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

Geneva, 15 - 18 March 1982

M I N U T E S

INTRODUCTION

1. The meeting was convened by the Co-ordinating Unit for the Mediterranean Action Plan. All the Co-operating Agencies (FAO, WHO, WMO, IOC, UNESCO and IAEA) were invited to attend the meeting.
2. The meeting was attended by nine representatives of the International Organizations including UNEP. For the complete list of participants, see annex I to these minutes.

Agenda item 1 - Opening of the Meeting

3. On behalf of the Co-ordinator of the Mediterranean Action Plan, the meeting was opened by A. Cruzado, Senior Marine Scientist of the MAP. He welcomed the participants and introduced L.J. Saliba, the newly appointed WHO Senior Scientist, who was welcomed by the Committee.
4. A. Cruzado introduced the Agenda which was adopted by the Committee (see annex II).
5. Before starting the discussion, A. Cruzado asked the representatives of the Agencies for information relevant to the status of the project document formalizing their involvement in MED POL-PHASE II.
6. The project document was announced to have been already signed by WMO, IAEA and IOC, while it would be signed soon by WHO and UNESCO. It was announced to be still under discussion at FAO.

Agenda item 2 - Status of the implementation of MED POL-PHASE II

7. The secretariat briefly reported on the financial situation of the Mediterranean Trust Fund and the actual availability of funds for MED POL activities. US\$80,000 would be available before the end of March, in total, to all Co-operating Agencies, for monitoring activities, while \$150,000 would be made available for the research activities as the research contracts with individual institutes would be cleared by the Unit. By June 1982, \$90,000 for monitoring activities, plus \$100,000 for the research activities would be made available, in total, to all Co-operating Agencies, plus the funds for the salary of the Electronics Engineer to IAEA. Finally, at the end of September 1982, \$95,000 for monitoring activities plus the funds agreed for the ICSEM/UNEP Workshop on Pollution would be distributed, in total, to all Co-operating Agencies.
8. The secretariat informed the Committee that, in order to follow more closely the activities jointly undertaken by the Agencies, the Unit had asked, through the Fund administration, the Co-operating Agencies to forward in the future to the Co-ordinating Unit for the MAP a copy of the financial report as well as the progress report of the activities.

9. The secretariat informed the Committee of the latest events in relation to the transfer of the MAP Co-ordinating Unit to Athens, likely to take place in June/July 1982. In this connexion, in order to avoid delays, it was stressed that the procedures for the installment of the funds should be completed by the MED UNIT well in advance.
10. The official channels of correspondence with the Co-operating Agencies were reviewed and the list appears as annex III to these minutes.
11. The secretariat reported to the committee on the first actions implemented in connexion with the launching of MED POL-PHASE II as a follow up to the First Meeting of the Working Group. Besides the report of that meeting, distributed in October 1981, the revisions of the basic criteria for the implementation of national monitoring programmes (UNEP/WG.62/3 Rev.1) and of research activities (UNEP/WG.62/4 Rev.1) were prepared, incorporating all comments received, and forwarded to all scientists and focal points, as appropriate. Copies of the relevant correspondence were distributed to the representatives of the Co-operating Agencies.
12. As to the monitoring activities, Spain and France were the only countries to have forwarded monitoring programmes. These programmes were, however, not considered final either because they were incomplete in most parts, or because they had not been received through official channels.
13. The secretariat informed the Committee that some visits had been paid to several countries in connexion with the launching of the research and monitoring activities. In particular, Egypt, Cyprus, Algeria and Morocco. Mission reports were distributed to the representatives of the Co-operating Agencies.
14. The secretariat informed the Committee of the progress achieved in the processing of the data obtained during MED POL - PHASE I. The processing of the data on levels of Hg in biota, already started by FAO, was being carried out by the Unit and the data on the microbiological quality of coastal waters were being processed in close collaboration with WHO and Dr. Mujeriego.
15. The announcement of the next ICSEM/UNEP Workshop on Pollution had been circulated by the MED UNIT, as well as the "Selected Bibliography on Pollution of the Mediterranean".

Agenda item 3. Report on the activities carried out by each Co-operating Agency up to the end of 1981

