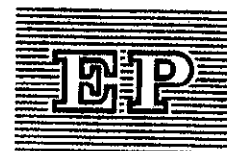




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PROPOSED FUND PROGRAMME ACTIVITIES 1976-1977

Note by the Executive Director

1. INTRODUCTION

1. The Governing Council at its third session decided (decision 36 (III), paragraph 1) on an apportionment of resources for Fund programme activities in 1976 and 1977, subject to a revision of the 1977 proposals in order not to exceed the proposed total allocation of \$82,000,000 for Fund programme activities for the three-year period 1975-1977.
2. The proposed activities outlined below are maintained within the above total, with due regard for expenditures incurred in 1975 and commitments made for 1976 and 1977 as a result of approved projects. In view of the biennial cycle of the UNEP programme, the policy directives contained in decisions taken at the third session, as well as the allocation of funds made at that time, will basically govern the activities of the secretariat in 1976 and 1977. Therefore, this document could have been much shorter, limited to changes in approach and to any new proposals on which the Council's guidance was required. The programme itself could have been carried out, with a few exceptions, within the approved apportionment, adjusted by a maximum of 20 per cent in some lines. However, the traditional presentation of the entire programme has been retained to facilitate comparisons with last year's programme and to give the Council a complete picture of activities planned for the biennium.
3. The year 1975 has seen considerable acceleration of pace and increase of level of Fund programme activities, as reported in document UNEP/GC/68. Many of the activities initiated then will continue into 1976 and 1977 and obligate funds from these two years' budgets. As of 1 January 1976, forward commitments totalled \$24 million, as compared with \$4 million at 1 January 1975. Furthermore, some \$4.5 million approved for 1975 activities were carried over to 1976 due to delays experienced by co-operating agencies and supporting organizations (recruitment of personnel, meetings and publications). It is expected that these activities will be completed according to plan and the corresponding funds committed in the first part of 1976. The Executive Director therefore feels that in order to maintain the momentum of the programme and to move it towards greater action orientation, the requested levels of Fund programme expenditure for 1976 (\$34 million) and 1977 (\$35.7 million) are both realistic and necessary. In regard to 1976, \$15.5 million are already committed and an additional \$4.5 million mentioned above are carried over from 1975. Thus, a total of \$20 million of out of \$34 million is already committed and only \$14 million is available for new activities. The total does not require any adjustment whatsoever in the proposed level of resources which the Council approved at its third session.
4. The Fund programme reflects a further effort at concentration on fewer selected areas of work. In view of the large scope of UNEP's mandate, the number of individual projects still remains considerable. Every effort is made, however, to integrate projects that belong together, to provide links through umbrella-type projects (e.g. in the case of the Mediterranean), and to co-ordinate activities through advanced planning. The Fund programme at the beginning consisted essentially of a series of reactions to proposals from external sources; later a balance was achieved between external proposals and UNEP initiatives;

now the Fund programme has achieved a thrust of its own, reflecting UNEP initiatives in the pursuit of the objectives set by the Council. This has become possible through the close working relationship and trust built with the specialized agencies, the growing number of supporting organizations whose capabilities are now better known, and above all, the clarification in the substantive programme content achieved over the last two years, through a number of Fund projects.

5. In order to give an overview of the use of resources for Fund programme activities Table I presents, at the level of budget lines, the expenditures incurred in 1973, 1974 and 1975 and the proposals of the Executive Director for revised apportionment of resources for Fund programme activities for 1976 and 1977.

6. Table II presents a summary of the proposed apportionment for 1976 and 1977 by sub-line.

7. This document presents the Fund programme proposals in the same overall order and sequence as the proposed programme contained in document UNEP/GC/61. Thus UNHHSF, which has a separate budget line, is shown together with the human settlements section. However, there are some differences within individual sub-sections.

8. Finally, the document presents a suggested decision by the Council approving the revised apportionment for Fund programme activities for 1976 and 1977 and confirming the forward commitment authority of the Executive Director for 1978 and 1979 at the level already approved last year.

TABLE I
Trends in Fund Expenditures
(in thousand)
dollars

Programme activity	1973		1974		1975		1976		1977	
	\$	%	\$	%	\$	%	\$	%	\$	%
0100 Human settlements and health	175	42	846	16.0	3,626	29.3	6,300	18.5	7,150	20.0
1100 Ecosystems	14	3	1,398	27.0	1,869	15.1	8,190	24.1	9,250	25.9
0400 Environment and development	69	16	438	8.0	1,191	9.6	3,600	10.6	3,600	10.1
0500 Oceans	7	2	501	9.5	767	6.2	3,600	10.6	3,150	8.8
0700 Energy	-	-	59	1.0	209	1.7	550	1.6	600	1.7
1200 Natural disasters	-	-	-	-	124	1.0	200	0.6	300	0.8
1300 Earthwatch	40	10	494	9.5	1,363	11.0	3,400	10.0	3,350	9.4
0300 Supporting measures	113	27	1,020	19.0	2,359	19.1	5,910	17.4	6,250	17.6
1000 Environmental management	-	-	63	1.0	208	1.7	450	1.3	550	1.5
1400 Environmental law	-	-	-	-	50	0.4	300	0.9	300	0.8
1500 UNHHSF	-	-	-	-	600	4.9	1,500	4.4	1,200	3.4
Development of the programme	-	-	466	9.0	-	-	-	-	-	-
	418	100	5,285	100	12,367	100	34,000	100	35,700	100

