mr)	Laurea	Researcher	Economics; Environmental impacts
Francalanza , Santo (Mr)	Laurea	Researcher	Engineering; Computer sciences
Giardina , Emilio (Mr)	Laurea	President	Law; Economics; Economics of natural resources
Indelicato , Salvatore (Mr)	Laurea	Professor/Director	Engineering; Water resources; Hydraulics; Irrigation; Pollution control
Magi , Salvatore (Mr)	Laurea	Researcher	Engineering; Computer sciences
Rossi , Giuseppe (Mr)	Laurea	Researcher	Engineering; Water resources; Hydrology; Water systems

Consortium for Research in Sardinia
Institute of Marine Science
Consorzio per le Ricerche in Sardegna
Istituto Scienze del Mare (CO.RI.SA-I.S.MAR)

21 Piazza Università
Sassari 07100
ITALY

Telephone (39) 79 398772
(39) 79 398655
Fax (39) 79 398524

ITALY

Executive officer Professor Antonio MILELLA, President

Private non-profit institution founded in 1981. Languages: Italian; English; French

Nature of activities Research

Purpose and objectives Research, studies and training courses in marine environmental problems

Areas of speciality/activities Nutrients; Sediments; Waters; Suspended matter; Biota; Topography and morphology; Sedimentology; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Plankton blooms; Molluscs; Crustaceans; Marine mammals; Marine microbiology; Taxonomy and systematics; Productivity; Fisheries; Aquaculture; Remote sensing; Assistance to the Ministries of Environment and Merchant Marine and to major governmental institutions in assessing marine environmental problems, especially along the Sardinian coast

Environments Brackishwater; Coastal zone; Benthic environment; Littoral zone; Lagoons

Geographic areas Mediterranean Sea; Algero-Provencal Basin

Research programmes/projects

- Environmental studies and research in the Sardinian sea areas and in the field of marine mammal population of the Italian seas

Co-operative research programmes/projects

- University of Cagliari
- Regione Sardegna
- ENEA
- TECNOMAR
- FORMEZ

Training programmes

- Training courses in mariculture, molecular biology, aquaculture, statistics and agroinformatics

Staff Professional 14; Technical 2; Other 10

Information facilities

Computers 4 PCs (1 Compaq 286, 1 Epson AX2, 2 PCBit 286s); 5 Apple Macintosh computers; Printers (Epson) **Applications** Communications; CAD/CAM/CAE; Graphics; Library/documentation; Mapping; Scientific; Statistical; Word processing

Physical facilities 1860 m²

Laboratories 800 m² **Laboratory equipment** Complete SCUBA equipment; Main apparatus for chemical and biological analyses of marine samples

Research vessels/crafts 1 Boston Whaler 25 (1989), 4 ton, 25 feet, 2 crew; 1 inflatable BWA, 4.3MT, engine Mariner 25 CV

Facilities for 10 students

Professional/Scientific staff

Name	Degree	Position	Specialization
Milella , Antonio (Mr)		Professor/President	
Milella , Isabella (Ms)	Laurea	Researcher	Marine environment; Zoobenthos
Pagliara , Tiziano (Mr)	Laurea	Researcher	Aquaculture
Pintus , Maria Grazia (Ms)	Laurea	Researcher	Marine environment; Marine microbiology
Saba , Silvia (Ms)	Laurea	Researcher	Marine environment; Ichthyology; Fisheries
Virdis , Giancarlo (Mr)	Laurea	Researcher	Marine environment; Sedimentology

**General Fisheries Council for the Mediterranean
Food and Agricultural Organization of the United Nations (GFCM-FAO)**
*Conseil Général des Pêches pour la Méditerranée
Organisation des Nations Unies pour l'Alimentation et l'Agriculture (CGPM)*

Via delle Terme di Caracalla
 Roma 00100
 ITALY

Telephone	(39) 6 5797
Telex	610181 FAO I
Cable	FOODAGRI ROME
Fax	(39) 6 57976500

Executive officer Mr Habib BEN ALAYA, Secretary of the Council/Senior Fisheries Liaison Officer
 United Nations institution founded in 1949. Languages: English; French; Spanish; Arabic

Nature of activities Policy and planning; Technical advice

Purpose and objectives Co-ordination of activities related to fishery management, regulations and research in the Mediterranean

Areas of speciality/activities Analytical methodology; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Biota; Phytoplankton; Zooplankton; Benthos; Fish; Eutrophication; Plankton blooms; Molluscs; Crustaceans; Toxicology; Taxonomy and systematics; Productivity; Fisheries; Aquaculture; Monitoring and/or assessment; Coastal zone management; Pollution; Artificial reefs; Development policy/planning; Resources management; Working groups, panels, etc.

Environments Coastal zone; Pelagic environment; Benthic environment; Lagoons; Coral reefs and atolls

ITALY

Geographic areas Mediterranean Sea; Black Sea

Staff Professional 2

Information facilities

Publications GFCM Reports; GFCM Studies and Reviews; GFCM Statistical Bulletin

Library Yes

Computers Various **Applications** Desktop publishing; Scientific; Statistical; Word processing

Physical facilities

Conference/seminar facilities for 1200 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Ben Alaya , Habib (Mr)	Doctorate	Senior Officer/Secretary of the Council	Marine biology
Caddy , John (Mr)	PhD	Chief, Marine Resources Service (FIRM)	Marine biology

High Institute of Health
Department of Environmental Microbiology
Istituto Superiore di Sanità
Dipartimento di Microbiologia Ambientale (ISS)

299 Viale Regina Elena
Roma 00161
ITALY

Telephone (39) 6 4490774
Telex 610071
Fax (39) 6 4440064

Executive officer Professor Laura VOLTERRA, Director of Environmental Microbiology

Governmental, national institution. Languages: English; French

Nature of activities Research; Technical training; Laboratory

Purpose and objectives Research activities in the field of microbiology including virology and algal toxicology; Co-ordination of monitoring activities along coastal areas, and inland waters

ITALY

Areas of speciality/activities Phytoplankton; Eutrophication; Plankton blooms; Marine microbiology; Toxicology; Monitoring and/or assessment; Pollution; Enteroviruses; Water and air microbiology; Algal toxicology; Biological indicators

Geographic areas Adriatic Sea; Ionian Sea; Ligurian Sea; Sicilian Channel; Tyrrhenian Sea

Research programmes/projects

- Alternative indicators of fecal pollution in recreational waters
- Bioaerosols
- Enteroviruses in various aqueous matrices
- Biological indicators in rivers located in the Roman district
- DSP and PSP from marine environments
- Cyanoglycosides in freshwater reservoirs
- Physiology and toxicology of *Prymnesium parvum*
- Studies on "dirty sea" origins

Training programmes

- Aquatic biotoxins

Staff Professional 6; Technical 12

Information facilities

Publications Annali dell' Istituto Superiore di Sanita, journal; Technical reports

Library Yes **Co-operative programmes/projects** Various **Librarian** Dr Berruti

Computers 1 IBM 370; Various PCs **Applications** Accounting/financial planning; Mathematical; Modelling

Physical facilities 20000 m²

Laboratories 800 m²; climate controlled

Conference/seminar facilities available

Professional/Scientific staff

Name	Degree	Position	Specialization
Aulicino, F A (Ms)	Doctorate	Doctor	Enteroviruses
Bonadonna, L (Ms)	Doctorate	Doctor	Microbiology
Bruno, M (Ms)	Doctorate	Doctor	Algal toxicology
Di Girolamo, I (Ms)	Doctorate	Doctor	Biological indicators
Gucci, P M B (Ms)	Doctorate	Doctor	Algal toxicology
Volterra, L (Ms)	Doctorate	Professor/Director	Biotoxins and microbiology

ITALY

Laboratory of Marine Biology

Laboratorio di Biologia Marina

Molo Pizzoli (Porto)

Bari 70100

ITALY

Telephone (39) 80 5211200

(39) 80 5213486

Fax (39) 80 5213486

Executive officer Professor Giovanni MARANO, Director

Governmental, local institution founded in 1960. Languages: Italian; English

Nature of activities Research; Laboratory

Purpose and objectives Research on productivity, pollution, aquaculture and fisheries

Areas of speciality/activities Nutrients; Waters; Biota; Marine biology and ecology; Phytoplankton; Zooplankton; Benthos; Fish; Molluscs; Crustaceans; Marine mammals; Productivity; Community and population studies; Fisheries; Aquaculture; Pollution; Artificial reefs

Environments Coastal zone; Pelagic environment; Benthic environment

Geographic areas Adriatic Sea; Strait of Otranto

Research programmes/projects

- Studies on the fishing of swordfish and tuna
- Clupeiformes
- Baby clams
- Trawlfishery

Co-operative research programmes/projects

- Studies on the fishing of swordfish in Greece

Training programmes

- Courses in marine biology and primary/secondary productivity

Staff Professional 6; Technical 8; Other 3

Information facilities

Publications 4 - 5 reports and monographs annually

Library 700 volumes/reprints; 5 periodicals **Co-operative programmes/projects** Various

Computers PCs (Olivetti M24); Printers (Olivetti) **Applications** Database management; Scientific; Statistical; Word processing **Data exchange** WordStar 5, Lotus 1-2-3 files

Physical facilities 3500 m²

Laboratories 380 m² **Laboratory equipment** Spectrophotometer UV visible; Colorimetro Minilyzer della Tecnicon Italiana; Sonda oceanografica; pH meter; Sonda polarografica per O2; Complete diving equipment for three licensed divers for underwater vehicle **Aquariums** 20x110000 m³ **Visitors** 10000 annually **Species maintained** *Dicentrarchus labrax*; *Sepia officinalis*

Research vessels/crafts RV "Podon", fishing trawler, 15,81 TSL 180 HP, equipped with radar, echosounder, radio and scientific equipment; RV "Aquamaster"

Facilities for 2 visiting scientists; 4 students

Professional/Scientific staff

Name	Degree	Position	Specialization
Bello, Giambattista (Mr)	Laurea	Assistant	Zoology; Cephalopoda
Casavola, Nicola (Mr)	Laurea	Vice Director	Oceanography; Fish nutrients; Productivity
De Zio, Vito (Mr)	Laurea	Assistant	Zoology; Marine mammals; Fisheries
Marano, Giovanni (Mr)	Laurea	Director	Marine biology; Ecology; Fishery pollution; Aquaculture
Paparella, Pasqua (Ms)	Laurea	Assistant	Microbiology; Water pollution
Pastorelli, Anna Maria (Ms)	Laurea	Assistant	Zoology; Benthos; Mollusca
Rizzi, Ermenegilda (Ms)	Laurea	Assistant	Marine biology; Phytoplankton; Fishery
Ungaro, Nicola (Mr)	Laurea	Assistant	Zoology; Fish; Fisheries; Benthos
Vaccarella, Raffaele (Mr)	Laurea	Vice Director	Zoology; Benthos; Mollusca; Fisheries

Laboratory of Marine Biology

Laboratorio di Biologia Marina (LBM)

Strada Costiera 336
S. Croce
Trieste 34010
Friuli Venezia-Giulia
ITALY

Telephone (39) 40 224400
(39) 40 224464
(39) 40 224620
Fax (39) 40 224437

ITALY

Executive officer Professor Mario SPECCHI, Scientific Director

Parastatal institution founded in 1975. Languages: Italian; English; French

Nature of activities Research

Purpose and objectives Scientific activities at a national and international level; Establishment of a centre for pure and applied research

Areas of speciality/activities Physical oceanography; Marine chemistry and geochemistry; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Suspended matter; Biota; Marine geology and geophysics; Sedimentology; Marine biology and ecology; Phytoplankton; Zooplankton; Benthos; Algae; Eutrophication; Plankton blooms; Molluscs; Crustaceans; Marine physiology; Marine biochemistry; Marine microbiology; Toxicology; Taxonomy and systematics; Community and population studies; Aquaculture; Marine meteorology and climatology; Marine environmental management; Monitoring and/or assessment; Pollution; Environmental impact assessment; Scientific support to the WWF-Riserva Parco di Miramare (Trieste)

Environments Coastal zone; Pelagic environment; Benthic environment; Littoral zone

Geographic areas Adriatic Sea

Research programmes/projects

- Friuli Venezia-Giulia Region: Study of temporal and spatial distribution of potentially toxic algae and detection of toxins produced by algae in mussels

Co-operative research programmes/projects

- Friuli Venezia-Giulia Region/Ministero Marina Mercantile: Monitoring, eutrophication control and evaluation of water quality in mussel farms in the coastal water of the Friuli Venezia-Giulia Region
- Osservatorio Alto Adriatico/Working Community of ALPE-ADRIA: Microalgal blooms, formation of gelatinous organic aggregates and their impact on the north Adriatic ecosystem. Recording incidences of particle formation, detection and follow-up of the time course of development of aggregation processes during the year; comparison to physical, chemical and biological parameters measured in the water column and sediments

Staff Professional 26; Technical 7; Other 5

Information facilities

Publications "Nova Thalassia", journal

Library 10000 volumes/reprints; 50 periodicals **Librarian** Mr Marino Voci

Computers 1 IBM AX400 minicomputer; 10 PCs; Various printers (2 Epson laser, 2 Epson FX and 1 LQ1050 matrix printers) **Data exchange** 5.25"(HD)/3.5"(HD) PC diskettes; Lotus 1-2-3, WordPerfect, WordStar 5.5, MS-Word 5, Windows 3.0, ASCII text files

Physical facilities 1100 m²

ITALY

Laboratories 600 m² **Laboratory equipment** Spectrophotometer; Spectrofluorometer; HPLC; Autoanalyser; Coulter counter; CTD; Salinometer; Refrigeration centrifuge; Thermostats; Autoclave; Rearing cells; Stereomicroscope; Inverted microscope; Fume hoods **Aquariums** 3x0.4 m³

Research vessels/crafts RV "Noctiluca" (1983), 5 m, accommodations for 3 scientists

Facilities for 6 visiting scientists; 12 students **Conference/seminar facilities** for 40 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Aleffi , Ida Floriana (Ms)	Laurea	Researcher	Biology; Benthos; Polychaetes
Bartole , Laura (Ms)	Laurea	Temporary assignment	Biology; Microphytobenthos; Ecology
Beran , Alfred (Mr)	PhD	Temporary assignment	Zoology; Plankton; Protozoans
Brizzi , Giulio (Mr)	Laurea	Fellowship	Natural sciences; Meiobenthos and fisheries; Molluscs; Nematodes
Burba , Nicoletta (Ms)	Laurea	Fellowship	Natural sciences; Quantitative ecology; Databank
Bussani , Diadora (Ms)	Laurea	Fellowship	Natural sciences; Toxicology; Toxic algae
Cabrini , Marina (Ms)	Laurea	Researcher	Biology; Plankton; Phytoplankton
Casaretto , Licia (Ms)	Laurea	Fellowship	Biology; Plankton; Microzooplankton
Cataletto , Bruno (Mr)	Laurea	Temporary assignment	Biology; Plankton; Netzooplankton; Phytoplankton
Celio , Massimo (Mr)	Laurea	Temporary assignment	Geology; Physical oceanography; Thermohaline features of the water column
Cok , Sara (Ms)	Laurea	Temporary assignment	Biology; Plankton; Phytoplankton
Della Valle , Giuseppe (Mr)	Laurea	Fellowship	Natural sciences; Microphytobenthos; Ecophysiology
Del Negro , Paola (Ms)	Laurea	Researcher	Biology; Microbiology; Toxicology; Pollution indicators; Toxic algae
De Olazabal , Alessandra (Ms)	Laurea	Temporary assignment	Natural sciences; Plankton; Netzooplankton
Goriup , Francesca (Ms)	Laurea	Temporary assignment	Natural sciences; Benthos; Polychaetes
Landri , Paola (Ms)	Laurea	Temporary assignment	Biology; Benthos; Molluscs
Milani , Luisella (Ms)	Laurea	Researcher	Biology; Plankton; Microzooplankton
Monti , Marina (Ms)	Laurea	Fellowship	Natural sciences; Plankton; Microzooplankton

ITALY

Name	Degree	Position	Specialization
Nichetto , Paola (Ms)	Laurea	Temporary assignment	Biology; Toxicology; Cysts of toxic algae
Pavesi , Maria Cristina (Ms)	Laurea	Temporary assignment	Biology; Plankton; Microzooplankton; Netzooplankton
Pecchiar , Irene (Ms)	Laurea	Temporary assignment	Biology; Plankton; Phytoplankton
Sanzin , Fabrizio (Mr)	Laurea	Temporary assignment	Geology; Physical oceanography; Meteorology; Thermohaline features and meteorological effects on the water column
Sidari , Laura (Ms)	Laurea	Temporary assignment	Biology; Plankton; Phytoplankton
Specchi , Mario (Mr)	PhD	Scientific Director	
Welcher , Chiara (Ms)	Laurea	Fellowship	Biology; Microphytobenthos; Histochemistry
Zanolin , Bruno (Mr)	Laurea	Temporary assignment	Biology; Meiobenthos; Nematodes; Copepods

Miramare Marine Park

Riserva Naturale Marina di Miramare

349 Viale Miramare
Trieste I 34014
ITALY

Telephone (39) 40 224147
Fax (39) 40 224147

Executive officer Mr Graziano BENEDETTI, Head

Governmental, national institution founded in 1986. Languages: Italian

Nature of activities Laboratory; Academic/educational; Information/public awareness

Purpose and objectives Environmental protection and promotion of environmental awareness; Identification, promotion and implementation of research and educational programmes on the marine environment

Areas of speciality/activities Marine biology and ecology; Community and population studies; Marine environmental management; Environmental education; Recreation/tourism; Resources management; Maintenance and updating of the Visitors Centre

Environments Littoral zone

Geographic areas Mediterranean Sea; Adriatic Sea

Research programmes/projects

- Updating of floro-faunistic charts, research programme

Co-operative research programmes/projects

- Laboratorio di Biologia Marina, Trieste: Marine biology research programme

Staff Professional 4; Technical 1; Other 1

Information facilities

Computers PCs (Philips P3200, Philips CDWS401); Printer (Epson SQ2500) **Applications** Database management; Desktop publishing; Graphics; Library/documentation; Word processing
Data exchange 5.25"/3.5" PC diskettes; Lotus 1-2-3, WordStar, and ASCII text files

Physical facilities 150 m²

Laboratories 80 m² **Laboratory equipment** Diving equipment for 4 people; Underwater TV circuit with monitors in the Visitors Centre (also suitable for ethological studies), as of 1991; Stereomicroscope with TV camera and monitor; Multiparametric marine probe (IDRONAUT, model OCEAN 7) **Aquariums** 2x0.046 m³; 4x0.090 m³; 1x0.150 m³; 5x0.210 m³; 2x0.430 m³; 1x0.250 m³ **Visitors** 18000 annually **Species maintained** Zosterisessor ophyocephalus (Osteichthyes); Squilla mantis (Crustacea)

Research vessels/crafts "Ophiura", cabin cruiser, (1989), 8.5 m, equipped with radar, writing echosounder, radio, GPS, accommodations for 7 scientists or SCUBA-divers, as of 1992

Facilities for 2 visiting scientists; 15 students

Professional/Scientific staff

Name	Degree	Position	Specialization
Benedetti, Graziano (Mr)		Head	
Franzosini, Carlo (Mr)	BA		Algology
Spoto, Maurizio (Mr)	BA	Co-ordinator	Ethology
Zuppa, Francesco (Mr)	BA		Environmental education

Municipal Aquarium and Hydrobiological Station

Acquario Civico e Stazione Idrobiologica

2 Viale Gadio
Milano 20121
ITALY

Telephone (39) 2 86462051
Fax (39) 2 878007

ITALY

Executive officer Dr Mauro MARIANI

Governmental, local institution founded in 1906. Languages: Italian; English; French

Nature of activities Research; Academic/educational; Information/public awareness

Purpose and objectives Scientific research and educational programmes in aquatic ecology

Areas of speciality/activities Heavy metals; Sediments; Sedimentology; Benthos; Fish; Molluscs; Pathology of marine species; Taxonomy and systematics; Community and population studies; Environmental education; Recreation/tourism; Assistance to the Convention on International Trade in Endangered Species (CITES), in the compilation and control of the "Endangered Species" list

Environments Lakes; Brackishwater; Pelagic environment; Benthic environment; Rivers

Geographic areas Mediterranean Sea; Adriatic Sea; Ligurian Sea; Tyrrhenian Sea

Research programmes/projects

- Study on the taxonomy of *Arnoglossus laterna*
- Study on the distribution of the opistobranch molluscs in the Ligurian Sea

Co-operative research programmes/projects

- Tethys-Big Game Italia: Prionace Project: distribution and ecology of *Prionace glauca*
- University/CNR: Nemo Project: physiology of benthic invertebrates in the Mediterranean Sea

Staff Professional 9; Technical 2; Other 22

Information facilities

Publications Quaderni della Civica Stazione Idrobiologica di Milano

Library 9000 volumes/reprints; 686 periodicals **Librarian** Mr Umberto Fratta

Computers 1 IBM PS/2; Apple computers (1 Macintosh SE, 1 Macintosh Plus, 4 Macintosh II); 2 Commodore Amiga 1000; Printers (1 HP Datacopy 730GS, 1 Apple Laserwriter, 4 Epson MX100s)

Applications Accounting/financial planning; Database management; Education; Modelling; Scientific; Statistical; Word processing **Data exchange** 3.5"(HD) PC and Apple diskettes; Lotus 1-2-3, dBase, Excell, Word 4, and ASCII text files

Physical facilities 10000 m²

Laboratories 150 m² **Laboratory equipment** 5 licensed divers **Aquariums** 80x340 m³ **Visitors** 300000 annually **Species maintained** *Dreissena polymorpha*; *Timoclea ovata*

Facilities for 2 visiting scientists **Conference/seminar facilities** for 100 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Bianchi, Irene (Ms)	Doctorate	Research Associate	Ecology; Fish
Davini, Alessandra (Ms)	Doctorate	Research Associate	Ecology; Amphibians

ITALY

Name	Degree	Position	Specialization
Lavorano , Silvia (Ms)	Doctorate	Research Associate	Ecology; Aquariology; Molluscs
Mariani , Mauro (Mr)	Doctorate	Director	Taxonomy; Mathematical ecology; Population dynamics
Mojetta , Angelo (Mr)	Doctorate	Research Associate	Biology
Monti , Angelo (Mr)	Doctorate	Research Associate	Pathology; Fish
Notarbartolo di Sciara , Giuseppe (Mr)	PhD	Research Associate	Biology; Mammals
Perego , Cristina (Ms)	Doctorate	Research Associate	Ecology; Aquariology; Molluscs
Saroglia , Marco (Mr)	Doctorate	Research Associate	Aquaculture; Fish
Vinci , Antonino (Mr)	Doctorate	Biotechnologist	Chemistry; Water analysis

Naples Zoological Station "Anton Dohrn"

Stazione Zoologica "Anton Dohrn" (SZN)

Villa Comunale
Napoli 80121
ITALY

Telephone (39) 81 5833111
Telex 720256 SZN I
Cable AQUARIUM NAPOLI
Fax (39) 81 7641355
E-mail (ITAPAC)

Executive officer Dr Lucio CARIELLO, Director General

Parastatal institution founded in 1872. Languages: Italian; English

Nature of activities Research; Technical training; Laboratory

Purpose and objectives Biological and marine environmental research

Areas of speciality/activities Water masses and circulation; Modelling; Analytical methodology; Nutrients; Sediments; Suspended matter; Biota; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Eutrophication; Plankton blooms; Molluscs; Crustaceans; Marine biochemistry; Taxonomy and systematics; Productivity; Community and population studies; Nature conservation and/or restoration; Environmental education; Development of marine resources; Quality control of marine waters

Environments Brackishwater; Coastal zone; Pelagic environment; Benthic environment; Littoral zone

Geographic areas Mediterranean Sea; Adriatic Sea; Ionian Sea; Levantine Sea; Sicilian Channel; Tyrrhenian Sea; Antarctic

ITALY

Research programmes/projects

- Biochemistry
- Cell biology
- Neurobiology
- Benthic ecology
- Marine botany
- Biological oceanography
- Aquariology

Co-operative research programmes/projects

- CEE: Functional approach to the study of Posidonia oceanica ecosystem of the Mediterranean Sea
- CEE: Box and flux of nitrogen and carbon in Posidonia oceanica

Staff Professional 33; Technical 55; Other 17

Information facilities

Publications Marine Ecology; History and Philosophy of the Life Sciences; Technical reports (irregular)

Library 65000 volumes/reprints; 600 periodicals **Co-operative programmes/projects** University of Naples library **Librarian** to be appointed

Computers 1 IBM AS400; PCs; Local Area Network **Applications** Accounting/financial planning; Communications; Database management; Desktop publishing; Graphics; Library/documentation; LAN; Modelling; Network access; Scientific; Statistical; Word processing **Data exchange** Remote access via network for E-mail

Physical facilities 9000 m²

Laboratories 3000 m²; climate controlled **Laboratory equipment** 3 Electron microscopes; Centrifuges, balances, analytical instruments; Optical microscopes; 9 licensed divers **Aquariums** 50x265 m³; 25x250 m³ **Visitors** 100000 visitors annually **Species maintained** Marine organisms from the Bay of Naples

Facilities for 30 visiting scientists **Conference/seminar facilities** for 30 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Aniello , Francesco (Mr)	Laurea	Investigator	Biochemistry; DNA-Protein interaction
Bentivegna , Flegrea (Ms)	Laurea	Principal Investigator	Public aquarium; Scientific museum; Ecology and sexual dimorphism in fish
Branno , Margherita (Ms)	Laurea	Investigator	Biochemistry; DNA-Protein interaction
Buia , Maria Cristina (Ms)	Laurea	Investigator	Benthic ecology; Systematics; Ecology of macrophytes
Cariello , Lucio (Mr)	Laurea	Senior Investigator/Director General	Biochemistry; Peptide biosynthesis
Casazza , Gianna (Ms)	Laurea	Investigator	Cell biology; Antarctic programme
Cirino , Paola (Ms)	Laurea	Investigator	Public aquarium; Scientific museum; Keeping marine organisms in captivity
D'Aniello , Antimo (Mr)	Laurea	Principal Investigator	Biochemistry; Amino-acids metabolism
D'Onofrio , Giuseppe (Mr)	Laurea	Investigator	Biochemistry; Gene expression
Dale , Brian (Mr)	Laurea	Principal Investigator	Cell biology; Cell-cell interaction
De Santis , Amedeo (Mr)	Laurea	Principal Investigator	Neurobiology; Nervous transmission
De Santis , Rosaria (Ms)	Laurea	Principal Investigator	Cell biology; Cell-cell interaction
Fiorito , Graziano (Mr)	Laurea	Investigator	Neurobiology; Behaviour
Gambi , Maria Cristina (Ms)	Laurea	Investigator	Benthic ecology; Systematics; Ecology of Polychaeta
Ianora , Adrianna (Ms)	Laurea	Investigator	Biological oceanography; Reproductive biology of marine copepods
Marino , Donato (Mr)	Laurea	Principal Investigator	Marine botany; Phytoplankton distribution
Mazzella , Lucia (Ms)	Laurea	Principal Investigator	Benthic ecology; Ecophysiology of micro and macrophytes
Mazzocchi , Maria Grazia (Ms)	Laurea	Investigator	Biological oceanography; Temporal cycles and distribution of zooplankton
Miralto , Antonio (Mr)	Laurea	Senior Investigator	Neurobiology; Opioid peptides
Modigh , Monica (Ms)	Laurea	Investigator	Biological oceanography; Primary production
Montresor , Marina (Ms)	Laurea	Investigator	Marine botany; Ecophysiology and life cycles of microphytes
Nardi , Giovanna (Ms)	Laurea	Principal Investigator	Biochemistry; Oxido-reduction mechanism
Palumbo , Anna (Ms)	Laurea	Investigator	Biochemistry; Melanogenesis

ITALY

Name	Degree	Position	Specialization
Ribera d'Alcala, Maurizio (Mr)	Laurea	Principal Investigator	Biological oceanography; Phytoplankton-physicochemical environment interaction
Romano, Giovanna (Ms)	Laurea	Investigator	Biochemistry; Cell-cell interaction
Russo, Giovanni (Mr)	Laurea	Investigator	Benthic ecology; Systematics and ecology of molluscs
Santella, Luigia (Ms)	Laurea	Investigator	Cell biology; Cell-cell interaction
Scardi, Michele (Mr)	Laurea	Investigator	Biological oceanography; Numerical ecology; Data analysis
Scipione, Beatrice (Ms)	Laurea	Investigator	Benthic ecology; Systematics; Ecology of amphipods
Spagnuolo, Antonietta (Ms)	Laurea	Investigator	Biochemistry; Peptide biosynthesis
Tosti, Elisabetta (Ms)	Laurea	Investigator	Cell biology; Cell-cell interaction
Zanetti, Laura (Ms)	Laurea	Principal Investigator	Biochemistry; Peptide biosynthesis
Zingone, Adriana (Ms)	Laurea	Investigator	Marine botany; Ecology and taxonomy of phytoplankton

**National Institute for Cancer Research
Centre for the Study of Tumors of Environmental Origin
Istituto Nazionale per la Ricerca sul Cancro
Centro per lo Studio dei Tumori di Origine Ambientale (IST-CSTA)**

10 Viale Benedetto XV
Genova 16132
ITALY

Telephone (39) 10 35341
Telex 286353
Fax (39) 10 352999

Executive officer Dr Leonardo SANTI, Professor

Governmental, national institution founded in 1978. Languages: Italian; English

Nature of activities Research; Laboratory; Academic/educational

Purpose and objectives Under the National Institute for Cancer Research, the Center for the Study of Tumors of Environmental Origin co-ordinates all activities in the field of environmental carcinogenesis

Areas of speciality/activities Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Fish; Molluscs; Toxicology; Pollution; Environmental economics; Marine technology; Development policy/planning; Toxicological evaluation of industrial and environmental chemical compounds; Analytical intercomparison methods for the concentration of metals in welding fumes; Analytical intercomparison methods for PAH concentration in marine sediments (project commissioned by the EC)

Environments Coastal zone

Geographic areas Mediterranean Sea; Ligurian Sea

Research programmes/projects

- Assessment of the carcinogenic risks deriving from human exposure to environmental chemicals
- Study of genotoxic effects induced by environmental agents in different marine species
- Monitoring of carcinogenic and mutagenic marine pollutants in the Ligurian Sea
- Biomonitoring of human populations exposed to potentially carcinogenic substances

Co-operative research programmes/projects

- International Agency for Research on Cancer (IARC), Lyon, France: Molecular markers of exposure to environmental carcinogens
- UNEP/MED POL, Athens, Greece: Establishment of a co-ordinating centre for the study of marine pollutants in the Mediterranean Sea
- EEC Joint Research Centre, Ispra, Italy: European data bank on carcinogenic activity of chemicals
- National Cancer Institute, Bethesda, USA: Case control study on effects of pesticides

Training programmes

- Teaching courses on oncology for the Faculty of Medicine and the Faculty of Science
- Training course for laboratory technicians

Staff Professional 11; Technical 10; Other 5

Information facilities

Publications Annual report; Journal (in Italian); Technical reports; Scientific papers in the world literature

Library 3300 volumes/reprints; 246 periodicals **Co-operative programmes/projects** Gruppo Italiano Documentazione Industrie Farmaceutiche e Istituti di Ricerca Biomedica (GIDIF-RBM), 35 Libraries; Gruppo Documentazione Biblioteche Ateneo **Librarian** Dr Donatella Ugolini

Computers 1 HP 3000/42; 1 DEC Microvax II; 80 PCs (AT); 7 Laser printers (HP, Canon)

Applications Database management; Education; Library/documentation; Scientific; Statistical; Word processing **Data exchange** 5.25"(HD)/3.5"(DD) PC diskettes; Unlabelled tape; dBase III, Lotus 1-2-3, WordStar, and ASCII text files

ITALY

Physical facilities 16000 m²

Laboratories 5300 m²

Facilities for 20 visiting scientists; 20 students **Conference/seminar facilities** for 50 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Abbondandolo , Angelo (Mr)	Doctorate	Professor/Director	Mutagenesis; Genetic toxicology
Balbi , Cecilia (Ms)	PhD	Assistant	Chemical carcinogenesis; Non-genotoxic carcinogens
Bolognesi , Claudia (Ms)	PhD	Deputy Director	Chemical carcinogenesis; Genotoxicity tests to evaluate marine pollution
Evangelisti , Morena (Ms)	PhD	Assistant	Scientific information and documentation; Bibliographic search on environmental and health problems
Parodi , Silvio (Mr)	Doctorate	Professor/Director	Chemical carcinogenesis; Risk analysis
Parrini , Marinella (Ms)	PhD	Research Fellow	Chemical carcinogenesis; Genotoxicity tests to evaluate marine pollution
Piccardo , M Teresa (Ms)	PhD	Research Fellow	Environmental chemistry; Monitoring of carcinogenic marine pollutants
Rossi , Lorenzo (Mr)	PhD	Deputy Director	In vivo carcinogenesis; Topographical distribution of fish tumors
Santi , Leonardo (Mr)	PhD	Professor/Executive Officer	
Tanigher , Maurizio (Mr)	PhD	Deputy Director	Chemical carcinogenesis; Risk analysis
Ugolini , Donatella (Ms)	PhD	Deputy Director	Scientific information and documentation; Bibliographic search on environmental and health problems
Valerio , Frederico (Mr)	PhD	Deputy Director	Environmental chemistry; Monitoring of carcinogenic marine pollutants

