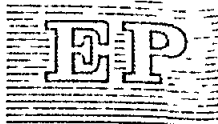




# United Nations Environment Programme



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Second Meeting of the Working Group for  
Scientific and Technical Co-operation for MED POL  
Athens, 21-25 November 1983

Deuxième Réunion du Groupe de Travail de la  
Coopération scientifique et technique pour le MED POL  
Athènes, 21-25 novembre 1983



Long-Term Programme for Pollution Monitoring and Research  
in the Mediterranean Sea (MED POL - PHASE II)

Programme à Long-Terme de Surveillance Continue et de Recherche  
en Méditerranée (MED POL - PHASE II)

PROGRESS REPORT ON THE IMPLEMENTATION OF RESEARCH ACTIVITIES  
DURING 1981 - 1983 AND PROPOSALS FOR 1983 - 1985

RAPPORT SUR LA MISE EN OEUVRE DES ACTIVITES DE RECHERCHE ENTRE 1981 ET 1983  
ET PROPOSITIONS POUR 1983 - 1985

This addendum contains the updated version of all Tables and Annexes which were included in document UNEP/WG.91/4, and reports information relevant to the implementation of MED POL - PHASE II research activities as at 15 November 1983.

Ce document contient une mise-à-jour des Tableaux et Annexes qui avaient été inclus dans le document PNUE/WG.91/4 et des informations relatives à la mise-en-oeuvre des activités de recherche du MED POL - PHASE II jusqu'au 15 novembre 1983.

Table 1. Summary table of research proposals  
processed by the MED UNIT as at 17 November 1983

Tableau 1. Tableau récapitulatif des projets de recherche  
retenues par l'Unité MED au 17 novembre 1983

PAYS COUNTRY	A C T I V I T I E S - A C T I V I T E S												TOTAL
	A	B	C	D	E	F	G	H	I	J	K	L	
ALGERIA	1	-	-	1	-	-	1	1	-	-	-	-	4
CYPRUS	-	-	-	-	-	-	-	-	-	1	-	-	1
E.E.C.	-	-	-	-	-	-	-	-	-	-	-	1	1
EGYPT	2	-	1	-	1	-	1	1	1	-	2	1	10
FRANCE	-	-	-	1	-	1	1	-	1	-	1	3	8
GREECE	1	1	-	-	-	2	2	-	1	-	-	1	8
ISRAEL	2	-	-	2	-	-	1	-	-	-	1	-	6
ITALY	4	-	-	4	-	5	4	-	5	1	3	9	35
LEBANON	-	-	-	-	-	-	-	-	1	-	-	-	1
LIBYA	-	-	-	-	-	-	-	-	-	-	-	-	-
MALTA	-	-	-	-	-	-	1	-	-	-	-	-	1
MONACO	-	-	-	-	-	1	-	-	1	-	-	1	3
MOROCCO	-	-	-	-	-	-	-	-	-	-	-	1	1
SYRIA	-	-	-	-	-	-	-	-	-	-	-	-	-
SPAIN	4	-	-	1	-	-	-	-	-	-	-	-	5
TUNISIA	1	-	-	-	-	-	-	1	1	-	1	-	4
TURKEY	1	-	1	-	-	2	1	1	1	-	3	-	10
YUGOSLAVIA	5	-	-	3	-	3	3	4	3	-	3	1	25
TOTAL	21	1	2	12	1	14	15	8	15	2	14	18	123

Note: Proposals, either withdrawn by the Principal Investigator, or returned by the secretariat as inadequate, are not listed in the table and appear in Annex I

Note: Les projets qui ont été, soit retirés par le Chercheur Principal, soit renvoyés par le secrétariat parce qu'ils étaient jugés inadéquats ne sont pas comptabilisés dans le tableau mais ils sont mentionnés à l'Annexe I

Table 2. Approved research proposals for activity 'A'  
 Tableau 2. Propositions de recherche approuvées pour l'activité 'A'

INSTITUTE INSTITUT	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR TITRE DU PROJET ET NOM DU CHERCHEUR PRINCIPAL	MTF* CONTR. CONTR. FASM** US \$	AGENCY ORGANISME
ITA 29 Lab. di Igiene del Territorio, Istituto Superiore di Sanità Rome	Research on the hygienic conditions of coastal waters and beaches in a sample zone with reference to the density of microbial indicators and of pathogen bacteria and evaluation of sampling and control criteria and microbial pollution's impact on coastal environment (L. VILLA)	5,500	WHO OMS
SPA 02 Conselleria d' Ecologia i Medi Ambient, Badalona	Evolución de la contaminación bacteriana de origen fecal en el litoral Badalonés, a lo largo del día y a su vez en el tiempo (F. LUCENA-GUTIERREZ)	4,000	WHO OMS
SPA 04 Conselleria d' Ecologia i Medi Ambient, Badalona	Diferencias de eficacia en la recuperación de Estreptococos fecales en las temperaturas de incubación de 37° y 44° C (F. LUCENA-GUTIERREZ)	combined with SPA 02	WHO OMS
TUN 02 Service de Bacte- riologie des Eaux et produits ali- mentaires, Tunis	Etude comparative de la valeur spécifique des coliformes fécaux et des Streptocoques fécaux comme marqueurs de la pollution fécale des eaux de baignade sur le littoral tunisien (A. CHADLI)	3,000	WHO OMS

\* Mediterranean Trust Fund

\*\* Fonds d'affectation spéciale pour la Méditerranée

Table 3. Approved research proposals for activity 'D'  
Tableau 3. Propositions de recherche approuvées pour l'activité 'D'

INSTITUTE INSTITUT	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR TITRE DU PROJET ET NOM DU CHERCHEUR PRINCIPAL	MTF CONTR. CONTR. FASM US \$	AGENCY ORGANISME
YUG 26 Institute of Public Health Dept.of Nutrition Zagreb	The analysis of mercury and methylmercury in seafood in various parts of the Mediterranean (R. BUZINA)	3,000	FAO
ISR 06 Environmental Health Lab., Jerusalem	Epidemiological Study of the relationship between microbial quality of the coastal sea-water and the health of swimmers (B. FATTAL)	10,000	WHO OMS
SPA 03 Lab. Municipal Badalona	Estudio exhaustivo de los hongos que se presentan en una playa contaminada; importancia relativa según la incidencia sobre la salud. Aproximacion a uno y indicador fungico (J. IZQUIERDO)	3,000	WHO OMS
YUG 27 Institute of Public Health Dept.of Nutrition Zagreb	Evaluation of methylmercury in Mediterranean populations and related health hazards (R. BUZINA)	8,000	WHO. OMS
YUG 28 Institute of Public Health Dept.of Nutrition Zagreb	Analysis of human hair for assessing exposure and possible health hazards in Mediterranean populations due to methylmercury in seafood (L. KOSTA)	8,500	WHO OMS

Table 4. Approved research proposals for Activity 'F'  
Tableau 4. Propositions de recherche approuvées pour l'activité 'F'

INSTITUTE INSTITUT	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR TITRE DU PROJET ET NOM DU CHERCHEUR PRINCIPAL	MTF CONTR. CONTR. FASM US \$	AGENCY ORGANISME
GRE 01 Dept. of Hydraulics Univ. of Thessaloniki	Development of mathematical models for horizontal transport of pollutants in coastal areas of the Mediterranean Sea (J. GANOULIS)	3,400	IOC COI
ITA 23 Istituto di Fisica Univ. of Roma	Vertical transport processes of marine water near the Italian coasts (E. SALUSTI)	3,600	IOC COI
TUR 01 Dept. of Marine Science, METU Erdemli, Içel	Oceanographic processes in the Northeastern Levantine coastal waters (U. UNLUATA)	7,000	IOC COI
TUR 02 METU Erdemli, Içel	Pollutant transport processes at Goksu, Seyhan and Ceyhan river mouths (E. OZSOY)	combined with TUR 01	IOC COI
YUG 06 Dept. of Physical Oceanography Split	Low-frequency current field oscillations in the coastal zone of the Central Adriatic (M. GACIC)	8,000	IOC COI

