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REPORT ON PAP ACTIVITIES WITHIN MAP CAMPS
IN THE PERIOD 1990-1991

FOR REASONS OF ECONOMY, DELEGATES
ARE KINDLY REQUESTED TO BRING THEIR
DOCUMENTS TO THE MEETING

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I. INTRODUCTION

1. Background Information

In order to verify in practice the orientation towards the environmentally sound integrated planning and management of the resources in the Mediterranean coastal areas, the Mediterranean Action Plan (MAP) introduced a new form of area-specific activity based on the integration of knowledge and experience gained in all MAP components. The Sixth Ordinary Meeting of the Contracting Parties decided to carry out four Coastal Area Management Programme (CAMP) in the biennium 1990-1991: The Bay of Izmir - Turkey, the Bay of Kasteia - Yugoslavia, The Coastal Region - Syria and The Island of Rhodes - Greece.

These Programmes evolved from the Priority Actions Programme (PAP) Country Pilot Projects (CPP) launched in the biennium 1988-1989 as a new form of advanced collaboration between PAP and other MAP components with national and local institutions. In that period, in all of CPPs, preparatory activities were completed, while in some of them concrete activities were carried out.

In 1990, MAP and respective Governments have signed agreements to implement CAMPs (in Syria and Turkey in June, in Greece in November, and in Yugoslavia in December). Those agreements defined objectives, workplans for each activity, obligations of each signatory party, and financial arrangements for the implementation of each CAMP.

2. Programme of CAMPs activities

On the basis of a preliminary list of activities prepared by MAP, the signatory parties defined specific list of activities for each CAMP. General objective of each CAMP was the creation and promotion of the process of integrated planning and management of coastal resources. The implementation of this objective is to be carried out through a certain number of individual activities (Syria - 10, Turkey - 11, Greece - 14, and Yugoslavia - 12). The activities are listed in four groups:

- implementation of legal instruments
- analysis of natural resources
- analysis of man-made resources
- planning and management.

The following table contains the list of activities selected for each ongoing CAMP in the 1990-1991 biennium.

Activities within Coastal Area Management Programmes in 1990-1991
(S-Syria, T-Turkey, G-Greece, Y-Yugoslavia)

Activity	S	T	G	Y
<u>Implementation of legal instruments</u>				
Land Based Sources of Pollution and Dumping Protocol	x	x	x	x
Emergency Protocol and MARPOL Convention	x	x	x	x
Monitoring of the marine environment	x	x	x	x
<u>Resources</u>				
Implications of expected climatic changes	x	x	x	x
Study of the assimilative capacity		x		
Study of the recovery of the natural system		x		
General water resources master plan			x	x
Water resources study of the island				x
<u>Activities</u>				
Protection and management plan for historic monuments	x		x	
Programme of environmentally sound energy planning			x	
<u>Planning and management</u>				
Application of GIS	x	x	x	x
Environmental impact assessment	x	x	x	x
Development-environment scenarios	x	x	x	x
Training on integrated planning			x	
Integrated planning and management study		x	x	
Coastal resources management plan	x			
Specialty protected areas study	x	x	x	x
Liquid waste management programme			x	x
Hazard assessment and risk management				x

In the implementation of these activities all MAP regional activity centres are involved, as well as Atelier du Patrimoine of Marseille. Besides local and national institutions and experts the support of UNEP-Nairobi, other UN agencies, the World Bank and European Investment Bank was envisaged.

3. PAP Involvement in CAMPs

PAP was to take part in the implementation of all CAMPs, with 21 activities out of total of 47 (Kastela - 6, Syrian coastal region - 3, Rhodes - 7, and Izmir - 5). Almost all of PAP activities have started in this biennium, and majority of them have already been completed or will be completed in the near future. This report will embark in detail the PAP activities in each CAMP, present a financial report, evaluation and problems encountered in the course of implementation. Finally, it also contains a proposal for PAP activities in the ongoing CAMPs for the biennium 1992-1993. The list of documents prepared in this period is given in Annex I, while the list of international, national and local experts who participated in the implementation of PAP activities is given in Annex II.

II REPORT ON PAP ACTIVITIES WITHIN CAMPS

1. CAMP "THE COASTAL REGION OF SYRIA"

1.1 Background information

In June 1990, the Government of Syria and MAP signed "An Agreement relative to the Coastal Area Management Programme for the Coastal Region of Syria" for the 1990-1991 biennium. This agreement covered the continuation of activities undertaken in this area in the previous biennium as PAP CPP "The Syrian Coastal Region".

In the 1988-1989 biennium, preparatory activities were completed laying grounds for the outset of individual activities in the following two-year period. Serious efforts were made on establishing the process of integrated planning and management of the coastal area of Syria, particularly through the preparation of "Preliminary Study of the Integrated Plan for the Syrian Coastal Region". Report on the implementation of activities in the 1988-1989 period is contained in the document "Report on PAP activities in PAP pilot project "The Syrian Coastal Region in 1988-89" (CPP/1988-89/SY/Rep.1).

The Agreement for the 1990-1991 biennium envisaged 10 activities in which, from the side of MAP, MEDPOL was to be included in 3 activities, REMPEC, the BLUE Plan and SPA in one activity each, PAP in three activities and Atelier du Patrimoine de la Ville de Marseille in one activity. Ministry of State for the Environment (in co-operation with the local authorities of Tartous and Lattakia) was appointed from the Syrian side as the implementing authority.

1.2 Implementation of PAP activities in 1990-1991

Out of 10 activities envisaged in the Agreement, PAP was entrusted with the following:

- (1) Coastal resources management plan (CRMP).
- (2) Training programme on Geographical Information System (GIS).
- (3) Environmental impact assessment (EIA).

1.2.1 Coastal Resources Management Plan

Implementation of this activity directly follows the work on the Preliminary Study which was completed in the previous biennium. The Study provided a general framework for the coastal region development, whereas the Management Plan was expected to elaborate in detail on development options and principles of environmental protection in the coastal strip of the region. In the 1990-1991 period, a considerable effort was made for the promotion of the integrated planning process, namely:

- In June 1990, on the occasion of the Agreement signing and in the presence of the representatives of authorized Ministries, a presentation of the Preliminary Study was organized in Damascus.
- Preparations for the work on the plan were made at the consultative meetings held in Damascus (June and November 1990) and Split (September 1990). Also a workplan for the Coastal

Resources Management Plan (CRMP), as well as all necessary organizational and professional preparations, were made.