National Research Council**Institute for the Study of the Dynamics of Large Masses***Consiglio Nazionale delle Ricerche**Istituto per lo Studio della Dinamica delle Grandi Masse (CNR-ISDGM)*

1364 San Polo

Venezia 30125

ITALY

Telephone (39) 41 5216830**Telex** 410095**Cable** SANPOLOLAB**Fax** (39) 41 5216871**E-mail** (BITNET) DII500ECNR1.VE.CNR.IT
(DECNET) 39047.DII500**Executive officer** Dr Gianfranco DALLAPORTA, Director

Parastatal institution founded in 1969. Languages: Italian; English; French

Nature of activities Research; Laboratory**Purpose and objectives** Basic and applied research in oceanography and geology, directed mostly to Venetian problems and carried out on a regional scale**Areas of speciality/activities** Physical oceanography; Water masses and circulation; Currents and dispersion; Air-sea interaction; Waves, tides, surges and sea level; Modelling; Marine chemistry and geochemistry; Nutrients; Heavy metals; Sediments; Waters; Suspended matter; Biota; Marine geology and geophysics; Topography and morphology; Sedimentology; Coastal and nearshore processes; Paleontology; Marine support services; Marine technology; Remote sensing; Data acquisition and telemetry; CNR oceanography projects; National Space Plan/ESA/NASA activities; CEC sponsored projects; IAHS/UNESCO working groups**Environments** Brackishwater; Coastal zone; Benthic environment; Rivers; Littoral zone; Lagoons; Islands; Estuaries**Geographic areas** Mediterranean Sea; Adriatic Sea; Algero-Provencal Basin; Gulf of Lyon; Ionian Sea; Levantine Sea; Ligurian Sea; Sicilian Channel; Strait of Gibraltar; Strait of Otranto; Tyrrhenian Sea

ITALY

Research programmes/projects

- Oceanography Division: Physical oceanography
Mathematical models, experimental studies and observational methods regarding the propagation of tide from the Adriatic, the contribution of water and pollutants from the mainland, and balances of internal processes in the Venice Lagoon
Studies on the general circulation and tides, in the Adriatic and Mediterranean seas
- Geology Division
Description, numerical modelling, geodetic and hydrologic control of land subsidence in the Venetian area
- Environmental Monitoring Division
Development of techniques to measure physical and chemical parameters of lagoon and marine waters and interpretation of in situ collected data
- Santa Teresa Oceanographic Station
Applied research with field measurements and studies on the littoral evolution in the Tyrrhenian coastal areas of Liguria and Tuscany

Co-operative research programmes/projects

- MAST
- POEM
- ERS-1
- Project on the Venice Lagoon System
- Adriatic Sea Co-operative Oceanographic Programme (ASCOP)

Training programmes

- Host laboratory involved in the International Centre for Theoretical Physics Programme for Training and Research in Italian laboratories
- Guiding undergraduate students in their thesis work
- Annual two-week summer course on environmental dynamics

Staff Professional 26; Technical 32; Other 10

Information facilities

Publications Annual report (in Italian); Technical reports

Library 1400 volumes/reprints; 46 periodicals **Librarian** Mrs Maddalena Vianello

Computers DEC Vax 780/3100/5500 cluster **Applications** Accounting/financial planning; Communications; Database management; Desktop publishing; Geographic Information Systems (GIS); Graphics; Mathematical; Mapping; Modelling; Network access; Scientific; Statistical; Word processing **Data exchange** Remote access via networks (BITNET and DECNET); Diskette; Tape

Physical facilities 2500 m²

Laboratories 750 m²

Research vessels/crafts Oceanographic platform "Acqua Alta", located in the northern Adriatic Sea, 8 miles offshore Venice. Laboratory and accommodations total area, 25 m². Instruments onboard include tide gauge, wavemeter, barograph, anemometer, thermometer, current meters, and automatic recording systems; "Umberto D'Ancona", 24.2 m, 82 ton, oceanographic research ship, equipped with navigation, radio echo sounding equipment, oceanographic winches and two laboratories for a total of 14 m², 5 crew, accommodations for 7 scientists; "Litus", 10.2 m, pilot boat, easily transformed into an oceanographic laboratory, 3 crew, 4 scientific personnel; "Mysis", 7.3 m, motor boat, becomes an oceanographic laboratory during field work; "Henetus", 7.3 m, motor boat

Facilities for 3 visiting scientists; 2 students **Conference/seminar facilities** for 50 participants, equipped with slide/overhead projectors, video, TV, etc

Professional/Scientific staff

Name	Degree	Position	Specialization
Alberotanza , Luigi (Mr)	Laurea	Senior Scientist	Oceanography; Experimental oceanography; Visible and IR remote sensing techniques, observations, elaborations; In situ measurements for R.S. calibration; Water management
Astraldi , Mario (Mr)	Laurea	Senior Scientist	Oceanography; Deep water formation in the Ligurian Sea; Study of physical processes in coastal regions; Current circulation in the Tyrrhenian, Ligurian, West Mediterranean Seas
Battiston , Libero (Mr)	Laurea	Senior Scientist	Oceanography; Dynamical systems
Bergamasco , Andrea (Mr)	Laurea	Junior Scientist	Oceanography; Physical processes which govern kinematics and dynamics of currents in shallow water and continental shelves; Development of analytical and numerical models
Bertotti , Luciana (Ms)	Laurea	Junior Scientist	Oceanography; Wind wave dynamics; Shallow water processes; Coastal erosion and sedimentation
Bonardi , Maurizio (Mr)	Laurea	Senior Scientist	Geology; Mineralogy
Carbognin , Laura (Ms)	Laurea	Senior Scientist	Geology; Geomathematical procedures applied to hydrogeology; Land subsidence; Coastal processes
Cavaleri , Luigi (Mr)	Laurea	Senior Scientist	Oceanography; Wave modelling and measurements
Dallaporta , Gianfranco (Mr)	Laurea	Director/Senior Scientist	Oceanography; GPS survey
Dazzi , Renzo (Mr)	Laurea	Senior Scientist	Oceanography; Hydrodynamic numerical modelling; Currents and tides; Wind effects in the lagoon

ITALY

Name	Degree	Position	Specialization
Favero , Vito (Mr)	Laurea	Senior Scientist	Geology; Marine platform; Coastal plains; Quaternary geology; Neotectonics; Evolution of coastal, lagoonal, littoral environment
Gasparini , Gian Pietro (Mr)	Laurea	Senior Scientist	Oceanography; Circulation modelling; Eddy-generation; Ligurian and Mediterranean Sea dynamics
Gatto , Gino (Mr)	Laurea	Senior Scientist	Geology; Hydrogeology
Giromoni , Aldo (Mr)	Laurea	Senior Scientist	Oceanography; Seasonal variations of heat flux in shallow lagoon areas; Modelling of sea-lagoon exchange
Laudanna , Mario (Mr)	Laurea	Senior Scientist	Oceanography; Shore processes; Dynamics of oceans; Physical and chemical parameters; Air-sea interactions
Manzella , Giuseppe (Mr)	Laurea	Junior Scientist	Oceanography; Modelling of the Mediterranean Sea; General circulation in the Ligurian and Mediterranean Seas; Response of a basin to large scale atmospheric fluctuations
Mazzoldi , Andrea (Mr)	Laurea	Senior Scientist	Oceanography; Thermographic techniques
Meloni , Roberto (Mr)	Laurea	Senior Scientist	Oceanography; Design, calibration and implementation of computerized data acquisition systems in physical oceanography; Computer processing and data management
Mozzi , Giuseppe (Mr)	Laurea	Senior Scientist	Geology; Groundwater pollution; Hydrogeology; Processing and interpretation of geodetic and hydrogeologic processing; Levellings; Subsoils; Neotectonics and subsidence
Pianetti , Franco (Mr)	Laurea	Senior Scientist	Geology; River mechanics; Effects of neotectonics and paleoclimatology on variations in the hydrographic net
Rabagliati , Riccardo (Mr)	Laurea	Senior Scientist	Oceanography; Mathematical modelling
Serandrei Barbero , Rossana (Ms)	Laurea	Senior Scientist	Geology; Micropaleontologia applied to the evolution of coastal and lagoonal environments; Glaciology by remote sensing techniques and survey

ITALY

Name	Degree	Position	Specialization
Vazzoler , Sergio (Mr)	Laurea	Senior Scientist	Environmental sciences; Water quality and pollution management
Vincenzi , Sergio (Mr)	Laurea	Senior Scientist	Oceanography; Thermal waves in the soil; Heat flux at water-sediment interface
Zecchetto , Stefano (Mr)	Laurea	Junior Scientist	Oceanography; Air-sea interaction; Microwave active remote sensing
Zonta , Roberto (Mr)	Laurea	Junior Scientist	Environmental sciences; Transport processes; Pollution

**National Research Council
Institute of Fish and Fishery Technology
*Consiglio Nazionale delle Ricerche
Istituto di Tecnologia della Pesca e del Pescato (CNR-ITPP)***

61 Via Luigi Vaccara
Mazaro del Vallo 91026
ITALY

Telephone (39) 923 948723
(39) 923 948966
Fax (39) 923 906634

Executive officer Dr Dino LEVI, Director

Governmental, national institution founded in 1983. Languages: Italian

Nature of activities Research

Purpose and objectives Research in the biology of fish species of commercial interest, fishing technology, seafood technology and exploitation; Collection of related documentation

Areas of speciality/activities Physical oceanography; Modelling; Marine biology and ecology; Benthos; Fish; Molluscs; Crustaceans; Fisheries; Coastal zone management; Artificial reefs; Resources management; Advising regional, national and EEC administrations; Courses on topics of research

Environments Coastal zone; Pelagic environment; Benthic environment

ITALY

Geographic areas Mediterranean Sea

Research programmes/projects

- Assessment and modelling of demersal resources in the Sicilian Channel
- Monitoring and modelling of artificial reefs
- Operational oceanography and pelagic fisheries

Co-operative research programmes/projects

- POEM (forthcoming)

Staff Professional 8; Technical 3; Other 27

Information facilities

Publications NTR-ITPP Technical Reports (irregular); Proceedings of the International Workshop on the Use of Statoliths to Age Cephalopods (in press)

Library 1000 volumes/reprints; 60 periodicals **Librarian** Mr Francesco di Liberti; G B Giusto

Computers DEC PDP 11/73; DEC Microvax 3500; DEC Vaxmate; PCs (IBM AT/XTs, Olivetti M280, Compaq 386/286s) **Applications** CAD/CAM/CAE; Database management; Desktop publishing; Graphics; Library/documentation; Modelling; Scientific; Statistical; Word processing **Data exchange** 5.25"/3.5" PC diskettes; Tape; ASCII text file

Physical facilities 900 m²

Laboratories 100 m²; climate controlled **Laboratory equipment** Facilities for otolith processing and reading; Isomet microtome; Microscope with TV recording (Wild) etc.

Research vessels/crafts FV "S. Anna", chartered for 120 days a year

Facilities for 4 visiting scientists; 4 students **Conference/seminar facilities** for 70 participants

Lodging for 4

Professional/Scientific staff

Name	Degree	Position	Specialization
Andreoli, Maria Gabriella (Ms)	Laurea	Assistant, in Charge of Research	Biology; Fisheries statistics; Population dynamics; Fishing attempt/catch surveys
Badalamenti, Fabio (Mr)	Laurea	Researcher	Biology; Benthos; Trophic relations; Artificial reefs
Cannizzaro, Leonardo (Mr)	Laurea	Researcher	Physics; Computer sciences; Data banks; Databases; Programming
D'Anna, Giovanni (Mr)	Laurea	Researcher	Biology; Artisan-type fisheries; Monitoring of artificial reefs
Jereb, Patrizia (Ms)	Laurea	Researcher	Biology; Systematics; Biology of cephalopods
Levi, Dino (Mr)	Laurea	Director	Biology; Population dynamics of fish; Stock assessment of demersal and pelagic stocks

Name	Degree	Position	Specialization
Mazzola , Salvatore (Mr)	Laurea	Researcher	Physics; Physical oceanography; Operational oceanography; Pelagic fisheries
Ragonese , Sergio (Mr)	Laurea	Researcher	Biology; Invertebrates; Populations dynamics of cephalopods and crustaceans

**National Research Council
Institute of Marine Biology**
*Consiglio Nazionale delle Ricerche
Istituto di Biologia del Mare (CNR-IBM)*

1364/A Riva Sette Martiri
Venezia I-30122
ITALY

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Fax (39) 41 5204126
E-mail (BITNET) VECNR1.CINECA.IT and ICINECA2

Executive officer Professor Bruno BATTAGLIA, Director

Parastatal institution founded in 1946. Languages: Italian; English

Nature of activities Research

Purpose and objectives Basic and applied research in biological oceanography. The Institute also participates in national and international research programmes in oceanography, environmental protection and aquaculture

Areas of speciality/activities Physical oceanography; Instruments and methods; Water masses and circulation; Marine chemistry and geochemistry; Analytical methodology; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Suspended matter; Biota; Marine geology and geophysics; Sedimentology; Marine biology and ecology; Phytoplankton; Zooplankton; Fish; Eutrophication; Plankton blooms; Molluscs; Crustaceans; Marine physiology; Marine biochemistry; Marine microbiology; Toxicology; Productivity; Aquaculture; Marine environmental management; Monitoring and/or assessment; Coastal zone management; Pollution; Marine support services; Data acquisition and telemetry; Resources management; Assistance to the government in planning the development of lagoon and marine resources; Quality control for fish processing (studies of aquaculture); Provision of laboratory facilities for the testing of seawater for pollutants

ITALY

Environments Brackishwater; Coastal zone; Pelagic environment; Benthic environment; Rivers; Littoral zone; Lagoons; Estuaries

Geographic areas Mediterranean Sea; Adriatic Sea; Ionian Sea; Levantine Sea; Strait of Otranto; Antarctic; Venice Lagoon

Research programmes/projects

- Distribution and transport of particulated matter
- Particulated matter and sediments: relationships with hydrology in lagoons, coastal areas and open sea
- Heterogeneity on distribution of the planctonic communities
- Physiological and biochemical effects of pollutants on marine and lagoon organisms
- Chemical monitoring
- Degradation of organic compounds in the lagoon of Venice
- Studies of aquaculture: fish, crustaceans, molluscs

Co-operative research programmes/projects

- POEM (Phys. Ocean. East. Med.)
- Alpe Adria
- BAMO (Bacini Anossici Med. Orient.)
- PNRA (Progr. Naz. Ric. Antart.)
- EPOS (Eur. Polar. Study)
- ASCOP (Adriat. Sci. Coop. Project)
- MURST/UNESCO: Progetto Sistema Lagunare Veneziano
- RAISA (Ric. Avan. Innov. Sist. Agr.)
- CAVV (Cons. Agr. Valli Venete)
- Progetto Strategico Fenomeni Eutrofici Mare Adriatico

Training programmes

- Summer school on environmental dynamics
- Transport processes and the hydrological cycle
- Stochastic modelling of flow and transport in porous formations
- Numerical analyses
- Flow and transport in porous media
- Rainfall models and models of the hydrologic response
- Transport of reactive solutes in porous media

Staff Professional 18; Technical 14; Other 5

Information facilities

Publications Archivio di Oceanografia e Limnologia; Technical reports

Library 2500 volumes/reprints; 150 periodicals **Librarian** Mr Roberto Bittante

Computers Various **Applications** Accounting/financial planning; Communications; Database management; Geographic Information Systems (GIS); Graphics; Mapping; Scientific; Statistical; Word processing **Data exchange** Remote access via networks (DECNET/BITNET)

Physical facilities 1500 m²

Laboratories 500 m²; climate controlled **Laboratory equipment** Centrifuge; Gas-chromatograph; HPLC; Side.scan.sonar; Uniboom; Autoanalyser; CHN analyser

Research vessels/crafts "Umberto d'Ancona", oceanographic research ship, 24.2 m, 82 ton, equipped with navigation, radio echo sounding equipment, oceanographic winches and two laboratories totaling 14 m², 5 crew, accommodations for 7 scientists; "Mysis", 7.3 m, motor boat, becomes an oceanographic laboratory during field work

Facilities for 2 visiting scientists; 4 students **Lodging** for 4

Professional/Scientific staff

Name	Degree	Position	Specialization
Alberighi , Luisa (Ms)	Laurea	Researcher	Biology; Plankton ecology and productivity; Analysis of nutrients
Barbaro , Alvise (Mr)	Laurea	Researcher	Biology; Aquaculture; Fish culture
Barillari , Alfredo (Mr)	Laurea	Researcher	Geology; Benthic ecology; Sedimentology; Analysis of sediments
Battaglia , Bruno (Mr)	PhD	Professor/Director	
Bianchi , Franco (Mr)	Laurea	Researcher	Biology; Primary production; Analysis of chlorophyll
Boldrin , Alfredo (Mr)	Laurea	Researcher	Natural sciences; Biogeochemistry; Benthic ecology; Sedimentology
Campesan , Giancarlo (Mr)	Laurea	Researcher	Chemistry; Analytical chemistry; Analysis of heavy metals
Cervelli , Massimiliano (Mr)	Laurea	Researcher	Biology; Aquaculture; Genetics
Comaschi , Alessandra (Ms)	Laurea	Researcher	Biology; Plankton ecology; Zooplankton
Da Ros , Luisa (Ms)	Laurea	Researcher	Biology; Effects of pollutants; Microbiology
Dalla Venezia , Luisa (Ms)	Laurea	Researcher	Biology; Effects of pollutants; Physiological effects on marine organisms
Fossato , Valentino (Mr)	Laurea	Researcher	Chemistry; Analytical chemistry; Analysis of organic compounds
Francescon , Antonia (Ms)	Laurea	Researcher	Biology; Aquaculture; Fish culture
Franco , Paolo (Mr)	Laurea	Researcher	Biology; Oceanography; Hydrology; Plankton ecology and productivity
Libertini , Angelo (Mr)	Laurea	Researcher	Biology; Aquaculture; Invertebrate cariology

ITALY

**National Research Council
Institute of Marine Corrosion of Metals
Consiglio Nazionale delle Ricerche
Istituto di Corrosione Marina dei Metalli (CNR-ICMM)**

10 Via Scarsellini-Torre WTC
Genova 16149
Liguria
ITALY

Telephone (39) 10 6458903
Fax (39) 10 6469684

Executive officer Dr Angelo N NICOLIN, Professor

Governmental, national institution founded in 1940. Languages: Italian

Nature of activities Research

Purpose and objectives Study of metal corrosion mechanisms in seawater; Development of corrosion prevention methods

Areas of speciality/activities Heavy metals; Waters; Phytoplankton; Benthos; Taxonomy and systematics; Pollution; Marine technology; Understanding of corrosion mechanisms and study of models for its prevention in the marine environment; Interdisciplinary approaches directed to the definition of the chemical, physical and biological aspects of corrosion in seawater and to the development of systems which, employed in the natural environment, might protect the marine ecosystem

Geographic areas Ligurian Sea

Co-operative research programmes/projects

- The Institute, on behalf of the National Council of Research (CNR), has promoted a special project for microbiological corrosion in seawater. Grants have been awarded by "Progetto Finalizzato Chimica Fine" and "Progetto Finalizzato Edilizia"

Training programmes

- Collaboration with the University of Genoa for teaching activities and assistance with the preparation of thesis and post-doctoral research
- Technical training is provided to professional technicians

Staff Professional 17; Technical 9; Other 4

Information facilities

Library 1100 volumes/reprints; 52 periodicals **Librarian** Mrs Silvana Franco

Computers 19 PCs (IBM); Printers (1 HP Laserjet, 4 HP Inkjet, 3 NEC/9 Epson dot matrix)

Applications Database management; Library/documentation; LAN; Scientific; Word processing

Data exchange 5.25"(HD)/3.5"(HD) PC diskettes; dBase, Lotus 1-2-3, Word, and ASCII text files

Physical facilities 1400 m²

Laboratories 1000 m²; climate controlled

Professional/Scientific staff

Name	Degree	Position	Specialization
Alabiso , Giorgio (Mr)	PhD	Researcher	Biocorrosion; Analytical characterization of marine biofilm; Corrosion
Beccaria , Anna Maria (Ms)	PhD	Senior Researcher	Corrosion; Electrochemistry; Surface analysis
Beggiato , Monica (Ms)	PhD	Researcher	Biocorrosion; Analytical characterization of marine biofilm; Corrosion
Di Cintio , Roberto (Mr)	PhD	Researcher	Information retrieval; Database management
Ferrarone , Franca (Ms)	PhD	Senior Researcher	Metals protection; Corrosion; Protection of metals
Ferretti , Luigi (Mr)	PhD	Senior Researcher	Metals protection; Corrosion
Ghiazza , Maura (Ms)	PhD	Researcher	Corrosion; Electrochemistry; Surface analysis
Maggi , Roberta (Ms)	PhD	Researcher	Marine biology; Fouling; Antifouling tests
Mollica , Alfonso (Mr)	PhD	Senior Researcher	Corrosion; Electrochemistry; Marine corrosion; Biocorrosion
Montanari , Manuela (Ms)	PhD	Senior Researcher	Biology; Marine biology
Nicolin , Angelo (Mr)	PhD	Professor/Executive Officer	
Odello , Ugo (Mr)	PhD	Senior Researcher	Chemistry; Analytical chemistry
Porcile , Paolo (Mr)	PhD	Researcher	Marine biology; Antifouling
Scotto , Vittoria (Ms)	PhD	Senior Researcher	Biocorrosion; Analytical characterization of marine biofilm; Corrosion
Traverso , Eugenio (Mr)	PhD	Senior Researcher	Corrosion; Metallography
Traverso , Pierluigi (Mr)	PhD	Researcher	Corrosion; Electrochemistry; Surface analysis
Ventura , Giovanna (Ms)	PhD	Senior Researcher	Corrosion; Metallography

ITALY

Name	Degree	Position	Specialization
Wrubl, Carlo (Mr)	PhD	Senior Researcher	Corrosion; Inhibitors; Paints; Electrochemistry

**National Research Council
Marine Fishery Research Institute
*Consiglio Nazionale delle Ricerche
Istituto Ricerche sulla Pesca Marittima (CNR-IRPEM)***

Molo Mandracchio
Ancona 60125
ITALY

Telephone (39) 71 55314
(39) 71 204197
Fax (39) 71 55313

Executive officer Dr Giovanni BOMBACE, Director

Governmental, national institution founded in 1968. Languages: Italian; English

Nature of activities Research

Purpose and objectives Marine fishery research

Areas of speciality/activities Physical oceanography; Water masses and circulation; Waves, tides, surges and sea level; Marine chemistry and geochemistry; Nutrients; Marine biology and ecology; Phytoplankton; Benthos; Fish; Eutrophication; Plankton blooms; Molluscs; Crustaceans; Marine mammals; Taxonomy and systematics; Community and population studies; Fisheries; Aquaculture; Marine environmental management; Coastal zone management; Artificial reefs; Marine support services; Marine technology; Fishery technology; Resources management; Assessment of fishery resources; Biology and taxonomy of fish, crustaceans and molluscs; Fishery technology; Mariculture and artificial reefs; Oceanography

Environments Coastal zone; Pelagic environment; Benthic environment

Geographic areas Mediterranean Sea; Adriatic Sea; Sicilian Channel; Strait of Otranto; Tyrrhenian Sea; Antarctic

Research programmes/projects

- Assessment of Clupeoid stocks in the Italian seas
- Assessment of Chamelea gallina in central Adriatic Sea
- Feeding ecology of Adriatic fishes
- Taxonomy and biology of decapod crustacea
- Ecology and technology of artificial reefs
- Fishing gear and fishing vessels technology
- Coastal oceanography

Co-operative research programmes/projects

- Programma Nazionale Ricerche Antartide
- Physical Oceanography of Eastern Mediterranean (POEM)
- Adriatic Scientific Operation Programme
- EEC/MAST Programme: Mediterranean eddy resolving modelling and disciplinary studies

Staff Professional 12; Technical 14; Other 10

Information facilities

Publications Quaderni dell'Istituto Ricerche Pesca Marittima

Library 2800 volumes; 14000 reprints; 300 periodicals **Librarian** Ms Maria Giuggiolini

Computers 1 HP 9000; 1 IBM PS/2; 15 PCs (486, 4 Compaq 386, 3 IBM AT, 1 Olivetti 290, 6 IBM PCs); Printers (4 HP LaserJet, 4 Honeywell LQ34, 2 IBM Graphics, 3 IBM Proprinter); 1 Scanner (IBM); 1 Plotter (HP) **Applications** Accounting/financial planning; Database management; LAN; Network access; Scientific; Statistical; Word processing **Data exchange** 5.25"(HD)/3.5"(HD) PC diskettes; dBase, Lotus 1-2-3 Rel.3, WordStar, and ASCII text files

Physical facilities 1380 m²

Laboratories 240 m²; climate controlled

Research vessels/crafts RV "Salvatore Lo Bianco" (1967), stern trawler, 30.7 m, 130GRT, 650 HP, equipped with 2 echosounders, sonar, 2 radars, satellite navigation system, Loran, radio, echo-integrator, trawling winch, hydrographic winch, 8 crew, accommodations for 8 scientists; MB "Tecnopesca" (1989), 16.2 m, 24.5GRT, 350 HP, equipped with echosounder, radar and radio, 2 crew, accommodations for 4 scientists for daily cruises

Facilities for 2 visiting scientists; 4 students **Conference/seminar facilities** for 30 participants

Lodging for 4

Professional/Scientific staff

Name	Degree	Position	Specialization
Arneri , Enrico (Mr)	PhD	Scientist	Marine biology; Ecology; Fisheries
Artegiani , Antonio (Mr)	PhD	Senior Scientist	Physical oceanography; Marine chemistry; Water masses circulation and eutrophication
Azzali , Massimo (Mr)	PhD	Senior Scientist	Marine technology; Marine biology; Fisheries; Fish; Marine mammals
Bolognini , Sandro (Mr)	PhD	Scientist	Fishery technology; Fishing vessels
Bombace , Giovanni (Mr)	PhD	Director	Marine biology; Ecology; Fisheries; Artificial reefs
Fabi , Gianna (Ms)	PhD	Scientist	Marine biology; Ecology; Fisheries; Artificial reefs
Fiorentini , Loris (Mr)	PhD	Senior Scientist	Fishery technology; Fishing gear; Artificial reefs

ITALY

Name	Degree	Position	Specialization
Froglio , Carlo (Mr)	PhD	Senior Scientist	Marine biology; Ecology; Fisheries; Crustacean taxonomy
Gramitto , Maria Emilia (Ms)	PhD	Scientist	Marine biology; Ecology; Fisheries; Fish; Crustaceans
Kalinowski , Janusz (Mr)	PhD	Senior Scientist	Fishery technology; Marine biology; Fisheries; Echo-surveys
Messina , Gaetano (Mr)	PhD	Senior Scientist	Fishery technology; Fishing vessels
Paschini , Elio (Mr)	PhD	Scientist	Physical oceanography; Water masses circulation

**National Research Council
Oceanographic Experimental Institute "A. Cerruti"
Consiglio Nazionale delle Ricerche
Istituto Sperimentale Talassografico "A. Cerruti"**

3 Via Roma
Taranto 74100
ITALY

Telephone (39) 99 25434
(39) 99 494957
Fax (39) 99 494811

Executive officer Dr Sebastiano GERACI, Director

Governmental, national institution founded in 1914. Languages: Italian; English; French

Nature of activities Research

Purpose and objectives Basic and applied research in biological, chemical and physical oceanography; Study of benthic and plankton communities, chemistry and ecotoxicology of marine waters and sediments

Areas of speciality/activities Marine chemistry and geochemistry; Analytical methodology; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Suspended matter; Biota; Marine biology and ecology; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Molluscs; Crustaceans; Marine mammals; Marine microbiology; Toxicology; Taxonomy and systematics; Community and population studies; Fisheries; Aquaculture; Monitoring and/or assessment; Coastal zone management; Pollution; Remote sensing; Data acquisition and telemetry; Resources management; Monitoring/control services for public and private agencies; Ichthyo-toxicity tests on products

Environments Brackishwater; Coastal zone; Pelagic environment; Benthic environment; Littoral zone; Lagoons; Islands

Geographic areas Mediterranean Sea; Ionian Sea

Research programmes/projects

- The ecosystem of the "Mar piccolo": Ecology and dynamics of phyto and zooplankton communities and of phyto and zoobenthos communities
- Organic micropolutants in marine waters, sediments and organisms
- Assessment of biological water quality integration of bioassays and chemical-physical measurements
- Studies on the rearing of *Tapes* spp. in suspended beds
- Assessment of the impact caused on rocky shores by Lithophaga lithophaga fisheries

Training programmes

- 16 Grants for graduates

Staff Professional 5; Technical 11; Other 3

Information facilities

Publications "Oebalia", International Journal of Marine Biology and Oceanography

Library 15000 volumes/reprints; 350 periodicals **Librarian** Ms Maria Filippi

Computers 14 PCs (5 Olivetti M200, 3 Olivetti M290, 1 Epson, and others); Laser and dot matrix printers (Olivetti, Epson) **Applications** Accounting/financial planning; Database management; Library/documentation; Scientific; Statistical; Word processing **Data exchange** 5.25"(HD)/3.5"(HD) PC diskettes; dBase III, Excel 2.2, MS-Word 4, WordStar files

Physical facilities 1200 m²

Laboratories 500 m² **Laboratory equipment** 1 HPLC (HP 1090); 2 gas-chromatographs (HP 5890 Carlo Erba HRGC5300); 1 ionic chromatograph (Dionex); 2 atomic absorption spectrophotometers (PE 1100B, PE Zeeman 3030); 2 continuous flow autoanalysers (Alliance Technicon MTKZ); 1 four pole mass-spectrometer (HP 5989 A); Microscopes and binoculars; Thermostatic chambers; 2 complete sets of diving equipment; 6 licensed divers **Aquariums** 1x40 m³; 2x20 m³ **Species maintained** Hydrozoans: *Laomedea flexuosa*; *Stylactis* sp; Phytoplankton: *Phaeodactylum tricornutum*; *Isochrysis galbana*

Research vessels/crafts MB "A. Cerruti" (19), 14.5 m, equipped with echosounder, radio, radar, loran-C, trawling winches, 2 crew, accommodations for 2 scientists, (6 scientists maximum)

Facilities for 2 visiting scientists; 3 students **Conference/seminar facilities** for 40 participants, housed in the library

ITALY

Professional/Scientific staff

Name	Degree	Position	Specialization
Cardelicchio , Nicola (Mr)	Doctorate	Researcher	Marine chemistry; Analytical methodology; Nutrients; Heavy metals; Organics
Cavallo , Rosa Anna (Ms)	Doctorate	Professor	Marine microbiology; Technology
Cecere , Ester (Ms)	Doctorate	Researcher	Marine biology; Phytobenthos; Aquaculture
Geraci , Sebastiano (Mr)	Doctorate	Director	Marine biology; Ecology; Benthos; Fouling; Marine corrosion
Pastore , Michele (Mr)	Doctorate	Researcher	Marine biology; Zoobenthos

Naval Hydrographic Institute

Istituto Idrografico della Marina

4 Passo all'Osservatorio
Genova 16134
ITALY

Telephone (39) 10 265451/2/3/4
Telex 270435 MARIDR I
226521 MARIDR I
Cable MARIDROGRAFICO GENOVA
Fax (39) 10 265973
(39) 10 266428

Executive officer Captain Francesco SPANIO, Director

Governmental, national institution founded in 1872. Languages: Italian; English

Nature of activities Research; Information/public awareness

Purpose and objectives Production of marine/nautical cartography; Military oceanography; Co-operation with other national institutes on oceanographic studies

Areas of speciality/activities Physical oceanography; Water masses and circulation; Currents and dispersion; Waves, tides, surges and sea level; Modelling; Marine geology and geophysics; Topography and morphology; Sedimentology; Coastal and nearshore processes; Marine environmental management; Pollution; Marine chartography; Ocean policy/law of the Sea; Marine archaeology; Nautical cartography; Nautical information; Physical oceanography

Geographic areas Mediterranean Sea; Adriatic Sea; Ionian Sea; Levantine Sea; Ligurian Sea; Sicilian Channel; Strait of Otranto; Tyrrhenian Sea

Research programmes/projects

- Electronic charts
- Bathymetric charts
- Atlas of Mediterranean currents and waves
- Atlas of Mediterranean surface temperatures
- New tide constants for Italian seas

Staff Professional 15; Technical 45

Information facilities

Publications Annual report; Books; Technical reports

Library 40000 volumes/reprints; 100 periodicals **Librarian** Mrs Paola Presciuttini Bellezza

Computers 1 HP 9000; 1 DEC Vax 750; 1 DEC Microvax 3800; 25 PCs (386, 286) **Applications** Accounting/financial planning; Geographic Information Systems (GIS); Graphics; Mapping; Modelling; Scientific; Word processing

Physical facilities 7000 m²

Laboratories 1500 m²

Research vessels/crafts "Magnaghi" (1974), 1700 ton, 82.7 m, equipped with echosounders, multibeam, side scan sonar, CTD, rosette multisampler, XBT, proton magnetometer, core barrel, radio-navigation systems, 130 crew; "Pioppo" and "Mirto" (1965), 400 ton, 45 m, equipped with echosounders, CTD, side scan sonar, XBT, rosette multisampler, radio-navigation system, 40 crew