16. After a short reminder by the secretariat of the funds assigned to the Co-operating Agencies for activities to be implemented in 1981, the Agencies' representatives reported on the activities undertaken up to December 1981, according to the workplan and timetable agreed upon at the X IAAC Meeting (Geneva, 4-8 May 1981).
17. In particular, the IAEA representative informed the Committee that the activities relevant to the intercalibration of analytical techniques (in particular, the preparation of the sediment sample) and the maintenance of analytical instruments continued; the IOC representative stated that the compilation of the Driftex experiment report progressed and that it was being prepared by a Mediterranean laboratory; the FAO representative reminded that the French and English versions of the Manual on Ecological Assessment of Pollution Effects and the French version of the Manual on Selected Bioassays for the Mediterranean had been prepared and published and that the work on the Final Report on MED POL II-V and the Reference Methods for Mercury and halogenated compounds continued; the WHO representative informed that the Final Report on MED POL VII had been completed and issued and that work on the Reference Methods relevant to microbiological contaminants continued.
18. A global report on oil pollution monitoring prepared by IOC was circulated to the Committee members by the representative of IOC. The Committee asked IOC to forward a copy of the publication to all MED POL - PHASE I Principal Investigators, active in oil pollution monitoring, and fifty copies to the MED UNIT for wider distribution.
19. The secretariat also reminded the Committee that extensive work on the preparation of the Programme Description of MED POL - PHASE I had been accomplished in collaboration with the Agencies involved, and that the Final Report and the Individual Reports of Participants were nearly finished.

Agenda item 4. Report on the activities to be carried out during the period January - March 1982 and discussion on follow-up

20. The Committee referred to the workplan attached to the project document related to MED POL - PHASE II and relevant to the starting of the monitoring activities. In particular, the activities related to the development and testing of analytical techniques were examined.
21. The Committee agreed that the relevant Co-operating Agencies would prepare and forward to the MED UNIT the description of all methods listed in the workplan before 15 May 1982.

22. As to the testing of the sampling and analytical techniques, the Committee agreed that, in principle, the methods relevant to trace metals would be dealt with by FAO, the methods relevant to halogenated hydrocarbons by IAEA, the methods for microbiological parameters and for effluents by WHO, the methods relevant to petroleum hydrocarbons by IOC and the methods for water and suspended matter by IOC and UNESCO.
23. It was also recommended that the laboratories who had proposed research activities relevant to the above subject (activity 'A') should be involved as much as possible in the testing of the methods.
24. The WHO and the FAO representatives informed the Committee that, as part of the activities relevant to the testing of the analytical methods, two meetings were planned before the end of the year. The Committee, in view of the lack of specific funds, recommended FAO to hold the meeting on the methods relevant to trace metals analysis in connexion with the ICSEM/UNEP Workshop on Pollution (December 1982).
25. The WHO representative informed that the meeting on microbiological methods would be organized in collaboration with I.S.S. in Rome in connexion with an intercalibration exercise.
26. The WHO representative informed the Committee that preliminary activities related to the development of computational methods for monitoring the transport of pollutants to the Mediterranean via the atmosphere had started.
27. The IOC representative informed that an intercalibration exercise for petroleum hydrocarbons analyses was going to be organized on a global basis. The committee requested the IOC representative to involve in this exercise the Mediterranean Centres and to formulate, in the proposal for 1983 MED POL activities, the specific requirements for a Mediterranean intercalibration exercise.

Agenda item 5. Discussion on the research activities to be implemented in 1982

28. A general discussion on the procedure to be followed in the implementation of the research activities was held. It was agreed that the MED UNIT would contact first the National Co-ordinators informing them of the fate of the proposals received. The proposals considered more relevant to the monitoring activities would be sent back to the National Co-ordinators for inclusion in their National Monitoring Programmes. The National Co-ordinators would be, at the same time, requested to explore the possibility of financing all or part of the proposals from national sources. Informal contacts would be carried out by the relevant Co-operating Agencies directly with the laboratories. Formal commitments should be made by the Co-operating Agencies only after an indication would be made to this effect by the MED UNIT.

29. At a later stage, when compiling the research agreements, the relevant Co-operating Agencies should add a paragraph which would subject the extension of the agreements (i) to the approval by the Agency of the work performed, (ii) to the availability of funds and (iii) to the approval by the Working Group for Scientific and Technical Co-operation.
30. It was agreed that the relevant Co-operating Agencies might informally approach laboratories suggesting to submit to the MED UNIT additional proposals, in particular relevant to activities 'B', 'C' and 'E'.
31. In connexion with the forthcoming Intergovernmental Meeting, the Committee asked the secretariat to obtain from the Contracting Parties the authorization to reconsider the internal distribution of funds within the research component, in the budget for 1982 and 1983, in view of the proposals received.
32. The need for opening a new budget line for WHO under activity 'G' was also discussed.

Agenda item 6. Review of the research proposals received in the framework of MED POL - PHASE II

33. The secretariat presented an up-to-date summary of all research proposals received, and an extensive discussion was held on each of them. As a result, some of the research proposals were considered as falling more into the monitoring component of MED POL. For each research proposal, the Committee identified the Co-operating Agency responsible for the implementation and follow-up, and the category under which the proposal would fall. A list reporting such decisions is attached to these Minutes as annex IV.
34. In connexion with the implementation of the research activities, the FAO representative informed the Committee of a planned meeting on biogeochemical cycles of trace metals, to be held before the end of the year. The Committee, recognizing the interest for such a meeting, but in view of the lack of specific funds, recommended FAO to organize it in connexion with the ICSEM/UNEP Workshop on pollution (December 1982).