Table 5. Approved research proposals for Activity 'G'  
 Tableau 5. Propositions de recherche approuvées pour l'activité 'G'

INSTITUTE INSTITUT	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR TITRE DU PROJET ET NOM DU CHERCHEUR PRINCIPAL	MTF CONTR. CONTR. FASM US \$	AGENCY ORGANISME
EGY 04 Dept. of Environ. Sciences, UNARC Alexandria	Acute and chronic toxicology of widely used dispersants, PCB's, chlorinated pesticides and their combinations to marine biota and their biomagnification in Alexandria region (A.K.H. EL-SEBAE)	4,000	FAO
FRA 01 Station Marine d'Endoume Marseille	Recherches sur toxicité, le persistance, le bio-accumulation, la carcinogenité et le mutagénicité (R. KAIM-MALKA)	Free Néant	FAO
GRE 02 Zoological Lab. Univ. of Athens	Studies on toxicity of oil dispersants and of oil dispersants mixture to various marine organisms. Combined effects of dispersants and some heavy metals (M. MORAITOU-APOSTOLOPOULOU)	Free Néant	FAO
GRE 07 Zoological Lab. Univ. of Athens	L'influence toxique des dispersants (M.J. CASTRISI-CATHARIOS)	2,500	FAO
ISR 07 Lab. of Population Biology Univ. of Haifa	The genetic structure of marine organisms as a detector and monitor of marine pollution (E. NEVO)	4,000	FAO
ITA 21 Inst. of Marine Biology, CNR Venice	Physiological and biochemical response of marine organisms to PBC pollution in a wide range of environmental factors (L. DALLA VENEZIA)	1,500	FAO
ITA 31 Gruppo Ricerca Oceanologica Genova	Enzymic aspect of the xenobiotic-metabolizing systems in <i>Mytilus galloprovincialis</i> Lam. (A. VIARENGO)	3,000	FAO
MAL 01 Dept of Maths Univ. of Malta Msida	Research on the effects of oil dispersants on marine organisms (V. AXIAK)	3,000	FAO

Table 5. (Continued)  
Tableau 5. (Suite)

INSTITUTE INSTITUT	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR TITRE DU PROJET ET NOM DU CHERCHEUR PRINCIPAL	MTF CONTR. CONTR. FASM US \$	AGENCY ORGANISME
TUR 05 Dept of Biological Sciences, METU Ankara	Design and development of "Bio-Test" methods that will be used to assay the pollutants listed in the annexes of the Protocols, with respect to their toxicity residual effects, bio-degradabilities, mutagenicities and carcinogenicities (H. BAGCI)	4,000	FAO
YUG 05 Lab. of Biology IOF, Split	Research on the effects of oil dispersants on marine organisms (M. TUDOR)	3,000	FAO
YUG 21 Center for Marine Research, Rudjer Boskovic Inst. Zagreb	Toxicity and bioaccumulation of pollutants in marine organisms (M. OZRETIC)	3,000	FAO
YUG 23 Inst. for biological Medical Inv. of SR Montenegro Titograd; and  Dept of Marine Biology of Ocean. Kotor	Halogen containing Terpenoids and related substances in marine organisms (M. GASIC)	3,000	FAO
ITA 06 Dept. of Environ- mental Mutage- nesis & Carcino- genesis Inst. of Hygiene Univ. of Genoa	Mutagenicity, genotoxicity, interactions and metabolism of chemical compounds in the marine organisms (S. DE FLORA)	3,000	WHO OMS
ITA 28 Environmental Mutagenesis Dept. CNR - Pisa	Mutagenic and carcinogenic studies of marine pollution (G. BRONZETTI)	3,000	WHO OMS
ITA 30 Faculty of Medi- cine Univ. of Rome	Research into the toxicity, persistence, bio-accumulation and mutagenicity of hydrocarbons, detergents and some heavy metals in the sea (Tyrrhenian and Adriatic areas) (G.P. DE RENZI)	Free Néant	WHO OMS



Table 6. Approved research proposals for Activity 'H'  
 Tableau 6. Propositions de recherche approuvées pour l'activité 'H'

INSTITUTE INSTITUT	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR TITRE DU PROJET ET NOM DU CHERCHEUR PRINCIPAL	MTF CONTR. CONTR. FASM US \$	AGENCY ORGANISME
ALG 04 Dept. de Production Primaire C.R.O.P.	Eutrophisation et floraisons concomitantes de plancton, dans le port d'Alger (F. AID)	2,000	FAO
TUN 04 Lab. d'Océan. et pollution marine Salammbô	Eutrophisation et floraisons concomitantes de plancton (M.S. HADJ ALI)	3,000	FAO
TUR 08 Inst. of Marine Sciences 9 Eylül Univ. Bornova/Izmir	Elemental transfer process and eutrophication in Büyük Menders Delta (Great Meander Delta) and their offshore distribution, Eastern Aegean-Turkey (E. IZDAR)	3,200	FAO
YUG 03 Inst. of Oceanogr. and Fisheries Split	Eutrophication and concomitant plankton blooms in the coastal area of the Central Adriatic (I. MARASOVIC)	3,000	FAO
YUG 24 Biological Inst. Univ. of Kardelj Ljubljana	Eutrophication and concomitant plankton blooms Occurrence and development of plankton blooms in the Gulf of Trieste (the eastern part) as a possible consequence of pollution-induced eutrophication (N. FANUKO)	2,500	FAO

Table 7. Approved research proposals for Activity 'I'  
 Tableau 7. Propositions de recherches approuvées pour l'activité 'I'

INSTITUTE INSTITUT	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR TITRE DU PROJET ET NOM DU CHERCHEUR PRINCIPAL	MTF CONTR. CONTR. FASM US \$	AGENCY ORGANISME
FRA 03 Station Marine d'Endoume Marseille	Elaboration de critères fondamentaux pour la surveillance écologique continue long terme de la pollution (G. STORA)	Free Néant	FAO
ITA 07 Dipt. Protezione Ambientale, CNEN Rome	Data collection, application and development of methods for the assessment of modifications in ecosystems (G. ZURLINI)	Free Néant	FAO
ITA 08 Inst. di Zoologia Univ. Genova	Evaluation of the conditions of some Posidonia meadows in the North-Western Mediterranean sea and eventual effects of pollutants on the associated fauna (M. SARA)	2,000	FAO
ITA 22 Ist. di Scienze Univ. Catania	Relations between pollutions and biocoenoses in the roadstead of Augusta (Eastern Sicily) (S. DI GERONIMO)	4,000	FAO
ITA 24 Inst. of Zoology Univ. of Pisa	Effects of pollution on the benthos (G. COGNETTI)	1,000	FAO
ITA 26 Istit. di Scienze Ambientali Marine Gruppo Ricerca Oceanologica Univ. di Genova Genova	Conditions actuelles des biocoenoses benthiques du plateau ligure et des îles de l'Archipel toscan (G. ALBERTELLI)	Free Néant	FAO
LEB 01 CNRS Beyrouth	Modifications des écosystèmes par la pollution (S. LAKKIS)	3,000	FAO

Table 7. (Continued)

Tableau 7. (Suite)