Professional/Scientific staff

Name	Degree	Position	Specialization
Corvetti , Massimo (Mr)	CC	Head of Nautical Documents Division	
Fanelli , Saverio (Mr)	CC	Head of Charting Division	
Giella , Domenico (Mr)	CF	Deputy Director	
Lusetti , Carlo (Mr)	Doctorate	Professor	Physics; Physical oceanography; Tides
Papa , Lorenzo (Mr)	Doctorate	Professor	Physics; Physical oceanography; Numeric models
Sfregola , Antonio (Mr)	CF	Head, Marine Research and Hydrographic Surveys Department	
Spanio , Francesco (Mr)	CV	Director	
Vassallo , Andrea (Mr)	Doctorate	Professor	Astronomical geodesy; Geodesy; Analytic cartography

ITALY

**New Technology, Energy and Environment Agency
Energy and Environment Research Centre of S. Teresa
Ente Nuove Tecnologie Energia Ambiente
Centro Ricerche Energia Ambiente S. Teresa (ENEA-CREA)**

Pozzuolo di Lerici
P.O. Box 316
La Spezia 19100
ITALY

Telephone (39) 187 536215
Telex 282861 ENEAST I
Fax (39) 187 536213

Executive officer Dr Vicenzo DAMIANI, Scientific Director

Governmental, national institution founded in 1958. Languages: Italian

Nature of activities Research; Technical training; Laboratory

Purpose and objectives Oceanography, marine biology, monitoring and information systems for the study and protection of the marine environment and the Mediterranean Sea in particular

Areas of speciality/activities Physical oceanography; Water masses and circulation; Currents and dispersion; Air-sea interaction; Modelling; Marine chemistry and geochemistry; Analytical methodology; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Radioactivity; Sediments; Waters; Suspended matter; Marine geology and geophysics; Sedimentology; Coastal and nearshore processes; Marine biology and ecology; Benthos; Marine biochemistry; Marine microbiology; Community and population studies; Marine meteorology and climatology; Marine environmental management; Monitoring and/or assessment; Coastal zone management; Pollution; Environmental impact assessment; Environmental economics; Marine technology; Remote sensing; Data acquisition and telemetry; Development policy/planning; Resources management; Agreement between ENEA and various regional agencies for the management of an information system on coastal zones; Ministry for Merchant Marine: Information data banks on national coastal zones; Development of coastal zones and marine parks; National network for the survey of environmental radioactivity in marine matrices and fall out

Environments Coastal zone; Pelagic environment; Benthic environment; Rivers; Littoral zone; Islands; Estuaries

Geographic areas Mediterranean Sea; Adriatic Sea; Alboran Sea; Ionian Sea; Ligurian Sea; Sicilian Channel; Tyrrhenian Sea

Research programmes/projects

- Global climate-change programme
- Coastal ecotopologies
- Sea monitoring and advanced technologies
- Marine information system

Co-operative research programmes/projects

- CEE: Transfer processes and behaviour of long-lived radionuclides in the marine environment
- OECD-NEA: Sea bed working group
- MAST-CEE: R & D programme in marine science and technology

Staff Professional 16; Technical 14; Other 14

Information facilities

Publications Climatological atlas of the Western Mediterranean; Bibliographic databases on the Adriatic Sea; Climatological atlas of the Adriatic Sea; Environmental studies of the Vado Ligure coastal area; Coastal marine system of the Abruzzo region

Library 8500 volumes/reprints; 180 periodicals **Co-operative programmes/projects** Biblioteca Instituto de Ciencias del Mar, Barcellona; Central Marine Fisheries Research Institute, Cochin, India; South Carolina University, Columbia, SC, USA **Librarian** Mrs Patrizia Maffei

Computers 1 DEC Vax 780; Printers (laser and dot matrix) **Applications** Communications; Database management; Geographic Information Systems (GIS); Graphics; Library/documentation; LAN; Mathematical; Mapping; Modelling; Network access; Scientific; Statistical; Word processing **Data exchange** 5.25" PC diskettes; Tape (ASCII/EBCDIC, 800/1600/6250)

Physical facilities 6000 m²

Laboratories 1000 m²; climate controlled **Laboratory equipment** AAS; IR-TF; GC; Autoanalyser; TOC analyser; CHN analyses; ASV; HPLC; UV spectroscopy electronic microscopes; 2 sedigraphs; Coulter counter; Alpha-beta-jota spectroscopy; 3 SCUBA diving researchers with underwater videotapes; Photographic laboratory current meters; VAX 785 computer system **Aquariums** 3x15 m³; 2x12 m³; 4x3 m³; 3x1000 m³ **Species maintained** Mullus barbatus; Marphysa beccii

Research vessels/crafts 1 research vessel by Crestitalia, 11.4 m, 11 ton, 20 knots

Facilities for 5 visiting scientists; 8 students **Conference/seminar facilities** for 90 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Artale , Vincenzo (Mr)	Laurea	Researcher	Physics; Physical oceanography; Mathematical models
Bianchi , Carlo Nike (Mr)	Laurea	Head, Biology Division	Biology; Marine biology; Macrofauna
Boniforti , Roberto (Mr)	Laurea	Head, Oceanography Division	Physics; Sea monitoring; Advanced technologies; Immunosensors
Bruschi , Azolo (Mr)	Laurea	Researcher	Information management
Cannarsa , Sigfrido (Mr)	Laurea	Researcher	Chemistry; Organic chemistry; Organic pollutants
Carbone , Antonio (Mr)	Laurea	Researcher	Engineering; Project management
Castelluccio , Giuseppe (Mr)	Laurea	Researcher	Natural sciences; Management

ITALY

Name	Degree	Position	Specialization
Cocito , Silvia (Ms)	Laurea	Researcher	Biology; Marine biology; Benthos
Cunsolo , Antonio (Mr)	Laurea	Researcher	Engineering; Project management
Damiani , Vicenzo (Mr)	Laurea	Scientific Director	
De Simone , Renato (Mr)	Laurea	Researcher	Pharmacology; Organic chemistry; Organic pollutants
Delfanti , Roberta (Ms)	Laurea	Researcher	Chemistry; Radiochemistry; Transuranics; Long-lived radionuclides
Ferretti , Enrico (Mr)	Laurea	Researcher	Engineering; Remote sensing
Ferretti , Ornella (Ms)	Laurea	Researcher	Geology; Marine Geology; Sedimentology
Marri , Pietro (Mr)	Laurea	Researcher	Engineering; Physical chemical measurements; Data treatment; Mathematical models
Niccolai , Ilaria (Ms)	Laurea	Researcher	Chemistry; Geochemistry; Metals; Trace elements
Peroni , Corrado (Mr)	Laurea	Researcher	Biology; Microbiology; Nutrients
Zattera , Antonio (Mr)	Laurea	Researcher	Biology; Coastal area management; Marine parks; Protected areas

Oceanographic Vessel "DAPHNE II", Operational Unit "Emilia-Romagna" Region

*Unitá Operativa Battello Oceanografico "DAPHNE II" (UO "DAPHNE")
Regione "Emilia-Romagna"*

Viale Vespucci 2
Cesenatico (FO) 47042
ITALY

Telephone (39) 547 83941
Fax (39) 547 82136

Executive officer Dr Attilio RINALDI, Head Scientist

Governmental, local institution founded in 1978. Languages: Italian; French; English

Nature of activities Research; Laboratory

Purpose and objectives Quality control of coastal waters; Preparation of reports and scientific documentation

Areas of speciality/activities Physical oceanography; Instruments and methods; Marine chemistry and geochemistry; Analytical methodology; Nutrients; Marine biology and ecology; Phytoplankton; Eutrophication; Plankton blooms; Monitoring and/or assessment; Pollution; Data acquisition and telemetry; Ocean policy/Law of the Sea; Development policy/planning; Recreation/tourism; Monitoring of eutrophication, heavy metals and pesticides; Determination of physico-chemical characteristics of coastal waters

Environments Coastal zone; Lagoons

Geographic areas Adriatic Sea; Tyrrhenian Sea

Research programmes/projects

- Monitoring of the state of pollution and eutrophication in the coastal waters of the "Emilia-Romagna" region

Co-operative research programmes/projects

- CNR Water Research Institute: Research programme on the characteristics of the Po delta waters
- Ministry of Merchant Marine, Department of Sea Protection: Monitoring of the state of pollution and eutrophication in coastal waters

Staff Professional 4; Other 2

Information facilities

Publications Annual report; Scientific/technical reports

Library Yes **Co-operative programmes/projects** UNEP/Co-ordinating Unit for the Mediterranean Action Plan, library

Computers 4 PCs (2 386s, 2 ATs); 6 Printers (2 HP LaserJet III, 2 NEC P2200, 2 Epson FX80)

Applications Database management; Graphics; Statistical; Word processing **Data exchange** 5.25" (HD)/3.5" (DD) PC diskettes; Unlabelled tape; dbase III, Lotus 1-2-3, WordPerfect 5.1 and ASCII text files

Physical facilities 350 m²

Laboratories 200 m² **Laboratory equipment** Nutrient autoanalyser; Microscopes for analysis of phytoplankton; Fluorometers; Multiparametric probe; Underwater camera

Facilities for 4 visiting scientists; 2 students **Conference/seminar facilities** for 10 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Ferrari, Carla Rita (Ms)	Laurea		Biology; Nutrients

ITALY

Name	Degree	Position	Specialization
Ghetti, Anna (Ms)	Laurea		Biology; Phytoplankton; Monitoring
Montanari, Giuseppe (Mr)	Laurea		Biology; Databank; Data acquisition
Rinaldi, Attilio (Mr)	Laurea	Head Scientist	Biology

Oceanological Research Group-Genoa *Gruppo Ricerca Oceanologica-Genova (GRO-G)*

14 Corso Rainusso
P.O. Box 79
Mergherita Ligure 16038-S
Genova
ITALY

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(39) 185 283415
Telex 271114 UNIVGE I
Fax (39) 185 281089

Executive officer Professor Norberto F R DELLA CROCE, Chairman

International nongovernmental institution founded in 1972. Languages: Spanish; Italian; English; French

Nature of activities Research

Purpose and objectives Interdisciplinary research in the field of oceanography and marine pollution

Areas of speciality/activities Physical oceanography; Water masses and circulation; Currents and dispersion; Waves, tides, surges and sea level; Marine chemistry and geochemistry; Analytical methodology; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Suspended matter; Biota; Sedimentology; Coastal and nearshore processes; Zooplankton; Benthos; Fish; Eutrophication; Molluscs; Crustaceans; Marine physiology; Marine biochemistry; Marine microbiology; Taxonomy and systematics; Productivity; Community and population studies; Fisheries; Marine meteorology and climatology; Marine environmental management; Pollution; Promotion of marine research

Environments Coastal zone; Pelagic environment; Benthic environment

Geographic areas Mediterranean Sea; Aegean Sea; Ionian Sea; Ligurian Sea; Sicilian Channel; Tyrrhenian Sea

Research programmes/projects

- Research in marine biology, biological oceanography, physical oceanography and marine chemistry

Co-operative research programmes/projects

- Station Marine d'Endoume/Institute of Marine Biology of Crete: "Mediterranean Deep", co-operative programme with French and Greek scientists

Training programmes

- Teaching university-level courses and awarding degrees in natural, biological and geological sciences

Staff Professional 32; Technical 6; Other 20

Information facilities

Publications Triennial report; Collected reprints

Library 1120 volumes/reprints; 11 periodicals **Co-operative programmes/projects** Various University libraries

Computers Various **Applications** Scientific; Statistical; Word processing

Physical facilities 1200 m²

Laboratories 400 m² **Laboratory equipment** Spectrophotometers; pH meters; Salinometer; Oxygen meter; Microscopes; Diving equipment; Various gear for plankton and benthos sampling; Reversing bottles and thermometers; CTD; Waves recorder; Solar radiometer; Thermostatic stoves; Current meters

Facilities for 5 visiting scientists; 5 students **Conference/seminar facilities** for 21 participants

Lodging for 5

Professional/Scientific staff

Name	Degree	Position	Specialization
Albert , Alberto (Mr)	Doctorate	Collaborator	Engineering; Automatic data processing programmes
Albertelli , Giancarlo (Mr)	Doctorate	Professor	Biology; Marine zoobenthos
Angelino , Maria Ines (Ms)	Doctorate	Collaborator	Biology; Marine zooplankton
Angrisano , Giuseppe (Mr)		Director of Hydrographic Institute	Hydrography; Marine sciences
Baffi , Franca (Ms)	Doctorate	Professor	Chemistry; Analytical chemistry of seawater
Boyer , Massimo (Mr)	Doctorate	Collaborator	Biology; Particulate organic matter
Canesi , Laura (Ms)	PhD	Collaborator	Physiology; Physiology of marine organisms

ITALY

Name	Degree	Position	Specialization
Capelli , Renzo (Mr)	Doctorate	Professor	Chemistry; Chemistry of marine organisms
Cevasco , M Giuseppina (Ms)	Doctorate	Technician	Biology; Marine zooplankton
Cicconi , Giuseppe (Mr)	Doctorate	Professor	Physics; Wave motion and related equipment
Contardi , Vittorio (Mr)	Doctorate	Professor	Chemistry; Organic chemistry of marine organisms
Corradi , Nicola (Mr)	Doctorate	Researcher	Marine geology; Sedimentology
Cortemiglia , Giancamillo (Mr)	Doctorate	Professor	Geology; Littoral dynamics
Cosma , Bianca (Ms)	Doctorate	Professor	Chemistry; Analytical chemistry of marine ecosystems
Dadone , Arduino (Mr)	Doctorate	Professor	Chemistry; Analytical chemistry of seawater
Dagnino , Ignazio (Mr)	Doctorate	Professor Emeritus	Physics; Hydrodynamics and waves
Danovaro , Roberto (Mr)	Doctorate	Collaborator	Biology; Particulate organic matter
Della Croce , Norberto (Mr)	Doctorate	Professor/Chairman	Biology; Biological oceanography
Drago , Marco (Mr)	Doctorate	Professor	Chemistry; Chemistry of marine sediments
Fabiano , Mauro (Mr)	Doctorate	Professor	Biology; Particulate organic matter production
Fanucci , Francesco (Mr)	Doctorate	Professor	Geology; Marine sedimentology
Ferro , Riccardo (Mr)	Doctorate	Professor	Chemistry; Inorganic chemistry
Fierro , Giuliano (Mr)	Doctorate	Professor	Geology; Marine geology; Sedimentology
Firpo , Marco (Mr)	Doctorate	Researcher	Geology; Marine sedimentology
Fiocchini , Giuseppe (Mr)	Doctorate	Professor	Geophysics; Climatology; Oceanography
Frache , Roberto (Mr)	Doctorate	Professor	Chemistry; Analytical chemistry of seawater
Fraschetti , Simona (Ms)	Doctorate	Collaborator	Biology; Marine zoobenthos
Gazzo , Patrizia (Ms)	Doctorate	Collaborator	Biology; Marine zoobenthos
Grassano , Giorgio (Mr)	Doctorate	Collaborator	Geology; Marine geology
Lusetti , Carlo (Mr)	Doctorate	Researcher	Physics; Hydrodynamics
Lusiani , Paolo (Mr)	Doctorate	Head of Scientific Division, Hydrographic Institute	Hydrography; Marine sciences
Mancinelli , Graziella (Ms)	Doctorate	Researcher	Physiology; Biology of marine organisms
Manfrinetti , Pietro (Mr)	Doctorate	Collaborator	Chemistry; Chemistry of particulate organic matter
Mazzucotelli , Ambrogio (Mr)	Doctorate	Professor	Chemistry; Analytical chemistry of marine ecosystems

ITALY

Name	Degree	Position	Specialization
Medica , Danilo (Mr)	Doctorate	Collaborator	Biology; Particulate organic matter
Orunesu , Mauro (Mr)	Doctorate	Professor	General physiology; Physiology of marine organisms
Palau , Carlo (Mr)	Doctorate	Professor	Geophysics; Caloric balance of coastal waters
Pertica , Maura (Ms)	Doctorate	Researcher	Physiology; Physiology of marine organisms
Petrillo , Mario (Mr)	Doctorate	Technician	Biology; Marine instruments; Data processing
Picazzo , Mauro (Mr)	Doctorate	Researcher	Geology; Marine sedimentology
Povero , Paolo (Mr)	Doctorate	Collaborator	Biology; Particulate organic matter
Ramella , Agostino (Mr)	Doctorate	Collaborator	Physics; Teledetection
Salemi Picone , Paola (Ms)	Doctorate	Collaborator	Biology; Marine zooplankton
Soggia , Francesco (Mr)	Doctorate	Collaborator	Chemistry; Analytical chemistry of seawater
Stocchino , Carlo (Mr)	Doctorate	Professor	Antarctic oceanography
Tucci , Sergio (Mr)	Doctorate	Researcher	Geology; Marine sedimentology
Tufano , Michele (Mr)	Doctorate	Collaborator	Biology; Marine zoobenthos
Vassallo , Andrea (Mr)	Doctorate	Professor	Geophysics; Marine sciences
Viarengo , Aldo (Mr)	Doctorate	Professor	General physiology; Physiology of marine animals
Voci , Adriana (Ms)	Doctorate	Professor	Physiology; Physiology of marine animals
Zanicchi , Gilda (Ms)	Doctorate	Professor	Chemistry; Chemistry of marine organisms
Zavatarelli , Marco (Mr)	Doctorate	Collaborator	Biology; Particulate organic matter
Zunini Sertorio , Tecla (Ms)	Doctorate	Professor	Biology; Marine zooplankton

Tethys Research Institute

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 ITALY

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ITALY

Executive officer Dr Giuseppe NOTARBARTOLO DI SCIARA, President

Private non-profit institution founded in 1986. Languages: Italian; English

Nature of activities Research; Academic/educational; Information/public awareness

Purpose and objectives Promoting the understanding of the ecological mechanisms of the Mediterranean large pelagic fauna (mostly marine mammals), with emphasis on conservation

Areas of speciality/activities Marine mammals; Taxonomy and systematics; Community and population studies; Nature conservation and/or restoration; Resources management; Awareness campaign for fin whales in Italy; Awareness campaign for bottlenose dolphins in Italy

Environments Coastal zone; Pelagic environment

Geographic areas Mediterranean Sea; Adriatic Sea; Ionian Sea; Ligurian Sea; Sicilian Channel; Strait of Otranto; Tyrrhenian Sea

Research programmes/projects

- Fin whales in the Ligurian Sea, photoidentification
- Bottlenose dolphins in the Adriatic, photoidentification

Co-operative research programmes/projects

- Victoria University, Wellington, New Zealand: Fin whale stock identification through DNA analysis
- University of Siena: Fin whale contaminants
- University of Oxford: Sperm whale distribution

Staff Professional 6; Technical 2; Other 2

Information facilities

Publications Cetacea News (quarterly)

Library 5200 volumes/reprints; 16 periodicals **Co-operative programmes/projects** Woods Hole Oceanographic Institution, Marine Mammal Library: Development of a bibliographic database on marine mammals

Computers 1 Apple Macintosh IIxi computer; 2 PCs (Compaq 286, IBM XT); 2 Printers (Epson LQ550) **Applications** Database management; Desktop publishing; Library/documentation; Statistical; Word processing **Data exchange** 5.25"/3.5" PC diskettes; WORD(4.0), LOTUS 1-2-3, dBase III, INMAGIC files

Physical facilities 90 m²

Laboratory equipment Uher 4400 report monitor tape recorder; 2 ITC hydrophones, cables, controllers; 2 Minolta Dynax 7700i cameras with AF lenses; Panasonic SVHS video camera accessories; Binoculars; Thermistor and cable (100 m); 2 crossbows for remote collection of biopsies; 2 hydrophone towed arrays with associated electronics; Magellan GPS portable receiver

Conference/seminar facilities for 150 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Barale , Vittorio (Mr)	PhD	Research Associate	Physical oceanography; Remote sensing
Bearzi , Giovanni (Mr)	Doctorate	Researcher	Marine biology; Socioecology of bottlenose dolphins
Jahoda , Maddalena (Ms)	Doctorate	Newsletter Editor	Communications science; Marine biology
Notarbartolo di Sciara , Giuseppe (Mr)	PhD	President/Director of Research	Marine biology; Ecology; Ethology and systematics of cetaceans and elasmobranchs
Venturino , Maria Cristina (Ms)	Doctorate	Researcher	Marine biology; Pinniped biology
Zanardelli , Margherita (Ms)	Doctorate	Researcher	Marine biology; Natural history of cetaceans; Marine bioacoustics

University of Genoa**Institute of Analysis and Pharmaceutical and Food Technology***Università degli Studi di Genova**Istituto di Analisi e Tecnologie Farmaceutiche ed Alimentari*

Via Brigata Salerno (Ponte)

Genova 16147

ITALY

Telephone (39) 10 3532604**Fax** (39) 10 3532684**Executive officer** Dr Renzo CAPELLI, Professor

Governmental, national institution. Languages: Italian

Nature of activities Research; Academic/educational**Purpose and objectives** Scientific research and education**Areas of speciality/activities** Marine chemistry and geochemistry; Analytical methodology; Heavy metals; Waters; Biota**Environments** Coastal zone; Pelagic environment; Benthic environment; Littoral zone**Geographic areas** Ligurian Sea; Ross Sea

ITALY

Research programmes/projects

- Study of the mercury biogeochemical cycle in the marine environment

Co-operative research programmes/projects

- Commission of the European Communities: "The origin of natural methylmercury", research project
- PNRA (Italian National Research Programme in Antarctica)
- IAEA/UNEP/BCR (Bureau Commune de Reference): Intercalibration of analytical methods and certification of reference material

Training programmes

- Course work and research leading to "Laurea" (MSc) in farmacia (pharmacy) and chimica e tecnologie farmaceutiche (pharmaceutical chemistry)
- Course work and research leading to "Dottorato di Ricerca" (PhD) in marine environmental science

Staff Professional 3; Technical 1

Information facilities

Computers 2 PCs (IBM PC and Epson PC-AX3); Printers (1 HP Laserjet1, 1 Epson LX80)

Applications Graphics; Library/documentation; Scientific; Statistical **Data exchange** 5.25"/3.5" PC diskettes; Lotus 1-2-3, ASCII text files

Physical facilities 200 m²

Laboratories 160 m²

Facilities for 1 visiting scientist; 10 students **Conference/seminar facilities** for 120 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Capelli, Renzo (Mr)	Laurea	Professor/Executive Officer	General and inorganic chemistry; Biogeochemical cycles of elements
De Pellegrini, Rodolfo (Mr)	Diploma	Technician	General and inorganic chemistry; Biogeochemical cycles of elements
Minganti, Vicenzo (Mr)	Laurea	Research Scientist	General and inorganic chemistry; Biogeochemical cycles of elements

University of Genoa
Institute of Hygiene and Preventive Medicine
Università degli Studi di Genova
Istituto di Igiene e Medicina Preventiva

1 Via Pastore
Genova 16132
ITALY

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Executive officer Professor Silvio DE FLORA, Director

Governmental, national institution founded in 1889. Languages: Italian

Nature of activities Research; Technical training; Laboratory; Academic/educational

Purpose and objectives Research and teaching in the field of hygiene and preventive medicine

Areas of speciality/activities Marine chemistry and geochemistry; Analytical methodology; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Radioactivity; Sediments; Waters; Marine biology and ecology; Fish; Algae; Eutrophication; Molluscs; Crustaceans; Marine biochemistry; Marine microbiology; Toxicology; Marine environmental management; Monitoring and/or assessment; Pollution; Environmental impact assessment; Activities related to the marine environment, which include microbiological and chemical monitoring and assessment of the effects of pollution on metabolism, mutagenicity and carcinogenicity

Environments Lakes; Coastal zone; Rivers; Littoral zone; Estuaries

Geographic areas Mediterranean Sea; Ligurian Sea; Tyrrhenian Sea

Research programmes/projects

- Microbiological and chemical monitoring of coastal waters
- Fate of marine pollutants
- Health effects of marine pollutants
- Metabolic and cytogenetic effects of pollution in marine organisms
- Mechanisms of antimutagenesis and anticarcinogenesis in marine organisms

Co-operative research programmes/projects

- UNEP/MED POL Phase II
- Institute "Rudjer Boskovic", Zagreb, Yugoslavia
- Institute of Zoology, University of Genoa, Italy

Staff Professional 16; Technical 14; Other 20

Information facilities

Library 3500 volumes/reprints; 75 periodicals

Computers Various Applications Accounting/financial planning; Communications; Database management; Desktop publishing; Education; Graphics; Scientific; Statistical; Word processing

ITALY

Physical facilities 2000 m²

Laboratories 1200 m²; climate controlled

Facilities for 3 visiting scientists; 30 students **Conference/seminar facilities** for 100 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Badolati , Giuseppe (Mr)	Doctorate	Professor	Hygiene
Crimi , Paolo (Mr)	Doctorate	Associate Professor	Community medicine
Crovari , Pietro (Mr)	Doctorate	Professor	Hygiene
Cuneo-Crovari , Piera (Ms)	Doctorate	Professor	Hygiene
De Flora , Silvio (Mr)	Doctorate	Professor/Director	Hygiene
Gallelli , Giovanni (Mr)	Doctorate	Associate Professor	Applied hygiene
Icardi , Giancarlo (Mr)	Doctorate	Associate Professor	School hygiene
Kanitz , Stefano (Mr)	Doctorate	Professor	Hygiene
La Rocca , Maria Clara (Ms)	Doctorate	Associate Professor	Food hygiene
Orlando , Paolo (Mr)	Doctorate	Professor	Environmental hygiene
Perdelli , Fernanda (Ms)	Doctorate	Associate Professor	Hygiene
Rizzetto , Rolando (Mr)	Doctorate	Associate Professor	Food hygiene
Sigari , Giuseppina (Ms)	Doctorate	Associate Professor	Hygiene
Vannucci , Anselmo (Mr)	Doctorate	Professor	Epidemiology

University of Genoa

Institute of Zoology

Università degli Studi di Genova

Istituto di Zoologia

5 Via Balbi
Genova 16126
ITALY

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Executive officer Dr Michele SARA, Professor

Governmental, national institution founded in 1872. Languages: Italian; English

Nature of activities Research; Academic/educational

Purpose and objectives Teaching and research in systematics and ecology, zoology of marine fauna and hard bottom communities

Areas of speciality/activities Benthos; Fish; Molluscs; Crustaceans; Taxonomy and systematics; Community and population studies; Fisheries; Coastal zone management; Pollution; Nature conservation and/or restoration; Artificial reefs

Environments Coastal zone; Benthic environment; Littoral zone; Lagoons

Geographic areas Mediterranean Sea; Ligurian Sea; Tyrrhenian Sea

Research programmes/projects

- Sponge adaptation and evolution
- Mollusc ecology and systematics
- Sponge ecology and systematics
- Cnidarian ecology and systematics
- Ultra structure studies on marine animals

Co-operative research programmes/projects

- Sedimentation role on benthic communities
- Red coral biology
- Ligurian Sea fisheries

Staff Professional 21; Technical 8; Other 6

Information facilities

Publications Boll. Mus. Ist. Biol., Univ. Genova

Library 2000 volumes/reprints; 100 periodicals

Computers 6 PCs **Applications** Communications; Database management; Desktop publishing; Graphics; Scientific; Statistical; Word processing

Physical facilities 1000 m²

Laboratories 800 m² **Laboratory equipment** Electronic microscopes (Scan, Tem); SCUBA diving equipment

Research vessels/crafts 1 small boat; 1 small rubber boat

Professional/Scientific staff

Name	Degree	Position	Specialization
Baldazzi, Andrea (Mr)	Doctorate	Researcher	Statistics; Bryozoan ecology
Bavestrello, Giorgio (Mr)	Doctorate	Technician	Sponge ecology
Burlando, Bruno (Mr)	Doctorate	Technician	Statistics; Ultrastructure analysis
Cattaneo-Vietti, Riccardo (Mr)	Doctorate	Researcher	Molluscs systematics and ecology

ITALY

Name	Degree	Position	Specialization
Gaino , Elda (Ms)	PhD	Professor	Ultrastructure studies
Morri , Carla (Ms)	Doctorate	Researcher	Cnidarian ecology
Orsi , Lidia (Ms)	Doctorate	Professor	Fisheries; Fish biology
Pansini , Maurizio (Mr)	Doctorate	Researcher	Sponge systematics
Pronzato , Roberto (Mr)	Doctorate	Researcher	Sponge ecology
Relini , Giulio (Mr)	Doctorate	Professor	Fisheries; Artificial reefs
Sara , Michele (Mr)	Doctorate	Professor/Executive Officer	

University of Messina

Department of Animal Biology and Ecology

Università degli Studi di Messina

Dipartimento di Biologia Animale ed Ecologia Marina (DBAEM)

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Executive officer Dr Vivia BRUNI, Professor

Governmental, national institution founded in 1915. Languages: Italian; English

Nature of activities Research; Laboratory; Academic/educational

Purpose and objectives Biological, chemical and physical research in brackish, marine and freshwater environments; Histology, zoology and comparative anatomy of marine organisms

Areas of speciality/activities Physical oceanography; Instruments and methods; Water masses and circulation; Marine chemistry and geochemistry; Analytical methodology; Nutrients; Heavy metals; Sediments; Waters; Suspended matter; Marine biology and ecology; Phytoplankton; Zooplankton; Benthos; Fish; Eutrophication; Plankton blooms; Molluscs; Crustaceans; Marine microbiology; Pathology of marine species; Taxonomy and systematics; Productivity; Community and population studies; Fisheries; Aquaculture; Marine environmental management; Monitoring and/or assessment;

Pollution; Nature conservation and/or restoration; Environmental impact assessment; Environmental education; Marine support services; Marine technology; Data acquisition and telemetry; Resources management; Assistance in planning the development of marine resources; Guidance in nature conservation; Quality control for fish processing; Provision of laboratory facilities for pollution testing of seawater

Environments Lakes; Brackishwater; Coastal zone; Pelagic environment; Benthic environment; Rivers; Littoral zone; Lagoons; Islands

Geographic areas Mediterranean Sea; Adriatic Sea; Ionian Sea; Ligurian Sea; Sicilian Channel; Strait of Otranto; Tyrrhenian Sea; Ross Sea; Pacific Ocean

Research programmes/projects

- Relation between seawater column and bottom
- Biological research in the Bannock water and sediments
- Toxic effects of detergent and pesticides on fish epithelia (histochemical/immunohistochemical studies)
- Lectin histochemistry and immunohistochemistry of regulatory peptides in fish and amphibian epithelia

Co-operative research programmes/projects

- ENEA/CNR: Biological oceanography in national research in Antarctica (primary production, marine microbiology and zooplankton)
- CNR: Aquaculture research
- Universite de Brest, France: Hydrothermal area-marine microbiology
- Portsmouth Polytechnic, Great Britain: Marine fungi

Training programmes

- Course/research leading to "Dottorato in Ambiente Marino e Risorse"
- Occasional courses for sewage waste plant technicians, biology of fisheries and aquaculture technicians

Staff Professional 30; Technical 24; Other 5

Information facilities

Publications Memorie di Biologia Marina e di Oceanografia, journal; Annual report

Library 3600 volumes/reprints; 180 periodicals **Librarian** Ms Antonia Di Pietro

Computers 1 IBM PS/2 Model 30 **Applications** Communications; Database management; Education; Graphics; Library/documentation; Mapping; Modelling; Scientific; Statistical; Word processing **Data exchange** Remote access via network

Physical facilities 2500 m²

Laboratories 1500 m²

Research vessels/crafts BR "Algesiro"

Facilities for 3 visiting scientists; 4 students **Conference/seminar facilities** for 80 participants

ITALY

Professional/Scientific staff

Name	Degree	Position	Specialization
Ainis , Luigi (Mr)	Doctorate	Researcher	Comparative anatomy; Immunohistochemistry; Cytochemistry
Albertelli , Giancarlo (Mr)	Doctorate	Professor	Hydrobiology; Zoobenthos ecology
Bruni , Vivia (Ms)	Doctorate	Professor/Director	Marine biology; Ecology; Marine microbiology
Calabró , Concetta (Ms)	Doctorate	Researcher	Zoology; Histology; Cytology
Cavallaro , Guglielmo (Mr)	Doctorate	Associate Professor	Zoology; Fisheries
Cefali , Antonio (Mr)	Doctorate	Researcher	Zoology; Population dynamics
Contini , Antonia (Ms)	Doctorate	Associate Professor	Zoology; Cytology; Oogenesis; Immunohistochemistry; Cytochemistry
Cortese , Giuseppina (Ms)	Doctorate	Researcher	Marine ecology; Chemical oceanography
Costanzo , Giuseppe (Mr)	Doctorate	Associate Professor	Zoology; Marine biology; Crustaceans
De Domenico , Emilio (Mr)	Doctorate	Professor	Marine ecology; Physical oceanography; Biological oceanography
De Francesco , Maria (Ms)	Doctorate	Researcher	Marine ecology; Marine microbiology
Donato , Antonia (Ms)	Doctorate	Associate Professor	Comparative anatomy
Fasulo , Salvatore (Mr)	Doctorate	Associate Professor	Cytology; Histology; Immunohistochemistry; Cytochemistry
Gangemi , Giuseppe (Mr)	Doctorate	Associate Professor	Zoology; Phytoplankton; Plankton blooms
Giacobbe , Salvatore (Mr)	Doctorate	Researcher	Marine ecology; Benthos
Giuffré , Giovanni (Mr)	Doctorate	Researcher	Marine biology; Phytoplankton
Grasso , Sofia (Ms)	Doctorate	Researcher	Marine ecology; Marine microbiology
Guglielmo , Letterio (Mr)	Doctorate	Professor	Marine ecology; Zooplankton
Licata , Aurelio (Mr)	Doctorate	Associate Professor	Cytology; Histology; Immunohistochemistry; Cytochemistry
Lo Cascio , Patrizia (Ms)	Doctorate	Researcher	Histology; Immunohistochemistry; Cytochemistry
Lo Paro , Giuseppe (Mr)	Doctorate	Associate Professor	Biology
Manganaro , Antonio (Mr)	Doctorate	Associate Professor	Marine biology; Ecology; Aquaculture
Martella , Silvestro (Mr)	Doctorate	Researcher	Marine chemistry; Heavy metals
Maugeri , Teresa Luciana (Ms)	Doctorate	Associate Professor	Microbiology; Ecology; Marine microbiology