Agenda item 7. Preparation of the Second Meeting of the Working Group for Scientific and Technical Co-operation (October 1982)

35. The secretariat distributed a draft agenda and the list of documents to be presented to the Second Meeting of the Working Group for Scientific and Technical Co-operation. The two drafts were discussed and slightly modified (see annex V).

36. The Committee proposed 11-15 October 1982 as the suitable date for the meeting.
37. The meeting would be attended by the National Co-ordinators, Government-designated experts and some experts jointly designated by the MED UNIT and the Co-operating Agencies.
38. The secretariat informed the Committee that, for the preparation of document UNEP/WG.XX/3, the following input was required from the Co-operating Agencies:

IAEA	: report on intercalibration and maintenance service	June 82
WHO	: report on intercalibration	June 82
WMO	: report on the development of computational methods for airborne pollution	June 82
All Co-operating Agencies	: detailed workplan and budget for 1983 activities relevant to monitoring	June 82

39. The secretariat informed the Committee that, for the preparation of document UNEP/WG.XX/4, the following input was needed from all Co-operating Agencies:
- (i) proposals for extension of research activities and relevant budget for 1983 May 82
- (i) short summary of each research proposal accepted June 82
40. The Co-operating Agencies were also required to identify all the technical reports and documents that would be presented to the meeting as background documents.

Agenda item 8. Other matters

41. As requested by the Agencies' representatives, the secretariat distributed a list of the designated National Co-ordinators for MED POL (see annex VI).
42. The Committee agreed to convene the XIV IAAC Meeting in connexion with the Second Meeting of the Working Group for Scientific and Technical Co-operation.
43. The FAO representative, in view of the heavy workload expected in the coming months in connexion with the implementation of the research activities, expressed deep concern about the absence of secretarial assistance which was due to the lack of the relevant funds. The secretariat took note of the problem and promised to look immediately into the matter in order to prevent any delay in the start-up of the activities.

Agenda item 9. Adoption of the minutes and closure of the meeting

44. The English version of the minutes and annexes I to IV were unanimously adopted by the Committee.
45. The meeting was closed at 16.00 hours on 18 March 1982.

ANNEX I

LIST OF PARTICIPANTS

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ANNEX II

AGENDA

1. Opening of Meeting.
2. Status of implementation of MED POL - PHASE II.
3. Report on the activities carried out by each Co-operating Agency up to the end of 1981.
4. Report on the implementation of monitoring activities to be carried out during the period January - March 1982 and discussion on follow-up.
5. Discussion on the research activities to be implemented in 1982.
6. Review of the research proposals received in the framework of MED POL - PHASE II.
7. Preparation of the Second Meeting of the Working Group for Scientific and Technical Co-operation (October 1982).
8. Other matters.
9. Adoption of the minutes and closure of the Meeting.

ANNEX III

Official Channels of Communication for MED POL Activities

WHO Mr. J.I. Waddington
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 Scherfigsvej 8
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ANNEX IV

MED POL - PHASE II - LIST OF RESEARCH PROPOSALS

NAME & ADDRESS OF INSTITUTE	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR	TOTAL COST OF PROJECT	REQUESTED FROM M.I.F.	ACTI- VITY	AGENCY
ALGERIA					
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'échantillonnages et d'analyse pour la surveillance des polluants de la mer (A. CHOUKHI)	Free		AO	UNESCO
2 Dept. de Pollution C.R.O.P.	Etudes épidémiologiques relatives aux critères de qualité de l'environnement (S. KRIM)	?	?	D	WHO
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					
1 Dept. of Fisheries Ministry of Agriculture and Natural Resources Nicosia.	Study of Littoral, Benthic & fish communities in the Vasilikos-Honi area in relation to the effect on those of pollution from thermal effluents (A. DIMEITROPOULOS)	\$51.800	28.60%	J	FAO
EGYPT					
1 Dept. of Hydrobiology Institute of Oceanography & Fisheries, Kayet Bay, Alexandria	Eutrophication and concomitant plankton blooms (H.A. SULTAN)	\$14.600	50.00%	II	FAO

NAME & ADDRESS OF INSTITUTE	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR	TOTAL COST OF PROJECT	REQUESTED FROM M.T.F.	ACTI- VITY	AGENCY
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 water off Alexandria (S.A. WAHBY)	\$36.500	50.00%	monitoring	
FRANCE					
1 Station Marine d'Endoume et Centre d'Océanographie, Marseille.	Recherche sur toxicité, le persistance, le 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. SIORA)	?	?	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-PIENARD)	\$98.500	20.00%	L	WHO/IAEA
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
7 Laboratoire de Sédimentologie et Géochimie Marines, Université de Perpignan, Av de Villeneuve, 66125 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)	\$112.100	16.00%	L	UNESCO