- The first phase of the plan preparation was completed in December 1990. A team of PAP experts went to Syria and worked together with local and national experts on a detailed survey of the state of resources in the coastal strip of the region.
- The second phase of the plan preparation was completed in April 1991, when a team of PAP experts visited Syria again and made an evaluation of the coastal resources and set the basis for drafting a proposal for their use.
- The third (the final) phase of the preparation of CRMP was completed in August-September 1991. PAP head of the team, together with local and national experts, developed proposals for land use and for the use of other resources of the coastal region.
- Following various phases of the plan, a number of complementing sectorial documents were prepared. The final report on CRMP is currently being drafted.

It may be stated that nearly 95 per cent of the envisaged programme has been completed. After the draft final report has been finished, PAP will review and finalize it. It is expected that the report will be presented to the Syrian authorities in the first half of 1992.

1.2.2 Training programme on GIS

The programme started simultaneously with the preparation of CRMP. In addition to a training of national experts in handling the pcARC/INFO, a practical application was prepared and used in the CRMP preparation. The software was made available by PAP on a non-commercial basis, and the training was effectuated with the assistance of GORS, a national remote-sensing organization who provided the hardware. The following has been completed so far:

- Syrian experts attended in September 1990 an orientative training course on GIS organized by PAP in Split. The course was addressed to the national and local experts who were expected to take the leading role in the implementation of GIS programme within various CAMPs.
- Preparations for the organization of the course and checking of the capacity of equipment in GORS were made in November 1990.
- The first phase of the training course was effectuated in Damascus in December 1990. The initial phase of the training course was completed and the documentation for a practical application was prepared.
- The second phase of the training course was completed in April 1991. The trainees were explained some advanced operations, and a selection was made of proposals for GIS modelling (in co-operation with the CRMP working team) which will be used as the practical application.

- The third phase of the training course was focused on the preparation of the practical application, as well as to handling the software (August 1991).
- A document was prepared on the practical application of GIS ("Model of attractiveness for growth/development and potential impact upon coastal zone resources") which was used in the CRMP preparation.
- The final phase of the training course was effectuated in Damascus in November 1991. The participants were demonstrated the possibilities of the most recent version of the software. Also, the evaluation of the course was made.

It may be stated that 95 per cent of the programme has been completed. What remains is the final report of the course and proposals for a follow up.

1.2.3 Environmental impact assessment (EIA)

An EIA was envisaged for the Amrit tourist complex (located in the vicinity of Tartous). Its construction is planned for the near future. This activity started in the second half of 1991 and the following has been completed so far:

- A position paper on the Amrit complex was prepared. It is the basis for the Environmental Impact Assessment.
- A local expert attended a PAP workshop on EIA organized in Malta in May 1991.
- Preparatory activity for the EIA were completed in November 1991 during a mission of PAP co-ordinator for EIA in Syria.

It may be stated that 10 per cent of the programme has been completed so far. Although it was initially planned that this activity be financed from funds envisaged in the Agreement, it was later decided that the means be drawn from the priority action "Environmental Impact Assessment", actually from allocations for testing a practical approach to EIA proposed by PAP and OCA/PAC-UNEP.

1.2.4 Other activities

As part of the promotion of CAMPs, a Syrian expert prepared a paper on the "Preliminary Study of the Integrated Plan for the Syrian Coastal Region". The paper was presented at the International Symposium "Littoral 90" organized by the EUROCOAST Association in Marseille in July 1990.

1.3 Appraisal of the programme implementation

Activities of PAP in the 1990-1991 biennium were geared to the establishment of the integrated planning and management process in coastal zones. These activities included the preparation of documents and training on the use of the management and planning tools and techniques. Such an orientation was logical, because very good results were achieved in this domain in the previous two-year period (a team of local and national experts was created, and the necessary baseline documents prepared) and the need for such activities appears to be considerable in Syria.

CRMP is progressing fine and very good results has been achieved within the training programme on GIS. It is expected that all necessary documents will be finalized in the first quarter of 1992. However, an additional effort will have to be made, particularly by Syrian authorities, to secure that the plan be implemented and that the system of collection, monitoring and use of the database to be established in the frame of GIS be organized.

2. CAMP "THE BAY OF KASTEJA"

2.1 Background information

In December 1990, the Government of Yugoslavia and MAP signed "An Agreement relative to the Coastal Area Management Programme for the Bay of Kastela - Yugoslavia" in the 1990-1991 biennium. This agreement covered the continuation of activities undertaken in this area in the previous biennium as PAP CPP "The Bay of Kastela".

Implementation of this CAMP is closely linked to the national project "Management of Natural Resources of the Kastela Bay" which requires its goals and results to be strictly directed to the needs of the national project. However, the programme of work was set so as to enable its application in other areas of the Mediterranean. In the 1988-1989 period, the activities were geared to (a) resolution of acute ecological problems of the bay; (b) upgrading of the technical and scientific knowledge required for designing and construction of sewage treatment plants; (c) application and testing of contemporary methods and techniques of planning, an international evaluation of the problems and recognition of the project; and (d) creation of appropriate conditions for international financing. Report on the implementation of activities in the 1988-1989 period is contained in the document "Report on PAP activities in PAP pilot project "The Bay of Kastela in 1988-89" (CPP/1988-89/YU/Doc.4/1).

The Agreement for the 1990-1991 biennium envisaged 12 activities in which, from the side of MAP, MEDPOL was to be included in 3 activities, REMPPEC, the Blue Plan and SPA in one activity each, and PAP in six activities. Ministry of Environment, Physical Planning and Building of the Republic of Croatia and the Municipalities of Split, Solin, Kastela and Trogir were appointed from the national side as the implementing authorities. The largest part of activities were expected to be supported by the World Bank.

2.2 Implementation of PAP activities in 1990-1991

Out of 12 activities covered by the Agreement, PAP was entrusted with the following:

- (1) Application of GIS.
- (2) Survey of water resources of the western part of the area.
- (3) Survey of water resources of the islands Drvenik Veli and Drvenik Mali.
- (4) Hazard assessment and management of environmental risk from energy, industries, transport and other activities (HARM).
- (5) Environmental impact assessment.
- (6) Study to determine the optimum treatment level for municipal waste waters.

PAP also took part, together with the Blue Plan, in the preparation of a development-environment scenario.

2.2.1 Application of GIS

With the assistance of GRID and UNITAR, the pcARC/INFO software was obtained. An extensive training course and the preparation of a practical

application were organized for an multidisciplinary team of local experts. The objective of this activity was to create a core group of experts capable of leading GIS training in other Mediterranean countries. Another objective of this activity was to examine the possibilities for applying GIS in the process of integrated planning and management in coastal areas in other Mediterranean countries.