TABLE II

Summary of proposed apportionment of resources
(In 1976 and 1977)

(In US \$ million)

	1976	1977
HUMAN SETTLEMENTS AND HUMAN HEALTH	<u>6.30</u>	<u>7.15</u>
1. General development of human settlements	1.85	2.20
2. Habitat	0.35	-
3. Human settlements technology	0.60	1.15
4. Environmental health	2.80	2.95
5. Pest management systems	0.70	0.85
ECOSYSTEMS	<u>8.19</u>	<u>9.25</u>
1. Arid and grazing lands	2.30	2.85
2. Tropical forests and woodlands	0.90	0.95
3. Other ecosystems	0.15	0.15
4. Ecosystems, sites and samples	0.40	0.40
5. Endangered species	0.20	0.30
6. Soils	1.20	1.45
7. Water	1.22	1.30
8. Genetic resources	0.80	0.85
9. Conference on Desertification	1.02	1.00
ENVIRONMENT AND DEVELOPMENT	<u>3.60</u>	<u>3.60</u>
1. Integrated approach	0.35	0.45
2. Ecodevelopment	0.55	0.60
3. Socio-economic impact	0.70	0.55
4. Natural products	0.30	0.30
5. Technology	0.90	0.95
6. Industrial location	0.20	0.20
7. Environmental problems of specific industries	0.60	0.55

TABLE II (cont.)

	1976	1977
OCEANS	3.60	3.15
1. Regional activities	2.90	2.90
2. Marine pollution	0.35	0.05
3. Living marine resources	0.30	0.15
4. International agreements	0.05	0.05
ENERGY	0.55	0.60
NATURAL DISASTERS	0.20	0.30
EARTHWATCH	3.40	3.35
1. GEMS	2.00	1.95
2. IRS	1.00	1.00
3. Outer limits	0.40	0.40
ENVIRONMENTAL MANAGEMENT	0.45	0.55
ENVIRONMENTAL LAW	0.30	0.30
SUPPORT	5.91	6.25
1. Information	0.90	1.25
2. Education and training	2.86	2.40
3. Technical assistance	2.00	2.45
4. Level One overview	0.15	0.15
UNHHSF	1.50	1.20
TOTAL	34.00	35.70

II. PRIORITY SUBJECT AREAS

A. Human settlements and human health

Proposed allocation

1976: \$6,300,000

1977: \$7,150,000

I. Human settlements and habitat

Proposed allocation

1976: \$4,300,000

1977: \$4,550,000

9. This area covers the following sub-areas:

(a) General development of human settlements;

(b) Human settlements technology;

(c) Habitat;

(d) United Nations Habitat and Human Settlements Foundation.

(a) General development of human settlements (0104)

Proposed allocation

1976: \$1,850,000

1977: \$2,200,000

10. In 1975 \$1,100,000 were committed for: Human settlements as ecosystems (0104-75-04), Phase I, to support studies on the Integrated ecological approach as a basis for decision-making (with UNESCO); Case studies, within ILO's World Employment Programme, on urban environment and issues relating to employment in the urban context with special reference to developing countries (0104-75-02); Integrated study with UNESCO of the ecology of a large urban system to provide methodological guidelines and conceptual frameworks for use in comparative studies of human settlements in different regions of the world (0104-75-05); Further assistance to the Capital Development Authority of Dodoma, Tanzania, (with UNDP) (0104-75-06); Environmental aspects of human settlements (with ICSU/SCOPE) (0104-75-01); Training programme for the management of human settlements designed to sensitize the officials responsible for this area to the environmental dimensions of settlement planning (0104-75-07); Programme to demonstrate, on a pilot project basis, in collaboration with Governments and the United Nations Centre for Housing, Building and Planning, the feasibility of a comprehensive and integrated approach to the improvement and upgrading of conditions in slums and marginal settlements in the Philippines and Indonesia.

11. During the period 1976-1977 it is planned to support mainly activities designed to fit in with the area of concentration of human settlements technology. These are:

(a) Continued implementation of the pilot project in the Philippines and Indonesia;

(b) Support for:

(i) Demonstration pilot projects on the guidelines for an integrated ecological approach to human settlements planning

(ii) Development of a methodology and guidelines for Governments to assist in classifying the land, water and space requirements related to human settlements

(iii) Development and amendment of project 0104-75-07;

(c) Extension of the programme of slum improvement to Latin America and Africa;

(d) Development of a methodology for information exchange and communication through a centre which will capitalize on the information generated as a result of the Habitat Conference.

(b) Human settlements technology (0106)

Proposed allocation

1976: \$500,000 1977: \$1,150,000

12. In 1975 \$45,000 were committed for: Study on architecture and the environment in the Arab region in conjunction with ALECSO (0106-75-01); Organization on a regional basis of the first elements of the global network of leading institutions for human settlements technology through an ad hoc expert group meeting.

