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MEDITERRANEAN ACTION PLAN

XXVI Meeting of the Inter-Agency
Advisory Committee (IAAC) for MED POL

Athens, 8-11 December 1992

REPORT

**OF THE XXVI MEETING OF THE INTER-AGENCY
ADVISORY COMMITTEE (IAAC) FOR MED POL**

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The XXVI IAAC Meeting was held in Athens from 8 to 11 December 1992. The list of participants is attached as Annex I.

Agenda Item 1: Opening of the Meeting

1. The meeting was opened by Mr L. Jeftic who welcomed the participants on behalf of the Co-ordinator of the Mediterranean Action Plan.
2. The participants agreed that, as in the past, Mr L. Jeftic, would act as chairman and Mr F. Saverio Civili, would act as technical secretary. The list of documents prepared for the meeting appears as Annex II to this report.

Agenda Item 2: Adoption of the Agenda

3. The Agenda as adopted appears as Annex III to this Report.

Agenda item 3: Review of 1992-1993 activities

3.1. Monitoring

4. The document "Status of MED POL Monitoring agreements/reports (UNEP(OCA)/MED WG.58/Inf.3) was introduced by the secretariat. During the discussion it was agreed that the left hand side of the tables (Programme Coverage) could remain. Information for the right hand side of the table (Data Submission) would be provided by L.J. Saliba (Sources and Microbial), G. Gabrielides (Halogenated Hydrocarbons and Heavy Metals), A. Boussoulengas (Other) and A. Soudine (Atmospheric). For data submission it was agreed to use the following entries:

- a: good (71% or more of the proposed programme implemented);
- b: medium (31-70% implemented);
- c: low (1-30% implemented);
- : no data submitted
- x: data submitted but no agreement agreed upon or signed.

5. In the heading, the symbol 0 denotes other parameters such as petroleum hydrocarbons, nutrients, radioactivity, standard physical parameters, litter, etc.

6. It was agreed that all agencies would send information for amendment of the table by 31 January 1993.

7. The handling of submitted data - its acceptance, data entry, verification, scientific questioning, evaluation and cross-check with the originator country - was discussed. It was agreed that after data-entry, a printout should be given to the relevant Agency staff member for checking who, if necessary, can contact directly the MED POL national co-ordinator or Institution in the country, for queries and missing information. Agency staff not stationed in Athens will send their comments to Mr L. Jeftic.

8. Participants agreed on the need for enhancing inter-agency communication regarding the flow of data submitted, and its speedy/efficient handling.

9. The Committee noted the utilization of the new format for monitoring agreements. After a detailed discussion on the issue, it was further reviewed. In summary, agreements would be prepared in specific category chapters using a bilingual (English/French) format. Only definite and precise data would be placed in the tables, without any groups (such as biota and pollution parameter) information.

10. The following information was provided by the secretariat concerning financial support for the following monitoring programmes in 1992: Albania: US\$ 15,000; Cyprus: US\$ 15,000; Egypt: US\$ 30,000 (if possible US\$ 40,000); Israel: US\$ 43,000 (of which US\$ 13,000 through WMO); Lebanon: US\$ 15,000; Morocco: US\$ 25,000 (will increase to US\$ 40,000); Syria: US\$ 25,000 and Tunisia: US\$ 25,000.

3.2. Pilot monitoring exercises

11. The FAO representative informed the Committee that the pilot monitoring exercise on herbicides was completed and that the one on fungicides would be initiated in 1993 if funds became available. The Contracting Parties meeting (Cairo, October 1991) had decided that the pilot survey on item I Annex II substances should be initiated only if unused MED POL funds were available.

12. The WHO representative informed the Committee that the pilot monitoring exercise on anionic detergents was proceeding satisfactorily, and would be completed by 31 December 1992. Preliminary preparation for a similar exercise on cyanides and fluorides were in hand.

3.3. Data quality assurance, intercalibration and maintenance

13. The 5th Training Course and Intercalibration exercise on microbiological methods was held from 2 to 7 November 1992, in English, at the Athens School of Hygiene. The next exercise was scheduled for late 1993 in French (no venue finalized yet).

14. Reference materials were now being developed in the microbiological field, and the possibility of an initial inter-laboratory exercise in 1993 was being considered.

15. An intensive training programme was performed during 1992 by IAEA/MEL. Three training courses were organized at IAEA/MEL laboratories: Trace Metals, (7 trainees), trace organic contaminants (6 trainees) and for the first time training on methyl and total mercury (6 trainees). Additionally, on-job training was organized in Alexandria, Egypt, with participants from all three local laboratories participating in MED POL monitoring.

16. Regular intercalibration exercises were also organized by IAEA/MEL. Results received for the intercalibration exercise for organochlorine compounds and petroleum hydrocarbons in reference sediment IAEA-357 were evaluated. A UNEP/IOC Report (No.51) "World-Wide and Regional Intercomparison for the Determination of Organochlorine compounds and Petroleum Hydrocarbons in Sediment IAEA-357" has been issued. A total of 32 laboratories eventually participated in this exercise of which 12 were participants in the MED POL monitoring programme.

17. Results for trace metal intercomparison exercise using "polluted" sediment sample IAEA-356 (Venice lagoon sediment) had been received from all Laboratories, and the report is due by the end of February 1993.

18. In addition to the two extensive intercalibration exercises mentioned above, intercalibration on herbicides and methyl mercury was organized during 1992. Complete results had not been received as yet.

19. Participation of MED POL laboratories in intercalibration exercises was very important, since it permitted the identification of laboratories facing continued difficulties in obtaining accurate and precise data and also showed which achieved significant improvements. Participants at the meeting expressed the view that a report on participation and performance of MED POL laboratories in intercalibration exercises over the period of years was needed. Therefore IAEA/MESL would produce a report relating to "achievements and future perspectives" in which observations relating to the performance of laboratories in the intercalibration exercises within MED POL Member States would be discussed.

20. The Committee noted the need for a regular feedback from IAEA/MEL to all co-operating Agencies on the Mediterranean institutes participating in the intercalibration exercises, and submitting the required results.

21. In conjunction with GESREM (the IOC/IAEA/UNEP Groups of Experts on Standards and Reference Materials) a new bivalve reference material was produced (GESREM I) and new are in preparation (GESREM II and III). GESREM activity in this field is extremely important since it provides Reference Materials available free of charge to laboratories in developing countries.

22. In 1992 instrument installation was performed in countries to which new instruments were supplied through METAP Programme. AAS (Spectraa 10, Varian) was installed in Slovenia and Egypt, and GC, (HP 5890 Ser.II) in Croatia and Albania. Maintenance (including spare parts supply) was performed in Croatia and Slovenia and an operator training was organized in Egypt and Monaco.

3.4. Reporting forms

23. The document "Status of preparation of data reporting forms" (UNEP(OCA)/MED WG.58/Inf.4) was introduced by the secretariat. After detailed discussion it was agreed to use the forms contained in the Data Transfer Formats as reporting formats. However, the Agencies are to check and verify these forms, and also submit all the available information regarding the missing formats by 31 January 1993 so that a revised version of this document can be published by 15 March 1993. It was further agreed not to prepare any format for standard physical and chemical parameters, as these parameters are already included appropriately in the relevant marine pollution formats. Annex IV lists the available data transfer formats and those to be completed.

3.5 Reference methods

24. Participants were informed on the large amount of data submitted lacking information on the methods employed in the analysis. It was agreed that this would be communicated to the countries and required to be submitted. The list of standard reference methods employed in MED POL is available in CODES manual (see also 3.6). In the case of methods other than the ones employed, a description would be required from the countries.

25. L. Jeftic introduced the document "Parameters for the MED POL Monitoring Programme and Status of related Reference Methods"(UNEP(OCA)/MED WG.58/Inf.5). Relevant agencies would submit information by 31 January 1993 to enable the provision of an amended list.

3.6 Data processing

26. The participants were briefed on the tasks carried out since last IAAC meeting:

- Completion of all data entry/verification of microbial data and HM/HH in biota, plankton, suspended matter, and sediment; and monitoring agreements (see Annex V for the status summary);
- Publication of CODES and DATA TRANSFER FORMATS volumes;
- Transfer of data on HM/HH in biota to the consultant, and the trend analysis study on these data;
- Analysis of the quality of the bathing waters through the consultant prepared program;
- Presentation of MED POL monitoring agreements and reported data through mapping facilities.

27. Participants were informed on the employment of a full-time data-entry operator during July 1992 - December 1992 period, due to the large backlog of data, and increased workload of the data processing. It was further stressed that without such an assistance in 1993, it would be very unlikely for the data processing to accomplish the expected workload.