INSTITUTE INSTITUT	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR TITRE DU PROJET ET NOM DU CHERCHEUR PRINCIPAL	MTF CONTR. CONTR. FASM US \$	AGENCY ORGANISME
TUN 01 Service Biologie Inst. Pasteur Tunis	Modification des écosystèmes par la pollution (C. CAPAPE)	Free Néant	FAO
TUR 07 Inst. of hydrob. Ege Univ. Bornova/Izmir	The effects of pollution on the benthic and pelagic ecosystems in the Bay of Izmir (A. KOCATAS)	2,500	FAO
YUG 02 Inst. of Oceanogr. Split	Pollution-induced ecosystem modification in the coastal area of the Central Adriatic (D. REGNER)	2,000	FAO
YUG 07 Inst. of Oceanogr. Split	Investigation of zooplakton communities in the Northern Adriatic Sea (A. BENOVIC)	2,000	FAO
YUG 19 Rudj. Boskovic Institute Rovinj	Monitoring of ecosystems modifications in the Northern Adriatic sea induced by eutrophication and anthropogenic activities (D. ZAVODNIK)	3,000	FAO

Table 8. Approved research proposals for Activity 'J'  
Tableau 8. Propositions de recherche approuvées pour l'activité 'J'

INSTITUTE INSTITUT	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR TITRE DU PROJET ET NOM DU CHERCHEUR PRINCIPAL	MTF CONTR. CONTR. FASM US \$	AGENCY ORGANISME
CYP 01 Dept. of Fisheries Nicosia	Study of Littoral, Benthic & fish communities in the Vasilikos-Moni area in relation to the effect on those of pollution from thermal effluents (A. DEMETROPOULOS)	4,500	FAO
ITA 13 Ist. di Zoologia Fac. di Scienze Univ. di Roma Roma	Effects of thermal effluent on sea-shore organisms at Torvaldaliga (Civitavecchia-Roma) (E. TARAMELLI-RIVOSECCHI)	500	FAO

Table 9. Approved research proposals for Activity 'K'  
Tableau 9. Propositions de recherche approuvées pour l'activité 'K'

INSTITUTE INSTITUT	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR TITRE DU PROJET ET NOM DU CHERCHEUR PRINCIPAL	MTF CONTR. CONTR. FASM US \$	AGENCY ORGANISME
EGY 07 UNARC Alexandria	Biogeochemical cycles of specific pollutants (I.H. EL-SOKKARY)	3,000	FAO
FRA 06 Fac. des Sciences St. Jérôme Marseille	Contrôle des métaux lourds dans les écosystèmes littoraux et les chaînes alimentaires marines (N. VICENTE)	1,000	FAO
ITA 01 Dipt. Protezione CNEN Rome	Modelling of the biogeochemical cycle of mercury in the Mediterranean (M. BERNHARD)	Free Néant	FAO
ITA 25 Inst. Anatomia Comparata Univ. Siena	Contaminants in resident and migratory birds of the Mediterranean basin (A. RENZONI)	2,500 combined with ITA 36	FAO
ITA 36 Ist. Anatomia Comparata Univ. Siena	Biogeochemical cycle of mercury and selenium (A. RENZONI)	combined with ITA 25	FAO

Table 9. (Continued)  
Tableau 9. (Suite)

INSTITUTE INSTITUT	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR TITRE DU PROJET ET NOM DU CHERCHEUR PRINCIPAL	MTF CONTR. CONTR. FASM US \$	AGENCY ORGANISME
TUR 03 Marine Sc. Inst. METU, Erdemli	Biogeochemical cycle of Mercury in the North-eastern Mediterranean - Southern coast of Turkey (I. SALIHOGLU)	2,000	FAO
TUR 09 Inst. Marine Sc. 9 Eylül Univ. Bornova/Izmir	Pollutant transfer process and biogeochemical cycles of specific pollutants at the selected location of Candarli Gulf, Turkey (E. IZDAR)	2,800	FAO
EGY 03 UNARC Alexandria	Biogeochemical cycles of specific pollutants Survival of pathogens in the Mediterranean (F. EL-SHARKAWI)	5,000	WHO OMS
TUN 03 Inst. Pasteur Tunis	Survie des ertro-bactéries pathogènes (Salmonella), des Vibrions (NAG vibrions et vibrions parahémolyticus) et des germes marqueurs de pollution fécale (Coliformes et Streptocoques fécaux) en relation avec certains facteurs physico-chimiques (pH, température, salinité, oxygène dissous DBO <sub>5</sub> , DCO du milieu marin) (S. JEKOV)	2,000	WHO OMS
YUG 20 Rud.Boskovic Inst. Rovinj	Survival of some intestinal pathogens in the marine environment (D. FUKS)	3,000	WHO OMS
YUG 11 Center for Marine Research Rudjer Boskovic Institute, Zagreb	Anthropogenic influence on the distribution and fluxes of lead species into the marine environment (M. BRANICA)	4,000	IAEA AIEA
YUG 22 Inst. Biological & Medical Invest. of SR Montenegro, Titograd; Dept. of Marine Biology and Oceanography, Kotor; and Inst.Boris Kidric - Vinca Belgrade	Accumulation and Transport of Radionuclides in the Biota of the South Adriatic Region (N. AJDACIC)	2,000	IAEA AIEA

Table 10. Approved research proposals for Activity 'L'  
Tableau 10. Propositions de recherche approuvées pour l'activité 'L'

INSTITUTE INSTITUT	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR TITRE DU PROJET ET NOM DU CHERCHEUR PRINCIPAL	MTF CONTR. CONTR. FASM US \$	AGENCY ORGANISME
FRA 07 Univ. Perpignan	Rôle des couches néphéloïdes et des colloïdes organiques dans le transport des métaux lourds (Pb, Cd, Cu, Zn) du milieu estuarien au milieu marin. Exemple du Rhône (A. MONACO)	9,860	IOC COI
GRE 04 Univ. of Athens	Study of the transport of particles (measurement of the flux of particles from surface coastal and estuarine waters; use of particle interceptor traps) (M.J. SCOULLOS)	6,800	IOC COI
ITA 16 Water Quality Br. CNR Rome	Study of factors controlling the fate and effects of some pollutants carried out from the Tiber river to the sea (T. LA NOCE)	Free Néant	IOC COI
FRA 05 C.N.R.S. Gif-sur-Yvette	Air/sea and water column metallic pollutant transfer in the Mediterranean Sea (P. BUAT-MENARD)	Free Néant	IAEA/WMO AIEA/OMM
YUG 10 Center for Marine Research Rudjer Boskovic Institute Zagreb	The role of sediments and suspended matter in the transfer of selected pollutants in the Northern Adriatic Basin (V. PRAVDIC)	4,000	IAEA AIEA

Table 11. Summary of expenditures and commitments  
compared to approved allocations, for research activities  
of MED POL for the period 1981 - 1985

Tableau 11. Résumé des dépenses et des engagements  
comparés aux attributions approuvées pour les activités  
de recherche du MED POL pour la période 1981-1985

Year Année	Allocation Attribution	Expenditures/commitments Dépenses/engagements
1981	200,000 <sup>1/</sup>	-
1982	250,000 <sup>2/</sup>	43,000
1983	300,000 <sup>3/</sup>	507,000
1984	250,000 <sup>4/</sup>	-
1985	275,000 <sup>4/</sup>	-
TOTAL	1,275,000	550,000

1/ Second Meeting of Contracting Parties (UNEP/IG.23/11, Annex XI)

2/ Extraordinary Meeting of Contracting Parties (UNEP/IG.36/8, Annex V)

3/ Third Meeting of Contracting parties (UNEP/IG.43/6, Annex V)

4/ Third Meeting of Contracting Parties (UNEP/IG.43/6, Annex V) and  
18th Meeting of the Bureau (UNEP/BUR/18/Corr. 1, Annex IV)