NAME & ADDRESS OF INSTITUTE	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR	TOTAL COST OF PROJECT	REQUESTED FROM M.T.F.	ACTI- VITY	AGENCY
GREECE					
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. GANOUKIS)	\$17.000	20.00%	F	IOC
2 Zoological Laboratory, University of Athens, Panepistimiopolis, 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. MORAITIDOU-APOSTOLOPOULOU)	?	?	G	FAO
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)	\$30.000	13.30%	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. SCOULOS)	\$28.950	32.00%	L	UNESCO
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)	\$92.125	33.00%	L	IOC
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)	\$68.400	44.15%	AO	FAO/IAEA
3 Dept of Biology, Israel O. & L. Research, Haifa.	Effect of pollution on microbial communities in the Eastern Mediterranean Sea (B. CAVARI)	\$97.000	30.00%	K	WHO
4 Chemical Oceanography & Marine Pollution Dept. Israel O. & L. Research, Haifa.	Biogeochemical cycle of mercury in a polluted area (B.S. KRUMGALZ)	\$91.875	36.46%	K	FAO

NAME & ADDRESS OF INSTITUTE	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR	TOTAL COST OF PROJECT	REQUESTED FROM M.T.F.	ACTI- VITY	AGENCY
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 (H.I. SHUVAL)	\$61.500	42.00%	D	WHO
7 Laboratory of Population Biology & Laboratory of Marine Biology, Prof. Eviatar Nevo, Institute of Evolution, University of Haifa, Haifa 31999.	The genetic structure of marine organisms as a detector and monitor of marine pollution (E. NEVO)	\$47.700	42.35%	G	FAO
ITALY					
1 Dipl. Protezione Ambientale (Lerici), CNEN - Roma.	Modelling of the biogeochemical cycle of mercury in the Mediterranean (M. BERNHARD)	\$27.000	7.40%	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)	\$62.500	100.00%	F	IOC
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)	\$61.500	15.00%	L	IAEA
4 Osservatorio Meteorologico di Brera, Brera, Via Brera 28, 20121 Milano.	Dynamic climatology & modelling of long range transport of air pollution over Mediterranean sea (L. SANTOMAURO)	\$150.000	60.00%	L/ monitoring	WHO

NAME & ADDRESS OF INSTITUTE	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR	TOTAL COST OF PROJECT	REQUESTED FROM M.T.F.	ACTI- VITY	AGENCY
5 Consiglio Nazionale delle Ricerche Istituto Ialassografico di Trieste, Viale R. Gessi 2.	Coastal dynamic processes and surface transport in the Gulf of Trieste (Northern Adriatic) - "DYGUIIS" (F. STRAVISI)	\$71.000	29.00%	F	IOC
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)	\$60.000	42.00%	D/K	WHO
7 Dipt. Protezione Ambientale (Lerici), CNEN 00198 Roma.	Data collection, application and development of methods for the assessment of modifications in ecosystems (G. ZURLINI)	\$96.000	1.04%	I	FAO
8 Faculty of Sciences, Istituto di Zoologia dell'Universita 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)	\$35.600	30.00%	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)	\$108.000	50.00%	monitoring	
10 Gruppo Ricerca Oceanologica, Istituto di Chimica Generale, Universita 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)	\$122.400	75.00%	Ao	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 of some organohalogen compounds and substances which may form such compounds in the marine environment (S. KANITZ)	\$19.500	19.00%	monitoring	

NAME & ADDRESS OF INSTITUTE	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR	TOTAL COST OF PROJECT	REQUESTED FROM	ACTI- VITY	AGENCY
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)	\$20.000	70.00%	F	IOC
13 Dip. Biologia animale e dell'uomo, Istituto di Zoologia, V. Università 32, 00100 Roma.	Effetti degli scarichi termici sugli organismi costieri di Torvaldaliga (Civitavecchia-Roma) (E. TARAMELLI RIVOSECCHI)	\$5.000	10.00%	J	FAO
14 Istituto di Zoologia, Facoltà di Scienze, V. dell'Università, 12 - 43100 Parma	Study on the 137 Cs and 239 Pu fluxes into Mediterranean marine environment (L. TASSI PELAI)	\$22.100	25.00%	L	IAEA
15 Dipt Studi Ambientali, Istituto Guido Donegani, Centro Ricerche Napoli, V. Nuova delle Breccie 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)	\$69.000	50.00%	G	FAO
16 Water Quality Branch, Istituto di Ricerca sulle acque, CNR 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)	\$75.800	none	L	UNESCO
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)	\$102.000	80.00%	L	WMO
18 Cattedra di Chimica Generale ed Inorganica, Facoltà di Farmacia, c/o Istituto Dip. di Chimica, Università di Catania, V. le 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)	\$14.000	100.00%	An	IOC