In preparing this activity, a number of meetings were held. It was then decided to start developing a model of GIS utilization in determining the urban rent to secure the optimal use of coastal resources. The following was completed in the 1990-1991 biennium:

- Two local experts attended, in the first half of 1990, a 6-month UNITAR training course (Geneva) on remote sensing in resource management.
- An expert meeting was held in May 1990 to discuss how this activity was going to be carried out and prepare an introductory paper which contained the basis for including the urban rent in resource management.
- An advance training course on pcARC/INFO was organized in January 1991 for the local group of experts. The course was led by an authorized expert from the firm of software manufacturers (ESRI, USA). All participants obtained a certificate authorizing them to lead the training courses in the Mediterranean region.
- A training course on GIS for the second group of local experts was organized in September 1991. The course was headed by the members of the GIS core group, which were expected to prepare GIS applications for the urban rent.
- A model of GIS application for soil evaluation in the process of integrated planning in coastal zones was completed.
- The first phase of GIS application in tackling the problems of urban rent was completed.

It may be stated that approximately 70 per cent of the programme has been completed. What remains is to finish the practical applications for the urban rent. This is being prepared in co-operation with several municipal institutions and with support of the World Bank.

2.2.2 Survey of water resources of the western part of the area

The objective of this activity was to produce a document containing the basis for the protection of water resources in the western part of the Kastela Bay area. The following has been completed:

- Several preparatory meetings were held in Split in the course of 1990. The meetings were attended by the working team and the representatives of authorities of the area for which the study was being prepared. They agreed on the methodological, organizational and financial aspects of the study preparation.

- The document "Study of the water resources in the western part of the Trogir and Kastela Communes" was completed in August 1991.

It may be stated that this activity has been completed in full. What remains to be done is a review of the document by an international expert, probably in the first half of 1992.

2.2.3 Survey of water resources of the Islands Drvenik Veli and Drvenik Mali

The aim of this activity was to produce a document which would contain the basis for the protection of water resources in the two islands. PAP used the experience acquired in carrying out similar activities on other Mediterranean islands. The following has been completed:

- Several preparatory meetings were organized in Split in 1990. The meetings were attended by the working team and the representatives of authorities of the Municipality of Trogir which is responsible for these two islands. They agreed on the methodological, organizational and financial aspects of the study preparation.
- The document "Analysis of water resources of the islands of Veli and Mali Drvenik" was submitted in August 1991.
- It may be stated that this activity has been completed in full. What remains to be done is a review of the document by an international expert, probably in the first half of 1992.

2.2.4 Hazard assessment and risk management

The objective of this activity was to examine the possibilities of using HARM as a tool in integrated planning and management of coastal zones on the example of the Kastela Bay, as well as for its later application in other Mediterranean countries. In the course of 1988-1989 a methodology was developed for carrying out this activity. The methodology was confirmed by relevant international institutions (IAEA, UNEP-IEO, an English and a Dutch institution). A working team of local experts was established. They started working on the study. About 60 per cent of the programme has been completed. It is expected that the study will be finished by the end of the first half of 1992 and reviewed by competent international institutions.

2.2.5 Environmental impact assessment

This activity included an EIA of the submarine outfall of the planned sewage treatment plan for the area of Split. This project has been carried out with a financial assistance of the World Bank which also provided support for the implementation of this PAP activity. EIA of the submarine outfall was being prepared according to a methodology developed by PAP in co-operation with OCA/PAC-UNEP. A number of preparatory meetings were held in the course of 1990 to discuss and develop the methodological, organizational and financial aspects of the EIA preparation. The EIA document was completed at the end of 1991.

2.2.6 Study to determine the optimum treatment level for municipal waste waters

This activity is in function of finding out the best possible solutions for the construction of a system of waste water disposal for the area of Split. The financial support has been secured by the World Bank. In the course of 1990, several preparatory meetings were held and the contract signed for the study. The study will be completed in the first quarter of 1992. It may be stated that 80 per cent of the programme has been completed. The review of the study will be finished in the first half of 1992.

2.2.7 Development-environment scenarios

In consultation with the Blue Plan, a methodological document was completed in the 1988-1989 period for a development-environment scenario on a local level. The actual outset of work on the scenario started in the 1990-1991 biennium. Its aim was to examine the interrelations between natural resources, development and environment in the Bay of Kastela and to produce alternative development scenarios. The following has been completed:

- Several consultative meetings were held in Sophia Antipolis and Split with the Blue Plan experts on the operationalization of the method for the scenarios preparation.
- The leader of the team for the scenarios prepared a paper on this activity and presented it at the International Symposium "Littoral 90" organized by the EUROCOAST Association in Marseille in July 1990.
- A number of sectorial documents were prepared as well as a synthesis report presenting the development scenarios.
- The synthesis report was discussed, amended and finalized at a meeting held with the representatives of the Blue Plan in Sophia Antipolis (November 1991).

This activity has been completed in full.

2.3 Appraisal of the programme implementation

Preparations for the Agreement signing lasted a long time. On the other hand, this enabled the conditions to be created for starting the activities immediately after the Agreement was signed.

The activities completed so far have been geared to upgrading the knowledge on various important ecosystems of the Kastela Bay, as well as to the development of techniques and tools of integrated planning and management of coastal areas.

The programme is approaching its end, particularly in its part which refers to obtaining the necessary knowledge on ecological problems. What remains to be done within this CAMP is to continue testing the new techniques and tools of integrated planning and management. The same applies to the study of various issues of particular importance for environmental management (economic valuation of resources, application of economic instruments, institutional arrangements, etc.).

3. CAMP "THE BAY OF IZMIR - TURKEY"

3.1 Background information

In June 1990, the Government of Turkey and MAP signed "An Agreement relative to the Coastal Area Management Programme for the Bay of Izmir - Turkey" for the 1990-1991 biennium. This agreement covered the continuation of activities undertaken in this area in the previous biennium as PAP CPP "The Bay of Izmir".

The 1988-1989 biennium was actually a preparatory period during which a basis was laid for the outset of various activities in the following biennium. Serious efforts were made on establishing the process of integrated planning and management in the area of Izmir. Furthermore, owing to a number of studies prepared, environmental knowledge on ecosystems of this area was enhanced. Report on the implementation of activities in the 1988-1989 period is contained in the document "Report on PAP activities in PAP pilot project "The Bay of Izmir" in 1988-89" (CPP/1988-89/TR/Rep.1).

According to the Agreement covering the 1990-1991 period, 11 activities were envisaged in which, from the side of MAP, MEDPOL was included in 3 activities, REMPEC, the Blue Plan and SPA in one activity each, and PAP in five activities. Undersecretariat for the Environment (now Ministry of the Environment) and the Metropolitan Municipality of Izmir were determined from the Turkish side as the implementing authorities. The World Bank was also expected to provide support for the majority of activities, but for reasons beyond MAP control, the envisaged financial means were not activated in the 1991-1991 biennium.