1/ Deuxième réunion des Parties Contractantes (UNEP/IG.23/11, Annexe XI)

2/ Réunion extraordinaire des Parties Contractantes (UNEP/IG.43/6, Annexe V)

3/ Troisième réunion des Parties Contractantes (UNEP/IG.43/6, Annexe V)

4/ Troisième réunion des Parties contractantes (UNEP/IG.46/6, Annexe V) et  
18ème réunion du Bureau (UNEP/BUR/18/Corr. 1, Annexe IV)

Annex I - Annexe I

Complete list of research proposals received as at 17 November 1983  
Liste complète des propositions de recherche reçues au 17 novembre 1983

PAYS - Adresse de l'Institut COUNTRY - Address of Laboratory	Titre du Projet et nom du Chercheur Principal Title of Project and name of Principal Investigator	Activité Activity	Organisme Agency
ALGERIA/ALGERIE 1 Dept. de Pollution Centre de Recherches Océanographiques et des Pêches Jetée Nord BP.90 Alger-Bourse	Mise au point et essai de techniques d'échantillonnage et d'analyse pour la surveillance des polluants de la mer (A. CHOUIKHI)	A	UNESCO
2 Dept. de Pollution C.R.O.P.	Etudes épidémiologiques relatives aux critères de qualité de l'environnement (S. KRIM)	D	WHO OMS
3 Dept. de Pollution C.R.O.P.	Recherches sur la toxicité, la persistance, la bioaccumulation, la cancérogénicité et la mutagénicité (K. BENSALAH)	G	FAO
4 Dept. de Production Primaire C.R.O.P.	Eutrophisation et floraisons concomitantes de plancton, dans le port d'Alger (F. AID)	H	FAO
CYPRUS-CHYPRE 1 Dept. of Fisheries Ministry of Agriculture and Natural Resources Nicosia	Study of Littoral, Benthic & fish communities in the Vasilikos-Moni area in relation to the effect on those of pollution from thermal effluents (A. DEMETROPOULOS)	J	FAO



PAYS - Adresse de l'Institut COUNTRY - Address of Laboratory	Titre du Projet et nom du Chercheur Principal Title of Project and name of Principal Investigator	Activité Activity	Organisme Agency
EEC-CCE 1 Commission des Communautés Européennes Centre Commun de Recherche Ispra	Etude du transport côtier de la pollution (P. FRAYSSE)	L	IOC COI
EGYPT-EGYPTE 1 Dept. of Hydrobiology Institute of Oceanography & Fisheries, Kayet Bay, Alexandria	Eutrophication and concomitant plankton blooms (H.A. SULTAN)	H	FAO
2 Depts. of Marine Chemistry, Pollution, Research, Hydrobiology, Marine Geology, Institute of Oceanography & Fisheries, Kayet Bey, Alexandria	Research on toxicity, persistence, transfer and accumulation of petroleum hydrocarbons, mercury, cadmium and lead in the nearshore waters of Alexandria (S.A. WAHBY)	relevant to monitoring Relatif à la surveillance	
3 Dept. of Environmental Health University of Alexandria Research Centre, (UNARC) P.O. Box 832, Alexandria	Biogeochemical cycles of specific pollutants. Survival of pathogens in the Mediterranean (F. EL-SHARKAWI)	K	WHO OMS
4 Dept. of Environmental Sciences University of Alexandria Research Centre, (UNARC) P.O. Box 832, Alexandria	Acute and chronic toxicology of widely used dispersants, PCB's, chlorinated pesticides and their combinations, to marine biota and their biomagnification in Alexandria region (A.K.H. EL-SBBAE)	G	FAO

PAYS - Adresse de l'Institut COUNTRY - Address of Laboratory	Titre du Projet et nom du Chercheur Principal Title of Project and name of Principal Investigator	Activité Activity	Organisme Agency
5 Dept. of Aquatic Pollution Project University of Alexandria Research Centre, (UNARC) P.O. Box 832, Alexandria	Pollution induced ecosystem modifications (Y. HALIM)	I	FAO
6 University of Alexandria Research Center - UNARC P.O. Box 832 - Alexandria	Development and testing of sampling and analytical techniques for monitoring of marine pollutants (I.H. EL-SOKKARY)	A	FAO
7 Univ. of Alexandria Research Centre - UNARC P.O. Box 832 - Alexandria	Biogeochemical cycles of specific pollutants (I.H. EL-SOKKARY)	K	FAO
8 Univ. of Alexandria Research Centre - UNARC P.O. Box 832 - Alexandria	Pollutant Transfer Processes (M.F. MACKLAD)	L	IOC COI
9 Univ. of Alexandria Research Centre - UNARC P.O. Box 832 - Alexandria	Development and testing of sampling and analytical techniques for monitoring of marine pollutants (M.F. MACKLAD)	A	FAO
Univ. of Alexandria Research Centre - UNARC P.O. Box 832 - Alexandria	Formulation of Scientific Rationale for Mediterranean Environmental Quality Criteria (F. EL-SHARKAWI)	C	WHO OMS
Univ. of Alexandria Research Centre - UNARC P.O. Box 832 - Alexandria	Development of proposals for guidelines and criteria governing the application of the land-based Sources Protocol (F. EL-SHARKAWI)	E	WHO OMS

PAYS - Adresse de l'Institut COUNTRY - Address of Laboratory	Titre du Projet et nom du Chercheur Principal Title of Project and name of Principal Investigator	Activité Activity	Organisme Agency
FRANCE 1 Station Marine d'Endoume et Centre d'Océanographie, Marseille	Recherche sur la toxicité, la persistance, la bioaccumulation, la carcinogénicité et le mutagénicité (R. KAIM-MALKA)	G	FAO
2 Station Marine d'Endoume et Centre d'Océanographie, Marseille	Modifications dans les écosystèmes benthiques de substrats durs et demi-durs (D. BELLAN-SANTINI)	I	FAO
3 Station Marine d'Endoume et Centre d'Océanographie, Marseille	Elaboration de critères fondamentaux pour la surveillance écologique continue à long terme de la pollution (G.STORA)	I	FAO
4 Faculté de Pharmacie Laboratoire d'Hydrologie Université d'Aix, Marseille	Sédimentation et évolution des dépôts dans une zone littorale industrielle (A. ARNOUX)	L	UNESCO
5 Centre des Faibles Radioactivités Laboratoire mixte CNRS-CEA Domaine du C.N.R.S. 91190, Gif sur Yvette	Air/sea and water column metallic pollutant transfer in the Mediterranean Sea (P. BUAT-MENARD)	L	WMO/IAEA OMM/AIEA
6 Laboratoire de Biologie Marine Faculté des Sciences et Techniques St. Jérôme, 13013 Marseille	Contrôle des métaux lourds dans les écosystèmes littoraux et les chaînes alimentaires marines (N. VICENTE)	K	FAO