13. During the period 1976-1977 human settlements technology will be an area of concentration. UNEP will:

(a) Support action-oriented projects to implement environmentally sound technologies;

(b) Promote the gathering and distribution of documentation and the dissemination, on a regional and global basis, of the results of research and demonstration projects;

(c) Convene a regional expert group meeting on human settlements technology at Nairobi in February (follow-up to ad hoc expert group meeting) concerned primarily with the development of an action strategy and framework for implementation of appropriate human settlements technology in Africa and for Western Asia. Proposals are under consideration for similar assistance in Latin America and the United Arab Emirates;

(d) Consider support for a project on training of documentation specialists for human settlements technology programmes, as well as project proposals from the Asian Institute of Technology on:

(i) Human settlements education

(ii) Development of an Asian Documentation Centre for human settlements technology

(iii) Upgrading the sewage disposal system of Bangkok's squatter areas;

(e) Support a project on popular participation in decision-making and the implementation and management of programmes affecting people's lives;

(f) Support consortium-type research on a regional level in environmentally appropriate technologies, including low-cost housing, water supply and waste disposal, cost reduction techniques for infrastructure and services and other areas such as building materials, food and health;

(g) Support courses for architects and town planners.

(c) Habitat (0105)

Proposed allocation

1976: \$350,000

1977: \$ -

14. The Habitat project (0105-75-01) was amended according to Governing Council decision 37 (III), which approved the additional allocation of \$1.5 million from the Fund.

15. During 1976 UNEP will concentrate on its input to the Vancouver Conference. Further activities will be designed to contribute to the follow-up to the Conference. Discussions have been held with the Habitat secretariat on:

(a) The establishment of a film library;

(b) The establishment of a travelling exhibition;

(c) The maintenance of a skeleton staff to take up future organizational issues;

(d) Meeting existing commitments to the audio-visual programme of the Conference.

(d) United Nations Habitat and Human Settlements Foundation (1500)

16. Following Governing Council decision 38 (III) endorsing the plan and programme of operations for the Foundation and authorizing the Executive Director to proceed with its implementation, \$4,000,000 were committed to be disbursed as follows: 1975: \$600,000; 1976: \$1,500,000; 1977: \$1,200,000; 1978: \$700,000. No additional request is being submitted to the Council.

2. Health of people and of the environment

Proposed allocation

1976: \$3,500,000

1977: \$3,800,000

17. This area includes the following sub-areas:

(a) Human and environmental health (0107);

(b) Pest management systems (0108).

(a) Human and environmental health (0107)

Proposed allocation

1976: \$2,800,000

1977: \$2,950,000

18. This sub-area includes the following priority fields of activity:

- (a) Overview in the area of environmental health;
- (b) Assessment of occurrence of pollutants in all media and their effect on human health; total assessment of sulphur oxides and related sulphur compounds;
- (c) Environmental criteria for man and other living organisms and ecosystems;
- (d) International Register of Potentially Toxic Chemicals;
- (e) Health indices, epidemiology and environment;
- (f) Food contamination and radioactive contamination.

19. In 1975 \$3,120,000 were committed to support the following activities: Control of environmental contaminants in food: mycotoxins (0107-75-01); Control of environmental contaminants in foods in East Africa, Phase I (0107-75-02); Evaluation of toxicity of environmental chemicals (0107-75-04); International Register of Potentially Toxic Chemicals (IRPTC), involving inter alia the establishment of a programme activity centre (0107-75-05); Strengthening of Codex Alimentarius activities, Phase II (0107-75-06); Control of environmental contaminants in foods (0107-75-07); Support for symposium on new developments in mutagenicity testing of environmental chemicals (0107-75-09); Environmental health criteria programme, Phase II (0107-75-10); Environmental criteria for the effects of pollution on agriculture, forestry and fisheries, Phase I (0107-75-11).

20. During 1976-1977 the areas of concentration will comprise the development and publication of environmental criteria and the establishment of IRPTC. Follow-up and new activities to be supported during this period are:

(a) Overview in the area of environmental health: preparation of the Level One overview on environmental health to be submitted to the fifth session of the Governing Council;

(b) Assessment of occurrence of pollutants in all media and their effect on human health; total assessment of sulphur oxides and related sulphur compounds: Implementation of the action plan proposed by an expert group for a series of regional assessments of the effects of sulphur oxides and related sulphur compounds on the environment, starting with Latin America and Africa;

(c) Environmental criteria for man and other living organisms and ecosystems:

- (i) Implementation of a programme to develop environmental criteria for conserving and protecting living organisms, excluding man, which are fundamentally important to food, agriculture and balanced ecosystems (a concentration area, follow-up to 0107-75-11);
- (ii) Preparation and publication of a manual on the analysis of environmental carcinogens;
- (iii) Support to a programme to co-ordinate research on mutagenicity testing;

(d) International Register of Potentially Toxic Chemicals:

- (i) Establishment of the IRPTC programme activity centre
- (ii) Continuation of IRPTC support and research activities. This is a concentration area and a follow-up to 0102-74-04;

(e) Health indices, epidemiology and environment:

- (i) Pilot epidemiological project on effects on human health of heavy bacteriological and industrial pollution, malnutrition, and unsatisfactory housing, the first to be undertaken in Bombay and the second in a large African city
- (ii) Development of a worldwide programme to eradicate parasitic zoonoses, in particular as it relates to the environmental and social aspects of the occurrence of these diseases. This is a continuation of the zoonoses programme under ecodevelopment (paragraph 44);

(f) Food contamination, radioactive contamination:

- (i) Continuation of support for food contamination control activities
- (ii) Continued support to the on-going programme on radioactive contamination
- (iii) Support of a fellowship programme for the training of developing country specialists in nuclear safety.