28. The participants expressed satisfaction with the achievements of the data processing, and the establishment of computerization principles at MEDU. The Committee agreed that it was time to pass to the next stage, i.e. the efforts on the refining and the analysis of the computerized data by the Agencies and consultants. It was further agreed that technical expertise acquired over the years regarding the computerization of marine pollution data would be channelled to the developing Mediterranean countries.

29. The participants stressed the continuation of information exchange and technical cooperation with the countries such as France, Spain, and Italy; and also with other organizations carrying out similar activities.

30. The committee agreed to pass to Data Processing all available products and information regarding the marine pollution data analysis and presentation for the purpose of producing acceptable output on the computerized inventories.

31. The codes employed in MED POL data computerization were reviewed by participants.

32. The document on "Data Transfer Formats" was introduced and it was agreed to distribute it for use as reporting forms after its detailed review by the agencies. A few missing formats were also to be added.

33. The workplan for data processing for 1993 was set as follows:

- Continuation of the entry of monitoring agreements and reported data of already established databases;
- Computerization and completion of entry of the other marine pollution data as prioritized by the Committee;
- Revision, publication, and dissemination of "Codes" (31 January 1993) and "Data Transfer Formats" (15 March 1993) volumes as reviewed and commented by the agencies;
- Continuation of the development of products for analysis and presentation.

34. At the request of the World Bank, country profiles on marine pollution would be prepared for following countries: a) Egypt, Cyprus, Slovenia, Croatia, Tunisia; b) Algeria, Morocco; c) Turkey. Draft profiles will be prepared by MEDU with IAEA/MEL as the leading Agency for Egypt and Slovenia. All agencies would send relevant information and relevant sections of the report. First documentation on Egypt would be finalized by 14 December 1992. A revised version for Egypt and documents for Cyprus, Slovenia, Croatia, Tunisia, Algeria and Morocco would be provided by end of February 1993.

3.7 Review of meetings/training workshops

35. L. Jeftic introduced document "List of MED POL Meetings 1992-1993 (UNEP(OCA)/MED WG.58/Inf.6). The document was revised on the basis of inputs of all participants and the revised version appears as Annex VI to this report.

3.8 Review of LBS implementation

36. L. Jeftic introduced the document "Workplan for LBS implementation (1985-1995) Indicative Workplan and timetable for the formulation of programme and measures in terms of Articles 4, 5, 6, 7 and 13 of the LBS Protocol from 1988 to 1995" (based on the calendar adopted by the Contracting Parties in 1985)(UNEP(OCA)/MED WG.58/Inf.7).

37. The list was reviewed by participants and the revised version appears as Annex VII to this report.

3.9 Research projects

38. L. Jeftic introduced the document "Research Projects" (UNEP(OCA)/MED WG.58/Inf.8). A number of errors were indicated by the participants. In order to clarify the meaning of the term "Completed", the meeting agreed that a research project would be regarded as "Ongoing" only up to the end of the calendar year in which the final grant was allocated. It was also agreed that all agencies would submit their corrections and new information at the latest by 31 January 1993. Research proposals which were received after the presentation of the list were distributed to responsible agencies.

3.10 MAP Technical Reports Series

39. L. Jeftic introduced "MAP Technical Report Series Volumes" (as approved at IAAC XXV, December 1991)(UNEP(OCA)/MED WG.58/Inf.9).

40. The list of MAP Technical Reports which were planned to be published in 1993 was prepared and appears as Annex VIII to this report.

3.11 Climatic changes

41. L. Jeftic informed the participants on the following developments:

- the book "Implications of climatic changes on the Mediterranean region", published by Arnolds Publications would be issued on 18 December 1992.
- the volume on the second generation of case studies (Island of Rhodes, Kastela Bay, Island of Malta, Cres/Losinj Islands, Syrian coast) was being edited by J. Pernetta and would be published by March 1993.
- the third generation of case studies (Albania coast, Fuka-Matruh region, Sfax region) would be initiated in 1993.
- "Regional Changes in Climate in the Mediterranean Basin due to Global Greenhouse Gas Warming" was published as MAP Technical Report Series No. 66.

3.12 Coastal Areas Management Programmes (CAMPS)

42. L. Jeftic informed participants on the completion of the first generation of CAMPS (Island of Rhodes, Kastela Bay, Izmir Bay, Syrian coast), and the development of the second generation of CAMPS (Albania coast, Fuka Matruh region and Sfax region) and the third generation of CAMPS (Algeria and Morocco).

Agenda item 4: Proposals for 1994-1995 activities including budget

4.1 to 4.11

43. The above items were discussed in conjunction with items 4.12 and also Agenda item 5. The results are reflected in the programme budget proposed (see paragraph 46). It was decided to prepare an outline of a transition period from Phase II to the new phase after the next STC meeting in 1993.

44. The FAO representative informed the Group that, following a request from the Mediterranean scientific community expressed repeatedly at several meetings, to initiate biological effects monitoring in parallel with the chemical monitoring a pilot monitoring programme was prepared which could be initiated in 1993. He proposed a relevant budget line to assist laboratories, especially those from the south, to participate in such an exercise. The decision is reflected in the programme and budget prepared for 1994-95 (Agenda item 4.12).

4.12 Draft budget for the biennium 1994-1995

45. L. Jeftic explained the basic assumptions for the preparation of the proposal of the programme budget for the biennium 1994-1995, i.e. the budget proposal for the biennium would be 10% above the approved budget for 1992-1993.

46. Detailed discussion followed and the budget proposal as adopted appears as Annex IX to this report.

4.13 Coast Areas Management Programmes (CAMP)

47. Plans for the implementation of CAMP Programmes for 1994-1995 were discussed under Agenda item 3.12.

4.14 Nicosia Charter

48. Mr L. Jeftic informed participants about the developments concerning the implementation of the Nicosia Charter and the Cairo declaration. On 7 and 8 December meeting was held in Brussels on the co-ordinating mechanisms of the implementation of the Nicosia Charter activities which, for an initial period, would be held in Albania, Egypt, Malta and Tunisia.

4.15 Agenda 21 of Rio Meeting

49. Mr Jeftic briefed the meeting on developments regarding Agenda 21 of the June 1992 Rio Conference. A Mediterranean Regional Meeting was scheduled to be held in Malta from 11 to 13 February 1993. The meeting agreed (a) that it was advisable for all UN Agencies participating in MED POL to be invited to this meeting and (b) that copies of all the chapters of Agenda 21 should be made available. The meeting also noted that a number of recommendations made in Rio as part of Agenda 21 were already being implemented within the framework of MED POL, in some cases for a long time.

Agenda item 5: Preparation of the new phase of MED POL Programme

50. Participants discussed in detail ideas and ways of the preparation of the third phase of the MED POL Programme. Current actions were reviewed such as the consultation meeting on Israeli Monitoring Programme (Haifa, 21-23 December 1992), the planned consultation meeting on Croatian Monitoring Programme (March 1993), the independent evaluation of the MED POL Programme to be finalized by March 1993 and other activities.

51. It was agreed that general and specific objectives of the MED POL - Phase III (1996-2005) should be prepared for, and proposed to, the Joint Scientific/Technical and Socio-Economic Committee (Athens, 3-7 May 1993).

52. A Preliminary draft of the general objectives as agreed to in principle by the meeting, is attached to this report as Annex X.

53. A comprehensive discussion followed on specific objectives, some examples of which appear in Annex X. The view was, however, expressed that before deciding on the specific objectives a structure of the new phase of the MED POL Programme should be proposed on which the specific objectives would be based. It was also pointed out that the structure would have to take into account the tentative achievements expected by the end of MED POL Phase II.

54. It was agreed that Agencies willing to contribute to these ideas should communicate their input to MEDU by 20 January 1993 copying their input to all other Agencies.

Agenda item 6: Other business

55. No other business was raised by the participants.

Agenda item 7: Adoption of the report

56. The draft report of the XXVI IAAC Meeting was adopted on Friday 11 December 1992 at 13:00 hours.

Agenda item 8: Closure of the meeting

57. The Co-ordinator of MAP in his closing remarks thanked the participants for the continued support to the implementation of MED POL and recalled the forthcoming events which he considered very important for the future of the MED POL activities, i.e. the evaluation of the MED POL Programme which will start with a "brainstorming" meeting to be held in Athens, 7-8 January 1993, and the Agenda 21 Meeting to be held in Malta, 11-13 February 1993.