Name	Degree	Position	Specialization
Minniti , Francesco (Mr)	Doctorate	Researcher	Zoology; Histology; Histochemistry; Immunohistochemistry
Moio , Luigi (Mr)	Doctorate	Associate Professor	Biology; Heavy metals
Potoschi , Antonio (Mr)	Doctorate	Researcher	Zoology; Bathyal fish
Pulicanó , Giuseppa (Ms)	Doctorate	Researcher	Oceanography; Chemical oceanography
Zaccone , Giacomo (Mr)	Doctorate	Professor	Histology; Comparative anatomy; Immunohistochemistry; Cytochemistry
Zagami , Giacomo (Mr)	Doctorate	Researcher	Marine biology; Ecology; Zooplankton

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 ITALY

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Executive officer Dr Cesare F SACCHI, Professor

Governmental, national institution founded in 1971. Languages: Italian; English; French

Nature of activities Research; Academic/educational

Purpose and objectives Teaching and research in general and applied ecology, animal ecology and hydrobiology

Areas of speciality/activities Benthos; Molluscs; Productivity; Community and population studies; Guidance in nature conservation

Environments Brackishwater; Coastal zone; Benthic environment; Littoral zone; Lagoons

Geographic areas Mediterranean Sea; Adriatic Sea

ITALY

Research programmes/projects

- Bionomy of benthic associations
- Ecology of lagoon organisms
- Ecology of bryozoans
- Peracarid crustaceans and littoral gastropod molluscs

Co-operative research programmes/projects

- Inter-University Centre of Fresh Water Ecology (CIEAI): Ecology of internal waters
- Centro Interuniversitario per la Cooperazione con l'America Latina (EULA): Biology of coastal waters

Training programmes

- Course work and research leading to Doctoral Degree in animal ecology and hydrobiology

Staff Professional 3; Technical 1; Other 1

Information facilities

Publications Collected reprints (annual)

Library 1500 volumes/reprints; 18 periodicals

Computers 1 Apple Macintosh II computer; 1 Printer (Apple ImageWriter) **Applications** Scientific; Statistical; Word processing **Data exchange** 5.25" PC diskettes

Physical facilities

Laboratory equipment 2 light microscopes (Zeiss); 6 stereomicroscopes (Wild); 1 spectrophotometer; Microclimatic recorder; Analytical scales

Facilities for 6 students

Professional/Scientific staff

Name	Degree	Position	Specialization
Occhipinti-Ambrogi, Anna (Ms)	Doctorate	Researcher	Benthic ecology; Sessile benthos
Sacchi, Cesare F (Mr)	PhD	Professor/Head	Animal ecology; Biogeography; Ecophysiology
Sconfietti, Renato (Mr)	Doctorate	Collaborator	Benthic ecology; Peracarid crustaceans

University of Venice
Department of Environmental Science
Università di Venezia
Dipartimento di Scienze Ambientali

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ITALY

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Fax (39) 41 5298584

Executive officer Dr Angelo Antonio ORIO, Professor

Governmental, national institution founded in 1868. Languages: Italian; English; French

Nature of activities Research; Academic/educational

Purpose and objectives Education and research in the field of environmental sciences

Areas of speciality/activities Analytical methodology; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Suspended matter; Biota; Sedimentology; Phytoplankton; Algae; Eutrophication; Plankton blooms; Productivity; Fisheries; Aquaculture; Monitoring and/or assessment; Pollution; Environmental education; Assistance to municipal, regional and national government; Applied environmental research conducted with private companies

Environments Lakes; Coastal zone; Benthic environment; Lagoons; Estuaries

Geographic areas Adriatic Sea

Research programmes/projects

- Research conducted in the researcher's particular area of speciality singly or in collaboration with other Italian or foreign institutions

Co-operative research programmes/projects

- Dutch institution: Major international co-operative programme on eutrophication processes of lagoons and shallow coastal ecosystems
- Brazilian institution: Project on coastal water eutrophication

Training programmes

- Standard university courses and research leading to MSc (Laurea) in environmental sciences and PhD in analytical and environmental chemistry

Staff Professional 27; Technical 9; Other 4

Information facilities

Publications Scientific papers published in national and international journals

ITALY

Library Yes **Co-operative programmes/projects** Main University Library **Librarian**
Ms Luciana Tagliapietra; Mr Giuseppe Rapposelli

Computers 24 PCs **Applications** Accounting/financial planning; Communications; Database management; Graphics; Library/documentation; LAN; Mathematical; Mapping; Modelling; Network access; Scientific; Statistical; Word processing **Data exchange** Remote access (University Computing Centre; Northern Italy Computing Centre (CINECA), Bologna; IRS/European Space Agency, Frascati)

Physical facilities 1500 m²

Laboratories 1100 m²; climate controlled

Research vessels/crafts RV "U D'Ancona" of the Italian CNR, is used regularly; Small boats, 5-6 m

Facilities for 5 visiting scientists; 5 students **Conference/seminar facilities** for 20 participants; 11 classrooms for 50-200 people **Lodging** available at the Fondation, Venice

Professional/Scientific staff

Name	Degree	Position	Specialization
Argese , Emanuele (Mr)	Laurea	Associate Professor	Physical biochemistry; Enzyme activity; New analytical methods
Avezzu , Francesco (Mr)	Laurea	Associate Professor	Waste treatment processes; Heavy metals removal through biological treatment
Biscontin , Guido (Mr)	Laurea	Associate Professor	Restoration chemistry; Behaviour and restoration of architectural surfaces
Bragadin , Marcantonio (Mr)	Laurea	Associate Professor	Physical biochemistry; Biotests of water toxicity
Capodaglio , Gabriele (Mr)	Laurea	Researcher	Analytical chemistry; Heavy metal speciation
Cecchi , Franco (Mr)	Laurea	Associate Professor	Solid waste treatment processes; Anaerobic digestion of mixed organic biomass
Cescon , Paolo (Mr)	Laurea	Professor	Analytical chemistry; Polymers as photoconductors
De Nardo , Luciano (Mr)	Laurea	Researcher	Analytical chemistry
Donazzolo , Romano (Mr)	Laurea	Associate Professor	Environmental chemistry; Nutrients and inorganic pollutants in coastal areas
Grasso , Mario (Mr)	Laurea	Professor	Biology; Bioaccumulation of heavy metals in shellfish
Lavagnini , Irma (Ms)	Laurea	Associate Professor	Mathematics; Numerical methods in chemistry
Lucchini , Vittorio (Mr)	Laurea	Professor	NMR spectroscopy; Reactivity of aliphatic systems

ITALY

Name	Degree	Position	Specialization
Marani , Alessandro (Mr)	Laurea	Associate Professor	Mathematical modelling; Chemical processes at the pollution sight and drainage area
Marcomini , Antonio (Mr)	Laurea	Researcher	Environmental chemistry; Behaviour of organic micropollutants in water analysis
Mazzei , Ileana (Ms)	Laurea	Associate Professor	Physical chemistry; Mathematical modelling of the Venice Lagoon
Menegazzo , Laura (Ms)	Laurea	Associate Professor	Geochemistry; Geochemical and mineralogical studies of the Venice Lagoon
Moret , Ivo (Mr)	Laurea	Associate Professor	Technology of commerce; Statistical methods in the technology of commerce
Orio , Angelo A (Mr)	Doctorate	Professor/Executive Officer	Environmental chemistry; Pollution; Eutrophic processes in lagoons and shallow areas
Panagia , Salvatore (Mr)	Laurea	Associate Professor	Law
Pavoni , Bruno (Mr)	Laurea	Associate Professor	Environmental chemistry; Analysis and environmental processes of PAH, PCBs
Perin , Guido (Mr)	Laurea	Associate Professor	Ecotoxicology; Rendering surface waters potable
Rampazzo , Giancarlo (Mr)	Laurea	Researcher	Geochemistry; Geochemical characterization of lagoon sediments
Ravera , Oscar (Mr)	Laurea	Professor	Ecology; Influence of interspecific relation on biohandling techniques
Scarpioni , Giuseppe (Mr)	Laurea	Associate Professor	Analytical chemistry; Chemometrics applications in analytical chemistry
Traverso , Pietro (Mr)	Laurea	Associate Professor	Treatment processes; Inertisation of toxic wastes
Tundo , Pietro (Mr)	Laurea	Professor	Organic chemistry; Chemical decomposition of PCBs
Zilio Grandi , Francesco (Mr)	Laurea	Associate Professor	Analytical chemistry; Chemical characterization of fall-out

ITALY

University of Venice
Department of Environmental Science
Section of Geominerology
Università di Venezia
Dipartimento di Scienze Ambientali
Sezione Geo-Mineralogica

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Venezia 30123
ITALY

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Fax (39) 41 5298584

Executive officer Dr Laura MENEGAZZO VITTURI, Associate Professor

Governmental, national institution founded in 1983. Languages: Italian

Nature of activities Research; Academic/educational

Purpose and objectives Academic education and research

Areas of speciality/activities Analytical methodology; Heavy metals; Radioactivity; Sediments; Suspended matter; Sedimentology; Coastal and nearshore processes; Pollution; Environmental education; Courses in lithology and geology for students of environmental sciences; Courses in mineralogy and geochemistry for students of chemistry; Research activities in the fields of mineralogy, geochemistry and sedimentology

Environments Coastal zone; Lagoons; Estuaries

Geographic areas Adriatic Sea; Antarctic

Research programmes/projects

- Studies of suspended matter and sediments in estuarine environments
- Research on the geochemistry of bottom sediments in the Ross Sea (Antarctica)
- Investigations on the geochemical characteristics of the Rosso Ammonitico Veronese nodular limestones

Co-operative research programmes/projects

- Sediment pollution of the Adriatic Sea
- Environmental capacity of estuaries

Training programmes

- Teaching lithology and geology to students of environmental sciences
- Teaching mineralogy and geochemistry to students of chemistry

Staff Professional 2; Technical 2

Information facilities

Publications Technical reports; Papers in the world scientific literature

Library 1000 volumes/reprints; 80 periodicals

Computers 2 PCs (Olivetti M24 and Zenith 386); 2 Printers (Panasonic and Mannesmann)

Applications Database management; Statistical; Word processing

Physical facilities 60 m²

Laboratories 80 m²; climate controlled **Laboratory equipment** Microscopes for mineralogy; Sedigraph; Specific surface area analyser; Differential thermal analysis; Atomic absorption spectrophotometer with graphite furnace; Spectrophotometer; Grab; Corer

Facilities for 2 visiting scientists; 2 students **Conference/seminar facilities** available

Professional/Scientific staff

Name	Degree	Position	Specialization
Menegazzo Vitturi, Laura (Ms)	Doctorate	Associate Professor/Executive Officer	Mineralogy; Sedimentology; Sediment role in environmental pollution
Rampazzo, Giancarlo (Mr)		Researcher	Geochemistry; Analytical methodologies in geochemistry of particulate matter

LEBANON

National Council for Scientific Research Marine Research Centre (MRC)

Haret Sakhr
P.O. Box 123
Jounieh
Keserouan
LEBANON

Telephone (961) 9 918570
(961) 9 934763

Cable P.O. BOX 123 JOUNIEH

Executive officer Dr Hratch H KOUYOUMJIAN, Professor

Governmental, national institution founded in 1978. Languages: Arabic; English; French

Nature of activities Research; Laboratory; Academic/educational; Information/public awareness

Purpose and objectives Studies and research in marine science and the sustainable development of marine resources

Areas of speciality/activities Water masses and circulation; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Waters; Biota; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Eutrophication; Plankton blooms; Crustaceans; Marine microbiology; Parasitology; Aquaculture; Monitoring and/or assessment; Pollution; Environmental education; Guidance to pressure groups and environmental awareness campaigns; Assistance to the government and to the private sector in the planning of monitoring programmes; Provision of laboratory facilities

Environments Coastal zone; Benthic environment; Littoral zone

Geographic areas Levantine Sea

Research programmes/projects

- Environmental monitoring
- Survey of fish larvae and ichthyoplankton
- Benthic surveys
- Study of primary productivity and phytoplankton
- Physiology of invertebrates

Co-operative research programmes/projects

- UNEP/MED POL: Monitoring station
- UNDP/FAO: Mariculture for MEDRAP

Training programmes

- No designated training programme. Occasionally students are accepted for specific training or facilities are provided for new studies and research

Staff Professional 13; Technical 3

Information facilities

Publications Contributions to the Lebanese Science Bulletin

Library 1000 volumes/reprints; 5 periodicals **Co-operative programmes/projects** NSCR Library; American University of Beirut Library

Computers Various Applications Database management; Statistical; Word processing

Physical facilities 300 m²

Laboratories 250 m²; climate controlled **Laboratory equipment** GLC (various); AAS (Pye Unicam); Spectrophotometers; SScales; Microbiological equipment; Temperature light control chambers; Diving equipment (3 licensed divers); Lyophiliser; Compound and inverse microscopes; Photographic equipment **Aquariums** Small tanks only

Professional/Scientific staff

Name	Degree	Position	Specialization
Abboud-Abi Saab , Marie (Ms)	PhD	Senior Staff	Phytoplankton; Primary productivity
Belian , Jean (Mr)	BS	Research Assistant	Microbiology; Water quality
Haber , Ricardo (Mr)	MSc	Research Assistant	Meifauna; Coastal ecology
Kassab , M T (Ms)	BS	Research Assistant	Phytoplankton; Taxonomy
Kibar , Najad (Mr)	PhD	Senior Staff	Oceanography; Coastal circulation
Kouyoumjian , Hratch (Mr)	PhD	Professor/Executive Officer	Environmental monitoring; Aquaculture; Environmental problems; Bioassays
Lakkis , Sami (Mr)	PhD	Senior Staff	Zooplankton; Copepods; Fish larvae
Mattar , Nada (Ms)	BS	Research Assistant	Chemistry; Benthos
Mousessian , Mary (Ms)	BS	Research Assistant	Pharmacology; Metals
Najjar , Elie (Mr)	BS	Research Assistant/Assistant to Director	Pesticides; Herbicides; Chlorinated hydrocarbons
Nouayhed , Mamun (Mr)	PhD	Senior Staff	Physiology; Aquaculture; Shrimp physiology
Yazbek , Jeanine (Ms)	MSc	Research Assistant	Oceanography; Nutrients
Zeidane , Raymonde (Ms)	BS	Research Assistant	Zooplankton; Taxonomy; Populations

LIBYA

National Academy of Scientific Research (NASR)

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Fax (218) 21 39841

Executive officer Professor Taher E JEHAIMI, Director General

Governmental, national institution founded in 1982. Languages: Arabic; English

Nature of activities Academic/educational; Policy and planning

Purpose and objectives Planning, co-ordination and scientific and financial support of research activities

Areas of speciality/activities Modelling; Analytical methodology; Nutrients; Heavy metals; Radioactivity; Biota; Fish; Algae; Marine biochemistry; Marine microbiology; Community and population studies; Coastal zone management; Pollution; Environmental impact assessment; Environmental economics; Environmental education; Ocean policy/Law of the Sea; Development policy/planning; Commerce and trade; Resources management; Mineral resources; Energy resources; Physical planning; National scenario for the environment: 2000-2025

Geographic areas Mediterranean Sea

Research programmes/projects

- Land use
- Coastal pollution control (Algae)
- Various other projects

Co-operative research programmes/projects

- Technical Centre for the Protection of the Environment
- National Institute for Environmental Research

Staff Professional 50; Technical 80; Other 40

Information facilities

Publications Newsletter (quarterly); Journal (bi-annual); Technical reports; Monographs

Library 15000 volumes/reprints; 140 periodicals **Co-operative programmes/projects** Various

Librarian Mr Mohamed Bumais, Head of Publications Department

Computers Various Applications Accounting/financial planning; Database management; Geographic Information Systems (GIS); Scientific; Statistical **Data exchange** On-line access to international databanks

Physical facilities

Laboratories climate controlled

Conference/seminar facilities for 100 participants

MALTA

Foundation for International Studies Euro-Mediterranean Centre on Marine Contamination Hazards

Old University Bldgs
St. Paul Street
Valletta
MALTA

Telephone (356) 234121
(356) 234122
(356) 224067

Telex 1673 FOUND MW
Fax (356) 230551

Executive officer Mr Anton MICALLEF, Director

International nongovernmental institution founded in 1987. Languages: English; French; Italian

Nature of activities Research; Technical training; Academic/educational; Information/public awareness

Purpose and objectives Training, research, information management and dissemination

Areas of speciality/activities Analytical methodology; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Marine biology and ecology; Eutrophication; Molluscs; Marine microbiology; Toxicology; Coastal zone management; Pollution; Environmental education; Remote sensing; Ocean policy/law of the Sea; Disaster preparedness and relief; Biological effects of pollutants on marine organisms

Environments Coastal zone; Pelagic environment; Benthic environment; Littoral zone; Islands

Geographic areas Mediterranean Sea

Training programmes

- Aspects of marine documentation in the Mediterranean
- Monitoring and assessment of atmospheric contaminants in the Mediterranean
- Applications of ecotoxicology

Staff Professional 3; Other 2

Information facilities

Publications Monographs; Proceedings of conferences

Library 7000 volumes/reprints; 210 periodicals **Co-operative programmes/projects** Maltese National Library; University of Malta library; Centre National de Documentation Agricole (Alger); IOI library, Malta; OCSEM library; Centre International de Hautes Etudes Agronomiques **Librarian** Mr Damian Iwueke

Computers 3 PCs (IWILL/AT, Future Technologie PC3000, Sharp PC4500) **Applications**
Database management; Desktop publishing; Education; Project management; Scientific; Word processing

Physical facilities

Research vessels/crafts One 12 m marine research vessel

Facilities for 4 visiting scientists; 20 students **Conference/seminar facilities** for 300 participants, simultaneous interpretation **Lodging** available

Professional/Scientific staff

Name	Degree	Position	Specialization
Axiak, Victor (Mr)	PhD	Professor	Marine biology; Toxicology
Busuttil, Salvino (Mr)	PhD	Professor	Economics
Micallef, Anton (Mr)	BS	Director	Marine pollution

International Ocean Institute (IOI)

59 Old Mint Street
P.O. Box 524
Valletta
MALTA

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Telex 1946 OCEANS MW/(via UK) 93121322824 CVG
Cable INTEROCEAN
Fax (356) 247594
E-mail (DIALCOM) 75CMI.044

Executive officer Dr Anna MALLIA, Head, Academic Affairs

International nongovernmental institution founded in 1972. Languages: English

Nature of activities Research; Technical training; Academic/educational; Policy and planning; Information/public awareness; Conferences

Areas of speciality/activities Physical oceanography; Marine chemistry and geochemistry; Marine geology and geophysics; Marine biology and ecology; Fisheries; Aquaculture; Marine environmental management; Monitoring and/or assessment; Coastal zone management; Pollution; Nature conservation and/or restoration; Environmental impact assessment; Environmental economics; Environmental education; Marine support services; Ocean policy/law of the Sea; Development policy/planning; Recreation/tourism; Resources management; Mineral resources; Energy resources; Physical planning; Marine archaeology; Pacem in Maribus Convocations; Course in marine affairs

MALTA

Environments Coastal zone

Geographic areas Mediterranean Sea; Atlantic Ocean; Caribbean; Indian Ocean

Research programmes/projects

- Alternative modes of funding the Mediterranean Trust Fund
- Regional centres for R&D in marine industrial technology
- Joint venture in deep seabed mining
- Impact of perestroika on the Law of the Sea

Co-operative research programmes/projects

- African-Asian Legal Consultative Committee (AALCC): Joint venture in deep seabed mining

Training programmes

- Class A-Seabed mining and the preparatory commission (1991-India)
- Class B-Management of the EEZ (1991-Canada and Malta)
- Class C-Regional seas (1991-Italy (Mediterranean), Jamaica (Caribbean), Mauritius (Indian Ocean))

Staff Professional 4; Other 5

Information facilities

Publications Across the Oceans; IOI News; Current Holdings; Ocean Yearbook; Pacem in Maribus, Proceedings; Occasional publications/papers; Research reports

Library 3000 volumes/reprints; 300 periodicals **Co-operative programmes/projects** IAMSLIC; EURASLIC; University of Malta Library; Foundation for International Studies, Malta, library **Librarian** Mr Damian Iwueke

Computers 2 PCs (AT) **Applications** Communications; Database management; Education; Library/documentation; Network access; Project management; Word processing

Professional/Scientific staff

Name	Degree	Position	Specialization
Chircop, Aldo E (Mr)	JSD	Director	International law; Law of the sea; Marine law and policy; Environmental law; Mediterranean studies
Iwueke, Damian (Mr)	MLS	Librarian	Library science; Documentation
Mallia, Anna (Ms)	PhD	Head, Academic Affairs	
Mann Borgese, Elisabeth (Ms)	PhD	Chairperson	Political science; Development studies; Law of the sea
Van Der Bilt, Caroline F (Ms)	BA	Vice Chairperson	Marine affairs

**University of Malta
Biology Department**

Msida
MALTA

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(356) 336451
Fax (356) 336450

Executive officer Professor Carmelo AGIUS, Department Head

State-funded institution. Languages: English

Nature of activities Research; Technical training; Laboratory; Academic/educational

Purpose and objectives Teaching and research in biology

Areas of speciality/activities Marine biology and ecology; Benthos; Algae; Molluscs; Crustaceans; Community and population studies; Coastal zone management; Pollution; Nature conservation and/or restoration; Environmental impact assessment; Environmental education; Resources management; Research and teaching to degree-level in marine ecology, ecotoxicology, marine botany and aquaculture

Environments Brackishwater; Coastal zone; Benthic environment; Littoral zone; Islands

Geographic areas Mediterranean Sea

Research programmes/projects

- Aquaculture
- Microbiology
- Marine ecotoxicological research
- Marine vegetation/floristics
- Marine faunistics
- Ecology of the Maltese Islands

Training programmes

- MSc, BS in biology

Staff Professional 5; Technical 5; Other 2

Information facilities

Publications CENTRO; Technical reports; Monographs; Papers in the world scientific literature

Library Yes **Librarian** Mr Paul Xuereb

Computers Various **Data exchange** Various

MALTA

Physical facilities

Laboratories 500 m²; climate controlled **Laboratory equipment** Standard SCUBA equipment; Water quality equipment **Aquariums** 1x200 m³ **Species maintained** Marine invertebrates; Fish: Tilapia, Sea bass, Breams

Facilities for 3 visiting scientists; 10 students **Conference/seminar facilities** for 60 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Agius , Carmelo (Mr)	PhD	Professor/Department Head	Fisheries; Aquaculture
Axiak , Victor (Mr)	PhD	Professor	Marine biology; Marine ecotoxicology
Balzan , Rena (Ms)	Doctorate	Lecturer	Genetics
Lanfranco , Edwin (Mr)	BS	Lecturer	Botany; Marine vegetation; Floristics
Schembri , Patrick J (Mr)	PhD	Professor	Marine biology; Ecology; Environmental management

MONACO

International Atomic Energy Agency Marine Environment Laboratory (MEL)

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Monaco 98000
MONACO

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Telex 479378 ILMR
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Executive officer Professor Murdoch Scott BAXTER, Director

United Nations institution. Languages: English

Nature of activities Research; Technical training; Laboratory; Information/public awareness

Purpose and objectives Marine radioecology; Marine biogeochemistry; Marine environmental studies; Marine pollution studies; Marine geochemistry; Marine radiogeochemy

Areas of speciality/activities Physical oceanography; Instruments and methods; Water masses and circulation; Currents and dispersion; Air-sea interaction; Marine chemistry and geochemistry; Analytical methodology; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Radioactivity; Sediments; Waters; Suspended matter; Biota; Marine biology and ecology; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Eutrophication; Plankton blooms; Molluscs; Crustaceans; Marine physiology; Marine biochemistry; Toxicology; Productivity; Marine environmental management; Monitoring and/or assessment; Pollution; Environmental impact assessment; Environmental education; Marine support services; Marine technology; Delination of processes controlling the fluxes and vertical transport of artificial and natural radionuclides in coastal and open ocean water; Definition of the role biogenic particles play in affecting material scavenging in marine systems; Assessment of the pathways and transfer rates of radionuclides and trace organic contaminants through marine food chains; Study of sources, levels, pathways, fates and effects of non-nuclear marine contaminants and measures for their control and abatement; Development of analytical methods and strategies for the assessment of trace organic and inorganic contaminants; Study of the distribution of organic and inorganic substances in the marine environment which act as tracers for oceanographic or geochemical processes; Study of sources, levels, pathways and fates of artificial radionuclides; Development of analytical methods and strategies for the assessment of different radionuclides; Study of the distribution of natural and artificial radionuclides in the marine environment for use as tracers of oceanographic processes

Environments Coastal zone; Mangrove swamps; Pelagic environment; Benthic environment; Rivers; Littoral zone; Lagoons; Coral reefs and atolls; Islands; Estuaries

Geographic areas Mediterranean Sea; Adriatic Sea; Aegean Sea; Algero-Provencal Basin; Balearic Sea; Dardanelles; Gulf of Lyon; Ionian Sea; Levantine Sea; Ligurian Sea; Tyrrhenian Sea; Atlantic Ocean; Bosphorus; Marmara Sea; Black Sea; Red Sea; Antarctic; Caribbean; Pacific Ocean; Baltic Sea; North Sea; Irish Sea

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Research programmes/projects

- Study of the vertical flux of carbon and anthropogenic contaminants in sinking particulate material
- Adsorption and desorption of radionuclides and trace elements in biogenic detrital particles
- Uptake and assimilation of radionuclides ingested by marine organisms
- Transfer and cycling of radiolabelled agrochemicals through tropical lagoon ecosystems
- Measurements of organic and inorganic carbon fixation by carbonate-producing phytoplankton
- Fate of agrochemicals in Tropical Lagoon ecosystems
- Mussel watch for trace contaminants (Mediterranean and Latin America)
- Rare earth element geochemistry of the Mediterranean and the Gulf of California
- Development of analytical techniques for trace organic contaminants in the marine environment
- Study of the vertical flux of anthropogenic contaminants in water columns
- Study of the distribution and fate of specific radionuclides in water and sediments from the world oceans

Co-operative research programmes/projects

- DYFAMED (Centre des Faibles Radioactivites, Gif-sur-Yvette) under PFO (French Oceanic Flux Programme)
- MEDATLANTE-id
- EUMELI (Universite Paris VI, Villefranche-sur-Mer) under PFO (French Oceanic Flux Programme)
- FRONTAL-id
- Regional analytical centre for UNEP's MED POL programme in co-operation with all UNEP Regional Seas Programmes and institutional network MESL
- Co-operation with IOC's regional programmes on marine pollution, particularly those institutions in the Caribbean and Indian Ocean

Training programmes

- Marine moorings and particle flux studies
- Analytical methods used to measure natural and artificial radionuclides
- Analytical methods for organic and inorganic trace contaminants
- Marine pollution assessment strategies
- Courses in marine pollution chemistry, marine pollution assessment

Staff Professional 22; Other 8

Information facilities

Publications Biennial Report; UNEP/IOC/IAEA Reference Methods for Marine Pollution Studies (59 currently published)

Library 2000 volumes/reprints; 30 periodicals **Librarian** Ms Isabelle Roggi

Computers Various **Applications** Accounting/financial planning; Communications; Database management; Graphics; Modelling; Scientific; Statistical; Word processing

Physical facilities

Laboratories climate controlled **Laboratory equipment** NaI Gamma Spectrometer; Ge(Li)Gamma Spectrometer; CHN Analyser; HPLC system; Numerous microscopic systems; 7 capillary gas chromatographs with ECD, FPD, FID, NPD detectors; 1 gas chromatograph-mass spectrometer system; 1 high precision liquid chromatograph; 1 scanning spectrophotometer, 1 scanning spectrofluorometer; 1 inductively-coupled plasma mass spectrometer; 2 atomic absorption spectrophotometers, 1 anodic stripping voltammeter; 3 Ge(HP) gamma spectrometers; 10 gasflow anti-coincidence low-background beta proportional counters; 53 surface barrier silicon detectors for alpha spectrometry **Aquariums** 30x4 m³ **Species maintained** Various, according to needs: fish, shellfish, crustacea

Research vessels/crafts "Phébus", small ship belonging to the Musée Océanographique, is used periodically

Conference/seminar facilities available **Lodging available**

Professional/Scientific staff

Name	Degree	Position	Specialization
Availlée, F (Mr)			Electronic engineering
Ballestra, S (Mr)	Doctorate		Radiogeochemistry
Barisic, T (Mr)			Marine environment
Baxter, Murdoch S (Mr)	Doctorate	Director	
Cattini, C (Ms)			Marine environment
Collyer, M (Ms)			Administration
Engemann, R (Ms)			Administration
Fabry, V (Mr)	Doctorate		Radioecology
Fonseca, D (Ms)			Administration
Fowler, S W (Mr)	Doctorate	Head, Radioecology Laboratory	Radioecology
Gastaud, J (Mr)	Doctorate		Radiogeochemistry
Hamilton, T (Mr)	Doctorate		Radiogeochemistry
Henry, S (Ms)			Marine environment
Huynh-Ngoc, L (Mr)	Doctorate		Radiogeochemistry
La Rosa, J (Mr)			Radioecology
Liong Wee Kwong, L (Mr)			Marine environment
Lopez, J J (Mr)			Radiogeochemistry
Maillard, D (Mr)	Doctorate		Electronic engineering
Mee, L D (Mr)	Doctorate	Head, Marine Environmental Studies Laboratory	Marine environment
Miquel, J C (Mr)	Doctorate		Radioecology
Nolan, C (Mr)	Doctorate		Radioecology
Noshkin, V E (Mr)	Doctorate	Head, Radiogeochemistry Laboratory	Radiogeochemistry

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Name	Degree	Position	Specialization
Oregioni, B (Mr)	Doctorate		Marine environment
Parsi, P (Mr)			Radiogeochemistry
Peinert, R (Mr)	Doctorate		Radioecology
Pontis, J L (Mr)			Electronic engineering
Razmjoo, M (Ms)			Radioecology
Readman, J (Mr)	Doctorate		Marine environment
Sanchez, A (Mr)	Doctorate		Radiogeochemistry
Teyssie, J L (Mr)			Radioecology
Vas, D (Ms)			Radiogeochemistry
Villeneuve, J P (Mr)	Doctorate		Marine environment

Ministère d'Etat Office Monégasque de l'Environnement (OME)

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PRINCIPAUTE DE MONACO

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Directeur Professeur Agrégé Patrick VAN KLAVEREN, Directeur

Organisme gouvernemental, national créé en 1991. Langues de travail: Français

Nature des activités Recherche; Laboratoire; Information, vulgarisation

Objectifs/mandat Surveillance de l'environnement

Domaines ou disciplines scientifiques/activités Océanographie physique; Masses d'eau et circulation; Courants et dispersion; Modélisation; Méthodologie analytique; Substances nutritives; Métaux lourds; Composés organiques (hydrocarbures halogènes, hydrocarbures pétroliers, etc.); Radioactivité; Eaux; Matière en suspension; Géologie marine et géophysique; Sismologie; Biologie marine et écologie; Phytoplancton; Benthos; Microbiologie marine; Météorologie marine et climatologie; Surveillance continue et/ou évaluation; Pollution; Evaluation de l'impact sur l'environnement; Suivi régulier des métaux lourds, sels nutritifs, pigments chlorophylliens, détergents anioniques, hydrocarbures aromatiques, germes entériques, radioactivité gamma, dans l'eau de mer, de torrents, de pluie et les aliments végétaux et animaux d'origine locale; Sismologie et météorologie; Pollution atmosphérique urbaine

Environnements Zones côtières; Rivières; Zones littorales

Zones géographiques Mer Méditerranée; Mer de Ligurie

Personnel Scientifique 9; Autre 2

Moyens d'information

Publications Bulletin

Bibliothèque 12 périodiques **Programmes/projets de coopération** Bibliothèque du Musée Océanographique de Monaco

Ordinateurs Ordinateurs (HP 9845, CCC SLS6350 -sous UNIX-); Apple Macintosh; IBM PS

Applications Comptabilité, planification financière; Publication assistée par ordinateur; Graphiques; Statistiques; Traitement de texte **Echange de données** Divers

Installations 600 m²

Laboratoires 500 m²; climatisés **Equipements de laboratoire** Spectrophotomètre à effet Zeeman; Spectrophotomètre à absorption atomique; Spectrofluorimètre; Fluorimètre; Spectrophotomètre; Sonde CTD; Variosens (fluorimètre immergéeable); Irradiance mètre; Technicon (sels nutritifs, détergents); Ensemble de détection de radioactivité gamma (germanium pur coaxial); Collecteur d'aérosols; Réseau de sismographes; Réseau de capteurs automatisés pour surveillance de la pollution atmosphérique