3.2 Implementation of PAP activities in 1990-1991

Out of 11 activities envisaged in the Agreement, PAP was entrusted with the implementation of the following:

- (1) Integrated planning study for the area of Izmir.
- (2) Training programme on GIS.
- (3) Study of the assimilative capacity of the Izmir Bay.
- (4) Study of the recovery of the Inner Bay of Izmir.
- (5) EIA of the submarine outfalls.

3.2.1 Integrated planning study for the area of Izmir

A number of preparatory activities was completed over the 1988-1989 biennium (a number of papers commissioned to assess the state of planning practice in Izmir; an expert meeting on the methodological framework; a training course on integrated planning). This provided a solid basis for the work on the study. In co-operation with national and local authorities, it was decided that the study should be a document providing (a) an analysis of the state of development and use of natural resources in the area of Izmir; (b) review of the level of implementation of the existing Master Plan of Izmir; (c) arguments for a revision of the Master Plan in accordance with the principles of a sustainable development and on the basis of the methodology of integrated planning and management of coastal areas. The following has been completed so far:

- A number of preparatory meetings were held discussing the methodological, organizational and financial aspects of the study preparation. These meetings resulted in a workplan for the study preparation which was adopted by the national and local authorities.
- The document "A Review of Planning Studies in the Metropolitan Municipality of Izmir" was prepared, which gives a valuation of the hitherto implementation of the Master Plan of Izmir.
- Within the first phase of the study preparation, the first mission of PAP experts visited Izmir in September-October 1991. During that time, a team of national and local experts was organized; the type and amount of data needed were determined; a part of necessary information was collected; consultations were carried out with a number of relevant institutions and experts; and a methodological framework for the completion of the first phase of work was defined.
- Defined were the contents of and terms of reference for the preparation of sectorial documents which were to go in the report on the first phase of work.
- A good co-ordination was achieved with the team involved in the training programme on GIS. It was agreed that the practical application made within the framework of this programme be structured so as to serve for the study preparation.

It may be stated that about 25 per cent of the programme has been completed. To finish the first phase of work (the actual state and problem analysis; limits of development and resources) it will be necessary to organize yet another mission in order to assess fully the development and environmental problems of this large urban area.

3.2.2 Training programme on GIS

In implementing this programme, a close co-ordination of activities with the preparation of the planning study was envisaged. The training course for local expert in handling pcARC/INFO started earlier with a view of preparing these experts for the application at the very beginning of the study preparation. The software was provided by PAP (on a non-commercial basis), with the help of UNITAR. The host institution was the Planning Department of the Metropolitan Municipality of Izmir which created excellent conditions (hardware and premises) for carrying out the course. The following has been completed so far:

- Two experts from Izmir attended the Orientative Training Course on GIS which was organized by PAP in September 1990.
- The first phase of the training course was completed in Izmir in June 1990. An interdisciplinary team of local experts was explained the basic concept of GIS as well as the main operations on pcARC/INFO.
- The second phase of the course, organized in Izmir in July 1991, had the task to continue demonstrating the basic functions of the software and prepare the practical applications.

- The third phase of the course, organized parallelly with the mission dispatched to Izmir in September-October 1991 for the study preparation, was concentrated on the analytical operations of the software and the preparation of database.
- The part of the course related to the demonstration of basic operations of the software was completed during a mission organized in December 1991. The participants were trained in handling the most recent version of the software. Creation of the database for the needs of the study preparation continued.

The programme of training in the basic operations of pcARC/INFO addressed to a local team of experts was completed in full (100%). About 75 per cent of the programme on the creation of database for the planning study, as well as the preparation of spatial applications was completed.

3.2.3 Study of the assimilative capacity of the Izmir Bay

Although a significant part of preparatory activities had been completed in the 1988-1989 biennium, due to the fact that the expected support of the World Bank failed to be activated much progress was not made over the 1990-1991 period. However, a meeting was organized with a Turkish expert in Split in June 1991, a survey was made of the available information basis, additional research was proposed, and the workplan and timetable for this activity was reviewed. This activity is expected to start in the course of 1992.

3.2.4 Study of the recovery of the Inner Bay of Izmir

It was not possible to start this activity in 1990-1991 because the expected support of the World Bank failed to be activated. PAP made preparations for organizing a team of experts to be involved in this activity.

3.2.5 Environmental impact assessment

Again, due to the impossibility to activate the expected support of the World Bank, this activity has not yet started.

3.2.6 Other activities

As part of the promotion of CAMPs, a Turkish expert prepared a paper on the activities in Izmir. The paper was presented at the International Symposium "Littoral 90" organized by the EUROCOAST Association in Marseille in July 1990.

3.3 Appraisal of the program implementation

The characteristics of the Izmir programme lies in the fact that almost all activities require quite an amount of work due to the "weight" of development and environmental problems as well as the very size of the urban area covered.

Activities of PAP in the 1990-1991 biennium started in the fields which did not require major financial support by the others. However, even in these cases, the start of some activities was late, because the funds of PAP were

not made available on time. It may be stated that the programme of GIS has been completed almost in full, whereas the study preparation was partly lagging behind due to some organizational problems which had to be resolved before the work on the study started. PAP has managed after all to put together a team of local and national experts in the authorized institutions of Izmir for the implementation of the integrated planning process, which is a guarantee that the activities will continue and be completed.

4. CAMP "THE ISLAND OF RHODES - GREECE"

4.1 Background information

In November 1990, the Government of Greece and MAP signed "An Agreement relative to the Coastal Area Management Programme for the Island of Rhodes - Greece" for the 1990-1991 biennium. This agreement covered the continuation of activities undertaken in this area in the previous biennium as MAP CPP "The Island of Rhodes".

The 1988-1989 biennium was actually a preparatory period during which a basis was laid for the outset of various activities in the following biennium. Report on the implementation of activities in the 1988-1989 period is contained in the document "Report on PAP activities in PAP pilot project "The Island of Rhodes in 1988-89" (CPP/1988-89/GR/Rep.1).

According to the Agreement covering the 1990-1991 period, 14 activities were envisaged in which, from the side of MAP, MEDPOL is included in 3 activities, REMPEC, the Blue Plan and SPA in one activity each, PAP in seven activities and Atelier du Patrimoine de la Ville de Marseille in one activity. Ministry of the Environment, Physical Planning and Public Works, Prefecture of Dodecanese and Municipality of Rhodes were determined from the Greek side as the implementing authorities. The European Investment Bank was expected to provide support for the majority of activities, but for reasons beyond MAP control, the envisaged financial means were not activated in the 1990-1991 biennium.