ANNEX I

LIST OF PARTICIPANTS

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ANNEX II

LIST OF DOCUMENTS

UNEP(OCA)/MED WG.58/Inf.1	List of participants
UNEP(OCA)/MED WG.58/Inf.2	Draft Agenda
UNEP(OCA)/MED WG.58/Inf.3	Status of MED POL Monitoring Agreements/Reports as of December 1992
UNEP(OCA)/MED WG.58/Inf.4	Status of Preparation of Data Reporting Forms (as approved at IAAC XXV, December 1991)
UNEP(OCA)/MED WG.58/Inf.5	Parameters for the MED POL Monitoring Programme and Status of related Reference Methods
UNEP(OCA)/MED WG.58/Inf.6	MED POL Meetings 1992-1993
UNEP(OCA)/MED WG.58/Inf.7	Workplan for LBS Implementation (1985- 1995) Indicative Workplan and timetable for the formulation of programme and measures in terms of Articles 4, 5, 6, 7 and 13 of the LBS Protocol from 1988 to 1995 (based on the calendar adopted by the Contracting Parties in 1985) (as approved at IAAC XXV, December 1991)
UNEP(OCA)/MED WG.58/Inf.8	Research Projects
UNEP(OCA)/MED WG.58/Inf.9	MAP Technical Report Series Volumes (as approved at IAAC XXV, December 1991)

ANNEX III

AGENDA

1. Opening of the meeting
2. Adoption of the Agenda
3. Review of 1992-1993 activities
 - 3.1. Monitoring
 - 3.2. Pilot monitoring exercises
 - 3.3. Data quality assurance, intercalibration and maintenance
 - 3.4. Reporting forms
 - 3.5. Reference methods
 - 3.6. Data processing
 - 3.7. Review of meetings/training workshops
 - 3.8. Review of LBS implementation
 - 3.9. Research projects
 - 3.10. MAP Technical Reports Series
 - 3.11. Climatic changes
 - 3.12. Coastal Areas Management Programmes (CAMP)
4. Proposals for 1994-1995 activities including budget
 - 4.1. Monitoring
 - 4.2. Pilot monitoring exercises
 - 4.3. Data quality assurance, intercalibration and maintenance
 - 4.4. Reporting forms
 - 4.5. Reference methods
 - 4.6. Data processing
 - 4.7. Meetings/training workshops
 - 4.8. LBS implementation
 - 4.9. Research projects
 - 4.10. MAP Technical Reports Series
 - 4.11. Climatic changes
 - 4.12. Draft budget for the biennium 1994-1995
 - 4.13. Coastal Areas Management Programmes (CAMP)
 - 4.14. Nicosia Charter
 - 4.15. Agenda 21 of Rio Meeting
5. Preparation of the new phase of MED POL programme
6. Other business
7. Adoption of the report
8. Closure of the meeting

ANNEX IV

LIST OF DATA REPORTING FORMS

Air (to be reviewed)

Biota (excluding plankton)

Halogenated Hydrocarbons
Heavy Metals
Micro-Organisms
Petroleum Hydrocarbons

Effluent

Plankton

Halogenated Hydrocarbons
Heavy Metals

Precipitation (to be reviewed)

Sea Shore

Litter
Micro-Organisms (to be prepared)
Tar Balls

Sea Water

Halogenated Hydrocarbons
Heavy Metals
Litter
Micro-Organisms
Nutrients
Oil Slicks
Petroleum Hydrocarbons
Radionuclides (to be prepared)
Tar Balls

Sediment

Halogenated Hydrocarbons
Heavy Metals
Micro-Organisms
Petroleum Hydrocarbons (to be prepared)

Suspended Matter

Halogenated Hydrocarbons
Heavy Metals
Petroleum Hydrocarbons (to be prepared)

ANNEX V

COMPUTERIZED MED POL DATA

- Micro-organisms in Sea Water

- Heavy Metals in Biota
- Heavy Metals in Plankton
- Heavy Metals in Sediments
- Heavy Metals in Suspended Matter

- Halogenated Hydrocarbons in Biota
- Halogenated Hydrocarbons in Plankton
- Halogenated Hydrocarbons in Sediments
- Halogenated Hydrocarbons in Suspended Matter

Please note that in the following tables, "COUNTRY" denotes the MED POL country codes, "STATIONS AGREED" denotes the subsystem parameter related stations listed in the Monitoring Agreement, and "STATIONS REPORTED" denotes how many stations (whether in Monitoring Agreement or not) submitted data. Years before 1982 represent Phase I data.

COMPUTERIZED DATA OF MICRO-ORGANISMS IN SEA WATER
(as of 8.Dec.1992)

COUNTRY	YEAR	STATIONS AGREED	STATIONS REPORTED	SAMPLES REPORTED	DATA REPORTED
ALB	91	9			
ALB	92		44	180	180
ALG	84	5			
ALG	86	49	19	30	90
ALG	87	49	20	30	52
ALG	88	49	16	37	51
ALG	89	37	23	48	102
ALG	90		15	83	231
CYP			1	2	2
CYP	84	145			
CYP	85	145	145	1127	1127
CYP	86	144	145	1787	1787
CYP	87	145	145	1829	1829
CYP	88	145	136	2008	2008
CYP	89	145	135	2142	2142
CYP	90	137	135	2095	2090
CYP	91	136			
EGY	86	14			
EGY	89	15	14	14	14
EGY	90	15	14	36	36
EGY	91	15	11	11	11
FRA	85		2	8	24
GRE	88	29			
GRE	89	22			
ISR	83	67	66	798	953
ISR	84	67	55	911	1281
ISR	85	67	49	564	564
ISR	86	67	54	815	815
ISR	87	67	57	775	775
ISR	88	67	50	809	933
ISR	89	67	52	699	746
ISR	90	68	57	1000	1177
ISR	91	96	70	1505	3131
ITA	87		30	121	360
ITA	88		66	264	792
ITA	89		37	176	560
LEB	83	9			
LEB	84		8	69	69
LEB	85	10	7	54	54
LEB	86	7	8	55	55
LEB	87	7	8	66	66
LEB	88	7	8	49	49
LEB	89	7	8	15	15
LEB	91	7			

COUNTRY	YEAR	STATIONS AGREED	STATIONS REPORTED	SAMPLES REPORTED	DATA REPORTED
LIY	86	8			
MAT	83		7	15	45
MAT	84	7	7	46	138
MAT	85	7	7	65	195
MAT	86	12	12	93	275
MAT	87	12	11	79	237
MAT	88	12	11	88	264
MAT	89	12	11	71	213
MAT	90	12	11	50	150
MAT	91	14	15	149	447
MOR	83		2	13	39
MOR	84	38	2	18	53
MOR	85		2	22	66
MOR	86	17	2	15	45
MOR	87	17	2	19	56
MOR	88	17	8	34	101
MOR	89		21	162	222
MOR	90		24	183	389
SPA	88		34	55	55
SPA	90		44	262	262
SPA	91		30	102	102
SYR	86	6			
SYR	87	6			
SYR	88	6			
SYR	89	52			
SYR	90	52			
SYR	91	52	32	264	290
TUN	89		12	619	1854
TUN	90	13			
TUN	91	13			
TUR	83		15	22	22
TUR	84		18	82	82
TUR	85		18	118	118
YUG	83	63	51	528	530
YUG	84	90	95	927	931
YUG	85	105	118	1107	1107
YUG	86	110	112	1107	1161
YUG	87	110	118	1129	1203
YUG	88	127	138	1337	1506
YUG	89	115	140	1278	1393
YUG	90	124	120	1303	1385
YUG	91	125			

TOTAL STATIONS AGREED

 3491

TOTAL STATIONS REPORTED

 2960

TOTAL SAMPLES REPORTED

31574

TOTAL DATA REPORTED

39107

COMPUTERIZED DATA OF HEAVY METALS IN BIOTA
(as of 8.Dec.1992)

COUNTRY	YEAR	STATIONS AGREED	STATIONS REPORTED	SAMPLES REPORTED	DATA REPORTED
ALB	91	12			
ALG	76		2	38	68
ALG	77		3	240	333
ALG	78		2	213	321
ALG	79		5	172	288
ALG	80		5	52	121
ALG	84	5			
ALG	85		6	24	107
ALG	86	17	3	20	100
ALG	87	15			
ALG	88	17			
CYP	79		1	1	2
CYP	83	5	5	5	10
CYP	84	2			
CYP	86		3	5	10
CYP	87		3	5	10
EGY	80		5	37	61
EGY	86	2			
EGY	89	7			
EGY	90	7			
EGY	91	7			
FRA	77		23	145	294
FRA	78		11	34	102
FRA	79		42	295	682
GRE	75		17	44	120
GRE	76		35	112	295
GRE	77		28	123	349
GRE	78		28	126	505
GRE	79		31	99	377
GRE	80		14	26	74
GRE	85		2	8	44
GRE	86		5	87	465
GRE	87		9	355	1761
GRE	88	28	4	189	924
GRE	89	14	3	130	634
ISR	74		3	47	47
ISR	75		5	32	52
ISR	76		11	38	189
ISR	77		13	182	224
ISR	78		6	173	219
ISR	79		9	290	290
ISR	82		11	51	56
ISR	83	14	12	56	106
ISR	84	14	14	169	292
ISR	85	14	14	253	791
ISR	86	14	11	255	1188
ISR	87	14	14	261	1450
ISR	88	56	14	206	1236
ISR	89	31	17	138	826