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Bethoux , Nicole (Mme)	Doctorat 3ème cycle	Sismologue	Sismologie
Boisson , Michel (M)	Doctorat 3ème cycle	Océanographe	
Marmenteau , Claude (M)	Maîtrise	Chimiste Adjoint Qualifié	Pollution atmosphérique urbaine
Pucci , Roland (M)	Doctorat 3ème cycle	Chimiste Adjoint Qualifié	Sels nutritifs
Rapaire , Jean-Louis (M)	Doctorat	Chercheur 3è catégorie	Océanographie physique; Modélisation
Schommers , Evelyne (Mme)	Maîtrise	Biochimiste Adjointe Qualifiée	Microbiologie; Mesures océanographiques
Semeria , Jacques (M)	Maîtrise	Microbiologiste	Microbiologie; Biologie animale
Thommeret , Yolande (Mme)	Ingénieur	Ingénieur Chimiste	Radioactivité
Van Klaveren , Patrick (M)	Doctorat	Professeur/Directeur	
Veglia , André (M)	Doctorat	Chercheur 3è catégorie	Métaux lourds; Coordination scientifique

MONACO

Musée Océanographique de Monaco

Institut Océanographique

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PRINCIPAUTE DE MONACO

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Télex 469037
Télifax (33) 93 505297

Directeur Professeur François DOUMENGE, Directeur

Organisme privé (sans but lucratif) créé en 1910. Langues de travail: Français

Nature des activités Information, vulgarisation

Objectifs/mandat Le Musée Océanographique de Monaco a pour objectif d'être, au sein de la Fondation Albert 1er, un instrument de présentation du monde de la mer au grand public

Domaines ou disciplines scientifiques/activités Océanographie physique; Instruments et méthodes; Masses d'eau et circulation; Courants et dispersion; Vagues, marées, houles et niveau de la mer; Chimie marine et géochimie; Géologie marine et géophysique; Formation des côtes et franges côtières; Biologie marine et écologie; Phytoplancton; Zooplankton; Benthos; Poissons; Mollusques; Crustacés; Mammifères marins; Oiseaux de mer; Pathologie des espèces marines; Toxicologie; Taxinomie et systématiques; Pêches; Aquaculture; Gestion de l'environnement marin; Gestion des zones côtières; Pollution; Conservation et/ou régénération des ressources naturelles; Récifs artificiels; Télédétection; Expositions temporaires: "Rouge Corail", "Aquaculture nouvelle"; Actions pédagogiques avec les CRDP

Environnements Zones côtières; Environnement benthique; Zones littorales; Lagunes; Récifs coralliens/atolls

Zones géographiques Mer Méditerranée; Mer de Ligurie; Mer Rouge; Canal de Suez

Programmes/projets de recherche

- Recherche générale en aquariologie

Personnel Technique 27; Autre 73

Moyens d'information

Publications Mémoires de l'Institut Océanographique; Bulletin de l'Institut Océanographique; Collection "Abysses"

Bibliothèque 25000 volumes/tirés à part; 1200 périodiques **Programmes/projets de coopération**
Avec toutes les bibliothèques d'océanographie **Bibliothécaire**
Mme Jacqueline Carpine

Ordinateurs 8 IBM PS/2; Imprimante HP Deskjet **Applications** Comptabilité, planification financière; Gestion de bases de données; Publication assistée par ordinateur; Graphiques; Bibliothèque/documentation; Télématicque; Scientifique; Traitement de texte **Echange de données** Disquette 3.5"(HD); DBase, Multiplan, et Word 5 fichiers

Installations 100000 m²

Equipements de laboratoire Matériel de mesure des paramètres physico-chimiques; Equipement complet de plongée **Aquariums** 90x340 m³; 100x100 m³

Bateaux/embarcations de recherche "Le Physalie"

Installations pour conférences/séminaires pour 300 participants

MOROCCO

Conseil, Ingénierie et Développement (CID)

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MAROC

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Directeur M. Abdesselam ABOUDRAR, Directeur Général

Organisme privé (commercial) créé en 1982. Langues de travail: Français; Arabe; Anglais

Nature des activités Enseignement (universitaire); Politique/planification

Domaines ou disciplines scientifiques/activités Océanographie physique; Vagues, marées, houles et niveau de la mer; Sédimentologie; Formation des côtes et franges côtières; Politique de développement et planification; Loisirs/tourisme; Aménagement du territoire; Etude du plan directeur portuaire national pour le Maroc; Etude de plusieurs ports de plaisance et marinas le long des côtes du royaume du Maroc; Projet de liaison fixe à travers le détroit de Gibraltar (données environnementales)

Environnements Zones côtières; Rivières; Zones littorales; Estuaires

Zones géographiques Mer Méditerranée; Détrict de Gibraltar; Océan Atlantique

Personnel Scientifique 37; Technique 28; Autre 53

Moyens d'information

Bibliothèque 4000 volumes/tirés à part; 48 périodiques **Bibliothécaire** Mme A Benkirane

Ordinateurs 2 stations de travail SUN; 16 PC; 6 portables; Ordinateur Apple Macintosh IIci; Imprimantes (1 Laser, 10 diverses); Digitaliseur (Benson); Scanner (Apple) **Applications** Comptabilité, planification financière; Communications; "CAD/CAM/CAE"; Gestion de bases de données; Publication assistée par ordinateur; Enseignement; Génie maritime; Graphiques; Bibliothèque/documentation; "LAN"; Mathématique; Cartes; Modélisation; Télématicque; Gestion de projet; Scientifique; Statistiques; Traitement de texte

Installations 1400 m²

Installations pour conférences/séminaires pour 100 participants **Logement** disponible

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Aboudrar , Abdesselam (M)		Directeur Général	Travaux publics; Génie civil
Alami , Khalid (M)	DEA	Ingénieur d'Etudes	Eau et environnement; Hydrogéologie; Hydraulique urbaine
Ameur , Samira (Mme)		Ingénieur d'Etudes	Transport; Economie; Etudes générales; Etudes financières et économiques
Azil , Fathallal (M)		Chef de Département	Structures; Ouvrages d'art
Bourass , Mohamed (M)		Ingénieur Principal	Eau et environnement; Génie rural
Chbicheb , Tarik (M)		Chef de Département	Transport; Economie; Etudes générales; Planification des transports et études technico-économiques
Chihani , El Mostapha (M)		Ingénieur Géologue	Géologie; Aménagements hydrauliques
Daoudi , Amine (M)		Ingénieur d'Etudes	Structures; Conception et étude des structures et ouvrages d'art
Derj , Abdeljalil (M)	Doctorat	Economiste	Economie; Etudes générales; Analyses économiques
El Archi , El Arbi (M)		Ingénieur d'Etudes	Transport; Economie; Etudes générales; Mécanique
El Ghaib , Majid Kaissar (M)	PhD	Ingénieur Principal	Aménagements hydrauliques
El Horri , Khalid (M)		Ingénieur d'Etudes	Transport; Economie; Etudes générales; Planification des transports
El Iraki , Chakib Mohammed (M)		Ingénieur d'Etudes	Aménagements hydrauliques; Travaux hydrauliques
El Jahrani , Abdelouahed (M)		Ingénieur d'Etudes	Aménagements hydrauliques; Mécanique théorique
El Mahraz , Hassan (M)		Ingénieur d'Etudes	Eau et environnement; Génie rural
Guendouz , Dalil (M)		Ingénieur d'Etudes	Informatique; Modélisation; Conception assistée par ordinateur
Haddi , Lotfi (M)		Ingénieur d'Etudes	Travaux maritimes; Génie civil
Jarifi , Mohamed (M)	Doctorat	Chef de Département	Travaux maritimes; Dynamique des fluides; Travaux portuaires
Lahjomri , Ahmed Chakib (M)	Doctorat	Ingénieur d'Etudes	Aménagements hydrauliques; Energétique physique; Mécanique
Lamrini , Khadir (M)		Ingénieur d'Etudes	Transport; Economie; Etudes générales; Planification des transports et études technico-économico-financières

MOROCCO

Nom	Diplôme	Fonction	Spécialité
Lazrak , Khalid (M)		Ingénieur d'Etudes	Structures; Génie civil
Mijuskovic , Branislav (M)		Ingénieur Expert	Structures; Ouvrages d'art
Motia , Mostafa (M)		Ingénieur d'Etudes	Transport; Economie; Etudes générales; Routes et transport
Ouazzani Touhami , Said (M)		Ingénieur d'Etudes	Transport; Economie; Etudes générales; Génie civil
Perrineau , Alain (M)	DEA	Géologue	Hydrogéologie; Aménagements hydrauliques
Rakhami , Abdelmajid (M)		Ingénieur d'Etudes	Travaux maritimes; Construction hydrotechnique des voies de navigation et des ports
Redouane , Mustapha (M)		Ingénieur d'Etudes	Travaux maritimes; Mécanique; Electricité
Rougui , Hamza (M)		Ingénieur Principal	Aménagements hydrauliques; Barrages
Sahrourdi , Ahmed (M)		Ingénieur Principal	Structures; Ouvrages d'art; Hydraulique fluviale; Routes
Tarmidi , Mohammed (M)		Ingénieur d'Etudes	Aménagements hydrauliques; Structures et méthodes
Tazi , Saida (Mme)		Ingénieur d'Etudes	Aménagements hydrauliques; Ressources en eau
Touab , Mouloud (M)		Ingénieur d'Etudes	Structures; Génie civil
Zarrou , Said (M)		Ingénieur d'Etudes	Travaux maritimes; Génie civil; Hydraulique
Zellou , El Yazid (M)		Chef de Département	Eau et environnement
Zenati , Adil (M)		Chef du Service Informatique	Informatique; Electromécanique et informatique
Ziani , Moncef (M)		Chef de Département	Aménagements hydrauliques

Institut Agronomique et Vétérinaire Hassan II Département de Pharmacie, Pharmacologie, Toxicologie et Biochimie

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Directeur M. M'hamed SEDRATI, Directeur

MOROCCO

Organisme gouvernemental, national créé en 1966. Langues de travail: Français

Nature des activités Recherche; Formation spécialisée; Enseignement (universitaire)

Objectifs/mandat Enseignement, recherche et formation spécialisée

Domaines ou disciplines scientifiques/activités Métaux lourds; Composés organiques (hydrocarbures halogénés, hydrocarbures pétroliers, etc.); Toxicologie; Enseignement et recherche en: Toxicologie animale; Pharmacologie; Pharmacie vétérinaire; Biochimie vétérinaire

Zones géographiques Mer Méditerranée; Détriot de Gibraltar; Océan Atlantique

Programmes/projets de recherche

- Ecotoxicité des Métaux lourds
- Pesticides (organochlorés)
- Hydrocarbures d'origine pétrolière
- Plantes toxiques

Programmes de recherche menés en coopération

- Ecotoxicité des Métaux lourds
- Pesticides
- Plantes toxiques

Programmes de formation/enseignement

- Contamination chimique des aliments. Notions de résidus
- Contamination par les pesticides
- Anabolisants
- Polybromobiphényles
- Nitrosamines
- Métaux lourds
- Mercure
- Mycotoxines
- Contamination chimique des eaux

Personnel Scientifique 10; Technique 6; Autre 4

Moyens d'information

Publications Revues; Journaux; Rapports techniques

Bibliothèque 360 volumes/tirés à part; 14 périodiques **Programmes/projets de coopération** avec d'autres bibliothèques

Ordinateurs Divers **Applications** Gestion de bases de données; Publication assistée par ordinateur; Enseignement; Graphiques; Bibliothèque/documentation; Mathématique; Scientifique; Statistiques; Traitement de texte **Echange de données** Divers

Installations 325 m²

MOROCCO

Laboratoires 200 m² **Equipements de laboratoire** Spectromètre d'absorption atomique; Spectrophotomètre UV-visible; Chromatographe en phase gazeuse; HPLC **Aquariums** 1x0.8 m³
Espèces entretenues Salmo gairdneri

Possibilités d'accueil pour 1 scientifique extérieur; 2 étudiants **Installations pour conférences/séminaires** pour 200-300 participants

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Abdennebi , El Hassane (M)	Doctorat	Maître de Conférences	Pharmacologie et toxicologie des antibiotiques; Toxicité des antibiotiques aminosides
Ben Goumi , Mohammed (M)	Doctorat	Maître Assistant	Biochimie animale; Profil métabolique
El Hraiki , Abdelaziz (M)	Doctorat	Maître Assistant	Toxicité des métaux lourds; Toxicité du Cd, Ch, Cr
Hamliri , Ahmed (M)	Doctorat	Maître de Conférences	Nutrition minérale; Nutrition et toxicité des oligoéléments (Se, Cu)
Kessabi , Mimoun (M)	Doctorat	Professeur	Toxicologie; Pharmacologie; Toxicité des métaux lourds et des pesticides
Lamnaouer , Driss (M)	Doctorat	Maître de Conférences	Toxicologie végétale; Anticoagulants coumariniques
Sedrati , M'hamed (M)		Directeur	

Institut Agronomique et Vétérinaire Hassan II Formation Halieutique (IAV HASSAN II-FH)

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Directeur M. M'hamed SEDRATI, Directeur

Organisme gouvernemental, national créé en 1966. Langues de travail: Français; Arabe

Nature des activités Recherche; Enseignement (universitaire)

Objectifs/mandat Enseignement et recherche dans les domaines de sciences biologiques de la mer

Domaines ou disciplines scientifiques/activités Océanographie physique; Chimie marine et géochimie; Composés organiques (hydrocarbures halogènes, hydrocarbures pétroliers, etc.); Biologie marine et écologie; Phytoplancton; Zooplancton; Benthos; Poissons; Algues; Eutrophisation; Mollusques; Crustacés; Physiologie marine; Microbiologie marine; Parasitologie; Pathologie des espèces marines; Toxicologie; Taxinomie et systématiques; Pêches; Aquaculture; Pollution; Evaluation de l'impact sur l'environnement

Environnements Lacs; Eaux saumâtres; Rivières; Estuaires

Zones géographiques Mer Méditerranée; Mer d'Alboran; Mer des Baléares; Détrict de Gibraltar; Océan Atlantique

Programmes/projets de recherche

- Aquaculture lagunaire
- Pollutions des lagunes et des estuaires
- Virologie marine
- Biologie des pêches (espèces démersales)
- Technologie du fumage

Programmes de formation/enseignement

- Formation des Ingénieurs 3e cycle en halieutique (2 ans)

Personnel Scientifique 9; Technique 2

Moyens d'information

Publications Des publications sont faites dans des revues spécialisées françaises et internationales; "Actes de L'IAV Hassan II", revue multidisciplinaire englobant les sciences de la mer

Bibliothèque 10 périodiques

Ordinateurs 1 mini-ordinateur; 3 PC **Applications** Gestion de bases de données; Publication assistée par ordinateur; Enseignement; Scientifique; Statistiques; Traitement de texte

Installations

Possibilités d'accueil pour 2 scientifiques extérieurs; 4 étudiants **Installations pour conférences/séminaires** pour 200 participants **Logement** disponible

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Belmlih, Hamid (M)	Doctorat	Professeur	Technologie des produits de la pêche
Bouchrifi, Noureddine (M)	Doctorat	Maître Assistant	Microbiologie marine
Driouch, Hanan (M)	Ingénieur	Maître Assistant	Algologie (en formation)
El Marrakchi, Abdelhag (M)	Doctorat	Professeur	Microbiologie alimentaire

MOROCCO

Nom	Diplôme	Fonction	Spécialité
El Ouardili, Raja (Mme)	Ingénieur	Maître Assistante	Economie des pêches
Kheyali, Driss (M)	PhD	Maître Assistant	Physiologie marine; Physiologie de la nutrition
Lamrim, Abdeljawad (M)	Doctorat	Maître de Conférence	Océanographie biologique; Pollutions aquatiques
Noury, Nezha (Mme)	Doctorat	Maître Assistante	Parasitologie marine; Parasitologie aquatique
Sedrati, M'hamed (M)		Directeur	
Shafee, Syad (M)	Doctorat	Professeur	Océanographie biologique; Aquaculture

Institut Scientifique (IS)

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Directeur Professeur Driss NAJID, Directeur

Organisme gouvernemental, national. Langues de travail: Français; Arabe

Nature des activités Recherche; Formation spécialisée; Enseignement (universitaire); Information, vulgarisation

Objectifs/mandat Recherche fondamentales dans le domaine des sciences de la nature, conditions d'une collection pour un muséum national d'histoire naturelle et réunion des éléments d'une bibliothèque scientifique nationale

Domaines ou disciplines scientifiques/activités Matière en suspension; Biomasse; Zooplankton; Benthos; Mollusques; Crustacés; Mammifères marins; Oiseaux de mer; Etudes des communautés et populations; Pollution; Evaluation de l'impact sur l'environnement; Conseils pour la protection de la nature; Mise à disposition pour le contrôle de la pollution

Environnements Lacs; Eaux saumâtres; Zones côtières; Environnement pélagique; Environnement benthique; Rivières; Zones littorales; Estuaires

Zones géographiques Mer Méditerranée; Détrict de Gibraltar; Océan Atlantique

Programmes/projets de recherche

- Dynamique de population de certaines espèces marines
- Etude systématique et écologique du benthos
- Etude systématique et écologique du zooplancton
- Etude de l'impact de la pollution sur les peuplements

Personnel Scientifique 3; Technique 3

Moyens d'information

Publications Bulletin de l'Institut Scientifique; Travaux de l'Institut Scientifique; Documents de l'Institut Scientifique

Bibliothèque 55000 volumes/tirés à part; 1800 périodiques **Programmes/projets de coopération** Bibliothèques nationales (facultés et instituts); Internationales (600 universités et instituts à l'étranger)

Ordinateurs Micro-ordinateur Apple Macintosh; PC (HP, 3I, Victor) **Applications** Gestion de bases de données; Publication assistée par ordinateur; Enseignement; Graphiques; Scientifique; Traitement de texte **Echange de données** Disquettes

Installations 1334 m²

Laboratoires 729 m²

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Bayed , Abdellatif (M)	Doctorat 3ème cycle	Chercheur	Biologie et écologie marines; Benthos
Menoui , Mohamed (M)	Doctorat	Chercheur	Systématique et écologie benthiques; Benthos
Najid , Driss (M)	Doctorat	Professeur/Directeur	
Ramdani , Mohamed (M)	Doctorat	Chercheur	Systématique et écologie du zooplancton; Zooplankton

Laboratoire d'Analyse et de Recherches Vétérinaires (LARV)

43 Rue de Tours
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Téléphone (212) 6 305766
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MOROCCO

Directeur Dr Brahim FAIK, Directeur

Organisme gouvernemental, national créé en 1932. Langues de travail: Arabe; Français

Objectifs/mandat Diagnostic biologique des maladies animales; Hygiène alimentaire

Domaines ou disciplines scientifiques/activités Poissons; Mollusques; Crustacés; Commerce;

Environnements Zones côtières; Environnement pélagique; Environnement benthique; Estuaires

Zones géographiques Mer Méditerranée; Détrict de Gibraltar; Océan Atlantique

Programmes/projets de recherche

- Histamine
- Cadavérine
- Putrescine
- Spermine
- Spermidine dans les produits de la pêche

Personnel Scientifique 11; Technique 19; Autre 14

Moyens d'information

Publications Rapports annuels; Rapport techniques

Bibliothèque 2000 volumes/tirés à part; 10 périodiques **Programmes/projets de coopération**
Bibliothèques des facultés ou écoles vétérinaires **Bibliothécaire** Mlle Hourya Khattabi

Ordinateurs Divers **Applications** Gestion de bases de données; Bibliothèque/documentation;
Traitement de texte

Installations 5000 m²

Laboratoires 1200 m²

Possibilités d'accueil pour 3 étudiants **Installations pour conférences/séminaires** pour 20 participants

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Abbadi, Mohamed (M)	Doctorat	Responsable Section Sérologie	Sérologie; Immunologie
Alaoui, Mustapha (M)	Ingénieur	Responsable Section Chimie	Hydrocarbures dans les produits de la pêche; Chromatographie gazeuse; Chromatographie liquide
Benamar, Lahcen (M)	Ingénieur		Métaux lourds; Mytilotoxines
Faik, Brahim (M)	Doctorat	Directeur	Bactériologie et virologie clinique; Microbiologie alimentaire
Jabrane, Ahmed (M)	Doctorat	Responsable Section Virologie	Virologie
Kabbaj, Fatima-Zohra (Mme)	Doctorat		Radioactivité

Nom	Diplôme	Fonction	Spécialité
Maaroufi , Khadija (Mme)	Doctorat	Responsable Diagnostic Bactériologique	Bactériologie
Rouwane , Abdennbi (M)	Ingénieur		PCB; Organochlorés; Chromatographie gazeuse

Ministère de l'Energie et des Mines
Direction de la Géologie
Service de la Géologie Structurale et Marine
Division des Bassins Sédimentaires (MEM-DG-DBS-SGSM)

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Télifax (212) 7 777943

Directeur Ingénieur Mohamed KHALEK, Chef de Service

Organisme gouvernemental, national créé en 1978. Langues de travail: Français; Arabe

Nature des activités Recherche

Objectifs/mandat Evaluation des potentialités du pays par la réalisation d'études intégrées et par la reconnaissance et l'étude des fonds marins

Domaines ou disciplines scientifiques/activités Dépôts; Géologie marine et géophysique; Topographie et morphologie; Sédimentologie; Paléontologie; Pollution; Politique pour les océans/Droit de la Mer; Ressources minérales; Ressources énergétiques; Collecte des données géologiques, géophysiques, sédimentologiques et structurales relatives au plateau continental du Maroc

Zones géographiques Mer Méditerranée; Océan Atlantique

Personnel Scientifique 9; Autre 2

MOROCCO

Moyens d'information

Publications Revue "Mines-Géologie-Energie"; Notes et Mémoires du Service Géologique du Maroc

Bibliothèque 70000 volumes/tirés à part; 900 périodiques **Programmes/projets de coopération** avec 200 organismes internationaux **Bibliothécaire** M. Allal Bahaj

Ordinateurs Micro-ordinateur **Applications** Gestion de bases de données; Graphiques; Bibliothèque/documentation; Cartes; Gestion de projet; Scientifique; Statistiques; Traitement de texte

Installations

Equipements de laboratoire Equipement géophysique (magnétomètres-gravimètres)

Installations pour conférences/séminaires pour 400 participants

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Aboufaris, F (Mme)	Ingénieur	Chercheur	Hydrogéologie; Thermalisme
Alami, Abouhafi (M)	Ingénieur	Chercheur	Géologie; Bassins sédimentaires
Atik, M (M)	Ingénieur	Chercheur	Géologie; Bassins sédimentaires
Bahaj, S (Mme)	Ingénieur	Chercheur	Géologie; Géothermie; Thermalisme
Bouchafra, A (M)	Ingénieur	Chercheur	Géologie; Bassins sédimentaires
Desteucq, Ch (M)	Doctorat 3ème cycle	Chercheur	Géologie structurale; Bassins sédimentaires
Hamouda, M F (M)	Ingénieur	Chercheur/Responsable Division des Bassins Sédimentaires	Géophysique
Khalek, Mohamed (M)	Ingénieur	Chercheur/Chef, Responsable du Service de la Géologie	Géologie minière
Melouki, A (M)	Ingénieur	Chercheur	Géologie pétrolière; Bassins sédimentaires
Rhataus, A (M)	Ingénieur	Chercheur	Géochimie; Géophysique; Bassins sédimentaires

**Ministère des Pêches Maritimes et de la Marine Marchande
Institut Scientifique des Pêches Maritimes
Office National des Pêches (ISPM)**

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(212) 6 276088

Directeur M. Mohammed RAMI, Directeur

Organisme gouvernemental, national créé en 1947. Langues de travail: Français

Nature des activités Recherche; Laboratoire; Politique/planification; Information, vulgarisation; Recherche appliquée

Objectifs/mandat Recherche scientifique appliquée au domaine maritime visant la protection des ressources halieutiques, la protection de l'environnement marin, le développement du secteur des pêches maritimes

Domaines ou disciplines scientifiques/activités Océanographie physique; Poissons; Algues; Mollusques; Crustacés; Pêches; Aquaculture; Pollution; Politique de développement et planification; Prévision et remèdes aux catastrophes; Gestion des ressources; Aménagement du territoire; Evaluation des ressources halieutiques; Elaboration des plans d'aménagement des pêches; Etude des pollutions marines et surveillance de la qualité du milieu marin; Elaboration du Plan Directeur de Développement de l'Aquaculture au Maroc; Recherche dans le domaine de la technologie des pêches et de la valorisation des produits de la mer

Environnements Lacs; Eaux saumâtres; Environnement pélagique; Environnement benthique; Rivières; Zones littorales; Lagunes; Récifs coralliens/atolls; Estuaires

Zones géographiques Mer Méditerranée; Océan Atlantique

Programmes/projets de recherche

- Evaluation et contrôle continu des ressources en Atlantique et en Méditerranée
- Océanographie halieutique (étude des upwellings et de l'hydrodynamique des milieux confinés)
- Technologie de la pêche et des engins de pêche
- Socio-économie des pêches: Réalisation d'analyses socio-économiques
- Pollutions marines (surveillance salubrité du milieu marin et des milieux confinés)
- Aquaculture (études sur les potentialités du littoral marocain en matière d'aquaculture et conchyliculture)

Programmes de recherche menés en coopération

- PNUE/MED POL
- MEDRAP II: Plan de développement de l'aquaculture au Maroc
- Mise en place d'un système de contrôle de salubrité IFREMER, France
- FAO: Plan d'aménagement des pêches au Maroc

Personnel Scientifique 34; Technique 19; Autre 27

MOROCCO

Moyens d'information

Publications Bulletin de l'ISPM; Notes d'information

Bibliothèque 1000 volumes/tirés à part; 50 périodiques

Ordinateurs PC (8 Olivetti AT/XT, 3 Compaq AT, 2 IBM AT/PC, 1 Unisys AT); 1 portable (Toshiba XT) **Applications** Gestion de bases de données; Graphiques; Bibliothèque/documentation; Scientifique; Statistiques; Traitement de texte

Installations 2500 m²

Laboratoires 2000 m² **Equipements de laboratoire** Spectrophotomètre d'absorption atomique; Chromatographe en phase gazeuse; Soxhlet; Rotavapor; Centrifugeuse; Distillateur d'eau; Bain de sable; Four à moufle; Autoclaves; Etuves; Congélateurs; Equipment de traitement et lecture d'âge des poissons; Matériel de pêche (chaluts, filets à plancton, etc.)

Bateaux/embarcations de recherche 2 navires de recherche avec équipement océano-graphique et liaison radio-téléphone avec l'ISPM

Possibilités d'accueil pour 1 scientifique extérieur; 1 étudiant **Installations pour conférences/séminaires** pour 30 participants

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Ameziane, Sanaa (Mme)		Biologiste de Pêche	
Atmani, H'Aida (Mme)	MSc	Economiste des Pêches	
Ben Bouchaib, Kamal (M)	Ingénieur	Océanographe	
Ben Khaouad, Abdellah (M)	Ingénieur	Biologiste de Pêche	
Ben Youssef, Imane (Mme)		Chimiste	
Bencherifi, Salah (M)	Ingénieur	Chef de Service Ressources Pélagiques	
Benradi, Rachida (Mme)	Ingénieur	Economiste des Pêches	
Berrahd, Abdellatif (M)	Biologiste	Chef de Division	
Biaali, Rabia (Mme)	Ingénieur	Biologiste de Pêche	
Boulamaaz, Abdellatif (M)		Biologiste de Pêche	
Chbani, Mostafa (M)	Ingénieur	Chef de Service Acoustique	
El Ahdal, M'hamed (M)		Chef de Service Statistiques	
El Duairi, Mehdi (M)	Ingénieur	Biologiste de Pêche	
Idelhaj, Abdelouahed (M)	Ingénieur	Chef de Division	
Idrissi, Halima (Mme)		Chef Service Etude	
Idrissi, M'hamed (M)		Biologiste de Pêche	
Lahnin, Abdelhak (M)	Ingénieur	Chef de Service Technologie	
Lakhnigue, Aziza (Mme)		Biologiste de Pêche	
Lamine, Mounir (M)	MSc	Economiste de Pêches	

Nom	Diplôme	Fonction	Spécialité
Lamrani , Mohamed (M)		Biogiste de Pêche	
Machkour , Mustapha (M)		Capitaine Navire de Recherche	
Marfouk , Abdeslam (M)		Chef de Service Armement	
Marhraoui , Mohamed (M)		Chimiste	
Orbi , Abdellatif (M)	PhD	Chef Service Océanographie	
Rami , Mohamed (M)		Directeur	
Rhouziani , Abdellah (M)		Administrateur	
Sarf , Farida (Mme)		Océanographe	
Sekkat , Ghanou Sanaa (Mme)	MSc	Economiste des Pêches	
Sgalli , Nouzha (Mme)		Chimiste	
Srairi , Ali (M)		Biogiste de Pêche	
Srour , Abdellah (M)	Ingénieur	Biogiste de Pêche	
Tahiri , Laila (Mme)	Ingénieur	Microbiologiste	
Zoubi , Abdelaziz (M)	Ingénieur	Biogiste des Pêches	
Zouiri , M'barek (M)		Economiste des Pêches	

**Office National de l'Eau Potable
Direction du Laboratoire de la Qualité des Eaux (ONEP)**

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Directeur Dr Houssain ABOUZAID, Directeur

Organisme para-publique créé en 1972. Langues de travail: Arabe; Français

Nature des activités Recherche; Laboratoire

MOROCCO

Objectifs/mandat Contrôle de la qualité de l'eau dans le réseau marocain de distribution d'eau potable, assistance technique, recherche appliquée, collaboration à l'effort de législation et de règlementation

Domaines ou disciplines scientifiques/activités Surveillance continue et/ou évaluation; Pollution; Gestion des ressources; Contrôle depuis 1983 les estuaires de l'oued Martil et de l'oued Moulouya dans le cadre du programme MED POL II; Prestations d'assistance technique, en matière d'épuration des eaux usées aux complexes touristiques situés sur la côte nord du Maroc en Méditerranée, localisés entre Tetouan et Sebta

Environnements Lacs; Environnement pélagique; Rivières; Estuaires

Zones géographiques Mer Méditerranée; Antarctique

Programmes de recherche menés en coopération

PNUE/MED POL II: Surveillance continue de la pollution tellurique de la Méditerranée

Personnel Scientifique 35; Technique 33; Autre 41

Moyens d'information

Publications Rapports annuels, MED POL II; Rapports techniques

Bibliothèque 600 volumes/tirés à part; 1400 périodiques **Programmes/projets de coopération** Centre National de Documentation (CND); Instituts universitaires nationaux; L'Association Française des Etudes des Eaux (AFEE) **Bibliothécaire** Mlle Ezzabouri

Ordinateurs PC (4 Compaq, 1 IBM AT, 2 IBM XT, 1 Wang PC); Imprimantes (1 HP Laserjet II, 1 Epson FX, 1 Epson FX80) **Applications** Scientifique; Statistiques; Traitement de texte **Echange de données** PC disquettes 5.25"(HD)/3.5"(HD); dbase III+, Lotus 123, Statgraphics, Systat, WordPerfect, DOS texte fichiers

Installations 1838 m²

Laboratoires climatisés **Equipements de laboratoire** Absorption atomique; Appareil de mesure "auto-analyseur"; Coulter-counter; Chromatographie en phase gazeuse; Appareil de mesure de la radioactivité (a, b); Spectro UV visible; Spectro IR; Polarographe; Analyseur du COT; Matériel courant (pH mètres, conductivimètres, étuvettes, microscopes, flocculateurs, etc.) **Espèces entretenues** Brachydanio rerio; Daphnia magna

Bateaux/embarcations de recherche 2 bateaux pour l'étude des retenues de barrages

Possibilités d'accueil pour 5 scientifiques extérieurs; 5 étudiants **Installations pour conférences/séminaires** pour 20 participants

Personnel scientifique

Nom	Diplôme	Fonction	Spécialité
Abouzaid , Houssain (M)	Doctorat	Directeur	Qualité de l'eau; Pollution des eaux
Foutlane , Ali (M)	Doctorat	Chef de la Division Contrôle de Pollution	Qualité de l'eau; Contrôle de la pollution
Yagoubi , Ahmed (M)	Ingénieur	Chef Bureau Contrôle de Pollution	Qualité de l'eau; Contrôle de pollution

SLOVENIA

Slovene Academy of Sciences and Arts

Centre of Scientific Research

Biological Institute (SASA-CSR)

Znanstvenoraziskovalni center

Slovenske akademije znanosti in umetnosti

Bioloski institut (ZRC SAZU)

5 Novi trg
Ljubljana 61000
SLOVENIA

Telephone (38) 61 156068
Fax (38) 61 331033
E-mail (BITNET) SAZUUBGEF51 and BIO

Executive officer Mr Andrej SELISKAR, Professor

Governmental, national institution founded in 1950. Languages: Slovene; English; German; Norwegian

Nature of activities Research

Purpose and objectives Research

Areas of speciality/activities Heavy metals; Benthos; Algae; Community and population studies; Ecological investigations of benthic marine algae; Pollution effects; Salinity gradients; Heavy metal accumulation

Environments Brackishwater; Coastal zone; Benthic environment

Geographic areas Adriatic Sea; Atlantic Ocean

Research programmes/projects

- Ecology of benthic marine algae

Staff Professional 26; Technical 2; Other 1

Information facilities

Publications Razprave IV. razreda SAZU, journal; Technical reports; Monographs/technical reports

Library 17000/43000 volumes/reprints; 240 periodicals **Co-operative programmes/projects**
Exchange with 1208 libraries **Librarian** Inge Kalan