PAYS - Adresse de l'Institut COUNTRY - Address of Laboratory	Titre du Projet et nom du Chercheur Principal Title of Project and name of Principal Investigator	Activité Activity	Organisme Agency
7 Laboratoire de Sédimentologie et Géochimie Marines Université de Perpignan Av de Villeneuve 66025 Perpignan	Rôle des couches néphéloïdes et des colloïdes organiques dans le transport des métaux lourds (Pb, Cd,Cu,Zn) du milieu estuarien au milieu marin. Exemple du Rhône (A. MONACO)	L	IOC COI
8 Centre d'Etudes et de Recherches de Biologie et d'Océanographie Médicale (C.E.R.B.O.M.) Nice	Projet d'Etudes de la toxicité de composés siliconés en milieu marin: toxicité directe immédiate, toxicité auprès biodegradation et toxicité induit à travers les chaînes biologiques (M. AUBERT)	G	FAO
9 Institut Scientifique et Technique des Pêches maritimes Nantes	Programme d'évaluation de la contamination en mercure et méthylmercure en Méditerranée: analyse dans les poissons et coquillages (Y. THIBAUD)	D	FAO
GREECE-GREE 1 Dept of Hydraulics School of Technology, Aristotle University of Thessaloniki	Development of mathematical models for horizontal transport of pollutants in coastal areas of the Mediterranean Sea (J. GANOULIS)	F	IOC COI
2 Zoological Laboratory University of Athens Panepistimioupolis Athens	Studies on toxicity of oil dispersants and oil dispersants mixture to various marine organisms. Combined effects of dispersants and some heavy metals (M. MORAITOU-APOSTOLOPOLOU)	G	FAO

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3 Ministry of Social Services Environmental Pollution Control Project, 147 Patission Str. Athens 814	Structural and physiological changes in benthic communities as a measure of the state of pollution in marine environments (A. J. ZARKANELLAS)	I	FAO
4 Inorganic Chemistry Labs. University of Athens Dept of Chemistry 13A Navarinou St., Athens 144	Study of the transport of particles (measurement of the flux of particles from surface coastal and estuarine waters; use of particle interceptoc traps) (M. J. SCOULLOS)	L	UNESCO
5 Inst. of Oceanographic and Fisheries Research Aghios Kosmas, Hellinikon Athens	Analysis of coprostanol and its use as an indicator of faecal pollution (G.P. GABRIELIDES)	A	WHO OMS
6 Lab. of Physical Geography of Athens Couponia-Kaisariani, Athens	Dynamical Study of surface cold water patterns appearing in the Gulf of Korinth (A. IASCARATOS)	F	IOC COI
7 Zoological Lab. Univ. of Athens Athens	L'influence toxique des dispersants (M.J. CASTRISI-CATHARIOS)	G	FAO
Athens Center of Ekistes 24, Strat. Syndesmou street Athens	Development of reporting formats required according to the dumping, emergency and Land-based Sources Protocols (A. KATSAOUNIS)	B	WHO OMS

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ISRAEL 1 Dept of Marine Geology Israel Oceanographic & Limnological Research Tel-Shikmona, POB 8030, Haifa	Tar balls dispersal and accumulation on the beach and their relation to wave and current regime (A. GOLIK)	L	IOC COI
2 Chemical Oceanography & Marine Pollution Dept. Israel O. & L. Research Haifa	Development of sampling and analytical techniques for monitoring of total mercury content in marine organisms and sediments (B.S. KRUMGALZ)	A	IAEA AIEA
3 Dept of Biology Israel O. & L. Research Haifa	Effect of pollution on microbial communities in the Eastern Mediterranean Sea (B. CAVARI)	K	WHO OMS
4 Chemical Oceanography & Marine Pollution Dept. Israel O. & L. Research, Haifa	Biogeochemical cycle of mercury in a polluted area (B.S. KRUMGALZ)	K	FAO
5 Chemical, O. & M.P. Dept. Israel O. & L. Research Haifa	Development of sampling & analytical techniques for monitoring of cadmium in marine organisms (B.S. KRUMGALZ)	A	FAO
6 Environmental Health Laboratory Hebrew University of Jerusalem Faculty of Medicine-School of Public Health, Jerusalem	Epidemiological Study of the relationship between microbial quality of the coastal sea-water and the health of swimmers (B. FATTAL)	D	WHO OMS

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7 Laboratory of Population Biology & Laboratory of Marine Biology Institute of Evolution University of Haifa, Haifa	The genetic structure of marine organisms as a detector and monitor of marine pollution (E. NEVO)	G	FAO
8 The A. Felix Public Health Lab. Ministry of Health Tel-Aviv	Prevalence of <u>Staphylococcus aureus</u> and <u>Pseudomonas aeruginosa</u> in coastal water of Israel (Y. YOSHPE-PURER)	D	WHO OMS
ITALY-ITALIE 1 Dipt. Protezione Ambientale (Ierici), CNEN - Roma	Modelling of the biogeochemical cycle of mercury in the Mediterranean (M. BERNHARD)	K	FAO
2 Physical Oceanography Dept Consiglio Nazionale delle Ricerche Istituto per lo Studio della Dinamica delle Grandi Masse Stazione Oceanografica Via Bagnara 2 19036 S. Terenzo (La Spezia)	Dynamic condition in the Eastern Ligurian Sea (M. ASTRALDI)	F	IOC COI
3 Facolta' Chimica Industriale Istituto Chimica Generale ed Inorganica Sezione Mineralogica Calle Larga S. Marta, 2137 30123 Venezia.	Textural and mineralogical characters and role in the pollution processes of bottom sediments in the Northern Adriatic Sea. (O. HIEKE MERLIN)	L	IAEA AIEA

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4 Osservatorio Meteorologico di Brera, Via Brera 28 20121 Milano	Dynamic climatology & modelling of long range transport of air pollution over Mediterranean sea (L. SANTOMAURO)	L	WMO OMM
5 Consiglio Nazionale delle Ricerche Ist. Talassografico di Trieste Viale R. Gessi 2, Trieste	Coastal dynamic processes and surface transport in the Gulf of Trieste (Northern Adriatic) - "DYGUTS" (F. STRAVISI)	F	IOC COI
6 Dept of Environmental Mutagenesis & Carcinogenesis, Institute of Hygiene, University of Genoa Via Pastore 1, 16132 Genoa	Mutagenicity, genotoxicity, interactions and metabolism of chemical compounds in the marine organisms (S. DE FLORA)	G	WHO OMS
7 Dipt. Protezione Ambientale (Lerici), CNEN 00198 Roma	Data collection, application and development of methods for the assessment of modifications in ecosystems (G. ZURLINI)	I	FAO
8 Faculty of Sciences Istituto di Zoologia dell'Università di Genova Via Balbi 5 16126 Genoa	Evaluation of the conditions of some Posidonia meadows in the North-Western Mediterranean sea and eventual effects of pollutants on the associated fauna (M. SARA)	I	FAO
9 C.N.R. - Istituto di Biofisica Via S. Lorenzo, 26 56100 Pisa	Biogeochemical cycle of mercury and lead in the Mediterranean area (R. FERRARA)	Relevant to monitoring Relatif à la surveillance	



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10 Gruppo Ricerca Oceanologica Istituto di Chimica Generale Università di Genova V. Benedetto XV-3, 16132 Genoa	Développement et mise au point de techniques d'échantillonnage et de techniques analytiques pour l'étude et le dosage de polluants en milieu marin (R. CAPELLI)	A	FAO
11 Dept of Environmental Risk and Assessment, Hygiene Institute of the University of Genoa V. A. Pastore 1 Genoa	Assessment of pollution load reaching coastal sea-waters, sediments and living organisms from land sources through direct measurements of pesticides and some organohalogen compounds and substances which may form such compounds in the marine environment (S. KANITZ)	Relevant to monitoring Relatif à la surveillance	
12 Istituto Studio Dinamica Grandi Masse, CNR - S. Polo 1364 30125 Venice	Modelling of circulation processes in the Northern Adriatic and their influence on the distribution of pollutants, considered as passive scalars. (P. MALANOTTE RIZZOLI)	F	IOC COI
13 Department of Biology Istituto di Zoologia V. Università 32, 00100 Roma	Effects of thermal effluent on sea-shore organisms at Torvaldaliga (Civitavecchia-Roma) (E. TARAMELLI RIVOCCHI)	J	FAO
14 Istituto di Zoologia, Facoltà di Scienze, V. dell'Università 12 - 43100 Parma	Study on the <sup>137</sup> Cs and <sup>239</sup> Pu fluxes into Mediterranean marine environment (L. TASSI PELATI)	L	IAEA AIEA