COUNTRY	YEAR	STATIONS AGREED	STATIONS REPORTED	SAMPLES REPORTED	DATA REPORTED
ISR	90	28	12	112	776
ISR	91	29	13	197	1306
ITA	75		4	16	16
ITA	76		30	524	1190
ITA	77		53	718	2930
ITA	78		53	510	1853
ITA	79		59	345	1254
ITA	80		3	23	114
ITA	87		4	16	32
ITA	88		8	32	64
ITA	89		4	16	32
LEB	83	1			
LEB	84		1	24	48
LEB	85	1	2	42	84
LEB	86	1	1	12	24
LEB	87	1	2	24	48
LEB	88	1	2	84	168
LEB	89	1			
LEB	91	1			
LIY	86	5			
MAT	76		1	10	35
MAT	77		1	3	16
MAT	78		2	7	41
MAT	79		2	2	10
MAT	84	7	7	22	110
MAT	85	7	7	13	65
MAT	86	4	2	16	67
MAT	87	4	4	10	50
MAT	88	4	5	12	44
MAT	89	4	4	10	50
MAT	90	4	4	8	40
MOR	77		1	1	2
MOR	78		2	3	7
MOR	79		1	2	4
MOR	80		11	16	43
MOR	83		3	9	18
MOR	84	6	13	15	18
MOR	85		4	10	10
MOR	86	14	1	1	3
MOR	87	14	3	15	45
MOR	88	15	4	16	32
SPA	78		7	9	18
SPA	79		11	19	46
SPA	80		1	6	42
SPA	82		28	46	184
SPA	83		64	116	420
SPA	84		39	194	721
SPA	85		131	187	700
SPA	87	21			
SPA	88		30	111	387
SPA	89		42	203	702
SPA	90		28	253	1021
SPA	91		26	189	711

COUNTRY	YEAR	STATIONS AGREED	STATIONS REPORTED	SAMPLES REPORTED	DATA REPORTED
SYR	86	4			
SYR	87	4			
SYR	88	4			
SYR	89	5			
SYR	90	5	1	12	48
SYR	91	5	1	41	162
TUN	78		1	3	3
TUN	79		6	16	16
TUN	89	2			
TUN	90	20	6	7	21
TUN	91	4			
TUR	76		1	6	15
TUR	77		16	121	522
TUR	78		7	125	594
TUR	79		2	35	118
TUR	84		1	16	16
TUR	85		1	3	3
YUG	77		17	68	193
YUG	78		17	32	105
YUG	79		20	37	96
YUG	83	32	20	25	71
YUG	84	48	26	88	325
YUG	85	42	28	66	215
YUG	86	45	28	73	192
YUG	87	45	28	66	146
YUG	88	45	27	76	212
YUG	89	42	24	53	123
YUG	90	33	17	67	142
YUG	91	32			

TOTAL STATIONS AGREED

 885

TOTAL STATIONS REPORTED

 1484

TOTAL SAMPLES REPORTED

 10001

TOTAL DATA REPORTED

 33962

COMPUTERIZED DATA OF HEAVY METALS IN PLANKTON
(as of 8.Dec.1992)

COUNTRY	YEAR	STATIONS AGREED	STATIONS REPORTED	SAMPLES REPORTED	DATA REPORTED
GRE	86		2	2	12
GRE	87		3	7	34
GRE	88		3	3	14
GRE	89		3	6	30
YUG	83	5			
YUG	84		5	5	25
YUG	85		7	16	57
YUG	86		5	9	45
YUG	88		7	7	48
YUG	89		5	5	

TOTAL STATIONS AGREED

5

TOTAL STATIONS REPORTED

40

TOTAL SAMPLES REPORTED

60

TOTAL DATA REPORTED

265

**COMPUTERIZED DATA OF HEAVY METALS IN SEDIMENTS
(as of 8.Dec.1992)**

COUNTRY	YEAR	STATIONS AGREED	STATIONS REPORTED	SAMPLES REPORTED	DATA REPORTED
ALB	91	24			
ALG	84	5			
ALG	86	17			100
ALG	87	17			
ALG	88	17			
CYP	83	6			10
CYP	84	32			
CYP	85	32			
CYP	86	32			10
CYP	87	32			10
CYP	88	36			
CYP	89	14			
CYP	90	14			
CYP	91	7			
EGY	89	5			
EGY	90	5			
EGY	91	5			
GRE	88	16			924
GRE	89	5			634
ISR	82		12	12	56
ISR	83	14	12	12	106
ISR	84	14	11	21	292
ISR	85	14	12	23	791
ISR	86	14	11	22	1188
ISR	87	14	13	26	1450
ISR	88	56	13	24	1236
ISR	89	30	34	46	826
ISR	90	28	27	28	776
ISR	91	29	15	16	1306
LEB	83	1			
LEB	85	1			84
LEB	86	1			24
LEB	87	1	6	16	48
LEB	88	1			168
LEB	89	1			
LEB	91	1			
MAT	84	7	6	12	110
MAT	85	7			65
MAT	86	4	5	13	67
MAT	87	4	4	8	50
MAT	88	4	5	12	44
MAT	89	4	3	5	50
MAT	90	4			40
MAT	91	5			
MOR	84	8			18
MOR	88	1	5	9	32

COUNTRY	YEAR	STATIONS AGREED	STATIONS REPORTED	SAMPLES REPORTED	DATA REPORTED
TUN	89	12			
TUN	90	20			21
TUN	91	4			
YUG	83	27	15	25	71
YUG	84	49	27	55	325
YUG	85	44	32	41	215
YUG	86	47	31	37	192
YUG	87	47	28	37	146
YUG	88	54	6	6	212
YUG	89	49			123
YUG	90	34			142
YUG	91	36			

TOTAL STATIONS AGREED

1012

TOTAL STATIONS REPORTED

333

TOTAL SAMPLES REPORTED

506

TOTAL DATA REPORTED

729

**COMPUTERIZED DATA OF HEAVY METALS IN SUSPENDED MATTER
 (as of 8.Dec.1992)**

COUNTRY	YEAR	STATIONS AGREED	STATIONS REPORTED	SAMPLES REPORTED	DATA REPORTED
GRE	88	3			
MOR	84	3			
TUR	83		29	52	114
TUR	84		31	76	120
TUR	85		27	39	46
YUG	83	3	2	2	4
YUG	84	6	3	3	6
YUG	85	6	6	48	96
YUG	86	10	6	48	96
YUG	87	10	6	44	311
YUG	88	10	6	48	432
YUG	89	10	7	32	288
YUG	90	4	1	9	81
YUG	91	3			

TOTAL STATIONS AGREED

 68

TOTAL STATIONS REPORTED

 124

TOTAL SAMPLES REPORTED

 401

TOTAL DATA REPORTED

 1594

COMPUTERIZED DATA OF HALOGENATED HYDROCARBONS IN BIOTA
(as of 8.Dec.1992)

COUNTRY	YEAR	STATIONS AGREED	STATIONS REPORTED	SAMPLES REPORTED	DATA REPORTED
ALB	91	12			
ALG	85		1	1	4
ALG	86		3	3	22
CYP	80		2	4	19
CYP	83	5	5	5	38
CYP	84	2	1	1	9
CYP	85		1	1	9
CYP	86		3	5	38
CYP	87		3	5	50
CYP	88		5	5	53
CYP	89		5	5	65
CYP	90		2	3	48
EGY	86	2			
EGY	89	7			
EGY	90	7			
EGY	91	7			
FRA	77		19	94	343
FRA	78		10	22	72
FRA	79		26	86	344
GRE	75		9	16	84
GRE	76		18	65	327
GRE	77		13	38	169
GRE	78		11	64	283
GRE	79		8	41	205
GRE	86		3	5	55
GRE	87		6	10	110
GRE	88		6	16	198
GRE	89		1	1	11
ISR	75		4	6	48
ISR	76		12	29	231
ISR	77		9	69	548
ISR	78		1	2	16
ISR	79		8	35	243
ITA	75		1	1	8
ITA	76		6	22	172
ITA	77		5	34	272
ITA	78		15	122	640
ITA	79		15	85	714
ITA	87		4	16	207
ITA	88		8	28	320
ITA	89		4	16	176
LEB	83	1			
LEB	84		1	5	20
LEB	85	1			
LEB	86	1	2	12	39
LEB	87	1	2	4	16