(b) Pest management systems (0108)

Proposed allocation

1976: \$700,000 1977: \$850,000

21. In 1975 \$578,000 were committed to support the following activities:
 Substantive contribution to ad hoc governmental consultation on pesticides in agriculture and public health, Rome, April 1975 (0108-75-01);
 Support for the International Conference on Schistosomiasis, Cairo, October 1975 (0108-75-03);
 Initiation and co-ordination of a UNEP/FAO global programme

for the development and application of integrated pest control in agriculture (0108-75-04); Meeting on bio-environmental methods of control of malaria, 10-11 December 1975, Lima (0108-75-05); Consultation on pest management systems for the control of pests of cotton (0108-75-06); Environmental and economic study of the consequences of pesticides use in Central American cotton production, Phase B (0108-75-07).

22. During 1975 action plans were adopted for the global bio-environmental control of insect pests of cotton, malaria and schistosomiasis. As a part of the implementation of these three action plans, a number of demonstration projects as well as research and training activities will be initiated in 1976 and 1977, based on:

(a) The action plan for schistosomiasis developed at the International Conference on Schistosomiasis (see UNEP/GC/61, paragraph 77);

(b) The action plan for malaria control (see UNEP/GC/61, paragraph 78);

(c) The action plan for cotton pests control as developed at the consultation on pest management systems for cotton pest control, held at Karachi in October 1975 (see UNEP/GC/61, paragraph 79).

B. Terrestrial ecosystems, their management and control

Proposed allocation

1976: \$8,190,000 1977: \$9,250,000

1. Arid land and grazing land ecosystems (1101)

Proposed allocation

1976: \$2,300,000 1977: \$2,850,000

23. In 1975, some \$271,400 were committed for: Report on the ecological undermining of food systems (1101-75-01); Ecological guidelines for use of natural resources in the Middle East and South West Asia (1101-75-02); Regional meeting for the establishment of co-operative interdisciplinary research, training and rangeland management programmes for arid and semi-arid zones of Northern Africa (1101-75-03); Integrated ecological studies in the arid zone to promote rehabilitation and development, Phase I (1101-75-05); Integrated ecological pilot project in arid grazing lands to promote rehabilitation and management: establishment of co-ordinating unit and launching of initial field work, Phase II (1101-75-05); Meetings on environmental implications of irrigation with special reference to arid lands: assessment of knowledge and development of guidelines for environmental impact assessment (1101-75-06).

24. The activities for 1976-1977 will include:

(a) Improvement of water quality and its ecological management: pilot projects on integrated management of water resources with special emphasis on multiple use of water (agriculture, recycling, use of waste water, etc.). Due attention will be given to co-ordination with programmes on management of waterborne diseases;

(b) State of knowledge and its dissemination:

- (i) Completion and publication of the state of knowledge report on grazing lands
- (ii) Sahel Institute - support for the creation of a section on ecology and/or range management
- (iii) Assistance in the preparation and publication of specialized documents to expand knowledge on arid zones and facilitate their development; this will include, inter alia, support for the publication of specialized maps (vegetation, land use, range capacity, etc.)
- (iv) Assessment of methods to evaluate, monitor and halt aridization; this will include a workshop on methods of inventory of renewable natural resources
- (v) Creation of a network of documentation centres for arid lands, beginning with Latin America and the Near East
- (vi) Bibliography and directory on arid lands;

(c) Alternative approaches to the management of natural resources:

- (i) Continuous support for the EMASAR programme with special emphasis on the Sudano-Sahelian zone, sensu lato
- (ii) Establishment of a simple model for development of arid zones, with computerized data and creation of a simulation game
- (iii) Network of pilot projects in the Sudano-Sahelian zone to demonstrate the efficiency of various ways to halt desert creep and to rebuild vegetation cover, such as: sand dune fixation, creation of green belts, use of sludge to restore soil fertility, conservation of land use practices, revegetation (including afforestation), etc.
- (iv) Pilot project on utilization of firewood and substitutes;

(d) Education and training:

- (i) Training in the preparation of inventories, remote sensing, monitoring and mapping of renewable natural resources, with special emphasis on vegetation
- (ii) Support for the United Nations 1976 Graduate Seminar, which will be devoted to desertification control with a view to preparing animators of governmental and non-governmental revegetation projects in countries around the Sahara
- (iii) Participation of women in the conservation and sound ecological management of renewable natural resources in arid zones with emphasis on the Sudano-Sahelian zone

(iv) Support for the seminar on reafforestation of the Permanent Interstate Committee for drought control in the Sahel

(v) Pilot workshops and training projects in sand-dune fixation, range management and soil conservation;

(e) Research and application of existing knowledge:

(i) Follow-up to integrated ecological pilot project in arid grazing lands to promote rehabilitation and management; launching of further field work

(ii) Interdisciplinary ecological research on application of rangeland management in arid and semi-arid zones of North Africa - Wilaya of Saïda (Algeria)

(iii) Monitoring of Sahara dust

(iv) Methodology study on the efficiency of ecological diagnosis

(v) Role of termites in rangeland productivity

(vi) Transnational feasibility studies in relation to the Conference on Desertification;

(f) Stimulation and co-ordination of United Nations system activities:

(i) Co-operation with and support for the secretariat of the Conference on Desertification

(ii) Feasibility study of the establishment of a programme activity centre on arid zones.