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15 Dipt. Studi Ambientali Istituto Guido Donegani Centro Ricerche Napoli V. Nuova delle Brece 150 80147 Napoli	PCB's high chlorinated in marine environment: a) Review on effects; b) Studies of persistence and bioaccumulation; c) Studies on acute and chronic toxicity on micro-organisms (R. DE SIMONE)	G	FAO
16 Water Quality Branch - CNR Istituto di Ricerca sulle acque Via Reno 1 00198 Roma	Study of factors controlling the fate and effects of some pollutants carried out from the Tiber river to the sea (T. LA NOCE)	L	IOC COI
17 Working group of Meteorology and Oceanography, Institute of Geology & Geophysics Largo S. Marcellino 10 80138 Napoli	Pollutant transport models at the air-sea interface (A. PALUMBO)	L	WMO OMM
18 Cattedra di Chimica Generale ed Inorganica, Facoltà di Farmacia c/o Istituto Dip. di Chimica Università di Catania V. le A.Doria 6, 95125 Catania	Studies and monitoring of trace metals in marine waters by inductively coupled plasma (ICP) emission spectrometry (G. C. PAPPALARDO)	A	IOC COI
19 L.E.N.A. CNR - Centro di Radiochimica e Analisi per Attivazione c/o Università di Pavia V. le Taramelli, 10 - 27100 Pavia	Nuclear methods for trace elements determination in environmental related matrices (M. GALLORINI)	A	IAEA ATEA

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20 Cattedra di Oceanografia fisica Gruppo di Ricerca Oceanologica Via Balbi, 30, Genova	Monitoring of the transport of pollutants through the atmosphere (I. DAGNINO)	L	WMO OMM
21 Institute of Marine Biology, CNR Riva 7 Martiri 1304/A Venice	Physiological and biochemical response of marine organisms to PCB pollution in a wide range of environmental factors (L. DALLA VENEZIA)	G	FAO
22 Istituto di Scienze della Terra Università di Catania Corso 55	Relations between pollution and biocoenoses in the roadstead of Augusta (Eastern Sicily) (S. DI GERONIMO)	I	FAO
23 Istituto di Fisica Università di Roma Roma	Vertical transport processes of marine water near the Italian coasts (E. SALUSTI)	F	IOC COI
24 Laboratory of Marine Biology Institute of Zoology University of Pisa Pisa	Adaption strategies of marine and brackish water polychaetes in pure and polluted waters (G. COGNETTI)	I	FAO
25 Istituto di Anatomia Comparata Università di Siena, Via delle Cerchia 3, 53100 Siena	Contaminants in resident and migratory birds of the Mediterranean basin (A. RENZONI)	K	FAO

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26 Istituto di Scienze Ambientali Marine, Gruppo Ricerca Oceanologica-Genova Universit di Genova, Via Balbi 5 16126 Genova I.	Conditions actuelles des biocoenoses benthiques du plateau ligure et des iles de l'Archipel toscan (G. ALBERTELLI)	I	FAO
27 Laboratory of General Physiology Istituto di Biologia Animale Università di Padova Via Loredan, 10 35100 Padova	Toxic effects and metabolism of heavy metals, related also to mutagenic and carcinogenic short-term tests, according to their chemical species and to the inter- actions with organic pollutants in marine waters (V. ALBERGONI)	G	FAO
28 Environmental Mutagenesis Dept. Istituto di Mutagenesi e Differenziamento del CNR Via Svezia 10, 56100 Pisa	Mutagenic and carcinogenic studies of marine pollution (G. BRONZETTI)	G	WHO OMS
29 Lab. di Igiene del Territorio Istituto Superiore di Sanita V. le Regina Elena 299 00161 Roma	Research on the hygienic conditions of coastal waters and beaches in a sample zone with reference to the density of microbial indicators and of pathogen bacteria and evaluation of sampling and control criteria and microbial pollution's impact on coastal environment (L. VILLA)	A	WHO OMS
30 Planning & Organisation of Public Health Service Faculty of Medicine University of Rome V. Regina Elena 336, Rome	Research into the toxicity, persistence, bio- accumulation and mutagenicity of hydrocarbons, detergents and some heavy metals in the sea (Tyrrhenian and Adriatic areas) (G.P. DE RENZI)	G	WHO OMS

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31 Gruppo Ricerca Oceanologica-Genova Istituto di Fisiologia Generale Università degli Studi Corso Europa 16132 Genova	Enzymic aspect of the xenobiotic-metabolizing systems in <i>Mytilus galloprovincialis</i> lam. (A. VIARENGO)	G	FAO
32 Gruppo Ricerca Oceanologica-Genova Istituto di Chimica Generale V. Benedetto XV, 3 16132 Genova	Chemistry and dynamics in the transport of heavy metals in particulate matter in Ligurian and Tyrrhenian sea (R. FRACHE)	L	IAEA AIEA
33 Osservatorio Geofisico Università di Modena V. Campi 213/A, 41100 Modena	Approximate models for the Northern Adriatic Sea and experimental checks of currents in fixed points (R. SANTANGELO)	F	IOC COI
34 Osservatorio Geofisico dell' Università Via Campi, 213/A 41100 Modena	Transfer of pollutants from the atmosphere to the Northern Adriatic Sea and to the Northern Tyrrhenian Sea (R. CECCHI)	L	WMO OMM
35 Istituto per lo Studio della Dinamica delle Grandi Masse - CNR 1364 San Polo, 30125 Venezia	Flow of pollutants (nutrients and heavy elements) into the lagoon of Venice from natural and agricultural rivers (F. COSTA)	L	IOC COI
36 Istituto di Anatomia Comparata Università di Siena Via delle Cerchia, 3, Siena	Biogeochemical cycle of mercury and selenium (A. RENZONI)	K	FAO

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37 Istituto di Chimica Generale ed Inorganica Facoltà di Chimica Industriale Calle larga, S. Marta 2137 30123 Venezia	Transport mechanism of pollutants at the sediment- water interface (A.A. ORIO)	L	IOC COI
38 Istituto di Chimica Generale CROG Università de Genova V.le Benedetto XV, 3 Genova	Determination of total mercury, methylmercury and selenium in seafood (R. CAPELLI)	D	FAO
39 Istituto di Biologica Ambientale Università di Siena Siena	Contaminants in resident and migratory birds in the Eastern Mediterranean flyway (A. RENZONI)	G	FAO
LEBANON-LIBAN 1 Centre de Recherches Marines Conseil National de la Recherche Scientifique B.P. 11-828, Beyrouth	Modifications des écosystèmes par la pollution (S. LAKKIS)	I	FAO
MALTA 1 Biology Section of the Dept of Mathematics & Science University of Malta Msida, Malta	Research on the effects of oil dispersants on marine organisms (V. AXIAK)	G	FAO