COUNTRY	YEAR	STATIONS AGREED	STATIONS REPORTED	SAMPLES REPORTED	DATA REPORTED
LEB	88	1	2	10	36
LEB	89	1			
LEB	91	1			
MAT	83		1	1	2
MAT	84	7	3	17	34
MAT	85	7	4	10	20
MAT	86	4	2	9	36
MAT	87	4	4	10	40
MAT	88	4	5	8	32
MAT	89	4	4	9	36
MAT	90	4	3	4	16
MOR	77		4	6	23
MOR	78		4	7	28
MOR	80		6	13	52
MOR	84	6			
MOR	86	4			
MOR	87	4	7	7	63
MOR	88	9			
SPA	79		5	7	21
SPA	80		1	1	3
SPA	82		24	39	145
SPA	83		15	15	71
SPA	84		59	199	766
SPA	85		180	284	1578
SPA	86		1	1	4
SPA	88		30	108	430
SPA	89		42	181	573
SPA	90		28	253	987
SPA	91		26	188	584
SYR	89	3			
SYR	90	3			
SYR	91	3			
TUN	90	18			
TUR	75		1	1	3
TUR	76		1	6	30
TUR	77		10	132	171
TUR	78		3	77	204
TUR	79		1	5	19
TUR	84		1	5	5
TUR	85		1	5	5
YUG	76		7	30	150
YUG	77		25	154	769
YUG	78		17	46	228
YUG	79		17	39	211
YUG	80		9	19	104
YUG	82		1	2	18
YUG	83	28	7	11	94
YUG	84	32	12	39	175
YUG	85	17	13	35	167
YUG	86	19	8	26	111
YUG	87	19	13	34	132
YUG	88	22	15	49	218

COUNTRY	YEAR	STATIONS AGREED	STATIONS REPORTED	SAMPLES REPORTED	DATA REPORTED
YUG	89	16	18	41	178
YUG	90	21	17	56	265

TOTAL STATIONS AGREED

307

TOTAL STATIONS REPORTED

915

TOTAL SAMPLES REPORTED

3181

TOTAL DATA REPORTED

15063

**COMPUTERIZED DATA OF HALOGENATED HYDROCARBONS IN PLANKTON
 (as of 8.Dec.1992)**

COUNTRY	YEAR	STATIONS AGREED	STATIONS REPORTED	SAMPLES REPORTED	DATA REPORTED
FRA	77		3	4	16
YUG	76		2	3	15
YUG	77		4	21	104
YUG	78		2	4	20
YUG	79		1	1	5
YUG	80		1	1	5
YUG	83	5	2	2	6
YUG	84		2	2	6
YUG	85		2	8	24
YUG	86		2	2	6
YUG	87		2	2	6

TOTAL STATIONS AGREED

 5

TOTAL STATIONS REPORTED

 23

TOTAL SAMPLES REPORTED

 50

TOTAL DATA REPORTED

 213

COMPUTERIZED DATA OF HALOGENATED HYDROCARBONS IN SEDIMENTS
(as of 8.Dec.1992)

COUNTRY	YEAR	STATIONS AGREED	STATIONS REPORTED	SAMPLES REPORTED	DATA REPORTED
ALB	91	24			
CYP	83	3			
CYP	84	32	8	8	29
CYP	85	32	6	6	36
CYP	86	32			
CYP	87	32			
CYP	88	32			
CYP	89	14			
CYP	90	14			
EGY	88		9	9	101
EGY	89	5			
EGY	90	5			
EGY	91	3			
GRE	88	16			
LEB	83	1			
LEB	85	1			
LEB	86	1			
LEB	87	1			
LEB	88	1			
LEB	89	1			
LEB	91	1			
MAT	89	1			
MAT	91	5			
MOR	84	9			
MOR	87		5	5	45
MOR	88	1	5	5	35
TUN	90	18			
TUN	91	6			
YUG	82		2	2	12
YUG	83	19	9	9	60
YUG	84	35	13	16	67
YUG	85	24	21	21	67
YUG	86	24	12	12	29
YUG	87	24	15	15	42
YUG	88	26	24	24	62
YUG	89	21	23	24	90
YUG	90	24	12	12	54

TOTAL STATIONS AGREED

488

TOTAL STATIONS REPORTED

164

TOTAL SAMPLES REPORTED

168

TOTAL DATA REPORTED

729

**COMPUTERIZED DATA OF HALOGENATED HYDROCARBONS IN
 SUSPENDED MATTER
 (as of 8.Dec.1992)**

COUNTRY	YEAR	STATIONS AGREED	STATIONS REPORTED	SAMPLES REPORTED	DATA REPORTED
MOR	84	4			
YUG	83	2	2	2	16
YUG	84	2			
TOTAL STATIONS AGREED		8			
TOTAL STATIONS REPORTED		2			
TOTAL SAMPLES REPORTED		2			
TOTAL DATA REPORTED		16			

ANNEX VI

1992-1993 MED POL MEETINGS

ANNEX VI

1992 MED POL MEETINGS

Meeting	Place	Date	Responsible Agency	No. of Partic.	Report issued by	Report Code	Amount Alloc.
1. Second Meeting of the Task Team on the Implications of Climatic Changes on the Kastela Bay Coastal Area	Split	24 January	UNEP	6	UNEP	UNEP(OCA)/MED WG. 42/1	
2. Second Meeting of the Task Team on Implications of Climatic Changes on the Island of Malta	Valletta	14 February	UNEP	6	UNEP	UNEP(OCA)/MED WG. 50/1	
3. Consultation Meeting on the participation of Egypt in the MED POL Programme of the Mediterranean Action Plan	Cairo	24 February	UNEP	6	UNEP	UNEP(OCA)/MED WG. 44/2	
4. Consultation Meeting on pilot monitoring project on anionic detergent	Athens	27-29 February	WHO	8	WHO	ICP/CEH 104	
5. First Meeting of the Task Team on Implications of Climatic Changes on Cres-Losinj Islands	Rijeka	2-3 March	UNEP	22	UNEP	UNEP(OCA)/MED WG. 43/2	
6. Consultation Meeting on the preparation of a research programme on Eutrophication and Plankton Blooms	Athens	19-20 March	UNEP	10	UNEP	UNEP(OCA)/MED WG. 44/1	
7. Fourth Meeting of the Task Team on Climatic Changes on the Island of Rhodes	Athens	30-31 March	UNEP	11	UNEP	UNEP(OCA)/MED WG. 46/8	
8. Consultation Meeting on cost and benefits of reduction of the degradation of the marine environment from land-based sources of pollution and activities in coastal areas	Athens	6-8 April	UNEP	7	UNEP	UNEP(OCA)/MED WG. 45/6	
9. Review Meeting on the herbicides pilot survey	Athens	7-9 April	FAO/IAEA	7	FAO	FIR/MEDPOL/HERB/2	

Meeting	Place	Date	Responsible Agency	No. of Partic.	Report issued by	Report Code	Amount Alloc.
10. Third Meeting of the Task Team on Implications of Climatic Changes on the Syrian Coast	Damascus	11-13 April	UNEP	9	UNEP	UNEP(OCA)/MED WG. 48/1	
11. Second Meeting of the Task Team on Implications of Climatic Changes on Cres-Losinj Islands	Rijeka	4 May	UNEP	15	UNEP	UNEP(OCA)/MED WG. 52/1	
12. Meeting of MED POL National Coordinators	Athens	6-9 May	UNEP	37	UNEP	UNEP(OCA)/MED WG. 35/4	40,000
13. Third Meeting of the Task Team on Implications of Climatic Changes on Malta	Valletta	18-20 May	UNEP	12	UNEP	UNEP(OCA)/MED WG. 49/10	
14. Fourth Meeting of the Task Team on Implications of Climatic Changes on the Syrian Coast	Damascus	3-7 July	UNEP	9	UNEP	UNEP(OCA)/MED WG. 51/1	
15. Joint Third Meeting of the Task Teams on Implications of Climate Change on Kastela Bay and Cres/Losinj Islands	Mali Losinj	16-18 July	UNEP	32	UNEP	UNEP(OCA)/MED WG. 53/2	
16. Fourth Meeting of the Task Team on Implications of Climatic Changes on Malta	Valletta	14 September	UNEP	12	UNEP	UNEP(OCA)/MED WG. 54/2	
17. Training workshop on the techniques for monitoring biological effects of pollutants in marine organisms	Nice	14-25 September	FAO/IOC	26	FAO	FIR/MEDPOL/NICE/3	40,000
18. Meeting on Implications of Climatic Changes on Mediterranean Coastal Areas (Island of Rhodes, Kastela Bay, Syrian Coast, Malta and Cres/Losinj Islands)	Valletta	15-19 September	UNEP	32	UNEP	UNEP(OCA)/MED WG. 55/7	
19. Consultation Meeting on determination of pathogenic micro-organisms in coastal marine waters	Chioggia	7-10 October	WHO	22	WHO	EUR/ICP/CEH 115	25,000

