



United Nations Environment Programme



UNEP/WG.170/6
20 May 1987

Original: ENGLISH

MEDITERRANEAN ACTION PLAN

Meeting of the National Focal Points for
Priority Actions Programme (PAP)

Split, 24-26 June 1987

INVENTORY AND NETWORK OF EROSION MEASUREMENT
IN THE MEDITERRANEAN FOR ENVIRONMENTALLY
SOUND LAND MANAGEMENT



MEDITERRANEAN ACTION PLAN
PRIORITY ACTIONS PROGRAMME

UNITED NATIONS ENVIRONMENT PROGRAMME

DRAFT JOINT PROJECT PROPOSAL

"Inventory and Network of Erosion Measurement in
the Mediterranean for Environmentally-sound
Land Management"

In co-operation with:



FAO

PAP/RAC
Split, 1987

DRAFT JOINT PROJECT PROPOSAL .

PROJECT FRAMEWORK

TITLE OF THE PROJECT

Inventory and Network of Erosion Measurement in the Mediterranean for Environmentally-sound Land Management.

BACKGROUND:

Rainfall-induced erosion is the most widespread and most significant form of soil degradation in Mediterranean Coastal Zones. Wide general knowledge related to this phenomenon has been developed, whereby the understanding of Mediterranean specific features is insufficient and acquired on different using non-standardized methodologies. Therefore the methods of assessment and prediction of erosion hazard as well as the protective measures are insufficiently founded, with consequences leading to their lack of efficiency.

There are some endeavours in the Mediterranean region to obtain, on experimental plots, data necessary for the enhancement of relevant protective measures.

However, these actions are not coordinated, thus hindering the comparison and joint data processing.

In order to increase the necessary specific knowledge, to create a common methodology, and to improve the data processing, a coordinated Mediterranean project in the field is being proposed.

The proposal has been initiated at the PAP meeting of experts on Soil Protection held in November 1985 in Split.

FAO, being closely involved for a long time in the matter, has accumulated abundant experience and kept a permanent interest in it.

PAP, as a component of the Mediterranean action plan, is implementing, as a part of its programme, the priority action on soil protection in the Mediterranean coastal zones as a component of the protection of the Mediterranean Environment.

ACSAD, The Arab Center for the Studies of Arid Zones and Dry Lands, is also actively engaged in this activity in Mediterranean Arab countries, and has expressed its interest for the cooperation in this field.

OBJECTIVES OF THE PROJECT

The long-term objective of the project is to contribute to the advancement of soil protection of Mediterranean coastal zones from rainfall-induced erosion as a component of environmentally-sound land management.

THE IMMEDIATE OBJECTIVES OF THE PROJECT ARE:

- To make a presentation of the "state of the art" related to soil erosion in the Mediterranean coastal areas, including a statement for decision-makers, of the expected benefits from implementation of appropriate policies;
- to make an inventory (thematic maps on erosion distribution, the rate of erosion and the different forms of erosion) in the Mediterranean coastal areas, based on remote sensing techniques;
- to create a Mediterranean network of institutions and erosion monitoring procedures, with the objective to test various soil and crop

management options which lead to mitigation of erosion;

- to create a common methodology and programme of observation of rainfall-induced erosion phenomena;
- to establish a relevant information system as the base for data processing;
- to implement the training of national experts from participating countries;
- to produce as an output, a synthesis report including a summary for decision-makers and to formulate conclusions and recommendations as well as proposing a follow-up; also, to ensure the dissemination of results and findings by appropriate means;
- produce recommendations for environmentally-sound land management.

CONTENTS OF PROJECT:

The following activities are envisaged:

- preparation of a statement of "state of the art" of soil conservation in the Mediterranean coastal areas;
- production of thematic maps;
- a workshop to discuss thematic maps produced and on the basis of these maps, propose sites for network erosion monitoring;
- localization and establishment as appropriate of new erosion-monitoring sites, in addition to approved existing sites and measuring installations;

- development of a common evaluation methodology;
- monitoring of:
 - a. meteorological parameters
 - b. impact of human activities on soil erosion and the ecosystem
 - c. hydrological parameters and sediment.
- establishment of information systems and methods of data processing;
- preparation of a synthesis report, conclusions, recommendations on proposals for the follow-up;
- recommendations production for environmentally-sound land management;
- final workshop to present project results.