NAME & ADDRESS OF INSTITUTE	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR	TOTAL COST OF PROJECT	REQUESTED FROM M.I.F.	ACTIV- ITY	AGENCY
19 L.E.N.A., CNR - Centro di Radiochimica e Analisi per Attivazione, c/o Università di Pavia, V. le Parmelli, 10 - 27100 Pavia.	Nuclear methods for trace elements determination in environmental related matrices (M. GALLORINI)	\$78.500	10.00%	An	IAEA
20 Cattedra di Oceanografia fisica, Gruppo di Ricerca Oceanologica, Via Balbi, 30, Genova.	Monitoring of the transport of pollutants through the atmosphere (I. DAGNINO)	\$18.700	80.20%	L/ monitoring	WHO
21 Institute of Marine Biology, CNR Riva 7 Mortiri 1304/A, Venice.	Physiological and biochemical response of marine organisms to PBC pollution in a wide range of environmental factors (L. DALLA VENEZIA)	\$26.224	5.00%	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)	\$17.500	60.00%	I	FAO
23 Istituto di Fisica, Università di Roma.	Vertical transport processes of marine water near the Italian coasts (E. SALUSTI)	\$73.600	25.00%	F	IOC
24 Laboratory of Marine Biology, Institute of Zoology, University of Pisa.	Effects of pollution on the benthos (G. COGNETTI)	\$32.000	50.00%	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)	\$30.000	40.00%	K	FAO
26 Istituto di Scienze Ambientali Marine, Gruppo Ricerca Oceanologica-Genova, Università di Genova, Via Balbi 5, 16126 Genova I.	Conditions actuelles des biocoenoses benthiques du plateau ligure et des îles de l'Archipel toscano (G. ALBERTELLI)	\$5.990	none	I	FAO

NAME & ADDRESS OF INSTITUTE	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR	TOTAL COST OF PROJECT	REQUESTED FROM M.T.F.	ACTI- VITY	AGENCY
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 interactions with organic pollutants in marine waters (V. ALBERGONI)	\$134.000	39.00%	G	FAO
28 Environmental Mutagenesis Dept., Istituto di Mutagenesi e Differenzia- mento del CNR, Via Svezia 10, 56100 Pisa.	Mutagenic and cancerogenic studies of marine pollution (G. BRONZETTI)	\$40.200	50.00%	D/K	WHO
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)	\$244.400	50.00%	D	WHO
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)	\$98.500	15.00%	D	WHO
31 Gruppo Ricerca Oceanologica-Genova, Istituto di Fisiologia Generale, Università degli Studi, Corso Europa - Palazzo delle Scienze, 16132 Genova.	Enzymic aspect of the xenobiotic-metabolizing systems in <i>Mytilus galloprovincialis</i> Lam. (A. VIARENGO)	\$20.600	45.00%	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. FRACIÈ)	\$32.000	65.00%	L	IAEA

NAME & ADDRESS OF INSTITUTE	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR	TOTAL COST OF PROJECT	REQUESTED FROM M.T.F.	ACTI- VITY	AGENCY
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)	\$110.000	40.90%	F	IOC
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)	\$110.000	40.90%	L/ monitoring	WHO
35 Istituto per lo Studio della Dinamica delle Grandi Masse del Consiglio Nazionale delle Ricerche, 1364 San Polo, 30125 Venezia.	Flow of pollutants (nutrients and heavy elements) into the lagoon of Venice from natural and agricultural rivers (F. COSTA)	\$220.000	40.90%	L	UNESCO
36 Istituto di Anatomia Comparata, Università di Siena, Via delle Cerchia, 3, Siena.	Biogeochemical cycle of mercury and selenium (A. RENZONI)	\$20.000	50.00%	K	FAO
37 Istituto di Chimica Generale ed Inorganica Facoltà di Chimica Industriale Calle Jargo, S. Marta 2137 30123 Venezia, Italy	Transport mechanism of pollutants at the sediment- water interface (A.A. ORIO)	\$130.500	15.00%	L	IOC
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)	\$47.600	25.00%	G	FAO
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)	\$120.000	1.00%	F	IOC