4.2 Implementation of PAP activities in 1990-1991

Out of 14 activities envisaged by the Agreement, PAP was entrusted with the following:

- (1) Integrated planning study for the island of Rhodes.
- (2) Training programme on integrated planning.
- (3) Training programme on Geographical Information System (GIS).
- (4) Programme of environmentally sound energy planning.
- (5) Environmental impact assessment.
- (6) General water resources master plan.
- (7) Liquid waste management.

4.2.1 Integrated planning study for the island of Rhodes

This activity started immediately after the Agreement was signed. Preparatory activities were completed in the first half of 1991, and the actual work of a team composed of international, national and local experts started in the second half of the year. The following was completed so far:

- Consultation meetings preparing the work on the study (in Rhodes and Athens) were held in February and May 1991. All institutions and experts who were to take part in the study preparation were duly consulted.
- Workplan for the study preparation, taking account of all methodological, organizational and financial aspects was prepared, discussed and adopted at an expert meeting held in Athens.

- The first mission of PAP experts in Rhodes was organized in June-July 1991. Together with the involved national and local experts, PAP established the organizational structure of the team's work, selected and collected necessary data on the existing state of development and environment, and harmonized the activities with other relevant activities of this CAMP (GIS and scenarios).
- Nine sectorial reports were prepared concerning the analysis of the actual state of development and environment of in the island.
- The second mission of PAP experts to Rhodes was organized in November-December 1991. The missing data were collected, the database (with the use of GIS) was finally established, and the basis were determined for the preparation of the prospective part of the study. For the purpose of co-ordination with other activities of CAMP linked to the study preparation, a consultative meeting was held in Athens at the end of the mission.

It may be stated that about 40 per cent of the envisaged programme has been completed. A special mention should be made of a good co-ordination with other activities of CAMP, particularly GIS and scenarios, as well as the activities which have been carried out in Rhodes in the frame of the priority action "Tourism harmonized with the environment".

4.2.2 Training programme on integrated planning

Due to the fact that the level of professional knowledge of local and national experts was found satisfactory, it was felt that such a programme (in the form of a training course) was not needed. The methodological aspects of integrated planning, as well as relevant techniques and tools were explained in detail to the members of the working team in the course of the study preparation. The budget allocations for this activity will be used for the preparation of the integrated planning study.

4.2.3 Training programme on GIS

This activity started at the same time as did the preparation of the integrated planning study. The largest part of the training programme for local experts has been completed. The pcARC/INFO software for the purpose was made available to PAP (on a non-commercial basis) by UNITAR. Practical application, as a part of the training course, was focused on the preparation of a database for the needs of the planning study. Simultaneously, the conditions were created for GIS to be used in other activities of CAMP too. Hardware for the training course was provided by local authorities. The following has been completed so far:

- An expert from Rhodes attended the Orientative Training Course on GIS held in Split in September 1990. The course was organized for local experts who were to take the leading role in the implementation of GIS programmes within the frame of individual CAMPs.
- The first three-week mission (June-July 1991) in Rhodes had the task of providing an initial training course and prepare documentation for the preparation of a database.

- The second three-week mission (November-December 1991) had the task to carry out the second phase of the training course and analyze, in the framework of GIS, some aspects relevant for the preparation of the planning study.
- An "user interface" was prepared (according to the Agreement, this activity was financially supported by MEDU). This enabled a simple use of the database, particularly by those who were not trained for the use of Arc/INFO.

Until now, 75 per cent of the programme has been completed. A team of local experts has been created who are quite competent in handling the Arc/INFO software. Also, a great deal of the database has been completed.

4.2.4 Programme of environmentally sound energy planning

The 1990-1991 biennium was basically spent for preparatory activities. However, due to the scarcity of financial means which were to be secured by the European Investment Bank (EIB) and the Greek counterparts, the actual outset of the activity had to be postponed for the second half of 1991. In addition to several preparatory meetings, the following has been completed:

- A 5-day training course for the use of LEAP software for energy planning was held in Split in April 1990. The course was led by an expert from Tellus Institute (Boston), while PAP provided the hardware and logistic support. The course was attended by three experts from Greece who would be involved in the implementation of this activity.
- In September 1990, a Letter of Agreement was co-signed by UNEP's Energy Planning Unit and PAP. According to this agreement, UNEP was to support collection, processing and analysis of data for this activity, as well as provide an expert support.
- A detailed workplan for the project has been completed in November 1991. A brief training course on the softwares to be used in the implementation of the project was carried out as part of the mission of PAP co-ordinator for renewable energy sources to Athens and Rhodes.
- A contract was signed in November 1991 with the firm ENERSYS which was appointed, by Greek Focal Point for PAP, to implement the project.

The work on the project has already started (data collection). It may be stated that approximately 10 per cent of the programme has been completed. The rest will be completed in the course of 1992 and 1993.

4.2.5 Environmental impact assessment (EIA)

Preparation of an EIA of the submarine outfall for a new sewage treatment plant (under construction) was envisaged. The plant is situated in the vicinity of the City of Rhodes. The following has been completed:

- A local expert attended the PAP workshop on EIA organized in Malta in May 1991.
- Terms of reference for the preparation of the EIA by Greek experts were completed in consultation with PAP co-ordinator for this activity. At the beginning of November 1991, PAP signed a contract with these experts.

The initial phase of this activity is in course, but it is possible to state that about 30 per cent of the programme has so far been completed. Originally this activity was meant to be financed from the funds secured by the Agreement. Later, it was determined that the means be drawn from the priority action "Environmental Impact Assessment", actually from allocations for testing a practical approach to EIA proposed by PAP and OCA/PAC-UNEP.

4.2.6 General water resources master plan

A PAP expert (from Cyprus) prepared in April 1990 a document containing detailed terms of reference for the plan preparation. In June 1990, a preparatory meeting was held with IGME, a Greek institution, with whom a workplan for the implementation of this activity was agreed. Unfortunately, the Greek Ministry of Agriculture notified IGME that they were undertaking similar activities and that there was no need to do the same by MAP. By the end of 1991 no information was obtained on the progress of this activity by the Ministry of Agriculture. Although the Greek authorities has not given their consent for the implementation of this activity it is felt that, due to its importance for the global result of the CAMP, possibilities for its carrying out in the next biennium should be re-examined.

4.2.7 Liquid waste management

In June 1990, a meeting was held with Greek experts in Athens and a preliminary agreement was reached for the implementation of this activity. However, the activity has not yet commenced due to the fact that the financial support has not been secured neither by EIB nor the Greek counterparts, whereas the share of MAP alone is insufficient for starting it.