APPLICABILITY OF THE
PROJECT:

The results of the project are to be used by:

- institutions and experts in the field for a better knowledge of erosion phenomena;
- institutions and experts concerned with planning and implementation of erosion and protective measures;
- decision-makers concerned with the formulation of relevant national policies and implementation of measures for the prevention, as well as mitigation of soil erosion.

OUTPUTS:

The project will produce the following outputs:

- a prepared submission of "state of the art" with an executive summary for decision-makers;

- thematic maps relevant to rainfall-induced erosion;
- an intermediate workshop report;
- a network of Mediterranean institutions with runoff monitoring sites, functioning as a coordinated system;
- information systems and data processing methods;
- training of national specialists and the use of the sites for demonstration of effects of different measures on erosion control;
- more effective erosion control projects for the future, based on accumulated data;
- a synthesis report and an executive summary for decision-makers, conclusions, recommendations and proposals for the follow-up;
- recommendations for environmentally-sound land management;
- a final workshop report.

IMPLEMENTATION OF THE
PROJECT:

The preparatory activities will be performed by a working group of experts, guided by the elected project manager.

PAP/RAC will contact the Governments of Mediterranean countries interested in participating in the project, and the working group will propose the pilot stations suitable for the monitoring, and after a visit to the sites, will formulate the draft project proposal. The project will be implemented with the assistance and coordination of FAO, ACSAD and PAP/RAC.

The organizational aspects will be discussed with interested countries and formulated accordingly in the draft project proposal.

TIME SCHEDULE:

The following time schedule is envisaged:

- a. preparatory activities (PAP/RAC)
6 months of activities including consultancies, meetings, preparation of remote sensing exercise June-Dec. 1987
- b. main project: finalizing state of art reports and first stage thematic maps presentation Jan-April 1988
- c. intermediate workshop May 1988
- d. network establishment and functioning, methodology development Jan 88-Nov. 1989
- e. development of information systems, testing data-processing methods Jan 88-Nov. 1989
- f. training courses and preparation of final workshop Jan 88-Nov. 1989
- g. recommendations finalization December 1989
- h. final workshop. December 1989

FINANCIAL ASPECTS:

It is foreseen that the participating countries will contribute to the project, covering in national currencies and in kind, costs related to the activities on their territories.

The project will support the costs of state of the art report and thematic maps as well as coordination, preparation of common methodology and information system, necessary additional equipment

for monitoring stations, training of local experts, preparation of local and synthesis reports, printing of documents and organization of the final workshop.

The amount of funds necessary for these purposes is estimated at \$ 500 000 for joint activities, and an additional \$ 200 000 for the total of experimental plots and \$ 300 000 for thematic maps. A detailed budget will be elaborated in the draft project proposal as well as the sharing of necessary contributions.

BUDGET

		US \$
Coordinator	24 man/months	172 000
Consultants	8 man/months	80 000
Admin Support	24 man/months	30 000
Travel costs		18 000
Plots ^{1/}	at \$ 10 000	200 000
Thematic maps ^{2/}		300 000
Fellowships, training		100 000
Workshops, meetings		80 000
Document production		50 000
Miscellaneous		<u>25 000</u>
	Total US\$	1 055 000

However,

Several months of preparatory phase is envisaged, with cost-sharing on the following basis:

- PAP/RAC providing up to \$ 100 000 in cash;
- FAO providing an equivalent of 7-10% of the total in kind;
- host country providing an equivalent cash/kind of 30% of the total;
- other donor(s) and participating countries cost-sharing contributing the remaining 40-50% of the total;

This is equivalent to \$ 150 000 preparatory phase operation and \$ 850 000 fully operational phase.

^{1/} Individual country cost-sharing (partially)

^{2/} Host country cost-sharing