NAME & ADDRESS OF INSTITUTE	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR	TOTAL COST OF PROJECT	REQUESTED FROM M.T.F.	ACTI- VITY	AGENCY
2 Lab. de Microbiologie et d'Etudes des Pollutions Marines, Centre Scientifique de Monaco.	Modification des conditions écologiques dans un système côtier semi-fermé, soumis aux effets de l'activité humaine (R. VAISSIERE)	84.000	1.00%	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)	\$72.000	1.00%	monitoring	
4 Lab. de Microbiologie et d'Etudes des Pollutions Marines, Centre Scientifique de Monaco.	Evaluation des études en cours sur les flux à travers les détroits et les seuils séparant les différents bassins de la Méditerranée (R. VAISSIERE)	\$14.000	2.00%	L	IOC
SPAIN					
1 Quimica Analitica, Instituto Quimico de Sarria, c/ Institut Quimic de Sarria, s/n 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. GASSIOL-MATAS)	\$35.866	81.00%	Ao/ monitoring	IAEA
2 Conselleria de Ecologia i Medio Ambiente, Avgda. Marti Pujol, 86-atic, Badalona.	Evolucion de la contaminacion bacteriana de origen fecal en el litoral Badalonés, a lo largo del dia y a su vez en el tiempo (F. LUCENA-GUIERREZ)	\$23.220	50.00%	Ao/ monitoring	WHO
3 Laboratorio Municipal, Conselleria de Sanitat, Ajuntament de Badalona, c/ Marti Pujol No 86 1º, 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 (G. PIERA)	\$49.650	51.00%	D	WHO

NAME & ADDRESS OF INSTITUTE	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR	TOTAL COST OF PROJECT	REQUESTED FROM M.T.F.	ACTI- VITY	AGENCY
4 Laboratorio Municipal, Conselleria de Ecologia i Medio Ambiente, c/ Marti Pujol No 86 1º, Badalona.	Diferencias de eficacia en la recuperacion de estreptococos fecales en las temperaturas de incubacion de 37º y 44º C (F. LUCEÑA GUJERREZ)	\$5.650	50.00%	Ao	WHO
5 Instituto Quimico de Sarria, Quimica Analitica Barcelona-17	Puesta a punto de la determinacion de selenio, arsenico, plomo, cadmio y mercurio organico, en sedimentos, agua y organismos (J. OBIDOLS)	\$17.215	8.00%	Ao	IAEA
TUNISIA					
1 Service de Biologie marine Institut Pasteur 13 Place Pasteur, BP 74 1002 Tunis Belvédère	Modification des écosystèmes par la pollution (C. CAPAPE)	\$21.500	?	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)	\$2.200	?	Ao/D	WHO
3 Service de Bactériologie des Eaux et des produits alimentaires Institut Pasteur 13 Place Pasteur, BP. 74 1002 Tunis Belvédère	Survie des entéro-bactéries pathogènes (Salmonella) des Vibrions (VAG vibrions et vibrions parahémolytiques) et des germes marqueurs de pollution fécale (Coliformes et Streptocoques fécaux) en relation avec certains facteurs physico-chimiques (pH, température, salinité, oxygène dissous DPO ₅ , DCO) du milieu marin (S. JEKOV)	\$21.500	?	K	WHO
4 Laboratoire d'Océanographie et de pollution marine Institut National Scientifique et Technique d'Océanographie et de Pêche Salammbou.	Eutrophisation et floraisons concomitantes de plancton (M.S. HADJ ALI)	\$20.000	40.00%	H	FAO

NAME & ADDRESS OF INSTITUTE	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR	TOTAL COST OF PROJECT	REQUESTED FROM M.T.F.	ACTI- VITY	AGENCY
YUGOSLAVIA					
1 Dept of Chemical Oceanography, Institute of Oceanography & 58000 Split.	Study and monitoring of toxic heavy metals (Zn,Cd,Pb,Cu,Hg) in sea-water, sediments and organisms in Kastela Bay (I. VUKADIN)	\$92.600	40.00%	I	monitoring
Dept of Biology, Institute of Oceanography and Fisheries, Split.	Pollution-induced ecosystem modification in the coastal area of the Central Adriatic (D. REGNER)	\$28.450	50.00%	I	FAO
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)	\$22.800	50.00%	H	FAO
4 Laboratory of Marine Biology, Institute of Oceanography and Fisheries, Split.	Coastal water quality control in the Split area (S. SUBOTI)	\$30.620	70.00%		monitoring
5 Laboratory of Biology, Institute of Oceanography and Fisheries, Split.	Research on the effects of oil dispersants on marine organisms (N. TUDOR)	\$32.100	33.00%	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 (N. GACIC)	\$25.600	45.00%	F	IOC
7 Biological Institute, Dubrovnik Institute for Oceanography and Fisheries, Split.	Investigation of zooplankton communities in the Northern Adriatic Sea. (A. BENOVIC)	\$94.200	22.00%	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)	\$61.300	10.00%	II	FAO