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MONACO 1 Lab. de Microbiologie et d'Etudes des Pollutions Marines Centre Scientifique de Monaco	Etude de la circulation superficielle littorale de la Côte d'Azur (aire de Monaco) et de ses relations avec la circulation générale en Mer Ligure (R. VAISSIERE)	F	IOC COI
2 Lab. de Microbiologie et d'Etudes des Pollutions Marines Centre Scientifique de Monaco	Modification des conditions écologiques dans un système côtier semi-ferm, soumis aux effets de l'activité humaine (R. VAISSIERE)	I	FAO
3 Lab. de Microbiologie et d'Etudes des Pollutions Marines Centre Scientifique de Monaco	Etude de la concentration en métaux lourds (Pb et Cd) au niveau des organes d'un crustacé benthique de l'étage bathyal (Calocaris macandrea) (R. VAISSIERE)	Relevant to monitoring Relatif à la surveillance	
4 Lab. de Microbiologie et d'Etudes des Pollutions Marines Centre Scientifique de Monaco	Evaluation des études en cours sur les flux travers les détroits et les seuils sparant les différents bassins de la Méditerranée (R. VAISSIERE)	L	IOC COI
MOROCCO-MAROC 1 Section de Génie de l'Environnement Ecole Mohammadia d'Ingénieurs Rabat	Contribution à l'étude des mécanismes de transport et du flux de polluants à travers l'interface air/mer (M. NEJJAR)	L	WMO OMM

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SPAIN-ESPAGNE 1 Quimica Analitica Instituto Quimico de Sarria c/ Instituto Quimico de Sarria Barcelona 17	Analisis de DDT's en mejillones, estudio metodologico y analisis de muestras del Delta del Ebro y de bateas para el consumo humano (M. GASSIOT-MATAS)	A	IAEA AIEA
2 Laboratorio Municipal Conselleria de Sanitat Ajuntament de Badalona c/ Marti Pujol No 86 Badalona	Evolucion de la contaminacion bacteriana de origen fecal en el litoral Badalons, a lo largo del dia y a su vez en el tiempo (F. LUCENA-GUTIERREZ)	A	WHO OMS
3 Laboratorio Municipal Conselleria de Sanitat Ajuntament de Badalona c/ Marti Pujol No 86 Badalona	Estudio exhaustivo de los hongos que se presentan en una playa contaminada; importancia relativa segun la incidencia sobre la salud. Aproximacion a un y indicador fungico (J. IZQUIERDO)	D	WHO OMS
4 Laboratorio Municipal Conselleria de Sanitat c/ Marti Pujol No 86 Badalona	Diferencias de eficacia en la recuperacion de estreptococos fecales en las temperaturas de incubacion de 37° y 44° C (F. LUCENA GUTIERREZ)	A	WHO OMS
5 Quimica Analitica Instituto Quimico de Sarria c/ Insituto Quimico de Sarria Barcelona 17	Puesta a punto de la determinacion de selenio, arsenico, plomo, cadmio y mercurio organico, en sedimentos, agua y organismos (J. OBIOLS)	A	IAEA AIEA



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TUNISIA-TUNISIE 1 Service de Biologie marine Institut Pasteur 13 Place Pasteur, BP 74 1002 Tunis Belvédère	Modification des écosystèmes par la pollution (C. CAPAPE)	I	FAO
2 Service de Bactériologie des Eaux et produits alimentaires Institut Pasteur 13 Place Pasteur, BP 74 1002 Tunis Belvédère	Etude comparative de la valeur spécifique des coliformes fécaux et des Streptocoques fécaux comme marqueurs de la pollution fécale des eaux de baignade sur le littoral tunisien (A. CHADLI)	A	WHO OMS
3 Service de Bactériologie des Eaux et des produits alimentaires Institut Pasteur 13 Place Pasteur, BP. 74 1002 Tunis Belvédère	Survie des entro-bactéries pathogènes (Salmonella), des Vibrions (NAG vibrions et vibrions parahemolyticus) et des germes marqueurs de pollution fécale (Coliformes et Streptocoques fécaux) en relation avec certains facteurs physico-chimiques (pH, température, salinité, oxygène dissous DBO <sub>5</sub> , DCO) du milieu marin (S. JEKOV)	K	WHO OMS
4 Laboratoire d'Océanographie et de pollution marine Institut National Scientifique et Technique d'Océanographie et de Pêche, Salammbô	Eutrophisation et floraisons concomitantes de plancton (M.S. HADJ ALI)	H	FAO

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TURKEY-TURQUIE			
1 Dept. of Marine Science Middle East Technical University P.K. 28 Erdemli, Icel	Oceanographic processes in the Northeastern Levantine Coastal Waters (U. UNLUATA)	F	COI IOC
2 Dept. of Marine Science Middle East Technical University P.K. 28 Erdemli, Icel	Pollutant transport processes at Goksu, Seyhan and Ceyhan River Mouths (E. OZSOY)	F	IOC COI
3 Middle East Technical University Marine Science Institute P.K. 28 Erdemli, Icel	Biogeochemical cycle of Mercury in the Northeastern Mediterranean - Southern coast of Turkey (I. SALTIOGLU)	K	FAO
4 Marine Science Dept. Middle East Technical University P.K. 28 Erdemli, Icel	Development and testing of sampling and analytical techniques for monitoring of polychloroterpenes and chlordane (I. SALTIOGLU)	A	IAEA AIEA
5 Dept. of Biological Sciences Middle East Technical University Ankara	Design and development of "Bio-Test" methods that will be used to assay the pollutants listed in the annexes of the Protocols, with respect to their toxicity residual effects, bio-degradabilities, mutagenicities and carcinogenicities (H. BAGCI)	G	FAO
6 Institute of Hydrobiology Science Faculty Ege University Bornova/Izmir	Biochemical cycles of specific pollutants. (Studies on some heavy metals (specially Mercury, Cadmium and lead) concentration of some selected indicator marine organisms from the Izmir Bay and vicinity) (H. UYSAL)	K	FAO

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7 Institute of Hydrobiology Ege University Bornova/Izmir	The effects of pollution on the benthic and pelagic ecosystems in the Bay of Izmir (A. KOCATAS)	I	FAO
8 Institute of Marine Sciences and Technology 9 Eylül University Bornova/Izmir	Elemental transfer process and eutrophication in Buyuk Menderes Delta (Great Meander Delta) and their offshore distribution, Eastern Aegean-Turkey (E. IZDAR)	H	FAO
9 Institute of Marine Sciences and Technology 9 Eylül Univ. Bornova/Izmir	Pollutant transfer process and biogeochemical cycles of specific pollutants at the selected location of Candarli Gulf, Turkey (E. IZDAR)	K	FAO
Dept. Environmental Engineering Middle East Technical University Ankara	Pollution control studies in the Mediterranean coastal waters (Turkey) (Y.F. OZTURK)	C	WHO OMS
YUGOSLAVIA-YOUGOSLAVIE 1 Dept of Chemical Oceanography Institute of Oceanography & Fisheries Split	Study and monitoring of toxic heavy metals (Zn,Cd,Pb,Cu,Hg) in sea-water, sediments and organisms in Kastela Bay (I. VUKADIN)	Relevant to monitoring Relatif à la surveillance	
2 Dept of Biology, Institute of Oceanography and Fisheries Split	Pollution-induced ecosystem modification in the coastal area of the Central Adriatic (D. REGNER)	I	FAO

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3 Dept of Biology, Institute of Oceanography and Fisheries Split	Eutrophication and concomitant plankton blooms in the coastal area of the Central Adriatic (I. MARASOVIC)	H	FAO
4 Laboratory of Marine Biology Institute of Oceanography and Fisheries, Split	Coastal water quality control in the Split area (S. SOBOT)	Relevant to monitoring Relatif à la surveillance	
5 Laboratory of Biology Institute of Oceanography and Fisheries, Split	Research on the effects of oil dispersants on marine organisms (M. TUDOR)	G	FAO
6 Dept of Physical Oceanography Institute of Oceanography and Fisheries, Split	Low-frequency current field oscillations in the coastal zone of the Central Adriatic (M. GACIC)	F	IOC COI
7 Biological Institute, Dubrovnik Institute for Oceanography and Fisheries, Split	Investigation of zooplankton communities in the Northern Adriatic Sea (A. BENOVIĆ)	I	FAO
8 Center for Marine Research Rudjer Boskovic Institute Bijenicka 54, P.O.B. 1016 41001 Zagreb	Relationships between phytoplankton blooms and dissolved organic matter in the Northern Adriatic (V. ZUTIC)	H	FAO
9 Department of Physics Centre for Marine Research Rudjer Boskovic Institute Zagreb	Development of X-ray emission spectroscopy as multi-elemental analytical techniques for monitoring marine pollutants (V. VALKOVIC)	A	IAEA AIEA