2. Tropical woodland and forest ecosystems (1102)

Proposed allocation

1976: \$900,000

1977: \$950,000

25. In 1975, approximately \$920,000 were committed for: Regional meeting on integrated ecological research and training activities in West and Central Africa (1102-75-01); Research programme for the semi-arid tropics of specific environmental significance (1102-75-02); Research programme for tropical agriculture of specific environmental significance (1102-75-03); Regional meeting on integrated ecological research and training activities in South Asia (1102-75-04); Pilot project on tropical forest-cover monitoring (1102-75-05).

26. During the period 1976-1977 support will be given to:

(a) Information analysis and dissemination: preparation of environmental manual for decision-makers on alternative ways and means of management of tropical and sub-tropical forest ecosystems;

(b) Research, training and application of existing knowledge:

(i) Development of two integrated ecological research and training programmes for the management of humid tropical ecosystems in Latin America and South East Asia

- (ii) Agrosilviculture programme, with special reference to innovative techniques in tropical gardening
- (iii) Continued support for the programme of monitoring changes in forest cover
- (iv) Implementation of a long-term programme for detection and control of forest fires;
- (c) Planting and protection of trees:
 - (i) Launching of a world-wide programme for the protection of trees, with special attention to tropical woodlands
 - (ii) Study of the relations between vegetation cover and soil losses in Madagascar
 - (iii) Effects of afforestation on tropical soils.

3. Other ecosystems (1105)

Proposed allocation

1976: \$150,000

1977: \$150,000

27. In 1975 \$131,290 were committed to support: Sub-regional seminar and workshop on conservation and integrated management of natural ecosystems for decision-makers, senior administrators, and professional natural resources officers in South Eastern Africa (Malawi, July 1975) (1105-75-01); Integrated research, training and information programme in the Andean region, with special reference to problems of human settlements, tourism and conservation (1105-75-02).

28. Limited financial support will be given to start activities in the following fields in 1976-1977:

- (a) Management of mountain ecosystems, with special reference to alternative sources of energy;
- (b) Development of new approaches to the exploitation of resources, and to the concept of ecodevelopment, which is especially applicable to mountain areas.

4. Ecosystems, sites and samples (national parks and reserves) (1103)

Proposed allocation

1976: \$400,000

1977: \$400,000

29. In 1975 \$311,000 were committed to support: Promotion of the establishment of marine parks and reserves in the Northern Indian Ocean, including the Red Sea and the Persian Gulf 1/ (1103-75-01); South Pacific Conference on National Parks and Reserves (1103-75-02). Promotion

1/ The use of the term "Persian Gulf" to describe the gulf geographically situated between Iran and the Arabian Peninsula is based on conventional practice. It should be noted, however, that some delegations use the term "Arabian Gulf".

of the establishment of marine parks and reserves throughout the world (1103-75-03); Conservation and development programme strategy for ecosystem conservation, promotion and co-ordination of action (RA/1103-75-04); Survey and establishment of biosphere reserves in South East Asia (1103-75-05); Level One overview: Ecosystems, sites and samples (national parks and reserves) (1103-75-06).

30. Ongoing projects and new activities to be supported in 1976-1977 comprise:

- (a) Assistance to Governments in:
 - (i) Identifying ecosystems for preservation
 - (ii) Evaluating the potential long-term value of these ecosystems for sustained productivity of renewable natural resources
 - (iii) Exploring how they can benefit surrounding areas, for example, in maintaining the purity of water systems;
- (b) International agreements: advocacy of the convention to strengthen the legal protection given to national parks and reserves;
- (c) Establishment of a world-wide network of national parks and nature reserves;
- (d) Training programmes for national park managers.

5. Endangered species and wildlife (1104)

Proposed allocation

1976: \$200,000

1977: \$300,000

31. In 1975 \$56,900 were committed to support: Feasibility study for establishment of protected areas in the arid and semi-arid zones of the Sahara desert and Sahelian zone with particular reference to addax, scimitar-horned oryx and associated species (1104-75-01); Regional information exchange in wildlife and national park management for Asia and the Far East (Tiger Paper) (1104-75-02); Level One overview of endangered species and wildlife, IUCN (1104-75-03); International Annotated Seal Bibliography (1104-75-04).

32. Limited support will be given to start the following new activities in 1976-1977:

- (a) Promotion of research and regional wildlife surveys to define the status of species, critical areas of distribution and migration, and factors causing the decline of species and habitats;
- (b) Regional appraisals of needs and potential for conservation and management action as a basis for flora and fauna restoration schemes;

(c) Support to field programmes on the conservation of endangered species and wildlife, with priority given to whales and sirenians, marine turtles, birds of prey, owls and game birds, crocodiles and primates (especially the great apes);

(d) Encouraging conventions and agreements, with particular support for the proposed migratory species convention and the principle that migratory species are common resources shared by all affected States.