Meeting	Place	Date	Responsible Agency	No. of Partic.	Report issued by	Report Code	Amount Alloc.
20. Training and Intercalibration exercise on determination of microbiological pollution	Athens	2-7 November	WHO	20	WHO	EUR/ICP/CEH 116	25,000
21. XXVI Meeting of the Inter-Agency Advisory Committee (IAAC) for MED POL	Athens	8-11 December	UNEP-MEDU	8	UNEP	UNEP(OCA)/MED WG. 58/1	
22. Consultation Meeting on the Israeli Monitoring Programme	Haifa	21-23 December	UNEP/FAO	12	UNEP	TO BE ISSUED	

MED POL MEETINGS TO BE HELD IN 1993

Meeting	Place	Date	Responsible Agency	No. of Partic.	Report issued by	Report Code	Amount Alloc.
1. Training workshop on the monitoring and assessment of airborne pollution	Malta	9-18 February	WMO	25	WMO		25,000
2. Consultation Meeting on the fungicides pilot survey	Ioannina Greece	February/March	FAO/IAEA	7	FAO		
3. Workshop on guidelines and reference method on sample work-up for organic contaminants analysis (rephased from 1991)		March					
4. Consultation Meeting on guidelines on data quality assurance	Monaco	March	IAEA		IAEA		
5. Training workshop on the monitoring of chemical contaminants using marine sediments	Monaco	September	IAEA/IOC	15	IAEA		25,000
6. Consultation meeting on the treatment and discharge of toxic wastes	Istanbul	June	WHO	15	WHO		25,000
7. Joint Committees' Meeting	Athens	3-7 May	UNEP	50	UNEP		93,000
8. Training workshop on the monitoring of chemical contaminants using marine organisms	Athens	22-26 June	FAO/IAEA	25	FAO		40,000
9. Consultation meeting on the application of chemical tracers of domestic contaminants for marine pollution surveys	Monaco	September	IAEA/WHO	6	IAEA		15,000
10. Training and intercalibration exercise on the determination of microbiological pollution	?	November	WHO	15	WHO		25,000

Meeting	Place	Date	Responsible Agency	No. of Partic.	Report Issued by	Report Code	Amount Alloc.
11. Training workshop on collecting emission data for assessing airborne pollution ^{1/}		November/December	WMO	15	WMO		25,000*
12. Consultation meeting on MED POL data processing programme and guidance for future work	Athens	June	UNEP	8	UNEP		20,000
13. XXVII Meeting of the Inter-Agency Advisory Committee (IAAC) for MED POL	Athens	December	UNEP	8	UNEP		-

^{1/} This activity will be implemented only if unused MED POL funds are available.

ANNEX VII

WORKPLAN FOR LBS IMPLEMENTATION
(1985 - 1995)

Indicative Workplan and timetable for the formulation of programme
and measures in terms of Articles 4, 5, 6, 7 and 13
of the LBS Protocol from 1988 to 1995

(based on the calendar adopted by the Contracting Parties
in 1985 and 1991)

Actions	Relevance to the Protocol	Responsible Agencies	Original target date	Present status
1. Assessment of the state of pollution in the Mediterranean Sea by persistent synthetic materials which may float, sink or remain in suspension, and proposed measures	Article 5; Annex I	UNEP/MEDU, IOC, FAO	Dec. 1988	Adopted by C.P. 1991 MTS No 50
2. Assessment of the state of pollution in the Mediterranean Sea by organophosphorus compounds and proposed measures	Article 5; Annex I	UNEP/MEDU, FAO	Dec. 1988	Adopted by C.P. 1991 MTS No 58
3. Assessment of the state of pollution in the Mediterranean Sea by organotin compounds and proposed measures	Article 5; Annex I	UNEP/MEDU, FAO	Dec. 1988	Adopted by C.P. 1989 MTS No 33
4. Completion and revision of the list of substances included in the groups contained in annexes I and II to the Protocol	Annexes I, & II	UNEP/MEDU, All Agencies	Dec. 1988	Continuously covered in the assessments
5. Evaluation of <u>in situ</u> investigations on selected submarine outfalls to determine their efficiency and cost-effectiveness	Article 7, para 1(a)	UNEP/MEDU, WHO	Dec. 1988	Document prepared as part of the guidelines (see 21.) and being edited. To be finalized by May 1993. To be presented at N.C. Meeting 1994
6. Survey of the situation currently existing with regard to products, installations and other processes within the region actually or potentially causing significant pollution of the marine environment	Article 7, para 1(d)	UNEP/MEDU, WHO, UNIDO	Dec. 1988	Pending results of MED X bis

Actions	Relevance to the Protocol	Responsible Agencies	Original target date	Present status
7. Preparation of draft Annex IV Protocol concerning pollution from land-based sources transported by the atmosphere	Article 4	UNEP/MEDU, WHO	Dec. 1988	Annex IV adopted by C.P. 1991
8. Assessment of the state of pollution in the Mediterranean Sea by radioactive substances and proposed measures	Article 5; Annex I	UNEP/MEDU, IAEA	Dec. 1989	Adopted by C.P. 1991. MTS No 62
9. Assessment of the state of pollution in the Mediterranean Sea by substances proven carcinogenic, teratogenic or mutagenic and proposed measures	Article 5; Annex I	UNEP/MEDU, WHO	Dec. 1989	Revised version to be presented at STC Meeting 1993
10. Assessment of the present state of pollution in the Mediterranean Sea by pathogenic microorganisms and proposed measures	Article 6; Annex II	UNEP/MEDU, WHO	Dec. 1989	Adopted by C.P. 1991. To be published as MTS.
11. Compilation and evaluation of already existing international experience of use of alternative products and processes. In this regard, experiences on recycling and re-use of solid and liquid wastes will be taken into account	Article 7; para 1(d)	UNEP/MEDU, WHO, UNIDO	Dec. 1989	Activity postponed to 1993
12. Assessment of the state of pollution by crude oils and hydrocarbons of any origin and proposed measures	Article 6; Annex II	UNEP/MEDU, IOC	Dec. 1990	Postponed until 1993
13. Assessment of the state of pollution in the Mediterranean Sea by zinc and copper with proposed measures	Article 6; para 1(a)	UNEP/MEDU, FAO	Dec. 1990	Draft Ass. ready by the end of 1992
14. Assessment of the present state of pollution in the Mediterranean Sea by chromium with proposed measures	Article 6, para II	UNEP/MEDU, FAO	Dec. 1990	Draft ass. ready for chromium by end of 1992.
15. Assessment of the present state of pollution in the Mediterranean Sea by nickel with proposed measures	Article 6, para II	UNEP/MEDU, FAO	Dec. 1990	Draft ass. ready for nickel by June 1993
16. Assessment of the present state of pollution in the Mediterranean Sea by arsenic with proposed measures	Article 6, Annex II	UNEP/MEDU, FAO	Dec. 1990	Draft ass. ready for arsenic by end of 1992.
17. Assessment of the present state of pollution in the Mediterranean Sea by lead with proposed measures	Article 6, Annex II	UNEP/MEDU, FAO	Dec. 1990	Draft ass. ready for lead by June 1993

Actions	Relevance to the Protocol	Responsible Agencies	Original target date	Present status
18. Identification and categorisation of alternative products, installations and other processes capable of reducing pollution of the Mediterranean marine environment	Article 7, para 1(d)	UNEP/MEDU, WHO, UNIDO	Dec. 1990	Activity integrated with 11. above
19. Assessment of the present state of pollution in the Mediterranean Sea by inorganic compounds of phosphorus and elemental phosphorus and proposed measures	Article 6; Annex II	UNEP/MEDU, FAO	Dec. 1991	Ass. as part of 26.
20. Assessment of the state of pollution in the Mediterranean Sea by non-biodegradable detergents and other surface-active substances and proposed measures	Article 6; Annex II	UNEP/MEDU, WHO	Dec. 1991	Consult. in Feb. 1993. Pilot project to be completed by end 1992. Assessment in 1994
21. Assessment of the present state of pollution in the Mediterranean Sea by thermal discharges and proposed measures	Article 6; Annex II	UNEP/MEDU, FAO	Dec. 1991	Consult. in 1993. Ass. for 1994 STC.
22. Common guidelines for the determination of the length, depth and position of pipelines for coastal outfalls, taking into account, in particular, the methods used for pre-treatment of effluents	Article 7, para 1(a)	UNEP/MEDU, WHO, UNIDO	Dec. 1991	Document ready and being edited. Document to be presented at N.C. Meeting 1994 (includes 5.)
23. Compilation of a Mediterranean inventory of effluents requiring special and/or separate treatment including type, category, amount, locality and existing treatment, if any, together with, wherever possible, those local characteristics influencing the effects of such effluents on the marine environment and the feasibility of separate and/or special treatment	Article 7, para 1(b)	UNEP/MEDU, WHO, UNIDO	Dec. 1991	Pending results of MED X bis
24. Formulation of draft common guidelines, standards and criteria for special requirements for effluents necessitating separate treatment	Article 7, para 1(b)	UNEP/MEDU, WHO	Dec. 1991	Guideline in edit. Compl. by June 1993
25. Survey on the yield and the cost/benefit of the application of alternative products and processes	Article 7, para 1(d)	UNEP/MEDU, WHO	Dec. 1991	Integrated with 11. above