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10 Center for Marine Research Rudjer Boskovic Institute Zagreb	The role of sediments and suspended matter in the transfer of selected pollutants in the Northern Adriatic Basin (V. PRAVDIC)	L	IAEA AIEA
11 Center for Marine Research Rudjer Boskovic Institute Zagreb	Anthropogenic influence on the distribution and fluxes of lead species into the marine environment (M. BRANICA)	K	IAEA AIEA
12 Center for Marine Research Rudjer Boskovic Institute Zagreb	Development of scientific criteria for a code-of-good-practice in siting of thermal effluents in the Mediterranean Region (V. PRAVDIC)	J	FAO
13 Center for Marine Research Rudjer Boskovic Institute Zagreb	Modelling eutrophication processes in the Northern Adriatic (T. LEGOVIC)	H	FAO
14 Center for Marine Research, Rovinj; Institut fur Physiologische Chemie Mainz; and Rudjer Boskovic Institute, Zagreb	The correlation between levels and effects of mutagenic pollutants in marine environment (B. KURELEC)	A	WHO OMS
15 Center for Marine Research Rudjer Boskovic Institute Zagreb	Mathematical modelling of horizontal circulation and vertical distribution of currents in the Northern Adriatic (M. KUZMICH)	F	IOC COI

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16 Center for Marine Research Rudjer Boskovic Institute Zagreb	Improvements and testing of the methods of analysis for chlorinated and petroleum hydrocarbons in water and sediments (M. PICER)	A	FAO/IAEA FAO/AIEA
17 Center for Marine Research Rudjer Boskovic Institute Zagreb	Development of electrochemical techniques and their application in laboratory and "on board" for determination and specification of heavy trace metals in the Mediterranean (M. BRANICA)	A	IOC COI
18 Center for Marine Research Rudjer Boskovic Institute Zagreb	Development of new electroanalytical techniques for determination of surface active substances and detergents in sea-water and sea surface microlayer (B. COSOVIC)	A	IOC COI
19 Center for Marine Research Rudjer Boskovic Institute Rovinj	Monitoring of ecosystems modifications in the Northern Adriatic sea induced by eutrophication and anthropogenic activities (D. ZAVODNIK)	I	FAO
20 Center for Marine Research Rudjer Boskovic Institute Rovinj	Survival of some intestinal pathogens in the marine environment (D. FUKS)	K	WHO OMS
21 Center for Marine Research Rudjer Boskovic Institute Zagreb	Toxicity and bioaccumulation of pollutants in marine organisms (M. OZRETIC)	G	FAO

PAYS - Adresse de l'Institut COUNTRY - Address of Laboratory	Titre du Projet et nom du Chercheur Principal Title of Project and name of Principal Investigator	Activité Activity	Organisme Agency
22 Institute for Biological and Medical Investigations of SR Montenegro, Titograd;  Dept. of Marine Biology and Oceanography, Kotor; and  Institute "Boris Kidric" - Vinca, Belgrade.	Accumulation and Transport of Radionuclides in the Biota of the South Adriatic Region (N. AJDACIC)	K	IAEA AIEA
23 Institute for Biological & Medical Investigations of Sr Montenegro Titograd; and  Dept. for Marine Biology of Oceanography Kotor	Halogen containing Terpenoids and related substances in marine organisms (M. GASIC)	G	FAO
24 Institute of Biology Univ. E. Kardelj Askerceva 12 Ljubljana	Eutrophication and concomitant plankton blooms. Occurrence and development of plankton blooms in the Gulf of Trieste (the eastern part) as a possible possible consequence of pollution induced eutrophication (N. FANUKO)	H	FAO
25 Institute of Biology Univ. E. Kardelj Askerceva 12 Ljubljana	Modifications of the suspended organic matter composition and sedimentation in the polluted coastal waters (J. FAGANELI)	F	IOC COI

PAYS - Adresse de l'Institut COUNTRY - Address of Laboratory	Titre du Projet et nom du Chercheur Principal Title of Project and name of Principal Investigator	Activité Activity	Organisme Agency
26 Institute of Public Health Department of Nutrition Zagreb	The analysis of mercury and methylmercury in seafood in various parts of the Mediterranean (R. BUZINA)	D	FAO
27 Institute of Public Health Department of Nutrition Zagreb	Evaluation of methylmercury in Mediterranean populations and related health hazards (R. BUZINA)	D	WHO OMS
28 Institute J. Stefan Department of Chemistry Ljubljana	Analysis of human hair for assessing exposure and possible health hazards in Mediterranean populations due to methylmercury in seafood (L. KOSTA)	D	WHO OMS



Dépenses et engagements relatifs aux activités de recherche du MED POL pour la période 1982-1983 et engagements proposés pour la période 1984-1985 par comparaison avec les allocations autorisées

Expenditures and commitments relevant to research activities of MED POL for the 1982-1983 period and proposed commitments for 1984-1985 period compared with authorized allocations

	1982		1983		1984		1985	
	Authorized allocations	Expenditures	Authorized allocations	Proposed commitments	Authorized allocations	Proposed commitments	Authorized allocations	Proposed commitments
3. SUBCONTRACTS								
Activity A	-	(24.500) <sup>4/</sup>	42.000	38.000	-	30.000	-	30.000
B	-	-	18.000	8.000	-	16.000	-	18.000
C	-	-	36.000	8.000	-	16.000	-	18.000
D	49.000	-	41.000	90.000	-	20.000	-	30.000
E	-	-	18.000	8.000	-	16.000	-	18.000
F	14.000	-	18.000	42.800	-	16.000	-	18.000
G	39.500	11.000	18.000	63.000	-	16.000	-	18.000
H	14.000	3.000	23.000	44.000	-	20.000	-	20.000
I	24.000	6.500	10.000	32.500	-	10.000	-	15.000
J	5.000	-	10.000	15.000	-	10.000	-	10.000
K	37.500	9.500	33.000	61.000	-	20.000	-	20.000
L	67.000	13.000	33.000	86.700	-	20.000	-	30.000
Sub-total	250.000	43.000	300.000	497.000	-	210.000	-	245.000
4. MEETINGS								
Activity A	-	-	-	10.000	-	10.000	-	10.000
D	-	-	-	-	-	10.000	-	10.000
G	-	-	-	-	-	10.000	-	-
H	-	-	-	(35.000) <sup>5/</sup>	-	-	-	-
J	-	-	-	-	-	-	-	10.000
K	-	-	-	-	-	10.000	-	-
Sub-total	-	-	-	10.000	-	40.000	-	30.000
GRAND TOTAL	250.000 <sup>1/</sup>	43.000	300.000 <sup>2/</sup>	507.000 <sup>3/</sup>	250.000	250.000	275.000	275.000

1/ UNEP/IG.36/8, Annex V, paragraph 6

2/ UNEP/IG.43/6, Annex V, paragraph 3

3/ Includes unspent balance of 1982 as authorized by UNEP/IG.43/6, paragraph 71

4/ Budgeted under Chapter 3 of MAP budget

5/ Workshop on Jelly-fish blooms budgeted under Chapter 1 of MAP budget