6. Soils (1106)

Proposed allocation

1976: \$1,200,000 1977: \$1,450,000

33. In 1975, some \$1,010,000 were committed for: Control of waterlogging and salinity in the areas west of the Nubaria Canal, Egypt (1106-75-01); Agroclimatological and hydrological studies in the Sudano-Sahelian zone (1106-75-02); Rice research programme of specific environmental significance (1106-75-03); Research in mixed cropping and related studies on soil fertility on plant nutrition in tropical agriculture (1106-75-04); World assessment of soil degradation, Phase I (1106-75-05); Mediterranean programme activity (Role of sedimentation in the pollution of the Mediterranean Sea: assessment of knowledge and development of guidelines for environmental impact assessment), MED IX (1106-75-06).

34. Support will be given in 1976-1977 to:

(a) Pilot project on application of nitrogen fixators to tropical crops as follow-up to projects 1108-75-06 and 1108-75-07;

(b) Pilot project on the effects of wastes used as fertilizers;

(c) Effects on soil of monoculture of trees;

(d) Wood, food and fibre? Criteria of choice for decision-makers, and pilot project on multiple use of land;

(e) Comparative evaluation of various forms of soil protection;

(f) Restoration of soil fertility in sand(dunes);

(g) Project design workshop: soil resources of the earth: their rational utilization.

7. Water (1107)

Proposed allocation

1976: \$1,220,000 1977: \$1,300,000

35. In 1975, \$593,000 were committed for: Water, development and environment in Latin America (1107-75-01); Book on water quality models, Phase I (1107-75-02); International symposium on eutrophication of surface waters and their rehabilitation (1107-75-03); Regional preparatory programme for the United Nations Water Conference, Phase I (1107-75-04); Pilot workshop on water management for arid lands (1107-75-05). Further projects relating to this budget sub-line are indicated under arid lands and grazing lands ecosystems.

36. Support will be given in 1976-1977 to:

- (a) Regional demonstration projects in waste water disposal, recycling and re-use;
- (b) Support to national programmes of arid land irrigation in developing countries;
- (c) Regional development of the Lake Tanganyika area;
- (d) Demonstration projects on innovations in water supply systems in rural areas;
- (e) Follow-up on pilot workshop on water management for arid lands;
- (f) Continued preparation of UNEP's input to the United Nations Water Conference;
- (g) Regional preparatory programme for the Water Conference, Phase II, and follow-up of results of Water Conference for use as an input to the United Nations Conference on Desertification;
- (h) Support for an international centre for water management;
- (i) Support for the Interagency Working Group on the United Nations Water Programme.

8. Genetic resources (1108)

Proposed allocation

1976: \$800,000

1977: \$850,000

37. In 1975, \$564,000 were committed for: Level One overview of genetic resources (1108-75-01); Programme of research and development of pest- and disease-resistant varieties of maize and wheat (1108-75-02); Development of an integrated programme in the use and preservation of microbial strains for development in environmental management (1108-75-03); International Board for Plant Genetic Resources - conservation of crop genetic resources (1108-75-04); Conservation of forest genetic resources (1108-75-05); Improving the nitrogen contribution from legume rhizobia to crops, and to soil fertility (1108-75-06); Development of a co-ordinated international programme on biological nitrogen fixation (1108-75-07).

38. During 1976-1977 support will be given mainly to:

- (a) The continued consolidation of the programme on the three key genetic resources of: micro-organisms, plants and animals;
- (b) Action called for by the Level One overview, in particular on possibly undesirable side-effects of transplantation and hybridization in lakes and aquacultural projects (e.g. conservation of indigenous fish, genetic resources for use in aquaculture);
- (c) Application on a pilot basis of the concept of microbiological resources centres for developing countries;
- (d) New and innovative uses of micro-organisms, e.g. developments in the fields of microbial enzyme engineering and biotechnology.

9. United Nations Conference on Desertification (1109)

Proposed allocation

1976: \$1,023,500

1977: 1,000,000

39. In 1975, \$509,000 were committed in support of: international co-operation to combat desertification, Phases I and II (1109-75-01); Preparation of a draft world map of desertification and desert map of Africa north of the equator (1109-75-02); Revision and re-issue of map of arid and semi-arid zones of the world (1109-75-03).

40. In 1976 and 1977 support will be given to the requirements presented in document UNEP/GC/67. Additional activities related to the Conference preparations are carried out under: water (paragraph 36(g)), arid lands (paragraph 24 (f)(1)), and education and training (paragraph 110(d)).

C. Environment and development (04)

Proposed allocation

1976: \$3,600,000

1977: \$3,600,000

41. This area includes the following sub-areas:

- (a) Integrated approach to environment and development;
- (b) Ecodevelopment;
- (c) Socio-economic impact of environmental measures and/or of their absence;
- (d) Natural products, including food (new and alternative products; rational use of natural resources; substitution; natural versus synthetic products);
- (e) Technology (low-waste and non-waste technologies, recycling and transfer of technology);
- (f) Environmental problems of specific industries;
- (g) Industrial location.