Actions	Relevance to the Protocol	Responsible Agencies	Original target date	Present status
26. Assessment of the present state of pollution in the Mediterranean Sea by acid or alkaline compounds of such composition and in such quantity that they may impair the quality of seawater and proposed measures	Article 6, Annex II	UNEP/MEDU, WHO	Dec. 1992	Postponed to 1994-1995
27. Assessment of the present state pollution in the Mediterranean Sea by substances which have, directly or indirectly, an adverse effect on the oxygen content of the marine environment, especially those which may cause eutrophication and proposed measures	Article 6; Annex II	UNEP/MEDU, FAO	Dec. 1992	Ass. to be prepared in 1993
28. Assessment of the present state of pollution in the Mediterranean Sea by molybdenum, titanium, selenium, vanadium, cobalt and silver with proposed measures	Article 6; Annex II	UNEP/MEDU, FAO/IAEA	Dec. 1992	Consult. in 1993. Ass. to be prepared for N.C. Meeting 1994
29. Assessment of the present state of pollution in the Mediterranean Sea by cyanides and fluorides and proposed measures	Article 6; Annex II	UNEP/MEDU, WHO	Dec. 1993	Consult. in 1993. Pilot monitoring in 1994. Ass. to be prepared for STC 1995
30. Assessment of the present state of pollution in the Mediterranean Sea by substances which, though of a non-toxic nature, may become harmful to the marine environment or may interfere with any legitimate use of the sea owing to the quantities in which they are discharged and proposed measures	Article 6; Annex II	UNEP/MEDU, IMO	Dec. 1993	Consult. in 1994. Ass. to be prepared for STC 1995
31. Assessment of the present state of pollution in the Mediterranean Sea by organosilicon compounds and substances which may form such compounds in the marine environment, excluding those which are biologically harmless or are rapidly converted into biologically harmless substances and proposed measures	Article 6; Annex II	UNEP/MEDU, FAO	Dec. 1993	Deleted from Annex II
32. Assessment of the present state of pollution in the Mediterranean Sea by antimony, tin, boron, beryllium, barium, uranium, tellurium and thallium with proposed measures	Article 6; Annex II	UNEP/MEDU, FAO	Dec. 1994	Consult. in 1993. Ass. to be prepared for STC 1994

Actions	Relevance to the Protocol	Responsible Agencies	Original target date	Present status
33. Assessment of the present state of pollution in the Mediterranean Sea by substances which have a deleterious effect on the taste and/or smell of products for human consumption derived from the aquatic environment, and compounds liable to give rise to such substances in the marine environment and proposed measures	Article 6; Annex II	UNEP/MEDU, WHO	Dec. 1994	Consult. in 1994. Ass. to be prepared for STC 1995
34. Assessment of the present state of pollution in the Mediterranean Sea by herbicides and their derivatives not covered in Annex I and proposed Measures	Article 6; Annex II	UNEP/MEDU, FAO	Dec. 1994	Consult. in 1993. Ass. to be prepared for STC 1994
35. Assessment of the present state of pollution in the Mediterranean Sea by fungicides and their derivatives not covered in Annex I and proposed Measures	Article 6; Annex II	UNEP/MEDU, FAO	Dec. 1994	Consult. in 1993. Ass. to be prepared for STC 1994
36. Assessment of the present state of pollution in the Mediterranean Sea by other biocides other than fungicides and herbicides and their derivatives not covered in Annex I and proposed Measures	Article 6; Annex II	UNEP/MEDU, FAO	Dec. 1994	Consult. in 1994. Ass. to be prepared for STC 1995
37. Assessment of the airborne pollution of the Mediterranean Sea by heavy metals and acidifying compounds	Annex IV	UNEP/MEDU, WMO	Dec. 1993	To be prepared by the end of 1993

WORKPLAN FOR LBS IMPLEMENTATION (1986 - 1987)

Actions	Relevance to the Protocol	Responsible Agencies	Original target date	Present status
1. Assessment of the state of microbial pollution in the Mediterranean Sea and proposed measures	Article 6; Annex II	UNEP/MEDU, WHO	Dec. 1985	To be revised in 1993. Inform measures adopted by C.P. 1985
2. Completion an revision of the Glossary	Protocol and annexes	UNEP/MEDU, WHO	Dec. 1986	Prepared: UNEP/WG.125/9
3. List of substances falling within each of the groups in Annex I to the Protocol	Annex I	UNEP/MEDU, IRPTC, IAEA	Dec. 1986	Continuously covered in the assessments
4. List of substances falling within each of the groups in Annex II to the Protocol	Annex II	UNEP/MEDU, IRPTC	Dec. 1986	Continuously covered in the assessments
5. Assessment of the state of pollution in the Mediterranean Sea by used lubricating oils and proposed measures	Article 5; Annex I	UNEP/MEDU, UNIDO	Dec. 1986	WG.3/Inf.4 Common measures adopted by C.P. 1984
6. Survey of land-based sources and amounts of pollutants reaching the Mediterranean Sea	Article 5 & 6; Annex I and II	UNEP/MEDU, WHO	Dec. 1986	Ongoing. Completion expected in 1993.
7. Assessment of the state of microbial pollution in the Mediterranean Sea and proposed measures for shellfish and shellfish-growing waters	Article 6; Annex II	UNEP/MEDU, WHO	Dec. 1986	UNEP/WG.160/10. Common measures adopted in 1987. Portion to be included in 1. above
8. An evaluation of the benefits limitations of submarine pipelines, whether or not associated with treatment plants, for discharge of liquid effluents	Article 7; para.1 (a)	UNEP/MEDU, WHO	Dec. 1986	See guidelines and MED X-bis
9. Formulation of the procedure for the collection and submission of information from the parties on measures taken, results achieved and difficulties encountered in the application of the Protocol	Article 13	UNEP/MEDU, WHO	Dec. 1986	To be completed by March 1993

Actions	Relevance to the Protocol	Responsible Agencies	Original target date	Present status
10. Draft guidelines for the issue of authorization for the discharge of liquid wastes into the Mediterranean	Article 6	UNEP/MEDU, WHO	Dec. 1987	ICP/CEH 082/6. Revised doc. to be published in 1993
11. Assessment of the state of pollution in the Mediterranean Sea by cadmium and cadmium compounds and proposed measures	Article 5; Annex I	UNEP/MEDU, FAO	Dec. 1987	MTS No 34 Common measures adopted by C.P. 1987
12. Assessment of the state of pollution in the Mediterranean Sea by organohalogen compounds and proposed measures	Article 5; Annex I	UNEP/MEDU, FAO	Dec. 1987	MTS No 39 and No 70. Common measures adopted by C.P. in 1989
13. Assessment of the state of pollution in the Mediterranean Sea by mercury and mercury compounds and proposed measures	Article 5; Annex I	UNEP/MEDU, FAO	Dec. 1987	MTS No 18 Common measures adopted by C.P. 1985 and 1987
14. A comparative review of the various types of treatment existing in the Mediterranean area for wastewaters, with the view to their re-use or their discharge into the sea	Article 7; para 1(a)	UNEP/MEDU, WHO	Dec. 1987	Part of MED X Bis
15. Compilation of detailed information on existing legislative measures regarding the discharge of wastes through submarine outfalls in Mediterranean countries together with similar information from selected countries outside the region, to enable comparison and evaluation of applicability and proposed measures	Article 7; para 1(a)	UNEP/MEDU, WHO	Dec. 1987	See 8.
16. Identification and categorisation of effluents requiring special and/or separate treatment and listing of such treatment and/or other requirements normally associated with or advisable for such effluents	Article 7; para 1(b)	UNEP/MEDU, WHO, UNIDO	Dec. 1987	Integrated with 22. of the first list

ANNEX VIII

MAP TECHNICAL REPORT SERIES VOLUMES

SCHEDULED VOLUMES FOR 1993

Title	Pages	Target date	Agency	MTS No.
1. Marine pollution of Lake Manzola	40 pp	January 93	IAEA	
2. Biological effects	120 pp	January 93	FAO	
3. Physical processes	150 pp	June 93	IOC	
4. Activity A+K+L. Final reports	150 pp	June 93	IAEA	
5. Intercalibration	50 pp	June 93	IAEA	
6. Research projects	120 pp	June 93	FAO	
7. Activity F. Reports	150 pp	July 93	IOC	
8. Airborne pollution	150 pp	December 93	WMO	

ANNEX IX

PROPOSED PROGRAMME AND BUDGET FOR 1994-95

MONITORING OF MARINE POLLUTION IN THE MEDITERRANEAN

Objective

To achieve a comprehensive and co-ordinated marine pollution monitoring programme including all Mediterranean countries, covering pollution sources, coastal and reference areas and airborne pollution and to achieve a high quality of monitoring data.