Computers 1 DEC Microvax 3600; 1 PC (Arche 386); 6 Atari STs; Printers (Atari Laser 804, Star NL10, NEC-P7) **Applications** Database management; Graphics; Library/documentation; Scientific; Statistical; Word processing **Data exchange** 5.25"(HD)/3.5"(HD) PC diskettes; Lotus 1-2-3, ASCII text files

SLOVENIA

Physical facilities 600 m²

Laboratories 50 m² **Species maintained** Fucus virsoides; Cladophora glomerata; Ulva rigida; Enteromorpha spp

Professional/Scientific staff

Name	Degree	Position	Specialization
Munda , Ivka Marija (Ms)	PhD	Scientific Official	Ecology of benthic marine algae; Communities; Pollution effects; Heavy metals effects; Estuaries
Seliskar , Andrej (Mr)	MSc	Professor/Executive Officer	Biology

**University of Ljubljana
Institute of Biology
Marine Biology Station-Piran (MBS)
*Institut za Biologijo Univerze v Ljubljani
Morska Biolska Postaja-Piran (MBP)***

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Piran 66330
SLOVENIA

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73740
Fax (38) 66 74432

Executive officer Dr Andrej COKL, Director

Governmental, national institution founded in 1969. Languages: Slovene; English

Nature of activities Research; Laboratory; Academic/educational; Information/public awareness

Purpose and objectives Founded in 1969 as a field marine station of the Institute of Biology, the University of Ljubljana is devoted to the study of biota and the impact of man's activities on coastal ecosystems

Areas of speciality/activities Water masses and circulation; Modelling; Nutrients; Heavy metals; Sediments; Suspended matter; Biota; Phytoplankton; Zooplankton; Benthos; Algae; Eutrophication; Plankton blooms; Marine biochemistry; Marine microbiology; Productivity; Community and population studies; Monitoring and/or assessment; Pollution; Environmental impact assessment; Basic research of coastal ecosystem dynamics; Monitoring of sources of pollution and concentrations of selected pollutants; Applied research (impact studies)

Environments Coastal zone; Pelagic environment; Benthic environment; Rivers; Estuaries

SLOVENIA

Geographic areas Adriatic Sea

Research programmes/projects

- Plankton ecology including blooms, red tides and microbial plankton
- Benthic ecology (macrophytes, macrofauna, meiofauna)
- Sedimentation and transformation of organic matter
- Subinertial sea level variations and related currents
- Photochemistry of some organic compounds

Co-operative research programmes/projects

- Alpe-Adria programme: Microalgal blooms and formation of gelatinous aggregates
- University of Umea, Sweden: Organic matter regeneration in microbial foodweb
- UNEP/MED POL: Monitoring programme
- Geophysical Institute, Zagreb: Subinertial sea level variations
- International Scientific Co-operation of the European Community, Yugoslavia: Bottom layer oxygen depletion

Training programmes

- Graduate courses in marine biology

Staff Professional 13; Technical 4; Other 3

Information facilities

Publications Annual report (in Slovene); Bioloski vestnik (biannual; in Slovene, English abstracts)

Library 140 periodicals **Co-operative programmes/projects** Various **Librarian**
Mr Vladimir Bernetic

Computers 4 PCs (IBM AT); Printers (Epson GQ5000, LQ1050) **Applications** Database management; Graphics; Modelling; Scientific; Statistical; Word processing **Data exchange** 5.25"(HD)/3.5"(HD) PC diskettes; dBase, Lotus 1-2-3, ASCII text files

Physical facilities 980 m²

Laboratories 340 m² **Laboratory equipment** Diving equipment (2 divers); AAS (Varian); Gas-chromatograph (Varian); C, H, N, S Analyser (Carlo Erba); Spectrophotometers (Specol 20, Philips PU 8620); Spectrofluorometer (Turner 430); Fluorometer (Turner 112); Freeze-dryer (New Brunswick); Microscopes (Olympus BH2 - epifluorescence system, Olympus SZH, Wild M40, WILD MS, Reichert); Freeze centrifuge (MLW); Analytical balances (Sartorius, Mettler) **Aquariums** 5x8 m³

Research vessels/crafts PI-1100, Chris Craft Commander 31-Adapted, 9.5 m, equipped with LORAN C, echosounder, radio, 2 electric winches of 200 kg, accomodations for 4

Facilities for 2 visiting scientists; 5 students **Conference/seminar facilities** for 30 participants
Lodging for 25

Professional/Scientific staff

Name	Degree	Position	Specialization
Avcin, Andrej (Mr)	MSc	Higher Scientific Officer	Marine biology; Benthic ecology; Macrofauna; Polychaeta
Bajt, Oliver (Mr)	MSc	Higher Scientific Officer	Marine chemistry; Photochemistry
Cokl, Andrej (Mr)	PhD	Director	
Faganeli, Jadran (Mr)	PhD	Principal Scientific Officer	Marine chemistry; Organic geochemistry; Chemical oceanography
Lipej, Lovrenc (Mr)	BS	Scientific Officer	Marine biology; Microzooplankton
Malacic, Vlado (Mr)	MSc	Higher Scientific Officer	Marine physics; Subinertial circulation; Modelling
Malej, Alenka (Ms)	PhD	Principal Scientific Officer	Marine biology; Zooplankton; Trophic ecology
Mozetic, Patricija (Ms)	BS	Scientific Officer	Marine biology; Phytoplankton
Planic, Radovan (Mr)	BS	Scientific Officer	Heavy metals; Marine chemistry
Posedel, Nives (Ms)	BSD	Scientific Officer	Marine biochemistry; Sedimentation of organic matter
Stirn, Joze (Mr)	PhD	Principal Scientific Officer	Marine biology; Organic pollution
Turk, Valentina (Ms)	MSc	Higher Scientific Officer	Marine biology; Microbiology
Vriser, Borut (Mr)	PhD	Principal Scientific Officer	Marine biology; Benthic ecology; Meiofauna
Vukovic, Aleksander (Mr)	PhD	Principal Scientific Officer	Marine biology; Benthic ecology; Macrophytes

SPAIN

CETS Chemical Institute of Sarria

CETS Institut Químic de Sarrià (IQS)

c/o Institut Químic de Sarrià, s/n
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SPAIN

Telephone (34) 3 2038900
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Executive officer Dr Miquel GASSIOT-MATAS, Professor

Private non-profit institution founded in 1916. Languages: Catalan; Spanish; English; French

Nature of activities Research; Academic/educational

Purpose and objectives Teaching and research

Areas of speciality/activities Marine chemistry and geochemistry; Analytical methodology; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Biota; Environmental impact assessment; Data acquisition and telemetry; Analytical chemistry; Chemical engineering; Organic chemistry; Chemometrics

Environments Coastal zone; Rivers; Littoral zone

Geographic areas Alboran Sea; Algero-Provencal Basin; Balaearic Sea

Research programmes/projects

- Analytical methodology (HRGC, HPLC, HRGC-MS, Pyrolysis-GC, HS-GC, HPSEC)

Co-operative research programmes/projects

- Ministerio de Obras Públicas y Urbanismo: Halogenated hydrocarbons monitoring
- Autónoma de Barcelona: Organic matter in soils

Training programmes

- One-week training courses in HPLC, GC

Staff Professional 7; Technical 5; Other 35

Information facilities

Publications Afinidad, journal; IQS; Boletin Academico; Internal technical reports

Library 12000 volumes/reprints; 900 periodicals **Co-operative programmes/projects** Various
Librarian Professor Rafael Queralt-Texidó

Computers 1 DEC Vax 730; PCs **Applications** Database management; Graphics; Library/documentation; Mathematical; Statistical; Word processing **Data exchange** 5.25"(DD)/3.5"(DD) PC diskettes; Word 4.0, WordPerfect 5.1 files

SPAIN

Physical facilities 5774 m²

Laboratories 2106 m² **Laboratory equipment** HRGC-MS (HP-5995); HRGC-FID, NPD (HP-5890); HRGC-ECD, NPD (HP-5890); HRGC-FID, NPD (Perkin-Elmer-8700); HPLC-UV (HP-1090)

Facilities for 2 visiting scientists; 4 students **Conference/seminar facilities** for 50 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Barberà-Moral , Eduard (Mr)	Doctorate	Professor Catedrático	Biotechnology
Broto-Puig , Francesc (Mr)	MSc	Profesor Encargado de Curso	Chromatography; Marine chemistry (halogenated hydrocarbons)
Celma-Serra , Pere (Mr)	Doctorate	Profesor Catedrático	
Comellas-Riera , Lluís (Mr)	Doctorate	Profesor Catedrático	Chromatography; Analytical methodology
Gassiot-Matas , Miquel (Mr)	Doctorate	Profesor Catedrático/Executive Officer	Chromatography; Analytical methodology
Obiols-Salvat , Josep (Mr)	Doctorate	Profesor Catedrático	Analytical chemistry
Tomàs-Morer , Xavier (Mr)	Doctorate	Profesor Catedrático	Chemometrics

High Council for Scientific Investigation

Centre for Advanced Studies of Blanes

Chemical Oceanography Department

Consejo Superior de Investigaciones Científicas

Centro d'Estudis Avancats de Blanes (CSIC-CEAB)

UEI Oceanografia Química

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(34) 72 336103

Telex 56372 CEABL E

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E-mail (OMNET) CRUZADO@CEAB.ES

Executive officer Dr Antonio CRUZADO, Head

Parastatal institution founded in 1985. Languages: Catalan; Spanish; English

SPAIN

Nature of activities Research

Purpose and objectives Scientific research in the field of chemical oceanography

Areas of speciality/activities Modelling; Marine chemistry and geochemistry; Analytical methodology; Nutrients; Sediments; Waters; Suspended matter; Biota; Phytoplankton; Algae; Eutrophication; Plankton blooms; Productivity; Community and population studies; Monitoring and/or assessment; Pollution; Marine technology; Data acquisition and telemetry; Research on biogeochemical cycling of nutrients; Research on taxonomy and ecology of phytoplankton; Development of simulation models of the pelagic system

Environments Pelagic environment; Estuaries

Geographic areas Mediterranean Sea; Algero-Provencal Basin; Balearic Sea; Gulf of Lyon; Ligurian Sea; Sicilian Channel; Strait of Gibraltar; Atlantic Ocean

Research programmes/projects

- EROS 2000: Study of European River/Ocean Systems
- ERSEM: European Regional Seas Ecological Modelling
- CICYT: Effects of hydrodynamics on plankton communities
- EUREKA/OPMOD: Operational models of regional seas
- ESPHYNKS: Development of expert systems for taxonomy
- Atmospheric transport of nutrients to the sea

Co-operative research programmes/projects

- Portugal/Croatia/Bulgaria: Bilateral programmes

Training programmes

- Courses in chemical oceanography offered to PhD candidates from the University of Barcelona and the Universidad Tecnica de Catalunya

Staff Professional 8

Information facilities

Publications Monographs; Technical reports

Library 1000 volumes/reprints; 40 periodicals **Co-operative programmes/projects** Various

Computers Various **Applications** Accounting/financial planning; Communications; Database management; Desktop publishing; Education; Graphics; Library/documentation; LAN; Mapping; Modelling; Network access; Process control (laboratory); Scientific; Statistical; Word processing

Data exchange Various

Physical facilities 800 m²

Laboratories 400 m²; climate controlled **Laboratory equipment** Spectrophotometers; Autoanalysers; Microscopes; High volume samplers

Research vessels/crafts Various

SPAIN

Facilities for 3 visiting scientists; 4 students **Conference/seminar facilities** for 170 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Alarcon , Marta (Ms)	MSc	Collaborator	Atmospheric physics; Modelling atmospheric transport
Canellas , Mireia (Ms)	BS	Collaborator	Marine biology; Phytoplankton dynamics
Cruzado , Antonio (Mr)	PhD	Head	Nutrient chemistry; Chemical oceanography; Marine environment
Hernandez , Margarita (Ms)	MSc	Collaborator	Marine microbiology; Microbial ecology
Martinez , Nevs (Ms)	BS	Scientist	Nutrient chemistry; Oceanography; Analytical chemistry
Varela , Ramiro (Mr)	PhD	Scientist	Modelling marine systems; Oceanography; Computer sciences
Velasquez , Joila (Ms)	MSc	Scientist	Phytoplankton taxonomy; Marine biology

High Council for Scientific Investigation

Department of Environmental Chemistry

Consejo Superior de Investigaciones Científicas

Centro de Investigacion Y Desarrollo (CSIC-CID)

18-26 Jordi Girona Salgado
Barcelona 08034
SPAIN

Telephone (34) 3 2040600
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Fax (34) 3 2045904

Executive officer Professor Juan ALBAIGES, Director

Governmental, national institution founded in 1967. Languages: Spanish; English; French

Nature of activities Research

Purpose and objectives Basic and applied research in environmental organic chemistry, including development of analytical methodologies, study of biogeochemical processes and ecotoxicological assessment

SPAIN

Areas of speciality/activities Marine chemistry and geochemistry; Analytical methodology; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Suspended matter; Biota; Toxicology; Monitoring and/or assessment; Pollution; Assistance to government in environmental quality assessment; Services of environmental quality control for organic pollutants

Environments Lakes; Brackishwater; Coastal zone; Pelagic environment; Benthic environment; Rivers; Littoral zone; Lagoons; Estuaries

Geographic areas Mediterranean Sea; Alboran Sea; Balearic Sea; Gulf of Lyon; Atlantic Ocean; Caribbean

Research programmes/projects

- Transport and fate of organic pollutants in coastal environments, with particular emphasis on urban and riverine effluents
- Ecotoxicology of organic pollutants: Development of bioassay directed analysis for the identification of mutagenic pollutants in water; development of biochemical indices of environment stress in biota
- Emission of biogenic gases from coastal areas and their long-range transport

Co-operative research programmes/projects

- UNEP/MED POL: Maintenance of Spanish monitoring network
- EEC/BCR: Reference materials for organic pollutants in soil and biota
- UNEP/FAO/WHO: Pilot projects for assessment of organic pollutants in the Mediterranean
- EEC/DG XII: Biogeochemical processes in NW Mediterranean

Training programmes

- Training workshops in coastal pollution monitoring, in co-operation with IOC
- Course and research work leading to MSc and PhD in environmental chemistry and marine chemistry

Staff Professional 4; Technical 3; Other 2

Information facilities

Publications J Albaiges, editor: International Journal of Environmental Analytical Chemistry, Gordon and Breach; Monographs/technical reports, e.g. J Albaiges: Marine Pollution, Hemisphere Pub. Co., 1989

Library 20000 volumes/reprints; 150 periodicals **Librarian** Ms Rosa Ortadó

Computers 1 HP 9000/835; 30 PCs (386, IBM AT/XT); Printers (HP Laserjet, Epson) **Applications** Accounting/financial planning; Communications; Database management; Desktop publishing; Graphics; Library/documentation; LAN; Mathematical; Network access; Scientific; Statistical; Word processing **Data exchange** 5.25"(HD)/3.5"(HD) PC diskettes; Unlabelled tape; dBase III/IV, Lotus 1-2-3, WordPerfect 5.1, WordStar 2000, ASCII text files

Physical facilities 3000 m²

Laboratories 1000 m²; climate controlled **Laboratory equipment** 8 GC (Carlo Erba & HP) with selective detectors (ECD, FPD, FID, NPD); 3 GC-MS (HP, Finnigan, VG); 1 LC-MS (HP); 4 HPLC (Waters); FT-IR (Perkin Elmer); UV & UV-Fe (Perkin Elmer); C-13 NMR (Varian)

SPAIN

Facilities for 2 visiting scientists; 20 students **Conference/seminar facilities** for 180 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Albaiges , Juan (Mr)	Doctorate	Professor/Director	Environmental chemistry; Fate of organic pollutants in water, biota and sediments
Barcelo , Damia (Mr)	Doctorate	Research Associate	Environmental chemistry; Ecotoxicology; Analysis of pesticides
Bayona , Josep (Mr)	Doctorate	Research Associate	Environmental chemistry; Analytical methodology; Bioassay analysis
Domenech , Pilar (Ms)	BS	Technical Assistant	Analytical methodology; Elemental analysis
Grimalt , Joan (Mr)	Doctorate	Research Associate	Geochemistry; Fate and transport of pollutants in water

**High Council for Scientific Investigation
Institute of Aquaculture of Torre de la Sal (CSIC-IATS)
Consejo Superior de Investigaciones Científicas
Instituto de Acuicultura de Torre de la Sal**

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SPAIN

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Executive officer Dr Pilar ALVAREZ PELLITERO, Director

Governmental, national institution founded in 1978. Languages: Spanish

Nature of activities Research

Purpose and objectives Basic and applied research in aquaculture and in the physiology, growth, reproduction and pathology of marine species (fishes, prawns, molluscs and auxiliary species)

SPAIN

Areas of speciality/activities Marine chemistry and geochemistry; Analytical methodology; Nutrients; Marine biology and ecology; Phytoplankton; Zooplankton; Fish; Molluscs; Crustaceans; Parasitology; Pathology of marine species; Taxonomy and systematics; Aquaculture; Reproduction and sex control in sea bass; Sex determination, hormonal control of growth; Parasitic and infectious diseases in sea bass and sea bream; Epidemiology and control; Effects of diet and ocular ablation in the maturation and spawning of Penaeid shrimps; Ecophysiology and use in aquaculture of autochthonous Artemia salina

Environments Brackishwater; Coastal zone; Lagoons

Geographic areas Mediterranean Sea

Research programmes/projects

- National programmes, Interministerial Commission for Science and Technology (CICYT)
- Ministry of Industry, Centre for the Development of Technology and Industry (CDTI): Co-operation between research institutions and aquaculture enterprises
- Autonomous administration programmes for aquaculture

Co-operative research programmes/projects

- International programmes: Research in co-operation with laboratories and universities in France, UK, Canada, Belgium, Italy, Ireland, Sweden, Germany, Mexico
- CEE/BRIDGE/FAR programmes

Training programmes

- Graduate and postgraduate course-planning in aquaculture for Spanish Universities and Institutions

Staff Professional 8; Technical 2; Other 26

Information facilities

Publications CSIC annual report

Library 872 volumes/reprints; 35 periodicals **Co-operative programmes/projects** CSIC Institutes libraries and various Spanish University-libraries **Librarian** Maria Angeles Paez Ortega

Computers 14 PCs (1 386, 9 ATs, 3 Amstrad, 1 Epson); Various printers **Applications** Accounting/financial planning; Communications; Database management; Desktop publishing; Graphics; Library/documentation; Mathematical; Scientific; Statistical; Word processing

Physical facilities 5200 m²

Laboratories 2500 m² **Laboratory equipment** RIA counters (solid, liquid); 10 microscopes; Respirometers (Gilson, Strathkelvin); Coulter counter; Technicon autoanalyser; Konic chromatograph; HPLC; Calorimetric pump; LKB IEF electrophoresis; High speed centrifuge; Cold chamber; Culture chambers (controlled T_o); Spectrophotometers; pH metres; Freeze driers; Microalgae collection chamber; Image analysis and advanced soft hardware **Aquariums** 195-200 experimental tanks of 60 lt. to 800 metric tons capacity **Species maintained** Dicentrarchus labrax; Sparus aurata; Penaeus kerathurus; P. japonicus; Ostrea edulis; Pecten jacobaeus; P. maximus; Tapes sp.; Brachionus plicatilis; Artemia; Phytoplanktonic microalgae: Tetraselmis; Chaetoceros; Dunaliella; Asteromonas; Phaeodactylum; Rhodomonas; Scenedesmus

Facilities for 4 visiting scientists; 12 students

Professional/Scientific staff

Name	Degree	Position	Specialization
Alvarez Pellitero , Pilar (Ms)	PhD	Scientific Researcher/Director	Fish pathology; Parasitic and infectious diseases in Mediterranean fishes; Epidemiology and control
Amat Domenech , Francisco (Mr)	PhD	Scientific Researcher	Zooplankton ecology; Biology and ecology of auxiliary species in aquaculture, specially Artemia (brine shrimp)
Carrillo Estevez , Manuel (Mr)	PhD	Scientific Researcher	Physiology of reproduction in fishes; Maturation and spawning in sea bass; Environmental factors and hormones
Peña Forner , Juan (Mr)	PhD	Scientific Collaborator	Bivalve molluscs biology and culture; Reproduction and larviculture of bivalve molluscs; Population genetics and distribution
Perez Sanchez , Jaume (Mr)	PhD	Scientific Collaborator	Physiology of growth in marine fishes; Studies in growth hormone for marine fishes; Secretory activity of somatotrop cells
Ramos Jara , Jesus (Mr)	PhD	Scientific Collaborator	Marine fish larviculture; Physiology of metabolism and growth in marine fish larvae
Sanfeliu Lozano , Jose Maria (Mr)	MSc	Scientific Collaborator	Biology and culture of shrimps and prawns; Maturation and spawning quality in penaeids according to eye stalk ablation and diet
Zanuy Doste , Silvia (Ms)	PhD	Scientific Researcher	Physiology of metabolism and growth in fishes; Hormonal regulation of metabolism; Influence of environment and food on offspring

SPAIN

High Council for Scientific Investigation

Institute of Marine Research

Consejo Superior de Investigaciones Científicas

Instituto de Investigaciones Marinas

6 Eduardo Cabello

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SPAIN

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(34) 86 292758

Fax (34) 86 292762

Executive officer Mr Uxio LABARTA

Governmental, national institution founded in 1951. Languages: Spanish; English; French

Nature of activities Research

Purpose and objectives Research in natural marine resources, marine ecology, chemistry and technology of marine products, and in oceanology

Areas of speciality/activities Physical oceanography; Water masses and circulation; Marine chemistry and geochemistry; Analytical methodology; Nutrients; Suspended matter; Marine biology and ecology; Phytoplankton; Fish; Plankton blooms; Molluscs; Marine physiology; Marine biochemistry; Marine microbiology; Parasitology; Pathology of marine species; Taxonomy and systematics; Productivity; Community and population studies; Fisheries; Aquaculture; Food technology; Resources management; Oceanology, biology and fisheries (mostly cod and cephalopods); Biology and nutrition of marine bivalves and fish; Biology and pathology of marine bivalves and fish; Food technology of marine products; Chemistry of marine products; Purification and valorization of wastes from alimentary sources

Environments Coastal zone; Pelagic environment; Benthic environment; Estuaries

Geographic areas Atlantic Ocean

Research programmes/projects

- Dynamics of water masses in the NW Peninsula, Iberia coast: physical-chemical characteristics and influence on primary production
- Population dynamics of cod populations of the North Atlantic
- Biology, ecology and fisheries of cephalopods
- Larvae nutrition of bivalve molluscs and turbot
- Biology and pathology of marine bivalve molluscs and fish
- Technological development of the use of fishery resources to alimentary industry
- Thermic processing in canned fish
- Chemical modifications of fish after industrial processing
- Purification and valorization of wastes from alimentary sources

Co-operative research programmes/projects

- CEE funded projects (oceanography, dynamic of populations of cod, biology and ecology of cephalopods, biology and pathology of bivalve molluscs, etc.), in collaboration with institutions in Ireland, the United Kingdom and France
- Co-operative research projects with industries
- ANTARES project for the study of the Southern Ocean

Training programmes

- Post-doctoral courses, in collaboration with the University of Santiago de Compostela and the University of Vigo

Staff Professional 19; Technical 20; Other 20

Information facilities

Publications Annual report

Library 2500 volumes/reprints; 250 periodicals **Co-operative programmes/projects** Member of a network of special libraries, headed by the Consejo Superior de Investigaciones Científicas (CSIC), Madrid **Librarian** María Angeles García Calvo

Computers 1 DEC Microvax II; PCs; Apple Macintosh computers **Applications** Accounting/financial planning; Database management; Library/documentation; Mathematical; Process control (industrial); Scientific; Statistical; Word processing

Physical facilities 3000 m²

Laboratories 1800 m² **Laboratory equipment** Laboratory for chemical analysis: HPLC, electrophoresis; Experimental plant for can-processing; Laboratory for histological studies; Wet room for biological studies, equipped with optic microscopical equipment; Laboratory for radioactivity studies

Research vessels/crafts Old research vessel, 9 m, for oceanographic studies inside the Vigo Ria estuary; "Lampadena", new research vessel, 15 m

Conference/seminar facilities for 50 participants **Lodging** for 6

Professional/Scientific staff

Name	Degree	Position	Specialization
Aubourg , Santiago (Mr)	PhD	Scientific Collaborator	Food engineering; Biochemistry of marine products
Fernandez , Felix (Mr)	PhD	Scientific Collaborator	Oceanology; Chemical oceanography
Fernandez , María José (Ms)	PhD	Scientific Collaborator	Aquaculture; Biochemistry of bivalve molluscs
Fernandez-Puentes , Carmen (Ms)	PhD	Professor	Marine biology; Biology and pathology of bivalves, molluscs and fish
Figueras , Antonio J (Mr)	PhD	Scientific Collaborator	Marine biology; Biology and pathology of bivalve molluscs and fish

SPAIN

Name	Degree	Position	Specialization
Franco , José (Mr)	PhD	Scientific Researcher	Biological oceanography; Toxins in red tide organisms
Gallardo , Jose Manuel (Mr)	PhD	Professor of Research	Chemistry; Food engineering; Biochemistry of marine products
Gómez-Figueiras , Francisco (Mr)	PhD	Scientific Collaborator	Biological oceanography; Phytoplankton; Primary production
Gonzalez , Pilar (Ms)	PhD	Scientific Collaborator	Environmental technology; Industrial microbiology; Food technology of marine products
Guerra , Angel (Mr)	PhD	Scientific Researcher	Marine biology; Systematics; Biology; Ecology; Fisheries of cephalopods; Fishery biology
Labarta , Uxio (Mr)	MSc	Titulado Superior/Executive Officer	Aquaculture; Biochemistry of bivalve molluscs
Munilla , Roberto (Mr)	PhD	Scientific Collaborator	Aquaculture; Biochemistry of bivalve molluscs
Murado , Miguel Anxel (Mr)	PhD	Scientific Researcher	Environmental technology; Industrial microbiology; Food technology of marine products
Pastoriza , Laura (Ms)	PhD	Scientific Collaborator	Food technology; Transformation and processing of marine products
Pérez-Gándaras , Germán (Mr)	PhD	Scientific Collaborator	Biological oceanography; Dynamics of populations of fish and cephalopods
Pérez-Martín , Ricardo I (Mr)	PhD	Scientific Collaborator	Chemistry; Food engineering; Biochemistry of marine products
Planas , Miguel (Mr)	PhD	Scientific Collaborator	Aquaculture; Biochemistry of bivalve molluscs
Prego , Ricardo (Mr)	PhD	Scientific Collaborator	Oceanography; Marine biochemistry
Vázquez , Antonio M (Mr)	PhD	Scientific Collaborator	Biological oceanography; Dynamics of populations of fish

Institute of Health Carlos III
National Centre of Environmental Health
Instituto de Salud Carlos III
Centro Nacional de Sanidad Ambiental (CNSA)

Ctra. Majadahonda Pozuelo, Km.2
Majadahonda
Madrid
SPAIN

Fax (34) 1 6380613

Executive officer Dr Rafael NAJERA-MORRONDO

Governmental, national institution founded in 1986. Languages: Spanish; English

Nature of activities Research; Laboratory; Policy and planning

Purpose and objectives Research and development programmes

Areas of speciality/activities Marine chemistry and geochemistry; Analytical methodology; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Radioactivity; Sediments; Waters; Toxicology; Pollution; Analytical methodologies; Organic and inorganic contaminants

Environments Lakes; Coastal zone; Rivers; Lagoons

Geographic areas Mediterranean Sea; Atlantic Ocean

Co-operative research programmes/projects

- Organotin compounds in the aquatic environment
- Analytical quality control - Mediterranean Sea
- Commission of the European Communities (ISPRA)

Staff Professional 6; Technical 2; Other 1

Information facilities

Publications Various

Library 262 volumes/reprints; 24 periodicals **Co-operative programmes/projects** Carlos III Institutions libraries; Consejo Superior de Investigaciones Cientifica (CSIC) **Librarian** Paula Garcia-Garcia

Computers 1 HP-VECTRA-CS; 1 IBM PS/2; 1 PC AT (IBM); Printers (HP Laserjet III, NEC Pinwriter, Epson LQ850); 1 Plotter (HP 7574A)

Physical facilities 1600 m²

Laboratories 1200 m² **Laboratory equipment** Mass spectrometer; Gas chromatograph (3); HPLC (1); AAS (3); Ion chromatograph (2) **Species maintained** Freshwater fishes

SPAIN

Conference/seminar facilities for 12 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Bomboi Mingarro, Maria Teresa (Ms)	PhD	Investigator	Organic contaminants; Seawater; Sediments; Air
Esteban Lefler, Margarita (Ms)	MSc	Investigator	Inorganic contaminants; Freshwater; Air
Garcia Sanchez, Jeronimo (Mr)	PhD	Investigator	Inorganic contaminants; Freshwater; Air
Marino Fernandez, Manuel (Mr)	PhD	Investigator	Environmental impacts
Mendez Gonzalez, Javier (Mr)	MSc	Investigator	Marine chemistry; Organics
Najera-Morrondo, Rafael (Mr)	PhD	Executive Officer	
Santamaria Ballesteros, Julia (Ms)	PhD	Investigator	Marine chemistry; Heavy metals

Municipality of Badalona Municipal Laboratory *Ajuntament de Badalona Laboratori Municipal*

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Barcelona
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Fax (34) 93 3840478

Executive officer Dr Lluisa Berenguer FORCADELL, Cap Unitat Laboratori

Governmental, local institution founded in 1913. Languages: Català i Castellà

Nature of activities Laboratory

Purpose and objectives Technical assistance and support to the City Council

Areas of speciality/activities Analytical methodology; Marine microbiology; Recreation/tourism;
Quality control of bathing seawater

Environments Coastal zone

Geographic areas Mediterranean Sea

Staff Professional 1; Technical 1; Other 1

Information facilities

Computers 1 Tandon TM7521; 1 Printer (Fujitsu DL3400) **Applications** Database management; Graphics; Statistical; Word processing **Data exchange** 5.25"(HD) PC diskettes; dBase III, Lotus 1-2-3, WordPerfect, and ASCII text files

Physical facilities 200 m²

Laboratories 200 m² **Laboratory equipment** HPLC Shimadzu; Spectrophotometer Shimadzu UV-160 A

**Spanish Oceanographic Institute
Oceanographic Centre of Baleares
*Instituto Español de Oceanografía
Centro Oceanográfico de Baleares (IEO-COB)***

Muelle de Poniente
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Palma de Mallorca 07080
Baleares
SPAIN

Telephone (34) 71 401561
(34) 71 401877
Telex 69493 IEO B
Fax (34) 71 404945

Executive officer Mr Pere OLIVER, Director

Governmental, national institution founded in 1906. Languages: Spanish; English; French

Nature of activities Research; Consulting

Purpose and objectives Consultant to the Spanish government regarding oceanographic affairs and fishing resources; Interdisciplinary oceanographic research; Representation of Spain in international oceanographic organizations.