Activities in all these areas are directly linked to the functional tasks of environmental management.

1. Integrated approach to environment and development (0404)

Proposed allocation

1976: \$350,000

1977: \$450,000

42. Commitments in 1975 amounted to \$500,000 for: Development of a methodological model for integrated analysis of environmental effects related to the development of a hydrographic basin (0404-75-01); Ecological and resilience indicators for management (0404-75-02); Report prepared by the Dag Hammarskjöld Foundation on development and international co-operation - Phase on the enquiry into imperatives and international co-operation to meet fundamental needs without transgressing the outer limits (0404-75-03); Preparatory activities for the report on environment

and development (UNEP/GC/76) (0404-75-04); Environment-development relationships in developing countries (0404-75-06); Training course on environment and development (0404-75-05); Support to the International Congress of Scientists on the Human Environment (0404-75-07).

43. Activities to be supported during 1976-1977 include:

- (a) Three regional policy seminars on environmentally sound growth alternatives;
- (b) Case studies on the Bayovar region, Peru;
- (c) Development of a methodological model for integrated analysis of environmental effects related to the comprehensive development of a humid tropical region (the Darien region, Panama);
- (d) Courses for development planners.

Additional activities related to the integrated approach are carried out under oceans (paragraphs 60 (a) and 63 (b)).

2. Ecodevelopment (0405)

Proposed allocation

1976: \$550,000

1977: \$600,000

44. In 1975 a total of \$150,000 were committed to: Programme of studies and back-stopping services for eco-development (0405-75-01); Preliminary evaluation study for a pilot eco-development project in Colombia: Sierra Nevada de Santa Marta (0405-75-02); Preparatory activity for an eco-development approach to the study of parasitic zoonoses (0405-75-03).

45. Activities to be supported in 1976-1977 will include:

- (a) Continuation of the programme on studies and back-stopping services for eco-development, as a follow-up to project 0405-75-01;
- (b) Publication of a Reader in Ecodevelopment;
- (c) Colloquium on eco-development and an eco-development seminar in Lorestan, Iran;
- (d) Pilot eco-development project in Sierra Nevada de Santa Marta, Colombia, follow-up to project 0405-75-02;
- (e) A river development project and an agricultural development project in Africa;
- (f) Regional project on the Latin American tropical forest.

Additional activities related to eco-development are being carried out under other ecosystems (paragraph 28 (b)).

3. Socio-economic impact of environmental measures and/or of their absence (0406)

Proposed allocation

1976: \$700,000

1977: \$550,000

46. During 1975 the Fund supported the development of a research programme to study and determine how psychosocial variables affect the relation of man to his environment (0406-75-05).

47. Support in 1976-1977 will be given to research programmes to study the role of perceptions, attitudes and values of people in relation to environmental and development goals, as a follow-up to project 0406-75-05.

4. Natural products, including food (new and alternative products; rational use of natural resources; substitution; natural versus synthetic products) (0407)

Proposed allocation

1976: \$300,000 1977: \$300,000

48. No new activities were started in 1975.

49. Support in 1976-1977 will be concentrated on activities already in progress in response to previous General Assembly resolutions and Governing Council decisions. These are:

(a) Criteria and principles for environmentally sound use of natural resources;

(b) Follow-up to project 1400-75-02, Intergovernmental Working Group on Shared Natural Resources.

50. In addition, as part of the activities within the proposed new priority subject area "Food", it is intended to support studies of the environmental constraints on alternative solutions to the world food crisis. Additional activities related to food are being carried out under human and environmental health (paragraph 20 (e)(i)); environmental problems of specific industries (paragraph 56), oceans, living marine resources (paragraph 74 (b)), arid land and grazing land ecosystems (paragraphs 24 (d) and (e)), ecosystems, sites and samples (paragraph 30 (a)(ii)), environmental problems of specific industries (paragraph 56), soils (paragraph 34), water (paragraph 36 (b)), genetic resources (paragraph 38 (d)), outer limits (paragraph 92) and tropical woodland and forest ecosystems (paragraph 26 (b)(ii)).

5. Technology (low-waste and non-waste technologies, recycling and transfer of technology) (0402)

Proposed allocation

1976: \$900,000 1977: \$950,000

51. UNEP's interest is focused on environmentally sound and appropriate technology in the context of environment and development. In 1975 a sum of \$243,000 was committed for: Transfer of technology and interrelated environmental problems (0402-75-01); Preparatory activity for a programme on environmentally sound and appropriate technologies (0402-75-02); Information on low-waste technologies (0402-75-03); Development and application of appropriate technology for the sugar industry: pilot project for Africa (0402-75-04).

52. Technology is an area of concentration, and Fund support during 1976-1977 will focus on launching an action-oriented programme of environmentally sound and appropriate technologies as a follow-up to project 0402-75-02. This programme will include support for several pilot projects. Consultations have been started in relation to:

(a) An appropriate technology information and development centre in Botswana;

(b) Environmentally sound and appropriate technology for the Arusha region of the United Republic of Tanzania.