Activities

	Approved Budget	
	1994	1995
	(in thousands of US \$)	
<u>Monitoring</u>		
- Assistance to institutions participating in monitoring programmes, through provision of instruments and supplies (about 80 institutions) (Sub-contracts)	505	610
- Assistance to institutions for biological effects monitoring (pilot phase) (Sub-contracts)	80	120
- Maintenance of instruments provided to institutions participating in MED POL (spare parts) (about 40 institutions) (Sub-contracts)	40	40
- Consultants to analyse and evaluate MED POL data	30	30
<u>Training and fellowships</u>		
- On-job training of participants in MED POL monitoring programme (about 40 participants)	80	80
- Fellowships to participants in MED POL research and monitoring programme in order to present MED POL data at meetings	70	40
<u>Data quality assurance</u>		
- Assistance to institutions participating in monitoring programmes in order to assure reliable and high quality data, through country data quality assurance programmes, joint monitoring exercises, intercomparison of results and dissemination of scientific information (about 20 institutions) (Sub-contracts)	70	80
- Development and updating of microbiological reference methods	5	10

* An additional 90 thousand U.S. dollars are budgeted annually for monitoring activities of the coastal areas management programme.

	Approved Budget	
	1994	1995
	(in thousands of US \$)	
- Assistance to institutions participating in monitoring programmes through purchase and provision of standards and reference materials (about 40 institutions) (Sub-contracts)	25	35
- Intercalibration programme for institutions participating in MED POL (about 40 institutions) (Sub-contracts)	20	30
<u>Meetings and training courses</u>		
- Meeting of National Co-ordinators of MED POL	40	-
- National training workshop (FAO/IAEA/UNEP) on monitoring of chemical contaminants in marine organisms (3 courses with 20-25 participants each)	40	-
- Regional training workshop (FAO/IAEA/UNEP) on the monitoring of chemical contaminants using marine organisms (6 lecturers, about 25 participants)	-	40
- Training workshop (WHO/UNEP) on organisation of microbiological courses	25	-
- National training course (WHO/UNEP) on determination of microbiological pollution (3 courses with 10-15 participants each)	-	25
- Consultation meeting (WHO/UNEP) on microbiological monitoring of recreational and shellfish growing water	25	-
- Consultation meeting (IOC/UNEP) on hydrodynamic modelling (about 12 participants)	20	-
- Workshop (IAEA/IOC/UNEP) on determination of Polyaromatic hydrocarbons (PAHs) in sediments and organisms (about 15 participants)	25	-
- Meeting of experts (WHO/UNEP) on airborne pollution (about 20 participants)	25	-
- Consultation meeting on MED POL data processing programme and guidance for future work (about 8 participants)	-	20
- Consultation meeting on the evaluation of monitoring programmes (about 8 participants)	20	-

Approved Budget
 1994 1995
 (in thousands of US \$)

Research

- Assistance to institutions participating in research programme, through provision of research grants (about 30 grants to about 25 institutions) (Sub-contracts) 120 130

Assessment of pollution

- Printing of Proceedings of the 12th ICSEM/UNEP/IOC Workshop on Mediterranean marine pollution (Sub-contracts) 10 -

		1993	1994	1995
TOTAL	MTF	1182	1275	1290
	UNEP	50		

Approved Budget
 1994 1995
 (in thousands of US \$)

Meetings

- Evaluation of the LBS Survey (WHO/UNEP) (about 15 participants)	-	25
- Training course (IOC/WHO/BMTC) on identification and quantification of algal toxins (about 15 participants)*	15	-
- Training workshop on advanced techniques for measurements of chemical parameters of eutrophication	15	-
- Training and intercalibration exercise (WMO/UNEP) on airborne pollution monitoring (about 15 participants)	-	25

		1993	1994	1995
TOTAL	MTF	427	337	313

* Additional funds of US \$ 20,000 will be provided by BMTC

MED POL CO-OPERATING AGENCIES

	m/m	Approved Budget 1994 1995 (in thousands of US \$)		
Professional Staff				
- WHO Senior Scientist - MAP Co-ordinating Unit (Athens) - P.5	12	105	105	
- FAO Senior Fishery Officer - MAP Co-ordinating Unit (Athens) - P.5	12	105	105	
- IAEA Maintenance Engineer (ILMR) (Monaco) - P.3	12	95	95	
Total Professional Staff		305	305	
Administrative Support				
- WHO Secretary - WHO/EURO (Copenhagen)- G.4		16	16	
- WHO Secretary - MAP Co-ordinating Unit (Athens) - G.5	12	25	25	
- FAO Secretary - MAP Co-ordinating Unit (Athens) - G.4	12	25	25	
- IAEA Laboratory Assistant - ILMR (Monaco) - G.6	12	60	60	
- WMO Temporary Assistance - WMO/HQ (Geneva)		10	10	
- IOC Temporary Assistance - IOC/HQ (Paris)		10	10	
Total Administrative Support		146	146	
Travel on Official Business				
- WHO (Athens)		16	16	
- FAO (Athens)		16	16	
- WMO (Geneva)		10	10	
- IAEA (Monaco)		30	30	
- IOC of UNESCO (Paris)		9	9	
Total Travel		81	81	
Office Costs				
Office costs incurred by FAO and WHO staff stationed in Co-ordinating Unit in Athens are covered by MED Unit office costs. Office costs incurred by all Agencies at their own Headquarters or Regional Offices are covered by the respective agencies as part of their counterpart contributions.				
		1993	1994	1995
TOTAL	MTF	410	532	532

SUMMARY BUDGET PROPOSAL FOR 1994/1995

		1992	1993	1994	1995	1992- 1993	1994- 1995
1.	Monitoring	1163	1232	1275	1290	2395	2565
2.	LBS	248	427	337	313	675	650
3.	MED POL Agencies	410	410	532	532	820	1064
	TOTAL	1821	2069	2144	2135	3890	4279

ANNEX X

DRAFT

**GENERAL OBJECTIVES OF MED POL-PHASE III PROGRAMME
(1996-2005)**

The overall long-term objective of MAP is the achievement of sustainable development of marine and coastal resources in the Mediterranean region through effective integrated management that allows for increased economic growth while protecting marine and coastal environment and its resources.

MED POL as the scientific/technical component of MAP has the following general objectives:

- (i) to organize and carry out a regionally co-ordinated marine pollution monitoring and research programme, concentrating on contaminants and pollutants affecting the quality of the marine and coastal environment, as well as human health in the Mediterranean and to interpret/assess the results of the programme as part of the scientific basis for decision making in the region;
- (ii) to generate information on the sources, levels, amounts, trends and effects of marine pollution, develop capabilities for assessing the present and future state of the marine environment within the Mediterranean region as an additional component of the scientific basis upon which the formulation of proposals for preventive and remedial actions can be based;
- (iii) to formulate proposals for technical, administrative and legal pollution control, abatement, and preventive measures and to assist the Governments in the region to implement the adopted measures and evaluate their effectiveness; and
- (iv) to strengthen and when necessary, to develop/establish the capabilities of national institutions to carry out marine pollution monitoring and research.

Example of specific objectives for Phase III include in particular:

- a) to further reduce the pollution load reaching the marine environment from land-based sources;
- b) to safeguard the public health by surveillance of the sanitary quality of bathing and shellfish-growing waters and by development of measures ensuring maintenance of adequate sanitary quality of these waters;
- c) to assess the damage of pollution on marine and coastal ecosystems with a view to their rehabilitation;

- d) to assess the effectiveness of measures taken to reduce pollution;
- e) to establish a set of scientifically based environmental quality criteria for the coastal environment of the Mediterranean region;
- g) to assess the present levels, trends and effects of eutrophication and plankton blooms and formulate proposals for prediction and reduction of such phenomena in the Mediterranean region;
- h) to assess airborne pollution levels and to develop predictive models which can provide basis for remedial actions;
- i) enhance the understanding of processes influencing the distribution and dispersion of pollution, biogeochemical cycles of specific pollutants;
- j) to prepare periodically an assessment of the state of pollution of the Mediterranean Sea and assist Contracting Parties to prepare such assessments on a national level;
- k) to assist countries develop and implement the national monitoring programme.