Areas of speciality/activities Physical oceanography; Water masses and circulation; Currents and dispersion; Waves, tides, surges and sea level; Marine chemistry and geochemistry; Analytical methodology; Nutrients; Marine geology and geophysics; Topography and morphology; Sedimentology; Coastal and nearshore processes; Paleontology; Marine biology and ecology; Phytoplankton; Zooplankton; Fish; Eutrophication; Productivity; Fisheries; Assistance to government in planning the exploitation of marine resources; Co-ordination of oceanographic research; Research in fish stock assessment, including biological characteristics of exploited fish; Environmental problems and their impact on marine resources

Geographic areas Mediterranean Sea; Alboran Sea; Balearic Sea; Gulf of Lyon

SPAIN

Research programmes/projects

- Fisheries in Cataluña, Valencia and the Balearic Islands
- Growth of hake and sardine
- Study of the pelagic environment in the bays of Mallorca
- Study of currents in western Mediterranean
- Micropaleontology and Atlanto-Mediterranean glacioustatism

Co-operative research programmes/projects

- FAR-DGXIV-CEE: Fisheries in western Mediterranean
- OSNIR-SARP/COI: Study of the security of sardine in northwest Spain
- Study on currents in the western Mediterranean
- UNEP/MED POL monitoring programme

Staff Professional 11; Technical 9; Other 17

Information facilities

Library 11000 volumes/reprints; 106 periodicals

Computers 1 IBM RT; 5 PCs (3 IBM AT, 2 XT); 4 Printers; 1 Plotter **Applications** Communications; Database management; Graphics; Mapping; Scientific; Statistical; Word processing **Data exchange** 5.25"(HD)/3.5"(HD) PC diskettes; dBASE, LOTUS 1-2-3, WordPerfect 5.1, WordStar 5.1, and ASCII text files

Physical facilities 2500 m²

Laboratories 800 m²; climate controlled **Laboratory equipment** Currentmeters; Mareometers; Salinometers; Specialized automatic analytical apparatus (NO₂, NO₃, PO₄, SiF₆, NH₂); Echosounders and echointegrators for biomass evolution; Images analyser for daily growth in fishes

Research vessels/crafts BO "Odon de Buen", 24 m, 62 TRB, 400 HP; BO "Arola" 7 m; BO "Acartia" 6 m; BO "Cornide de Saavedra" 70 m, 1000 TRB (shared with other IEO Centres)

Conference/seminar facilities fully equipped, for 50 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Alvarez , Federico (Mr)	MSc	Programme Co-ordinator	Fisheries Science; Pelagic fisheries (coastal areas), growth
Amengual , Bartolome (Mr)	MSc	Technician	Marine chemistry; Analytical methodology; Nutrients
Bruno , Joan (Mr)	MSc	Biologist	Fisheries science
Carbonell , Ana (Ms)	MSc	Biologist	Fisheries science
Fernandez de Puelles , Maria Luz (Ms)	PhD	Oceanographer	Marine biology; Zooplankton; Marine environmental research
Gaza , Magdalena (Ms)	PhD	Marine Biologist	Fisheries
Iglesias , M Magdalena (Ms)	MSc	Technician	Fisheries

SPAIN

Name	Degree	Position	Specialization
Jansa , Javier (Mr)	MSc	Oceanographer	Biological oceanography; Plankton
Lopez-Jurado , Jose Luis (Mr)	MSc	Physical Oceanographer	Hydrography; Water masses; Circulation
Massuti , Enrique (Mr)	MSc	Marine Biologist	Fisheries
Mateu , Guillermo (Mr)	PhD	Associate Professor	Marine geology; Geophysics; Micropaleontology; Sedimentology; Coastal and nearshore processes
Miquel , Juan (Mr)	MSc	Electronics Engineer	Hydroacoustics (Marine biomass assessment); Data processing
Morales-Nin , Beatriz (Ms)	PhD	Assistant Professor	Fish; Fish age and growth
Morillas , Ana (Ms)	MSc	Marine Biologist	Fisheries
Oliver , Pere (Mr)	MSc	Director	Biology; Dynamics of exploited fish populations
Pomar , Gabriel (Mr)	BS	Technician	Fisheries
Serra , Mariano (Mr)	MSc	Marine Biologist	Fisheries
Vives , Francisco (Mr)	PhD	Professor	Biological oceanography; Marine biology and ecology; Zooplankton

**Spanish Oceanographic Institute
Oceanographic Centre of Malaga**
*Instituto Español de Oceanografía
Centro Oceanográfico de Málaga (IEO-COM)*

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Executive officer Dr Juan A CAMIÑAS, Director

Governmental, national institution founded in 1914. Languages: Spanish; French; English

SPAIN

Nature of activities Research

Purpose and objectives Research in oceanography and fisheries control

Areas of speciality/activities Physical oceanography; Water masses and circulation; Currents and dispersion; Waves, tides, surges and sea level; Modelling; Marine chemistry and geochemistry; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Suspended matter; Biota; Marine geology and geophysics; Topography and morphology; Sedimentology; Coastal and nearshore processes; Marine biology and ecology; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Eutrophication; Plankton blooms; Molluscs; Crustaceans; Marine mammals; Marine biochemistry; Marine microbiology; Parasitology; Pathology of marine species; Toxicology; Community and population studies; Fisheries; Aquaculture; Marine environmental management; Pollution; Marine support services; Remote sensing; Resources management; Assistance to government in planning the development of marine living resources; Control of seawater pollution; Research in marine geology, physical and chemical oceanography

Geographic areas Mediterranean Sea; Alboran Sea; Balaeric Sea; Strait of Gibraltar; Atlantic Ocean; Antarctic

Research programmes/projects

- Fisheries in the ICES area
- Fisheries in the NAFO area
- Fisheries in the CECAF and the ICSEAF areas
- Fisheries in the Mediterranean area
- Fisheries in the Antarctic and the Pacific Ocean
- Oceanography of the Atlantic Ocean and the Mediterranean Sea

Co-operative research programmes/projects

- European Community (MAST, FAR)

Training programmes

- IEO scholarship
- IOC scholarship

Staff Professional 18; Technical 10; Other 9

Information facilities

Publications Boletin del Instituto Español de Oceanografia; Informes Tecnicos; Monografias; Trabajos; Publicaciones Especiales

Library 5000 volumes/reprints; 80 periodicals **Co-operative programmes/projects** Various
Librarian Mr Victor Diaz-Del-Rio; Ms Ana Hernandez

Computers Various **Data exchange** Various

Physical facilities 3000 m²

Laboratories 1000 m²; climate controlled **Laboratory equipment** Seismic reflection systems (Side-scan-sonar; Geopulse; 3.5 kHz; Magnetometer; Sparker; Uniboom); Current meter; Mareographer; Computers; Various fishery equipment

Research vessels/crafts available

Facilities for 40 visiting scientists; 4 students **Conference/seminar facilities** for 40 participants
Lodging for 4

Professional/Scientific staff

Name	Degree	Position	Specialization
Abad , Rogelio (Mr)	BS	Researcher	Biology; Fisheries
Baro , Jorge (Mr)	BS	Oceanographer	Biology; Fisheries
Caminas , Juan A (Mr)	BS	Oceanographer/Director	Fisheries; Small scale fisheries; Mediterranean fisheries; Tuna fisheries; Ecology
Cano , Natalio (Mr)	BS	Oceanographer	Physics; Oceanography; Currents; Dispersion
Cortes , Dolores (Ms)	BS	Researcher	Chemistry; Marine pollution
De La Serna , Jose M (Mr)	BS	Researcher	Biology; Tuna fisheries
Diaz-Del-Rio , Victor (Mr)	PhD	Oceanographer	Geophysics; Geophysical prospecting; Sedimentology
Fernandez De Castillejo , Federico (Mr)	PhD	Oceanographer	Physics; Oceanography; Water masses; Sea level
Garcia , Alberto (Mr)	BS	Researcher	Biology; Ecology
Gil , Julio (Mr)	BS	Researcher	Physics; Water masses
Gil De Sola , Luis (Mr)	BS	Oceanographer	Biology; Fisheries
Giraldez , Ana (Ms)	BS	Researcher	Biology; Fisheries
Millan , Milagros (Ms)	BS	Researcher	Biology; Fisheries
Perez De Rubin , Juan (Mr)	BS	Oceanographer	Oceanography; Fisheries; Ichthyoplankton
Ramos , Ana (Ms)	BS	Oceanographer	Biology; Fisheries
Rey , Jorge (Mr)	PhD	Oceanographer	Geology; Geophysics; Geophysical prospecting; Morphodynamics
Sobrino , Ignacio (Mr)	BS	Oceanographer	Biology; Fisheries
Somoza , Luis (Mr)	PhD	Oceanographer	Geology; Geophysics; Geophysical prospecting; Tectonics

SPAIN

**Spanish Oceanographic Institute
Oceanographic Centre of Murcia
*Instituto Español de Oceanografía
Centro Oceanográfico de Murcia (IEOM)***

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Fax (34) 68 184441

Executive officer Sr Luis AREVALO DIAZ DEL RIO, Director

Governmental, national institution founded in 1967. Languages: Spanish; English

Nature of activities Research; Laboratory; Academic/educational

Purpose and objectives Research activities aiming at enhancing scientific and technical knowledge in the areas of fishing, aquaculture, marine environment and environmental protection

Areas of speciality/activities Physical oceanography; Instruments and methods; Water masses and circulation; Marine chemistry and geochemistry; Analytical methodology; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Biota; Marine biology and ecology; Fish; Algae; Eutrophication; Plankton blooms; Molluscs; Marine mammals; Toxicology; Community and population studies; Fisheries; Aquaculture; Marine environmental management; Monitoring and/or assessment; Coastal zone management; Pollution; Nature conservation and/or restoration; Environmental impact assessment; Artificial reefs; Consultant to the government (General Secretary of Fishing, Ministry of Agriculture, Fishing and Food) on: Evaluation of fishing resources in the Mediterranean; State of the marine environment and adoption of protection measures; Aquaculture; Representing the government in local, national and international meetings

Environments Coastal zone; Pelagic environment; Benthic environment; Littoral zone; Lagoons

Geographic areas Mediterranean Sea; Spanish Mediterranean coast

Research programmes/projects

- Fishing

- Study of the fishing resources in the areas of Murcia, Valencia
- Study of the demersal resources of the Mediterranean in the area of Almeria, Valencia
- Study of the pelagic resources of the Mediterranean: Balearic Islands, Catalina, Valencia
- Study for the evaluation and management of fisheries in western Mediterranean

- Aquaculture

- Study of the oyster, Ostrea edulis in the area of Murcia
- Reproduction and rearing development of the greater amberjack, Seriola dumerili in captivity
- Determination of the nutritive requirements in dorado, Sparus aurata

SPAIN

Influence of the dietic quality of the reproductors in egg-laying and larvae cultivation of the dorada

- Marine Environment & Environmental Protection

Levels and tendencies of heavy metals and organochlorates in *Mytilus edulis galloprovincialis*,

Mullus barbatus and *Aristeus antennatus* in the Spanish Mediterranean Sea

Environmental factors and mucilagenous aggregates in coastal waters of the Spanish Mediterranean Sea

Application of normalization techniques in the studies of heavy metals in sediments

Characterization of the Mediterranean coastal sediments for a campaign to determine the base levels of heavy metals and organochlorates, using the Loring methodology

Final preparation of analytical techniques for the determination of organostanic compounds

Study of the biological effects of contaminants on organisms

Creation of a database on pollution in the Spanish Mediterranean

Co-operative research programmes/projects

- Institute of Marine Sciences of Cadiz (CSIC)/Institute "Torre de la Sal" of Castellon (CSIC)/Laboratory of Taliarte (Las Palmas): Influence of diverse factors in the maturing of the gonads and post-larval rearing of peneids
- Research in diverse techniques of extirpation of the ocular stem in the maturing egg-laying of peneids
- University of Murcia, Veterinary School, Department of Anatomy: Types of fibre and post-larval growth of the lateral musculature of the sea-bass (*Dicentrarchus labrax* L.) and of the dorado (*Sparus aurata*)

Staff Professional 10; Technical 8; Other 22

Information facilities

Publications Instituto Español de Oceanografía, boletin; Informes Técnicos; Monografías; Publicaciones especiales

Library 700 volumes/reprints; 115 periodicals **Co-operative programmes/projects** University of Murcia library; all other libraries via the Central Library, Madrid

Computers IBM 6152 computer; PC (4 Olivetti M-250); Printers (4 Olivetti DM 309L, 1 IBM 5202, 1 IBM Proprinter XL24) **Applications** Database management; Graphics; Library/documentation; Mathematical; Statistical; Word processing **Data exchange** 5.25"(HD)/3.5"(HD) PC diskettes; dBase, Lotus 123, WordPerfect 5.1, WordStar 3.0, Statgraphics, ASCII text files

Physical facilities

2400 m²

Laboratories 500 m²; climate controlled **Laboratory equipment** Atomic absorption electrophotometer 2300 (Perkin Elmer); Atomic absorption electrophotometer 603 (Perkin Elmer) equipped with flame ionization and graphite camera model 76-B (Perkin Elmer); Spectrophotometer UL-VIS model V-2000 (Hitachi); Spectrofluorometer MPF-4 (Perkin Elmer); Gas chromatograph 8700 (Perkin Elmer) equipped with capillary columns, electronic capture detector, flame ionization detector and automatic sampling; 7 licenced divers; Horiba echosounder; Niskin bottles with reversible thermometers; Zooplankton and phytoplankton nets **Aquariums** 2x7 m³; 2x50 m³; 3x1 m³ **Species maintained** *Sparus aurata*; *Dicentrarchus labrax*. L; *Seriola du Merilii*. Risso; *Penaeus japonicus*. Bate; *Penaeus kerathurus*. Forskal; *Lithognathus mormyrus*. L; *Diplodus sargus*; *Caretta caretta*; *Crangon crangon*; *Cardiun edule*; *Palaemon serratus*; *Mugil* sp.

SPAIN

Research vessels/crafts "Sagitta" (1977), motorboat, 7 m, equipped with echosounder and winch, 2 crew; "La Torre" (1970), coastal fishing boat, 7.24 m, 4.47 ton, 2 crew

Facilities for 2 visiting scientists; 2 students **Conference/seminar facilities** for 50 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Abellan Martinez , Emilia (Ms)	MSc	R & D Expert	Aquaculture; Fish and crustacean nutrition and reproduction
Arevalo Diaz del Rio , Luis (Mr)	MSc	Director	Physical oceanography; Exchange of water masses; Coastal circulation
Benedicto Albaladejo , Jose (Mr)	MSc	R & D Expert	Marine pollution; Modification of ecosystems; Monitoring strategies; Data management; Environmental impact
Cano Perez , Juana (Ms)	MSc	R & D Expert	Aquaculture; Mollusc cultivation (<i>Ostrea edulis</i>)
Franco Hernandez , Angeles (Ms)	MSc	R & D Expert	Marine pollution; Halogenated hydrocarbons; Petroleum dispersal; Toxicology
Garcia Alcaraz , Alicia (Ms)	MSc	R & D Expert	Aquaculture; Fish and crustacean nutrition and reproduction
Garcia Gomez , Antonio (Mr)	MSc	R & D Expert	Aquaculture; Fish cultivation
Mas Hernandez , Julio (Mr)	MSc	R & D Expert	Evaluation and management of fishing resources; Mediterranean fishing; Marine ecology; Coastal management
Ortega Ros , Aurelio (Mr)	MSc	R & D Expert	Aquaculture; Nutrition and reproduction
Rodriguez Puente , Carmen (Ms)	MSc	R & D Expert	Marine pollution; Heavy metals in organisms and sediments; Control of analytical quality

**Spanish Oceanographic Institute
Oceanographic Centre of Murcia
*Instituto Español de Oceanografía
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Carretera de la Azohia S/n
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(34) 68 153339
Fax (34) 68 153934

Executive officer Sr Luis AREVALO DIAZ DEL RIO, Director

Languages: Spanish; English

Purpose and objectives Department of the Spanish Oceanographic Institute, engaged solely in aquaculture research

Physical facilities 3401 m²

Laboratories 130 m² **Aquariums** 20x1 m³; 32x2 m³; 3x4 m³; 7x5 m³; 8x7 m³; 4x10 m³; 18x14 m³; 7x25 m³; 7x45 m³

Facilities for 2 visiting scientists; 2 students **Conference/seminar facilities** for 20 participants
Lodging for 2

**University "Jaume I" of Castellon
Environmental and Natural Resources Laboratory (ENRL)
*Universidad "Jaume I" de Castellon
Laboratorio de Medio Ambiente y Recursos Naturales (LMARN)***

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Executive officer Dr Felix F HERNANDEZ, Professor

Governmental, national institution founded in 1982. Languages: Spanish; English

Nature of activities Research; Laboratory; Academic/educational

SPAIN

Purpose and objectives University level education; Environmental research with emphasis on analytical and hydrogeological aspects

Areas of speciality/activities Marine chemistry and geochemistry; Analytical methodology; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Toxicology; Pollution; Environmental impact assessment

Environments Coastal zone; Pelagic environment; Benthic environment; Rivers

Geographic areas Mediterranean Sea; Levantine Sea

Research programmes/projects

- Monitoring of heavy metals in marine organisms
- Monitoring of pesticides in marine organisms: study of toxicity
- Analysis of heavy metals and their compounds in natural and waste waters
- Water resources management: artificial recharge
- Hydrochemistry of seawater intrusion

Co-operative research programmes/projects

- Generalitat Valenciana: Monitoring of pesticide residues in groundwater and vegetable samples
- Instituto Tecnológico y Geominero de España: Studies on degradation and persistence of pesticides in unsaturated zone and groundwater

Training programmes

- Three-month postgraduate course on groundwater pollution, offered to BA and MSc students, April-June

Staff Professional 11

Information facilities

Library 25400 volumes/reprints; 300 periodicals **Librarian** Mr Vicent Falomir

Computers 2 PC ATs; 2 Apple Macintosh computers; Printers (1 Epson LQ850, 1 HP Thinkjet, 1 Apple Imagewriter) **Applications** Database management; Desktop publishing; Graphics; Scientific; Statistical; Word processing **Data exchange** 5.25"(HD)/3.5"(HD) PC diskettes; 3.5"(HD) Apple diskettes; dBase, Lotus 1-2-3, WordPerfect 5.1, and ASCII text file

Physical facilities 360 m²

Laboratories 220 m²; climate controlled **Laboratory equipment** High resolution gas chromatograph; UU-VIS and diode array detectors; Gas chromatography, packed and capillary, ECD and NPD detectors; Atomic absorption spectrophotometry, flame and heater graphite atomizer; Ionic chromatography, conductivity detector

Facilities for 2 visiting scientists; 2 students **Conference/seminar facilities** for 50 participants, 1 assembly hall for 400 people

SPAIN

Professional/Scientific staff

Name	Degree	Position	Specialization
Alberto Valles , Juan M (Mr)	MSc		Geodynamics; Hydrogeology
Arevalo Diaz del Rio , Luis (Mr)	MSc	Director	Physical oceanography; Exchange of water masses; Coastal circulation
Beltran , Joaquin (Mr)	MSc	Head, Laboratory of Water Analysis	Analytical chemistry; Pesticide analysis by GC
De Rosa , Tomas (Mr)	BA		Analytical chemistry; Analysis of waters
Escrig , Inmaculada (Ms)	MSc	Head, Heavy Metal Analysis	
Esteller , Maria V (Ms)	MSc	Head, Hydric Resources	Geodynamic hydrogeology; Water resources management
Gimenez , Elena (Ms)	MSc	Head, Groundwater Pollution	Geodynamic hydrology; Groundwater pollution
Hernandez , Felix (Mr)	PhD	Director/Head, Environmental Analysis	Analytical chemistry
Morell , Ignacio (Mr)	PhD	Co-Director/Head, Hydrogeology	Geodynamics; Hydrogeology
Sancho , Juan V (Mr)	MSc	Head, Residue Analysis	Analytical chemistry; Pesticide analysis by HPLC
Serrano , Roque (Mr)	PhD	Head, Marine Pollution	Biochemistry; Pesticides in marine organisms
Valls , Consol (Ms)	BA	Head, Ionic Chromatography	Analytical chemistry; Analysis of waters

University of Malaga
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Departamento de Microbiología

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Executive officer Dr Juan Jose BORREGO, Professor of Microbiology

Governmental, national institution founded in 1972. Languages: Spanish; English

SPAIN

Nature of activities Research; Academic/educational

Purpose and objectives Educational research and programmes

Areas of speciality/activities Fish; Molluscs; Monitoring and/or assessment; Pollution; Environmental impact assessment; Development policy/planning; Resources management; Research projects; National Bachelor-Degree programme

Environments Brackishwater; Coastal zone; Rivers; Littoral zone; Estuaries

Geographic areas Mediterranean Sea

Research programmes/projects

- Methanogenesis
- Pathology in shellfish and fish
- Water microbiology
- Pollution of the waters
- Epidemiological studies

Staff Professional 10; Technical 3; Other 1

Information facilities

Publications Various

Library 7000 volumes/reprints; 400 periodicals **Co-operative programmes/projects** Various

Librarian Ms Ana García Ferrer

Computers Various **Applications** Education; Graphics; Library/documentation; Mathematical; Scientific; Statistical; Word processing

Physical facilities 20000 m²

Laboratories 12250 m²; climate controlled **Laboratory equipment** Incubators; Electrophoresis sets; Centrifuges; Optical and electronical microscopes; Congelators; Refrigerators **Aquariums** 8x250 m³; 2x600 m³ **Species maintained** Sparus aurata

Facilities for 3 visiting scientists; 50 students **Conference/seminar facilities** for 30 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Balebona Accino, Maria del Carmen (Ms)	MSc	Investigator	Fish pathology; Investigation on bacteriological fish diseases
Borrego Garcia, Juan Jose (Mr)	Doctorate	Professor/Executive Officer	Water microbiology; Fish and shellfish pathology; Investigation on aquatic microbiology and fish pathology
Castro Lopez, Maria Dolores (Ms)	MSc	Investigator	Shellfish pathology; Investigation on shellfish pathology

SPAIN

Name	Degree	Position	Specialization
Cornax Castillo , Roberto Antonio (Mr)	MSc	Investigator	Aquatic microbiology; Investigation on aquatic microbiology
De Vicente Moreno , Antonio (Mr)	Doctorate	Professor of Microbiology	Aquatic microbiology; Investigation on aquatic microbiology
Martinez Manzanares , Eduardo (Mr)	Doctorate	Professor	Water microbiology; Investigation on aquatic microbiology; Shellfish pathology
Moriñigo Gutierrez , Miguel Angel (Mr)	Doctorate	Professor	Water microbiology; Investigation on aquatic microbiology; Fish pathology
Muñoz de Medio , Maria Ascension (Ms)	MSc	Investigator	Aquatic microbiology; Investigation on aquatic microbiology; Methanogenesis
Romero Raya , Pedro (Mr)	Doctorate	Professor	Aquatic microbiology; Investigation on aquatic microbiology
Sanchez Garcia , Jose Manuel (Mr)	MSc	Investigator	Aquatic microbiology; Investigation on methanogenesis

SYRIA

Atomic Energy Commission of Syria (AECS)

P.O. Box 6091
Damascus
SYRIA

Telephone (963) 11 668784
Telex 411420 ATENCO
Cable TAKA

Executive officer Dr Ibrahim OTHMAN, Head, Protection and Safety Department

Governmental, national institution founded in 1975. Languages: Arabic; English

Nature of activities Research

Purpose and objectives Peaceful application of nuclear power; Environmental studies; Drafting of policies for the protection of man and the environment

Areas of speciality/activities Marine chemistry and geochemistry; Analytical methodology; Nutrients; Heavy metals; Organics; Radioactivity; Sediments; Waters; Suspended matter; Biota; Marine environmental management; Monitoring and/or assessment; Pollution; Development policy/planning; Marine archaeology; Research programmes in environmental studies, biological studies and agricultural development

Environments Coastal zone

Geographic areas Mediterranean Sea

Research programmes/projects

- Monitoring stations for the measurement of radiation levels exposure rate, radionuclides levels in food chain, and heavy elements in biological samples
- Study of pollution in the eastern Mediterranean Sea

Co-operative research programmes/projects

- IAEA: Rn measurement in houses, radiation in air

Training programmes

- Training courses for technicians in protection and safety

Staff Professional 10; Technical 25; Other 5

Information facilities

Publications "Aalam Al Zarra" (The World of the Atom), Journal; Various technical reports

Library 5400 volumes; 2900 reprints; 4530 reports; 190 periodicals **Co-operative programmes/projects** Various **Librarian** Mrs Atieh

Computers PCs **Applications** Graphics; Library/documentation; Network access; Statistical; Word processing

Physical facilities 500 m²

Laboratories 350 m²; climate controlled **Laboratory equipment** Borrowed from the Marine Research Centre in Lattakia

Conference/seminar facilities available

Professional/Scientific staff

Name	Degree	Position	Specialization
Ali, Abdulkahar (Mr)	PhD	Researcher	Applied chemistry; Chemical physics
Bachli, Ali Rida (Mr)	BS	Technical staff member	Biochemistry; Monitoring of radionuclides in the marine environment
Mamish, Samer (Mr)	BS	Technical staff member	Biochemistry; Monitoring of radionuclides in the marine environment
Mourad, Soubeih M (Mr)	PhD	Head, Chemistry Department	Organic chemistry; Organic synthesis; Analytical chemistry; Spectroscopy; Pollutants of petroleum origin
Othman, Ibrahim (Mr)	PhD	Senior Researcher/Department Head/Executive Officer	Physics; Radiation protection; Environmental protection; Nuclear safety
Yassine, Taufik (Mr)	PhD	Researcher	Radiochemistry; Radioisotopes; Analytical chemistry; Environmental protection

Coastal Centre for Pollution Control General Establishment for Irrigation in Coastal Areas (WCPC)

Latakia Entrance/Bus Station/Spero
P.O. Box 514
Latakia
SYRIA

Telephone (963) 41 27869
Telex 451148 NAWRAS

Executive officer Dr Ibrahim MAYASY

Governmental, national institution founded in 1982. Languages: Arabic; English

SYRIA

Nature of activities Research; Technical training; Laboratory

Purpose and objectives Pollution control of the coastal zone and of all water resources (rivers, lakes, dams, wells, etc.)

Areas of speciality/activities Analytical methodology; Waters; Monitoring and/or assessment; Pollution; Nature conservation and/or restoration; Environmental education; Biological control of marine water pollutants (UNEP programme); Quality control of all water resources

Environments Lakes; Coastal zone; Rivers; Littoral zone; Lagoons

Geographic areas Mediterranean Sea

Research programmes/projects

- Studies on marine sewage pollutants and their impact on the marine environment
- Studies on ground water quality in the coastal zone area

Co-operative research programmes/projects

- "Blue Coast" co-operative programme

Training programmes

- Student-training on chemical and biological analysis

Staff Professional 7; Technical 9; Other 5

Information facilities

Publications Annual report; Scientific reports

Physical facilities 200 m²

Laboratories 40 m² **Laboratory equipment** Incubator; Spectrophotometer; Conductivity meter; pH meter; Autoclave; Microscope; O₂-content meter

Research vessels/crafts Boat for sampling

Facilities for 2 visiting scientists; 25 students **Conference/seminar facilities** available

Professional/Scientific staff

Name	Degree	Position	Specialization
Al-Jordi, Osama (Mr)	BS	Chief, Laboratory	Engineering; Chemical engineering
Duagi, Bourhan (Mr)	BS	Chief, Guidance Department	Civil engineering; Chemical engineering
Fadel, Mahmoud Ali (Mr)	PhD	Chief, Monitoring and Pollution Prevention	Engineering
Hammoud, Mona (Ms)	BS	Bacterial Analyst	Natural sciences
Hamoli, Nauras (Mr)	BS	Chemical Analyst	Engineering; Chemical engineering

Name	Degree	Position	Specialization
Janem , Hyam (Mr)	BA	Translator	
Joud , Fahd (Mr)	BS	Chemical Analyst	Engineering; Chemical engineering
Mayasy , Ibrahim (Mr)	Doctorate	Executive Officer	
Slaiman , Fadwa (Ms)	BS	Bacterial Analyst	Bacterial analysis

General Organization of Remote Sensing (GORS)

Beirut St
 Saboura
 P.O. Box 12586
 Damascus
 SYRIA

Telephone (963) 11 218765
 (963) 11 218764

Telex 411590 SY

Executive officer Dr Hussein IBRAHIM, Director General

Governmental, national institution founded in 1986. Languages: Arabic

Nature of activities Research; Technical training; Laboratory; Information/public awareness

Purpose and objectives Applications of remote sensing to geology, hydrology, hydrogeology, agriculture, urban planning and environment

Areas of speciality/activities Monitoring and/or assessment; Pollution; Remote sensing; Resources management; Mineral resources

Environments Lakes; Coastal zone; Rivers

Geographic areas Mediterranean Sea

Research programmes/projects

- Research programmes and projects related to remote sensing applications

Co-operative research programmes/projects

- BGR, Germany
- GDTA, France
- ISRO, India
- UNDP, USA

SYRIA

Training programmes

- Three training courses and two regional seminars on remote sensing annually

Staff Professional 44; Technical 12; Other 50

Information facilities

Publications Journal of Remote Sensing

Library 200 volumes/reprints; 50 periodicals **Librarian** Miss Najat Mardini

Computers Various (IBM, Bull, and others) **Applications** Accounting/financial planning; CAD/CAM/CAE; Database management; Education; Engineering; Geographic Information Systems (GIS); Library/documentation; Mapping; Modelling; Project management; Scientific

Physical facilities 1170 m²

Laboratories 250 m²; climate controlled **Laboratory equipment** Photo laboratory

Research vessels/crafts available

Facilities for 6 visiting scientists; 30 students **Conference/seminar facilities** for 36 participants

Lodging for 36

Professional/Scientific staff

Name	Degree	Position	Specialization
Dalati , Moutaz (Mr)	BS	Director of Scientific and International Affairs	Geology; Remote sensing
Ibrahim , Hussein (Mr)	Doctorate	Director General	
Kawas , Issam (Mr)	BS	Vice-Director of Applications	Hydrogeology; Remote sensing
Koudmani , Marwan (Mr)	BS	Director, General Director's Office	Hydrogeology; Remote sensing
Loulou , Abdul Rahim (Mr)	BS	Adviser to the General Director	Soil science; Remote sensing
Nasri , Saleh (Mr)	MSc	Vice-Director of Training	Geomorphology; Remote sensing
Rukieh , Mohammed (Mr)	Doctorate	Director of Field Studies	Geology; Mineralogy
Salaymeh , Hashem (Mr)	BS	Vice-Director of Applications	Soil science; Remote sensing

Higher Institute of Applied Sciences and Technology Environmental Laboratory (HIAST-EL)

P.O. Box 7028
Damascus
SYRIA

Telephone (963) 11 770547
(963) 11 772603
Telex 411374 SY
Fax (963) 11 223771

Executive officer Professor Mohamed MRAYATI, Director

Governmental, national institution founded in 1980. Languages: French; English; Arabic

Nature of activities Research; Laboratory; Academic/educational

Purpose and objectives Environmental research in the marine environment

Areas of speciality/activities Currents and dispersion; Analytical methodology; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Phytoplankton; Algae; Marine microbiology; Aquaculture; Monitoring and/or assessment; Pollution; Environmental impact assessment; Marine archaeology; Trace metals concentration in Biota; P.A.H. bioaccumulation; Algae distribution; Plankton production

Environments Coastal zone; Pelagic environment; Benthic environment

Geographic areas Mediterranean Sea

Research programmes/projects

- Taxonomy
- Pelagic community
- Pollution

Co-operative research programmes/projects

- MED POL programmes
- Chromium pollution

Staff Professional 3; Technical 7

Information facilities

Publications Technical reports

Library 50 periodicals **Co-operative programmes/projects** National, regional and international co-operation **Librarian** Mrs Nahas

Computers DEC VAX; Apple Macintosh computer; IBM PCs **Applications** Engineering; Graphics; Library/documentation; Mapping; Modelling; Word processing **Data exchange** Remote access via scientific network

SYRIA

Physical facilities 300 m²

Laboratories 220 m²; climate controlled **Laboratory equipment** Tanks; Microscopes; Inflatable boat; GC; AA; General laboratory instruments

Facilities for 3 visiting scientists **Conference/seminar facilities** for 50 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Abosamra , Fouad (Mr)	PhD	Head	Water analysis; Water; Biota analysis; Management
Baba , Samia (Ms)	BS	Research Assistant	Chemical analysis
Hajibrahim , Houda (Ms)	PhD	Head of Group	Organic chemistry; Separation; Extraction
Mrayati , Mohamed (Mr)	PhD	Professor/Director	
Taljo , Gassan (Mr)	MSc	Research Assistant	Marine biology; Taxonomy; Aquaculture

Marine Research Institute (MRI)

Tishreen University
Latakia
SYRIA

Telephone (963) 41 25658
Telex TIUNIV 451084 SY

Executive officer Dr Abdullatif K YOUSSEF, Director

Governmental, national institution founded in 1981. Languages: Arabic; English; French

Nature of activities Research; Academic/educational

Purpose and objectives Research and education leading to MSc and PhD degrees; International co-operation

Areas of speciality/activities Marine chemistry and geochemistry; Analytical methodology; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Suspended matter; Biota; Marine biology and ecology; Phytoplankton; Zooplankton; Benthos; Plankton blooms; Marine meteorology and climatology; Pollution; Environmental impact assessment; Seawater pollution monitoring; Marine resources assessment

Geographic areas Mediterranean Sea

Research programmes/projects

- Biology: Benthos, zooplankton and phytoplankton in the coastal area of Syria
- Chemistry: Chemistry of sediments, seawater and nutrients; Heavy metals in biota

Co-operative research programmes/projects

- UNEP/MED POL: Monitoring of heavy metals in biota
- FAO/UNEP/MED POL: The role of plankton in the transport of selected heavy metals
- FAO/UNEP/MED POL: Effects of pollution on the planktonic ecosystem

Staff Professional 9; Technical 3; Other 5

Information facilities

Library Yes **Co-operative programmes/projects** Tishreen University Library

Computers 1 PC **Data exchange** ASCII text file

Physical facilities 2500 m²

Laboratories 500 m²

Research vessels/crafts 2 boats, 18 ft

Facilities for 8 visiting scientists; 20 students **Conference/seminar facilities** air-conditioned with AV facilities, for 78 participants **Lodging** for 24

Professional/Scientific staff

Name	Degree	Position	Specialization
Abazly , Hisham (Mr)	PhD	Researcher	Chemistry; Radiochemistry
Backer , Mouhamed (Mr)	PhD	Researcher	Biology; Zooplankton
Hamoud , Nadeem (Mr)	PhD	Researcher	Biology; Phytoplankton
Hanoun , Kamal (Mr)	PhD		Biology; Zooplankton
Nour Eddin , Seif (Mr)	PhD	Researcher	Chemistry; Marine chemistry
Saker , Faez (Mr)	PhD	Researcher	Biology; Benthos
Youssef , Abdullatif K (Mr)	PhD	Director	Organic chemistry; Hydrocarbons; Halogenated, polycyclic aromatic hydrocarbons

TUNISIA

**Institut National Scientifique et Technique d'Océanographie et de Pêche
(INSTOP)**

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Tunisie

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TURKEY

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Izmir 35440

Urla Iskele

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Cable E U Su Urunleri Yuksekokulu Urla-Iskele

Executive officer Dr Atilla G ALPBAZ, Professor

Governmental, national institution founded in 1982. Languages: Turkish

Nature of activities Research; Laboratory; Academic/educational

Purpose and objectives Research, academic training, fisheries, aquaculture, pollution

Areas of speciality/activities Nutrients; Heavy metals; Sediments; Waters; Biota; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Eutrophication; Marine microbiology; Parasitology; Pathology of marine species; Toxicology; Community and population studies; Fisheries; Aquaculture; Pollution; Assistance to the government in planning the development of marine resources; Quality control for fish processing; Provision of laboratory facilities for testing of the sea