4.2.8 Other activities

- As part of the promotion of CAMPs, a Greek expert prepared a paper on the activities in Rhodes. It was presented at the International Symposium "Littoral 90" organized by the EUROCOAST Association in Marseille in July 1990.
- Within the frame of the priority action "Tourism harmonized with the Environment", a carrying capacity analysis for the area Falliraki-Lindos on Rhodes is being prepared on the basis of a methodology developed by PAP. The study will be carried out by

PAP experts and a group of local experts. Parallely with this study, a document will be prepared on to date development of tourism on the island and on its future prospects in accordance with environmental criteria. This document will be used in the preparation of the integrated planning study.

4.3 Appraisal of the programme implementation

In appraising the programme implementation in the 1990-1991 biennium, the fact should be taken account of that the Agreement was signed at the end of 1990 and that, consequently, the bulk of the programme was implemented in the course of 1991.

As the organizational and institutional conditions allowed it, the activity of PAP was focused on integrated planning and management wherein the biggest progress was made enabling this activity to be completed in the first half of 1992.

A lot was achieved in the activities linked to the techniques of planning and environmental management (GIS, EIA, Carrying Capacity Analysis). It is thus realistic to expect that these activities will be completed in the first quarter of 1992.

A good co-ordination was achieved with other activities of this CAMP, particularly with those whose results were to be used in the preparation of the integrated planning study (development-environment scenarios; study on the impacts of climate changes).

The major problem repeatedly faced is an untimely allocation of funds. Also, other expected funds (EIB, the Greek counterparts) for some activities were not activated preventing their commencement in the 1990-1991 biennium.

ANNEX I

CAMP "Coastal Region of Syria"

List of documents

- Coastal Resources Management Plan - Programme of Work (CAMP/1990-1991/SY/CRMP-PP)
- A Study for the Environmental Impact Assessment of Amrit Project
- Interim Report - The Water Resources Protection Plan of the Syrian Coastal Zone
- CRMP - Natural Environment and Resources - Inventory, Assessment, Goals, Recommendations (draft)
- CRMP - Inventory of the Coastal Zone Man-Made Resources (draft)
- CRMP - Planning and Management Proposals in the Coastal Zone (draft)
- Application of GIS in the Process of Integrated Planning and Management of Coastal Zones - Model of Attractiveness for Growth Development and Potential Impact upon Coastal Zone Resources (CAMP/1990-91/SY/GIS-TC.3.1)

List of reports and notes of missions and meetings

- Notes of the Meeting to Draft the Programme of PAP Activities to be Carried Out in the Frame of CAMP "Syrian Coastal Region" in 1990-1991 (CAMP/1990-1991/SY/EM.1)
- Report of the Mission on Launching the Activities Relative to the Coastal Resources Management Plan (CAMP/1990-1991/SY/CRMP/R1)
- Progress Report on the CRMP Preparation Following the First Mission (CAMP/1990-1991/SY/CRMP/R2)
- Progress Report on the CRMP Following a Mission to Syria (CAMP/1990-1991/SY/CRMP/R3)
- Report of the Fact-Finding Mission for the Preparation of the Document: "The Programme for the Preparation of the Water Resources Protection Plan of the Syrian Coastal Zone"
- Progress Report on the CRMP Following the Second Mission (CAMP/1990-1991/SY/CRMP/R4)
- Mission Report on the Preparation of the Water Resources Protection Plan of the Syrian Coastal Zone
- Progress Report on the CRMP Following the Third - Final Phase of work (CAMP/SY/1990-1991/CRMP/R5)

- Report of the Mission to Syria on the Preparation of an Environmental Impact Assessment of the Amrit Tourist Complex (CAMP/1990-1991/SY/EIA.1)
- Report of the Mission to Check the Conditions and Equipment Needed for the Training Programme on GIS and its Application in CRMP (CAMP/1990-1991/SY/GIS-PREP)
- Report of the Training Course on GIS (CAMP/1990-1991/SY/GIS/TC.1)
- Report on GIS Training Course (CAMP/1990-1991/SY/GIS/TC.2)
- Report of the Third Phase of GIS Training Course (CAMP/1990-1991/SY/GIS/TC.3)
- Report on GIS Training Course (CAMP/1990-1991/SY/GIS/TC.4)

CAMP "The Kastela Bay"

List of documents

- Case Study of the Red Tide in the Kastela Bay (CPP/1988-89/YU/Doc.3B/1)
- An Analysis of Mercury Levels in the Kastela Bay (CPP/1988-89/YU/Doc.3C)
- Definition of Criteria for Wastewater Discharge in the Kastela Bay - Final Report of the Period 1988-1990 (CPP/1988-89/YU/Doc.4)
- Application of GIS for Evaluation of Soils in the Process of Integrated Planning of Coastal Zones (CAMP/1990-91/GIS-SP.1)
- Study of the Water Resources in the Western Part of the Trogir and Kastela Communes (CAMP/1990-91/YU/WR.1)
- Analysis of the Water Resources of the Islands of Veli and Mali Drvenik (CAMP/1990-91/YU/WR.2)
- Hazard Analysis and Risk Management in the Kastela Bay Area - Project Outline (CPP/1990/YU)
- Scenario of Environment-Development Interaction until the Year 2025 (CAMP/1990-1991/YU/Doc.1)
- PAP Pilot Project "The Kastela Bay" - Information on Activities in 1988.89 - in Croatian
- MAP-CAMP "The Kastela Bay" - Programme Proposal for the Period 1990-1991 - in Croatian
- Environmental Impact Assessment for the Split-Stobreč Sumarine - Sewerage Outfall (CAMP/1990-1991/YU/EIA.1)

List of reports and notes of missions and meetings

- Notes of the UNEP/GRID-UNITAR-PAP/RAC Meeting to Review the Results of the GIS Programme within the CAMP "The Kastela Bay" (Info/M.3/1)
- Notes of the Expert Meeting for the Implementation of Activities on the Application of Geographic Information System - in Croatian (CPP/1990-91/YU/EM.8)
- Agreement on the Joint Implementation of MAP-PAP Training Activities on GIS within the CAMP "The Kastela Bay" and other MAP-PAP Mediterranean Programmes - in Croatian
- Notes of the Meeting on Water Resources of the Western Part of the Kastela Bay - in Croatian (CPP/1990-91/YU/EM.9)
- Notes of the Informative Meeting on the Preparation of Inventory of Polluters - in Croatian (CPP/1990-91/YU/EM.3)
- Notes of the Working Meeting for the Preparation of the Inventory of Polluters and Monitoring - in Croatian (CPP/1990-91/YU/EM.4)
- Notes of the Working Meeting for the Preparation of the Inventory of Polluters - in Croatian (CPP/1990-91/YU/EM.5)
- Notes of the Meeting on the Programme of Valuation of Pantan, an Area of Special Natural Value - in Croatian (CPP/1990-91/YU/EM.7)
- Notes of the Meeting: Information and Agreement on the Proposal of MAP CAMP "The Kastela Bay" for the Period 1990.91 - in Croatian (CPP/1990-91/YU/EM.2)