NAME & ADDRESS OF INSTITUTE	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR	TOTAL COST OF PROJECT	REQUESTED FROM M.T.F.	ACTI- VITY	AGENCY
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)	\$126.000	10.00%	Am	IAEA
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)	\$113.600	7.00%	L	IAEA
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)	\$45.000	10.00%	K	IAEA
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)	\$18.600	20.00%	J	FAO
13 Center for Marine Research, Rudjer Boskovic Institute Zagreb.	Modelling eutrophication processes in the Northern Adriatic (I. LEGOVIC)	\$60.270	9.20%	II	FAO
14 Center for Marine Research, (Rovinj) Institut fur Physiologische Chemie, Mainz. Rudjer Boskovic Institute, Zagreb	The correlation between levels and effects of mutagenic pollutants in marine environment (B. KURELEC)	\$86.500	33.00%	D/K	WHO
15 Center for Marine Research, Rudjer Boskovic Institute, Zagreb.	Mathematical modelling of horizontal circulation and vertical distribution of currents in the Northern Adriatic (N. KUZMIR)	\$62.800	12.60%	F	IOC
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)	\$38.900	13.60%	Am	IOC

NAME & ADDRESS OF INSTITUTE	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR	TOTAL COST OF PROJECT	REQUESTED FROM M.I.F.	ACTI- VITY	AGENCY
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)	\$58.675	10.00%	An	IOC
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)	\$58.582	10.00%	An	IOC
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)	\$264.525	16.20%	I	FAO
20 Center for Marine Research Rudjer Boskovic Institute, Rovinj.	Survival of some intestinal pathogens in the marine environment (D. FUKS)	\$14.500	34.00%	K	WHO
21 Center for Marine Research, Rudjer Boskovic Institute, Zagreb.	Toxicity and bioaccumulation of pollutants in marine organisms (M. OZRETIC)	\$86.197	30.00%	G	FAO

Activities to be undertaken

- ACTIVITY "A" - Development and testing of sampling and analytical techniques for monitoring of marine pollutants
- ACTIVITY "B" - Development of reporting formats required according to the Dumping, Emergency and Land-Based Sources Protocols
- ACTIVITY "C" - Formulation of the scientific rationale for Mediterranean Environmental Quality Criteria
- ACTIVITY "D" - Epidemiological studies related to Environmental Quality Criteria
- ACTIVITY "E" - Guidelines and criteria for the application of the Land-Based Sources Protocol
- ACTIVITY "F" - Research on oceanographic processes
- ACTIVITY "G" - Research on the toxicity, persistence, bio-accumulation, carcinogenicity and mutagenicity
- ACTIVITY "H" - Eutrophication and concomittant plankton blooms
- ACTIVITY "I" - Pollution-induced ecosystems modifications
- ACTIVITY "J" - Effects of thermal discharges on coastal organisms and ecosystems
- ACTIVITY "K" - Biogeochemical cycles of specific pollutants
- ACTIVITY "L" - Pollutant-transfer processes

ANNEX V

Second Meeting of the Working Group for
Scientific and Technical Co-operation

Athens, 11-15 October 1982

PROVISIONAL AGENDA

1. Opening of the Meeting
2. Organization of the Meeting
3. Report on the implementation of the monitoring activities and recommendations for activities to be undertaken in 1983.
4. Report on the implementation of the research activities and recommendations for activities to be undertaken in 1983.
5. Review of the present state of pollution of the Mediterranean Sea and proposed control measures:
 - (i) mercury pollution
 - (ii) microbial pollution
6. Other matters
7. Adoption of the report and closure of the Meeting

Second Meeting of the Working Group for
Scientific and Technical Co-operation

Athens, 11-15 October 1982

LIST OF DOCUMENTS

A. WORKING DOCUMENTS

- | | |
|--------------|--|
| UNEP/WG.XX/1 | Provisional Agenda |
| UNEP/WG.XX/2 | Provisional Annotated Agenda |
| UNEP/WG.XX/3 | Report on the implementation of the monitoring activities in 1982 and recommendations for activities to be undertaken in 1983. |
| UNEP/WG.XX/4 | Report on the implementation of the research activities in 1982 and recommendations for activities to be undertaken in 1983. |
| UNEP/WG.XX/5 | Assessment of the present state of pollution by mercury in the Mediterranean Sea and proposed control measures. |
| UNEP/WG.XX/6 | Assessment of the present state of microbial pollution in the Mediterranean Sea and proposed control measures. |

B. INFORMATION DOCUMENTS

- | | |
|--------------------|---|
| UNEP/WG.XX/INF.1 | List of documents |
| UNEP/WG.XX/INF.2 | Reference Methods for pollution studies. |
| UNEP/WG.62/7 | Report on the First Meeting of the Working Group for Scientific and Technical Co-operation. |
| UNEP/WG.62/3/Rev.1 | Basic criteria for the implementation of national monitoring programmes. |
| UNEP/WG.62/4/Rev.1 | Basic criteria for the implementation of research activities. |

C. BACKGROUND DOCUMENTS

Report of the Meeting of Government Experts on Regional Marine Programmes (Nairobi, 18-21 January 1982). UNEP/WG.63/4.

Achievements and planned development of UNEP's Regional Seas Programme and comparable programmes proposed by other bodies. UNEP Regional Seas Reports and Studies No. 1. UNEP 1982.