Environments Lakes; Coastal zone; Lagoons

Geographic areas Mediterranean Sea; Aegean Sea

Research programmes/projects

- Fisheries projects
 - Coastal seine nets
 - Design of set nets
 - Selection capacities of different trawls
- Aquaculture projects
 - O. edulis culture
 - D. labrax culture
 - S. aurata culture
 - P. kerathurus culture
 - P. japonicus culture
 - Aquaculture in ponds

Training programmes

- Course work and research leading to MSc, PhD in
 - Oceanography
 - Fisheries
 - Aquaculture
 - Water pollution

Staff Professional 29; Technical 11; Other 24

TURKEY

Information facilities

Publications Journal (three issues annually)

Library 5000 volumes/reprints; 2 periodicals **Librarian** Mrs Aysel Gungor

Physical facilities 1500 m²

Laboratories 500 m² **Laboratory equipment** A.A.S.; Spectrophotometer; Salinometer; pH meter; Oxygen meter; Autoclave pure water machine; Turbitimeter; Grabs; Orange pills; Mansen glass; Plankton nets; Diver equipment: 3-piece tanks (12-15 l); 3 regulators; 3 wet suits; 3 fins; 1 compressor; 1 Zodiac; 25 HP Evinrude outboard and diver transfer unit (1 person); 3 licenced divers

Aquariums 52x20 m³; 12.000 decare lagoon **Species maintained** Tapes decussatus; Mytilus galloprovincialis; Sparus aurata; Dicentrarchus labrax; Ostrea edulis; Trachurus trachurus; Scomber scomber; Mullus barbatus; Penaeus kerathurus; Panaeus japonicus; Sardina pilchardus; Patella vulgata; Monodonta turbinata; Diplodus annularis; Mugil cephalus; Chlorella; Tetraselmis; Gracilaria; Artemia salina; Brachionus

Research vessels/crafts RV "Hippocampus" (1970), 15.5 m, equipped with echosounder, radar riser, trawling winch and radio, 3 crew, accommodations for 3 scientists; 3 small research boats, 6.5 m, 6.5 m, 9.5 m

Facilities for 2 visiting scientists; 2 students **Conference/seminar facilities** for 150 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Alpbaz , Atilla (Mr)	PhD	Professor/Executive Officer	Aquaculture
Cagirgan , Hasmet (Mr)	MSc	Assistant	Fish diseases
Cirik , Semra (Ms)	PhD	Associate Professor	Plankton
Diler , Ibrahim (Mr)	MSc	Assistant	Aquaculture
Elbek , Ahmet (Mr)	PhD	Assistant Professor	Fisheries economics
Firat , Kursat (Mr)	MSc	Assistant	Aquaculture
Gokpinar , Sevket (Mr)	PhD	Assistant Professor	Plankton
Guner , Yusuf (Mr)	MSc	Assistant	Aquaculture
Gurbet , Rasit (Mr)	MSc	Assistant	Fisheries
Hindioglu , Aynur (Ms)	MSc	Assistant	Fish feeding
Hossucu , Belgin (Ms)	MSc	Assistant	Fish biology
Kancoban , Cezmi (Mr)	BS	Specialist	Fisheries
Kara , Ali (Mr)	MSc	Assistant	Fisheries
Kara , Faruk (Mr)	BS	Scientist	Oceanography; Fisheries
Kinacigil , Tuncay (Mr)	PhD	Assistant Professor	Fish population dynamics
Korkut , Ali Yildirim (Mr)	MSc	Assistant	Aquaculture
Lok , Altan (Mr)	MSc	Assistant	Fisheries
Metin , Cengiz (Mr)	MSc	Assistant	Fisheries

TURKEY

Name	Degree	Position	Specialization
Onen, Mesut (Mr)	PhD	Assistant Professor	Benthos
Ozden, Osman (Mr)	PhD	Assistant Professor	Aquaculture
Saka, Sahin (Mr)	MSc	Assistant	Aquaculture
Sunlu, Ugur (Mr)	MSc	Assistant	Marine chemistry; Marine pollution
Tatar, Osman (Mr)	PhD	Assistant Professor	Fish processing
Temelli, Belgin (Ms)	PhD	Assistant Professor	Fish feeding
Terzioglu, Sukran (Ms)	MSc	Assistant	Fish processing
Tokac, Adnan (Mr)	PhD	Assistant Professor	Fisheries
Yaramaz, Ozdemir (Mr)	PhD	Assistant Professor	Marine chemistry; Marine pollution
Yureklitirk, Osman (Mr)	PhD	Professor	Fish diseases

Centre for Environmental Studies (CES)

Cevre Sorunlari Uygulama ve Arastirma Merkezi (CEVMER)

Ege Universitesi
 Fen Fakultesi, E-blok
 Bornova 35100
 (51) Izmir
 TURKEY

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Executive officer Professor Dr Munir Ahmet OZTURK, Director

Governmental, national institution founded in 1990. Languages: Turkish; English; German; French

Nature of activities Research; Laboratory; Academic/educational; Information/public awareness

Purpose and objectives Assisting industrialists in the use of eco-technology

Areas of speciality/activities Marine chemistry and geochemistry; Nutrients; Heavy metals; Waters; Biota; Marine biology and ecology; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Eutrophication; Plankton blooms; Molluscs; Crustaceans; Marine mammals; Marine birds; Marine physiology; Parasitology; Taxonomy and systematics; Productivity; Community and population studies; Fisheries; Aquaculture; Marine environmental management; Coastal zone management; Pollution; Nature conservation and/or restoration; Environmental impact assessment; Environmental education; Development policy/planning; Recreation/tourism; Resources management; Provide laboratory facilities for the testing of water-systems for pollutants; Guidance in the conservation of coastal ecosystems

TURKEY

Environments Lakes; Brackishwater; Coastal zone; Pelagic environment; Benthic environment; Littoral zone; Islands

Geographic areas Mediterranean Sea; Adriatic Sea; Aegean Sea; Marmara Sea; Black Sea

Co-operative research programmes/projects

- Flora and fauna of aquatic ecosystems in nature conservation areas of the Aegean region

Staff Professional 7

Information facilities

Publications Annual newsletter; Technical reports

Library 100 volumes/reprints; 5 periodicals

Physical facilities

Laboratory equipment Diving tubes

Research vessels/crafts Small boats

Facilities for 2 visiting scientists; 5 students **Conference/seminar facilities** for 200 participants
Lodging for 60

Professional/Scientific staff

Name	Degree	Position	Specialization
Dogan , Fethi (Mr)	PhD	Professor	Medicine; Hygiene
Erdem , Umit (Mr)	PhD	Associate Professor	Agricultural planning; Landscape ecology
Henden , Emur (Mr)	PhD	Professor	Analytical chemistry; Heavy metals
Katagan , Tuncer (Mr)	PhD	Associate Professor	Hydrobiology
Onogur , Ersin (Mr)	PhD	Professor	Agricultural engineering; Plant protection
Ozturk , Munir (Mr)	PhD	Professor/Director	Plants and pollutants; Wastewater use; Heavy metals
Turkan , Ismail (Mr)	PhD	Associate Professor	Biology; Exhaust gases and plants

Dokuz Eylul University

Institute of Marine Sciences and Technology (IMST, IZMIR)

Dokuz Eylul Universitesi

Deniz Bilimleri ve Teknolojisi Enstitusu (DBTE, IZMIR)

SSK Konak Tesisleri

D/2 Blok

P.O. Box 478

Izmir 35211

TURKEY

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(90) 51 254958

Telex 52407 DBTE TR

Fax (90) 51 134849

Executive officer Dr Orhan USLU, Professor

Governmental, national institution founded in 1975. Languages: Turkish; English; German; French

Nature of activities Research; Technical training; Academic/educational

Purpose and objectives Academic and research institution which offers programmes leading to MSc and PhD degrees in marine science and technology

Areas of speciality/activities Physical oceanography; Instruments and methods; Water masses and circulation; Currents and dispersion; Waves, tides, surges and sea level; Modelling; Marine chemistry and geochemistry; Analytical methodology; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Radioactivity; Sediments; Waters; Suspended matter; Biota; Marine geology and geophysics; Topography and morphology; Sedimentology; Coastal and nearshore processes; Paleontology; Seismology; Marine biology and ecology; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Eutrophication; Plankton blooms; Molluscs; Crustaceans; Marine biochemistry; Marine microbiology; Toxicology; Taxonomy and systematics; Productivity; Community and population studies; Fisheries; Aquaculture; Marine meteorology and climatology; Marine environmental management; Monitoring and/or assessment; Coastal zone management; Pollution; Nature conservation and/or restoration; Environmental impact assessment; Environmental economics; Environmental education; Artificial reefs; Marine support services; Marine technology; Remote sensing; Data acquisition and telemetry; Ocean policy/law of the Sea; Development policy/planning; Recreation/tourism; Disaster preparedness and relief; Commerce and trade; Resources management; Mineral resources; Energy resources; Monitoring programmes and facilities for the analysis and testing of seawater for pollutants on behalf of the Ministry of the Environment

Environments Lakes; Brackishwater; Coastal zone; Pelagic environment; Benthic environment; Littoral zone; Islands; Estuaries

Geographic areas Mediterranean Sea; Aegean Sea; Dardanelles; Levantine Sea; Bosporus; Marmara Sea; Black Sea; Red Sea

TURKEY

Research programmes/projects

- Sedimentologic and neotectonic evolution of the northeastern Mediterranean
- Geochemical properties and geomorphology of Lake Van
- Investigation of deep structures in the sea of Marmara and its effects on neotectonics
- Demersal fish stock assessment of the Turkish territorial waters (Marmara, Aegean, Mediterranean) and international waters
- Geophysical investigation of Saros Bay
- Computer ship design for engine and propeller selection
- Analysis of two layer current system in the Bosporus

Co-operative research programmes/projects

- MED POL: National Monitoring Programme in the Aegean Sea
- Turkish Scientific and Technical Research Council: Aegean Fisheries Project
- Turkish Scientific and Technical Research Council: Black Sea sub-project of the National Monitoring Programme

Training programmes

Course work and research leading to MSc and PhD

- Marine Science
 - Marine biology and marine living resources
 - 5-week training course in marine biology
 - Marine geology and geophysics
 - Marine chemistry and pollution
- Marine Technology
 - Ship building and platforms engineering
 - Coastal/harbour construction

Staff Professional 31; Technical 12; Other 35

Information facilities

Library 3500 volumes/reprints; 30 periodicals **Librarian** Mrs Belma Bayazitoglu

Computers 9 IBM PS/2s (Models of 60, 55, 50, and 30); 5 PCs (2 IBM AT, 3 IBM XT); 2 Apple Macintosh computers; Printers (2 ImageWriter, 1 LaserWriter, 1 HP LaserJet III, 2 Unisys PW2 500, 6 IBM Proprietary of XL24, and XL, 3 Citizen MSP25); 1 Plotter (Hitachi 681) **Applications** Accounting/financial planning; Desktop publishing; Education; Engineering; Graphics; Library/documentation; Mathematical; Mapping; Modelling; Scientific; Statistical; Word processing

Data exchange Remote network access (EARN)

Physical facilities 5600 m²

Laboratories 566 m²; climate controlled **Laboratory equipment** Gas chromatography (Pacard); Autoanalyser (Scalar); Atomic absorption spectrometry (Beckman); Spectrophotometer (HACH); Oxygenmeter (YSI); Salinometer (YSI); 2 pH meters; Various microscopes; Millipore tridistilled water system; Autoclav; Scanning electron microscope (JEOL U3); SCUBA diving container; 10 licensed divers

Research vessels/crafts RV "K. Piri Reis" (1978), multipurpose, 36 m, A-frame, crane, winches, navigation (radar, satellite, GPS, trisponder), echosounders, scientific sonars, magnetic gradiometer, subbottom profiler, uniboom, airgun CTDs (Interocean and Sea Bird), autoanalyser, 11 crew, accommodations for 10 scientists; Research boats "Olcen I" and "Firtina"

Facilities for 4 visiting scientists; 40 students **Conference/seminar facilities** for 200 participants; 5 workshop rooms for 20 people each

Professional/Scientific staff

Name	Degree	Position	Specialization
Akyarli, Adnan O (Mr)	PhD	Professor	Physical oceanography; Coastal engineering; Hydrodynamics
Avcı, Mert (Mr)	MSc	Research Assistant	Marine geology
Balci, Ahmet (Mr)	PhD	Research Assistant	Marine chemistry; Pollution
Benli, Huseyin Avni (Mr)	PhD	Assistant Professor	Marine biology; Fisheries; Planktonology
Boyaci, Ufuk (Mr)	MSc	Research Assistant	Ship construction; SCUBA diving
Cihangir, Bulent (Mr)	PhD	Research Assistant	Marine biology; Fisheries; SCUBA diving
Cirik, Sukran (Mr)	PhD	Associate Professor	Marine biology; Algae
Demirkurt, Erkan (Mr)	MSc	Research Assistant	Marine biology
Duman, Muhammed (Mr)	MSc	Research Assistant	Marine geology; Bathymetry; Marine geotechniques
Duzbastilar, Musa K (Mr)	PhD	Professor	Marine geology; Paleontology; SCUBA diving
Eftelioglu, Mustafa (Mr)	MSc	Research Assistant	Marine geology; Bathymetry; Marine geotechniques
Ergun, Mustafa (Mr)	PhD	Associate Professor	Marine geophysics; Geodynamics; Tectonics
Gokkus, Umit (Mr)	MSc	Research Assistant	Coastal engineering; Physical oceanography
Gulgeze, Ertan (Mr)	PhD	Assistant Professor	Ship construction
Izdar, Erol (Mr)	PhD	Professor	Marine geology; Ocean technology; Marine pollution
Konuk, Y Tosun (Mr)	PhD	Professor	Marine geology; Bathymetry; Marine geotechniques
Kucuksezgin, Filiz (Ms)	PhD	Research Assistant	Marine chemistry; Pollution; Marine radioactivity
Neser, Gokdeniz (Mr)	MSc	Research Assistant	Naval architecture; Ship hydrodynamics
Ozel, Erdeniz (Mr)	MSc	Research Assistant	Marine geophysics; Marine seismics
Ozerler, Mustafa (Mr)	PhD	Instructor	Sedimentology; SEM study of sediments

TURKEY

Name	Degree	Position	Specialization
Senoz , Mehmet (Mr)	MSc	Research Assistant	Marine geophysics; Side scan sonars
Sonmezler , Ferah (Ms)	MSc	Research Assistant	Marine biology
Taspinar , Nihat (Mr)	PhD	Professor	Physical oceanography; Ship hydrodynamics
Tekogul , Nermin (Ms)	MSc	Research Assistant	Ship construction
Tirasin , E Mumtaz (Mr)	MSc	Research Assistant	Marine biology; Fisheries; SCUBA diving
Tuzmen , Sevil (Ms)	BS	Lecturer	Social sciences; External affairs
Ulug , Atilla (Mr)	PhD	Associate Professor	Marine geophysics; Marine seismics
Uslu , Orhan (Mr)	PhD	Professor/Executive Officer	Physical, chemical oceanography; Currents and dispersion; Marine ecosystems analysis; Water masses and circulation
Ustunbas , Celal (Mr)	BS	Expert	Marine affairs; Navigation
Yasar , Dogan (Mr)	MSc	Research Assistant	Marine geology; Bathymetry; Marine geotechniques

Middle East Technical University
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Executive officer Professor Dr Gulerman A SURUCU, Chairman

Governmental, national institution founded in 1973. Languages: English; Turkish

Nature of activities Research; Laboratory; Academic/educational; Commercial

Purpose and objectives Education, research and service in the fields of water-supply engineering, wastewater engineering, environmental chemistry and microbiology, environmental impact assessment, and air pollution control

TURKEY

Areas of speciality/activities Monitoring and/or assessment; Coastal zone management; Pollution; Environmental impact assessment; Environmental education; Environmental impact assessment of thermal power stations; Environmental database development

Environments Lakes; Coastal zone; Rivers; Lagoons; Estuaries

Geographic areas Mediterranean Sea; Aegean Sea; Black Sea

Research programmes/projects

- Development and application of river quality models as related to marine and lake pollution
- Development of models for pollution control in marinas
- Geochemistry of important sediments
- Organometal complex interaction
- Application of modern analytical techniques to environmental chemistry

Staff Professional 24; Technical 4; Other 5

Information facilities

Computers Remote access to Burroughs A9 and IBM 3090 mainframe computers; 10 PCs (IBM)

Applications Database management; Education; Engineering; Graphics; Modelling; Network access; Scientific; Statistical; Word processing **Data exchange** Remote access

Physical facilities 2000 m²

Laboratories 1000 m² **Laboratory equipment** Equipment to sample water from near-shore areas and some equipment to make in situ measurements (salinity, temperature, conductivity, Secchi depth, dissolved oxygen, tracer concentrations for dispersion studies)

Facilities for 30 students **Conference/seminar facilities** for 100 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Atimtay, Aysel (Ms)	PhD	Associate Professor	Air pollution control; Industrial air; Wastewater; Solid waste treatment; Desulphurization of fossil fuels
Balkas, Turgut (Mr)	PhD	Professor	Marine pollution; Coastal zone management
Demirer, Goksel (Mr)	BS	Research Assistant	Microbial pollution in the marine environment; Biological treatment of industrial wastewater; MED POL studies
Dilek, Filiz B (Ms)	MSc	Research Assistant	Environmental microbiology; Activated sludge; Heavy metal kinetics; Wastewater treatment
Enuysal, Mete (Mr)	PhD	Assistant Professor	Environmental chemistry; Analytical methodology; Nutrients; Heavy metals

TURKEY

Name	Degree	Position	Specialization
Gokcay , Celal F (Mr)	PhD	Professor	Environmental microbiology; Waste water treatment; Coastal pollution monitoring
Gole , K Banu (Ms)	MSc	Research Assistant	Air pollution control; Dispersion of air pollution; Dispersion modelling
Hacisalihoglu , Gulen (Ms)	MSc	Research Assistant	Atmospheric pollution; UNEP/Barcelona Convention/LBS Protocol/MED POL applications
Oguz , Meral (Ms)	PhD	Instructor	Environmental chemistry; Coal chemistry; Water chemistry; Coal technology
Oguz , Mustafa (Mr)	PhD	Associate Professor	Pollution control in the marine environment; Marine disposal of wastewater
Osturk , Yasar F (Mr)		Instructor	Water pollution control; Pollution control of the marine environment
Sert , Yalcin (Mr)	BS	Research Assistant	Environmental modelling; Air quality modelling
Soyupak , Selcuk (Mr)	PhD	Associate Professor	Environmental engineering; Industrial water pollution control
Surucu , Gulerman (Mr)	PhD	Professor/Chairman	Water pollution control; Solid waste management
Teksoz , Gaye (Ms)	MSc	Research Assistant	Environmental chemistry; UNEP/Barcelona Convention/LBS Protocol/MED POL applications
Tuncel , Gurdal (Mr)	PhD	Associate Professor	Air chemistry; Application of analytical techniques to air chemistry
Ulug , S Erol (Mr)	PhD	Associate Professor	Water/air pollution control; Anaerobic treatment of wastes; Monitoring
Yetis , Ulku (Ms)	PhD	Assistant Professor	Water and wastewater treatment; UNEP/Barcelona Convention/LBS Protocol/ MED POL applications
Yurteri , Coskun (Mr)	PhD	Associate Professor	Water and wastewater treatment; Numerical solution of hydrothermal models

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Executive officer Dr Umit A UNLUATA, Professor

Governmental, national institution founded in 1975. Languages: Turkish; English

Nature of activities Research; Academic/educational

Purpose and objectives Graduate level education; Applied research; Development and management of national marine resources and coastal environment

Areas of speciality/activities Physical oceanography; Water masses and circulation; Currents and dispersion; Air-sea interaction; Waves, tides, surges and sea level; Modelling; Marine chemistry and geochemistry; Analytical methodology; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Sediments; Waters; Suspended matter; Biota; Marine geology and geophysics; Topography and morphology; Sedimentology; Coastal and nearshore processes; Marine biology and ecology; Phytoplankton; Zooplankton; Benthos; Fish; Plankton blooms; Molluscs; Crustaceans; Toxicology; Taxonomy and systematics; Productivity; Community and population studies; Fisheries; Monitoring and/or assessment; Pollution; Environmental impact assessment; Remote sensing; Resources management; Assistance to the government in planning the development of fishery resources; Adviser to local government and municipalities on marine sewage outfall planning; Monitoring of pollution levels at selected regions ("hot spots"); Training of marine technicians from government agencies and other marine institutions

Environments Coastal zone; Pelagic environment; Benthic environment; Estuaries

Geographic areas Aegean Sea; Dardanelles; Levantine Sea; Bosporus; Marmara Sea; Black Sea

TURKEY

Research programmes/projects

- National Monitoring Programme, northeastern Mediterranean Sea sub-project
- National Monitoring Programme, Eastern Black Sea sub-project
- National Monitoring Programme, Sea of Marmara sub-project
- MED POL II long term monitoring project
- Istanbul waste water outfalls project, pre and post-operational monitoring studies of marine outfalls
- Istanbul waste water outfalls project, determination of the assimilative capacity of the Sea of Marmara and Turkish Straits system
- Investigation of post-operation oceanographic and atmospheric factors of Seka-tasucu paper plant
- Transport paths, chemical composition and effects of the atmospheric material input to the pollution of the Eastern Mediterranean Sea
- Monitoring via direct measurements of the modes of mixing and transport of wastewater discharges into the Bosphorus underflow

Co-operative research programmes/projects

- NATO: Stock assessment studies for the Turkish Black Sea coast
- IOC/UNEP: Transport of water and selected substances through Turkish Straits
- UNEP: Climatic variability in the northeastern Mediterranean and Black Sea
- Community of Mediterranean Universities: Capture of Sarda in Italian, Greek and Turkish seas; Study of stocks in the central and eastern Mediterranean and use of mitochondrial DNA as a tool of genetic variability identification
- POEM (Physical Oceanography of the Eastern Mediterranean)

Training programmes

- Course work and research leading to MSc and PhD in
 - Physical oceanography
 - Marine chemistry
 - Marine geology and geophysics
 - Marine biology and fisheries

Staff Professional 35; Technical 9; Other 64

Information facilities

Publications Technical reports on the sponsored research projects (distribution limited)

Library 4700 volumes; 5000 reprints; 32 periodicals **Co-operative programmes/projects** Woods Hole Oceanographic Institution, USA; Scripps Institution of Oceanography, USA; Institute of Oceanographic Sciences, UK; Israel Oceanographic and Limnological Research, Haifa; Institut für Meereskunde, University of Kiel, Germany **Librarian** Mrs Gulgun Latif

Computers 1 HP 9845/S (RISC); 3 X-Terminals; 3 IBM PS/2s (1 Model 80, 2 Model 30); PCs (5 IBM AT/XT, 2 HP Vectre ES/2); 1 Portable (Compaq 386); Local Area Network; CD-ROM(IBM 3363); Scanner (HP Scanjet Plus); 2 Plotters (HP 7440A, HP 7475A); Printers (HP Laserjet III and II, HP Rugged Writer, C-TOH, Citizen MSP-55, EPSON LQ850 and FX1000) **Applications** Communications; Desktop publishing; Education; Engineering; Graphics; LAN; Mathematical; Mapping; Scientific; Statistical; Word processing; Data acquisition **Data exchange** 5.25"(HD)/3.5"(HD) PC diskettes; Tape (1600/6250bpi, HP 9145); ASCII text file

Physical facilities 950 m²

Laboratories 400 m²; climate controlled **Laboratory equipment** Automatic Satellite Picture Transmission (APT) system (Weathertrac); Compaq PC-SEAPAC system; Vessel mounted 150 KHz acoustic doppler current profiler (RD Instruments); 2 CTD profilers (Sea Bird Electronics Model 9); GO-LO Rosette Sampler (General Oceanics, 12x5 lt); BioSonics Hydroacoustics Instruments (Echo sounders (Model 102) with transducers, towed bodies, chart recorders, digital recorders); Current meters (Aanderaa RCM4); Precision depth recorder (Raytheon) Submersible tide gauge (InterOcean M-STG100M); Wave buoy (Datawell Waverider); Side scan sonar (EG/G IB systems); Uniboom (shallow seismic system EG/G); Trisponder system (Del Norte); Gravity corer (Phleger); Grab sampler (Van Veen); Bottom sampler (InterOcean); AAS (Varian Techtron AA-6, Varian 1250); GC (Carlo Erba Vega 6300-01, M-437A, M-428, Varian M-2700); Elemental analyser CHN (Carlo Erba model-1108); Four channels autoanalyser (Technicon A-II); In-situ fluorometer (Navitronics, Q-200); DO meter (YSI M-58); pH meter (Orion 801-A, Chemistrix M-400); Automatic winkler titration system (Hydro Bios); Nansen bottles and reversing thermometers (Hydro Bios); Plankton nets (Nansen closing net, Egg net, Naked hai); Hydraulic control fish nets (bottom and mid-water trawl and gill nets); Particle size analyser (Coulter Counter M-TA w/digital output); Microscope (Nikon stereo, Nikon polarizing, Olympus stereo with photographic tube); Automatic weather station (Aanderaa); Diving equipment; Spectrophotometer (UV-Vis Cecil 500, Ultrospec II LKB); Spectrofluorometer (Hitachi F-3000); High volume air samplers (General Metal Works Model GMWL-2000 and PM10); Remotely operated underwater vehicle (Benthos MiniRover MK II)

Research vessels/crafts RV "Bilim" (1983), research vessel, 40.36 m, equipped with echosounder, trawling winch, global positioning satellite navigator system, accommodations for 14 scientists; RV "Lamas" (1981), trawler, 16 m, equipped with trawling winch, accommodations for 4 scientists; RV "Erdemli" (1979), wooden hull, w/sails, 17 m, accommodations for 5 scientists

Facilities for 2 visiting scientists; 10 students **Conference/seminar facilities** for 40 participants
Lodging for 24

Professional/Scientific staff

Name	Degree	Position	Specialization
Akdogan , Sengul (Ms)	MSc	Research Assistant	Marine biology; Pollution
Altioğlu , Husne (Ms)	BS	Research Assistant	Physical oceanography
Avsar , Dursun (Mr)	MSc	Research Assistant	Fisheries; Stock assessment
Basturk , Ozden (Mr)	PhD	Associate Professor	Marine chemistry; Nutrients; Pollution; Surface film
Besiktepe , Sukru (Mr)	PhD	Assistant Professor	Physical oceanography; Numerical modelling
Bingöl , Ferit (Mr)	PhD	Professor	Marine biology; Fisheries; Stock assessment; Fisheries acoustics
Bodur , Mehmet Nuri (Mr)	PhD	Assistant Professor	Marine geology; Sedimentology; Geochemistry
Ediger , Dilek (Ms)	MSc	Research Assistant	Marine chemistry; Production; Nutrients; CZCS analysis
Ediger , Vedat (Mr)	PhD	Assistant Professor	Marine geology; Sedimentology; Sedimentary petrology

TURKEY

Name	Degree	Position	Specialization
Ergin , Mustafa (Mr)	PhD	Associate Professor	Marine geology; Sedimentology; Geochemistry; Seismic stratigraphy
Gaines , Alexander (Mr)	PhD	Professor	Marine chemistry
Gucu , Ali (Mr)	MSc	Research Assistant	Marine biology; Fisheries; Fisheries acoustics; Stock assessment
Hatipoglu , Emin (Mr)	MSc	Research Assistant	Marine chemistry
Ismen , Ali (Mr)	MSc	Research Assistant	Marine biology; Fisheries
Kubilay , Nilgun (Ms)	MSc	Research Assistant	Marine chemistry; Atmospheric input of pollutants
Latif , Mohammed Abdul (Mr)	PhD	Professor	Physical oceanography; Air-sea interaction; Water masses and circulation
Mutlu , Erhan (Mr)	MSc	Research Assistant	Marine biology; Benthos
Oguz , Temel (Mr)	PhD	Associate Professor	Physical oceanography; Circulation; Modelling
Okyar , Mahmut (Mr)	PhD	Assistant Professor	Marine geophysics; Shallow seismic
Ozsoy , Emin (Mr)	PhD	Professor	Physical oceanography; Geophysical fluid dynamics; Modelling
Polat , Colpan S (Ms)	MSc	Research Assistant	Marine chemistry
Salihoglu , Ilkay (Mr)	PhD	Professor	Marine chemistry; Pollution; Halogenated hydrocarbons; Petroleum hydrocarbons
Saydam , Cemal A (Mr)	PhD	Associate Professor	Marine chemistry; Atmospheric transport of trace elements; Remote sensing
Stepnowski , Andrzej (Mr)	PhD		Fisheries; Fisheries acoustics
Sur , Halil Ibrahim (Mr)	PhD	Assistant Professor	Physical oceanography; Circulation dynamics; Numerical modelling; Remote sensing
Telli , Fatma (Ms)	MSc	Research Assistant	Marine biology; Pollution effects
Timur , Kemal (Mr)	MSc	Instructor	Marine geophysics; Geophysics; Bathymetry; Underwater acoustics; Seismology
Tugrul , Suleyman (Mr)	PhD	Associate Professor	Marine chemistry; Trace metals; Organometals; Nutrients; Water quality modelling
Unluata , Umit A (Mr)	PhD	Professor/Executive Officer	Physical oceanography; Geophysical fluid dynamics
Unsal , Mustafa (Mr)	PhD	Professor	Marine biology; Plankton; Benthos; Pollution

TURKEY

Name	Degree	Position	Specialization
Uysal , Zahit (Mr)	MSc	Research Assistant	Marine biology; Plankton
Yemenicioglu , Semal (Mr)	PhD	Assistant Professor	Marine chemistry; Heavy metals; Trace metals; Organometals
Yilmaz , Aysen (Ms)	PhD	Associate Professor	Marine chemistry; Production; Nutrients
Yilmaz , Kubilay (Mr)	MSc	Research Assistant	Marine chemistry; Microlayer chemistry
Yucesoy , Fulya (Ms)	MSc	Research Assistant	Marine geology; Sedimentology; Geochemistry

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Executive officer Professor Dr Sreten MANDIC, Director

Governmental, national institution founded in 1961. Languages: English; French; Italian

Nature of activities Research; Laboratory; Academic/educational

Purpose and objectives Research on the biology of the south Adriatic; Neurobiology, marine pharmacology, basic and applied research in mariculture; Environmental protection

Areas of speciality/activities Physical oceanography; Water masses and circulation; Currents and dispersion; Waves, tides, surges and sea level; Marine chemistry and geochemistry; Analytical methodology; Nutrients; Heavy metals; Organics (halogenated hydrocarbons, petroleum hydrocarbons, etc); Radioactivity; Sediments; Waters; Suspended matter; Biota; Marine biology and ecology; Phytoplankton; Zooplankton; Benthos; Fish; Algae; Eutrophication; Plankton blooms; Molluscs; Crustaceans; Marine physiology; Marine biochemistry; Marine microbiology; Parasitology; Pathology of marine species; Toxicology; Taxonomy and systematics; Productivity; Community and population studies; Fisheries; Aquaculture; Marine environmental management; Monitoring and/or assessment; Coastal zone management; Pollution; Nature conservation and/or restoration; Environmental impact assessment; Resources management

Environments Brackishwater; Coastal zone; Pelagic environment; Benthic environment; Littoral zone; Lagoons; Estuaries

Geographic areas Adriatic Sea

Research programmes/projects

- Investigation, exploitation and protection of the south Adriatic area
- Isolation, chemical and biochemical characterization of natural products from marine organisms
- Investigation of the blood-brain barrier and regulation of the neural microenvironment in marine organisms
- Neural mechanisms of behaviour in marine organisms

Co-operative research programmes/projects

- Germany: Aquaculture; Marine pharmacology
- France: Parasitology
- Italy/Soviet Union/Hungary: Neurobiology
- Great Britain: Neurobiology

YUGOSLAVIA

Training programmes

- Training programmes for graduates of Yugoslav and foreign universities

Staff Professional 20; Technical 10; Other 10

Information facilities

Publications Studia Marina, scientific publications; Monographs

Library 60 periodicals **Co-operative programmes/projects** 150 institutions, world-wide

Computers 8 PCs (1 386, 7 286); Local Area Network **Applications** Communications; Database management; Desktop publishing; Graphics; Library/documentation; LAN; Scientific; Statistical; Word processing **Data exchange** Electronic mail

Physical facilities 2000 m²

Laboratories 35 m²; climate controlled **Laboratory equipment** All necessary equipment for the implementation of the various research programmes **Aquariums** 1x1200 m³ **Species maintained** Mugillidae; Sparidae; Anguillidae; Lamelibranchiatae

Research vessels/crafts Research vessel, type "leut"

Facilities for 10 visiting scientists; 40 students **Conference/seminar facilities** for 70 participants

Professional/Scientific staff

Name	Degree	Position	Specialization
Kljajic, Zoran (Mr)	PhD	Senior Scientist	Biochemistry; Marine pharmacology; Environmental protection
Kovacevic S, Nikola (Mr)	PhD	Director	Neurobiology; Behaviour; Aquaculture; Environmental protection
Mandic, Sreten (Mr)	PhD	Professor/Director	Zoobenthos; Aquaculture; Environmental protection
Milosevic, Ivan (Mr)	PhD	Senior Scientist	Neurophysiology; Aquaculture; Environmental protection
Radujkovic , Branko M (Mr)	PhD	Senior Scientist	Fish parasitology; Fish diseases

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