List of training course reports and documents

- An Introduction to GIS Technology and pcARC/INFO (PAP-CAMP/1990-91/GIS/TC.1/1)
- An Introduction to GIS and Remote Sensing (PAP-CAMP/1990-91/GIS/TC.1/2)
- The Role of GIS Technology in Integrated Planning (PAP-CAMP/1990-91/GIS/TC.1/3)
- Training Materials (PAP-CAMP/1990-91/GIS/TC.1/4)
- Report of the Training Course on the Establishment of the Geographic Information System (PAP-CAMP/1990-91/GIS/TC.1)
- Report of UNITAR (ESRI) - PAP/RAC Advanced Course on pcARC/INFO (PAP-4/GIS/TC.2)
- Report of the Training Course on pcARC/INFO (CPP/1990-91/YU/GIS/TC.1)
- Outputs of the Training Course (CAMP/1990-91/YU/GIS/TC.5)

CAMP "The Bay of Izmir"

List of documents

- Integrated Planning Study for the Area of Izmir - Workplan (CAMP/1990-1991/TR/IPS.1)
- A Review of Planning Studies in the Metropolitan Municipality of Izmir

List of reports and notes of missions and meetings

- Report of a PAP/RAC Mission to Izmir Related to the Integrated Planning Study and the Training Programme on GIS (CAMP/1990-1991/TR/MR.1)
- Report of a Mission to Izmir (CAMP/1990-91/TR/IPS.1)
- Progress Report on the Integrated Planning Study for the Area of Izmir Following the First Mission (CAMP/1990-1991/TR/IPS.2)

List of training course reports and documents

- Report of the Mission to Check the Conditions Needed for Setting Up the Training Course on GIS and Its Implementation within CAMP "The Bay of Izmir" (CAMP/1990-91/TR/TC.1)
- Report on the First Phase of GIS Training Course (CAMP/1990-91/TR/GIS/TC.1)
- Report on the Second Phase of GIS Training Course (CAMP/1990-91/TR/GIS/TC.2)
- Report on the Training Programme on GIS Following the Third Mission (CAMP/1990-91/TR/GIS/TC.3)
- Report on the Training Programme on GIS for the Local GIS Team in Izmir Following the Fourth Mission (CAMP/1990-91/TR/GIS/TC.4)
- Report of the Third Phase of GIS Training Course (CAMP/1990-91/TR/GIS/TC.5)

CAMP "The Island of Rhodes"

List of documents

- Detailed Programme for the Water Resources Planning Project of the Island of Rhodes
- Letter of Agreement between UNEP and PAP/RAC related to the Programme on Environmentally Sound Energy Planning for the Island of Rhodes (FP/2103-88-01-6201-0-29-06127)
- Integrated Planning Study for the Island of Rhodes - Workplan (CAMP/1990-1991/GR/IPS.WP.1)

- Integrated Planning Study for the Island of Rhodes: General Legislative Framework, Planning Procedure and Land-Use Plans and Policies
- Tourism on the Island of Rhodes
- The Environmental Administration of the Island of Rhodes
- The Institutional and Financial Arrangements for the Island of Rhodes
- The Economy of the Island of Rhodes
- Existing Situation: Economic and Financial Aspects
- Infrastructural Systems on the Island of Rhodes
- Pollution in the Region of Rhodes City
- Review of National Laws and Regulations for the Management of Water Resources
- Preliminary GIS Data Base for the Integrated Planning Study for the Island of Rhodes

List of reports and notes of missions and meetings

- Report of the Mission to Athens and Rhodes (February 25-28, 1991)
- Notes of the Consultation Meeting on the Coastal Area Management Programme "The Island of Rhodes" (Athens, 25 and 28 February 1991)
- Report of the Consultation Meeting on the Integrated Planning Study for the Island of Rhodes (Athens, 3 May 1991)
- Progress Report on the Integrated Planning Study for the Island of Rhodes Following the First Mission (CAMP/1990-1991/GR/IPS/MR.1)
- Progress Report on the Integrated Planning Study for the Island of Rhodes Following the Second Mission (CAMP/1990-1991/GR/IPS/MR.2)
- Notes of the Consultation Meeting on the Coordination of Activities within the CAMP "The Island of Rhodes" (Athens, November 6, 1991)
- Report of the Mission to on the Preparation of an Environmental Impact Assessment of a Waste Water Treatment Plant (24-27 November 1991) and Athens (28 November 1991)
- Report of the First Mission on the Implementation of Environmentally Sound Energy Planning in the Island of Rhodes (CAMP/1990-91/GR/RES/MR.1)

List of training course reports and documents

- Report of the First Phase of the Integrated Planning Study and GIS Training Course (CAMP/1990-1991/GR/IPS/GIS/TC.1)
- Report of the First Phase of GIS Training Course (CAMP/1990-91/GR/GIS/TC.1)
- Report on the Second Phase of the Integrated Planning Study and GIS Training Course (CAMP/1990-1991/GR/IPS/GIS/TC.2)

ANNEX II

List of experts

CAMP "Coastal Region of Syria"

1. Ms. H. Abboud (Syria)
2. Mr. A.H. Alsauadi (Syria)
3. Mr. A. Baric (Yugoslavia), coordinator of PAP activity on EIA
4. Mr. D. Boqunovic (Yugoslavia), environmental planner
5. Mr. H. Dandashi (Syria), civil engineer
6. Mr. E. Erdun (Turkey), solid waste management specialist
7. Mr. S. Fath (Syria), architect
8. Ms. R. Galv (Syria), architect
9. Ms. L. Hamad (Syria), architect
10. Mr. I. Iacovides (Cyprus), geologist
11. Mr. F. Kaddoura (Syria)
12. Mr. M. Al-Lokham (Syria)
13. Mr. S. Al Molay (Syria), legal expert
14. Mr. A. Mouhana, (Syria), agricultural engineer
15. Ms. S. Al-Nahoui (Syria), agricultural engineer
16. Mr. S. Nasri (Syria), geologist
17. Mr. A. Nuhad (Syria), architect
18. Ms. R. Nusseir (Syria), architect
19. Mr. Y. Owidah (Syria), civil engineer
20. Ms. H. Scharaf (Syria), architect
21. Mr. S. Al ShaLabv (Syria), architect
22. Mr. S. Sidawi (Syria), architect
23. Mr. S. Truta (Yugoslavia), urban and regional planner
24. Mr. N. Zarka (Syria)