Co-ordinated Mediterranean Pollution Monitoring and Research Programme (MED POL - PHASE I : 1975-1980). Programme Description. UNEP Regional Seas Reports and Studies No.15. UNEP 1982.

Co-ordinated Mediterranean Pollution Monitoring and Research Programme (MED POL - PHASE I : 1975-1980). Final Report. UNEP Regional Seas Reports and Studies No.16. UNEP 1982.

Co-ordinated Mediterranean Pollution Monitoring and Research Programme (MED POL - PHASE I : 1975-1980). Individual Scientific Reports of Participants. UNEP Regional Seas Reports and Studies No.17. UNEP 1982.

Selected Bibliography on the Pollution of the Mediterranean Sea. UNEP 1981.

(Other documents prepared by Co-operating Agencies)

ANNEX VI

List of National Co-ordinators for MED POL - PHASE II

ALGERIA M. R. Semroud
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Deputy President
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Administrateur Principal
Gestion des eaux - DG XI
Commission des Communautés européennes
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Chargé de Mission à la Direction de la Prévention
des Pollutions
Ministère de l'Environnement et du Cadre
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92524 Neuilly sur Seine

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Président du Conseil national de la
Recherche scientifique
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Beyrouth

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 Ministry of the Interior
 Jerusalem

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 University of Genova
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 16126 Genova

MONACO S.E. M.C. Solamito
 Ministre plénipotentiaire
 Délégué permanent auprès des Organismes
 internationaux
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 16 Bld. de Suisse
 Monte Carlo

 c.c. M. Alain Vatrican
 Secrétaire Général
 Centre Scientifique de Monaco
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SPAIN M. J. Ros
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 Instituto Espanol de Oceanografia
 Alcala 27
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TUNISIA M. S. Hadj Ali
 Directeur de l'Institut national scientifique
 et technique d'Océanographie et de Pêche
 Salambo
 Tunis

TURKEY Ms. T. Oney
 Head, International Relations Department
 Undersecretariat for Environment Problems
 Office of the Prime Minister
 Ankara

YUGOSLAVIA Mr. L. Jeftic
 Director
 Department of Planning and Environmental Protection
 in the Commission for the Adriatic and Republic
 Committee for Building, Housing, Public Works and
 Environment Protection of the Socialist Republic of
 Croatia
 Marulicev trg 16
 Zagreb

NAME & ADDRESS OF INSTITUTE	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR	TOTAL COST OF PROJECT	REQUESTED FROM M.T.F.	ACTI- VITY	AGENCY
GREECE					
1 Dept of Hydraulics, School of Technology, Aristotlie University of Thessaloniki.	Development of mathematical models for horizontal transport of pollutants in coastal areas of the Mediterranean Sea (J. GANGLIS)	\$17.000	20.00%	F	IOC
2 Zoological Laboratory, University of Athens, Panepistimiopolis, 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. MORAITIOU-APOSTOLOPOLOU)	?	?	G	FAO
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)	\$30.000	13.30%	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. SCULLLOS)	\$28.950	32.00%	L	UNESCO
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)	\$92.125	33.00%	L	IOC
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)	\$68.400	44.15%	AO	FAO/IAEA
3 Dept of Biology, Israel O. & L. Research, Haifa.	Effect of pollution on microbial communities in the Eastern Mediterranean Sea (B. CAVARI)	\$97.000	30.00%	K	WHO
4 Chemical Oceanography & Marine Pollution Dept. Israel O. & L. Research, Haifa.	Biogeochemical cycle of mercury in a polluted area (B.S. KRUMGALZ)	\$91.875	36.46%	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)	\$67.000	44.25%	AO	FAO

NAME & ADDRESS OF INSTITUTE	TITLE OF PROJECT AND PRINCIPAL INVESTIGATOR	TOTAL COST OF PROJECT	REQUESTED FROM M.T.F.	ACTI- VITY	AGENCY
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 (H.I. SHUVAL)	\$61.500	42.00%	D	WHO
7 Laboratory of Population Biology & Laboratory of Marine Biology, Prof. Eviatar Nevo, Institute of Evolution, University of Haifa, Haifa 31999.	The genetic structure of marine organisms as a detector and monitor of marine pollution (E. NEVO)	\$47.700	42.35%	G	FAO
ITALY					
1 Dipt. Protezione Ambientale (Lerici), CNEN - Roma.	Modelling of the biogeochemical cycle of mercury in the Mediterranean (M. BERNHARD)	\$27.000	7.40%	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)	\$62.500	100.00%	F	IOC
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)	\$61.500	15.00%	L	IAEA
4 Osservatorio Meteorologico di Brera, Brera, Via Brera 28, 20121 Milano.	Dynamic climatology & modelling of long range transport of air pollution over Mediterranean sea (L. SANTOMAURO)	\$150.000	60.00%	L/ monitoring	WHO