CAMP "The Kastela Bay"

1. Mr. S. Alfirevic (Yugoslavia)
2. Mr. B. Anzulovic (Yugoslavia)
3. Mr. T. Bakovic (Yugoslavia)
4. Mr. A. Paric (Yugoslavia), marine chemist
5. Mr. J. Belamaric (Yugoslavia), art historian
6. Mr. G. Perlenqi (Yugoslavia), urban planner
7. Mr. D. Rizaca (Yugoslavia), urban planner
8. Mr. T. Poqovic (Yugoslavia), economist
9. Mr. J. Buzolic (Yugoslavia), technician
10. Mr. D. Damjanic (Yugoslavia), civil engineer
11. Mr. P. Filipic (Yugoslavia), economist
12. Mr. M. Gacic (Yugoslavia)
13. Ms. A. Grancic (Yugoslavia), economist
14. Ms. B. Gubec (Yugoslavia), meteorologist
15. Mr. J. Henderson (USA), ESRI, Manager of International Teaching Program
16. Mr. S. Julcic (Yugoslavia), marine biologist
17. Mr. T. Jukic (Yugoslavia), architect
18. Mr. I. Kacic (Yugoslavia)
19. Mr. N. Karamarko (Yugoslavia), electronics engineer
20. Ms. V. Krstulovic (Yugoslavia)
21. Ms. N. Krstulovic (Yugoslavia), biologist
22. Mr. G. Kusilic (Yugoslavia)
23. Mr. M. Kuzmic (Yugoslavia)

24. Ms. S. Ljubica (Yugoslavia), technician
25. Mr. F. Maletic (Yugoslavia)
26. Ms. I. Marasovic (Yugoslavia)
27. Mr. J. Marjeta (Yugoslavia), civil engineer
28. Ms. M. Maroevic (Yugoslavia), sociologist
29. Mr. M. Milicevic (Yugoslavia), civil engineer
30. Mr. B. Milos (Yugoslavia), geologist
31. Mr. A. Munitic (Yugoslavia), economist
32. Ms. J. Nikolac (Yugoslavia), geodesist
33. Mr. N. Odzak (Yugoslavia)
34. Mr. M. Orlic (Yugoslavia)
35. Mr. Z. Pasaric (Yugoslavia)
36. Mr. S. Pavasovic (Yugoslavia), computer engineer
37. Ms. T. Pucher-Petkovic (Yugoslavia)
38. Mr. T. Radelja (Yugoslavia), computer engineer
39. Ms. D. Reqner (Yugoslavia)
40. Mr. S. Reqner (Yugoslavia)
41. Mr. D. Rodin (Yugoslavia), electronics engineer
42. Mr. Z. Rozic (Yugoslavia), civil engineer
43. Mr. Z. Rudan (Yugoslavia), electronics engineer
44. Ms. S. Stosic (Yugoslavia), civil engineer
45. Mr. I. Simunovic (Yugoslavia), economist
46. Mr. M. Solic (Yugoslavia)
47. Ms. B. Sore (Yugoslavia)
48. Mr. R. Stefek (Yugoslavia), geodesist
49. Mr. S. Truta (Yugoslavia), urban planner
50. Mr. M. Tudor (Yugoslavia), marine chemist
51. Mr. V. Veldic (Yugoslavia), urban planner
52. Mr. I. Veza (Yugoslavia)
53. Mr. T. Zvonaric (Yugoslavia), marine chemist

CAMP "The Bay of Izmir"

1. Mr. A. Akvarli (Turkey), marine scientist
2. Mr. C. Arkon (Turkey), city and regional planner
3. Ms. S. Atoyigit (Turkey), surveying engineer
4. Ms. B. Berqin (Turkey), city and regional planner
5. Mr. A.R. Gulerman (Turkey), city and regional planner
6. Mr. F. Juhasz (France), economist
7. Mr. A. Ozer (Turkey), city and regional planner
8. Mr. I. Ozsaracoqlu (Turkey), computer engineer
9. Mr. S. Pavasovic (Yugoslavia), computer engineer
10. Mr. O. Sayqin (Turkey), city and regional planner
11. Mr. E. Scicluna (Malta), economist
12. Ms. N. Talu (Turkey), city and regional planner
13. Ms. U. Tanriverdi (Turkey), environmental planner
14. Mr. I. Trumbic (Yugoslavia), urban and regional planner
15. Ms. M. Uskup (Turkey), city planner
16. Mr. V. Veldic (Yugoslavia), urban and regional planner
17. Mr. K. Yasa (Turkey), city and regional planner
18. Mr. H. Yildirim (Turkey), city and regional planner

CAMP "The Island of Rhodes"

1. Mr. A. Alexiadis (Greece), geologist
2. Ms. L. Anastassiadis (Greece), architect
3. Ms. A. Angelopoulos (Greece), computer analyst
4. Mr. T. Bardakas (Greece), electrical engineer
5. Mr. A. Baric (Yugoslavia), coordinator of PAP activity on EIA
6. Ms. F. Bazou (Greece), architect
7. Mr. G. Berlenqi (Yugoslavia), urban and regional planner
8. Mr. M. Bosanac (Yugoslavia), coordinator of PAP activity on renewable energies
9. Mr. G. Constantinides (Cyprus), economist
10. Mr. A. Delabaschos (Greece), economist
11. Mr. D. Economides (Greece), chemical engineer
12. Mr. N. Farmakidis (Greece), surveying engineer
13. Ms. P. Fokiali-Tsolakidis (Greece), economist
14. Mr. I. Iacovides (Cyprus), geologist
15. Mr. S. Kaminaris (Greece), electrical engineer
16. Mr. C. Kolliqris (Greece), architect
17. Mr. N. Konstantinou (Greece), electrical engineer
18. Mr. G. Kostaridis (Greece), civil engineer
19. Ms. T. Kourtis-Laoudikos (Greece), civil engineer
20. Mr. V. Kyriatsoulis (Greece), civil engineer
21. Mr. M. Marias (Greece), civil engineer
22. Mr. A. Pruginin (Israel), environmental planner
23. Mr. T. Radelja (Yugoslavia), coordinator of PAP for informatics
24. Mr. P. Sirmos (Greece), architect
25. Mr. A. Skiadopoulos (Greece), geologist
26. Mr. I. Souflis (Greece), energy saving expert
27. Mr. I. Trumbic (Yugoslavia), urban and regional planner
28. Mr. D. Tsotsos (Greece), environmental planner
29. Mr. N. Zarifis (Greece), architect