6. Industrial location (0409)

Proposed allocation

1976: \$200,000

1977: \$200,000

53. No activities were financed in 1975 in this area.

54. During 1976 an ecological pre-audit study of a proposed Jamaican-Mexican-Venezuelan alumina plant will be supported. Other similar activities may be considered for support during the period 1976-1977 in the light of the lessons learnt from this study.

7. Environmental problems of specific industries (0408)

Proposed allocation

1976: \$600,000

1977: \$550,000

55. During 1975 the activities in this sub-area were concentrated on the consultative relationship with specific industries (FP/0408-75-01) through the convening of two seminars, one on the pulp and paper industry and the other on the aluminium industry.

56. In 1976-1977 support of the industry programme will be continued; three further seminars are planned on the automobile industry, the agro-industry and another chosen among the industries mentioned in document UNEP/GC/61 (paragraph 182). Support will be also given to an ILO seminar on the working environment.

8. Oceans (05)

Proposed allocation

1976: \$3,600,000

1977: \$3,150,000

57. This area includes the following sub-areas:

(a) Regional activities:

(i) The Mediterranean

(ii) The Persian Gulf

(iii) The Caribbean;

(b) Other areas:

- (i) West African coast of the Atlantic
- (ii) The East Asian waters and the Malacca Straits
- (iii) The Red Sea;

(c) Monitoring and assessment of marine pollution;

(d) Monitoring;

(e) Marine living resources;

(f) International agreements;

(g) Exchange of information.

1. Regional activities (0503)

Proposed allocation (includes section 2, "other areas")

1976: \$2,900,000

1977: \$2,900,000

58. Regional activities will constitute the major area of concentration under this priority subject area. The main support will be given to activities pertaining to the Mediterranean, the Persian Gulf and the Caribbean region.

(a) The Mediterranean

59. In 1975, \$3,048,100 were committed to support the following activities: Implementation of the action plan for the Mediterranean adopted at the Barcelona Conference in January/February 1975 (0503-75-01) - MED I; Promotion of the establishment of marine parks and reserves in the Mediterranean (0503-75-03) - MED III; Intercalibration measurements for pilot projects under the co-ordinated pollution monitoring and research programme (0503-75-04) - MED IV; Protocol on land based sources of pollution (0503-75-05) - MED IV; Co-ordinated pilot projects on oil pollution and coastal circulation in the Mediterranean - preparatory phase (0503-75-06) - MED V; Joint FAO(GFCM)/UNEP co-ordinated project on monitoring the levels and effects of selected pollutants in Mediterranean marine organisms and ecosystems (0503-75-07) - MED VIII; Co-ordinated pilot project on coastal water quality (0503-75-08) - MED VII; Blue Plan for action in the Mediterranean region - preparatory phase (0503-75-10) - MED VI.

60. In 1976-1977, the Fund will support:

(a) Integrated planning:

- (i) Development and implementation of the Blue Plan as a follow-up to project 0503-75-10
- (ii) Assessment of industrial and organic wastes discharging into the Mediterranean from coastal countries
- (iii) The interaction between tourism, development and the environment;

(b) Research and monitoring:

(i) Implementation of the plans of operations developed under the preparatory phase of the pilot projects on oil pollution and coastal circulation in the Mediterranean (0503-75-06)

(ii) Implementation of the plan of operations developed under the preparatory phase of the pilot project on coastal water quality (0503-75-08);

(c) Legal aspects:

Continuation of these activities is already budgeted under Internal MED II project 0503-75-01;

(d) Institutional arrangements:

(i) Establishment of a regional oil-combatting centre for the Mediterranean

(ii) Feasibility study of the establishment of sub-regional oil-combatting centres for the Mediterranean

(iii) Establishment of a secretariat unit to service the legal instruments to be approved by Governments of the region.

(b) The Persian Gulf

61. In 1975, \$96,400 were committed to provide expert support for a prefeasibility study of coastal area development in Bahrain, Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia, and the United Arab Emirates (0503-75-09).

62. Activities to be supported in 1976-1977 are:

(a) The organization of an Intergovernmental meeting on the protection of the Gulf to be held in 1976 in Kuwait as a follow-up to project 0503-75-09;

(b) Studies to develop legal draft conventions for the protection of the Gulf.

(c) The Caribbean

63. Activities to be supported in 1976-1977 are:

(a) The convening of a Caribbean regional marine pollution workshop to assess marine pollution problems and evaluate research, monitoring and pollution control in the Caribbean (follow-up to project 0501-73-005);

(b) Caribbean seminar on regional approaches to future resource needs;

(c) Caribbean programme in the field of the human environment to prepare studies with a view to developing an action plan;

(d) Convening of an intergovernmental meeting on marine pollution problems in the area in 1977;

(e) Co-operation with the United Nations and other bodies on coastal area development programme for the Caribbean.

2. Other areas (0503)

64. Lesser support from the Fund will be given to activities pertaining to the following three regions:

(a) West African coast of the Atlantic

65. Follow-up and new activities for 1976-1977 are to be developed from the recommendations of technical assistance project 0302-75-12 (UNEP mission to countries of the region (see paragraph 113)), and will be co-ordinated with the United Nations coastal area development programme for the Gulf of Guinea.

(b) The East Asian waters and the Malacca Straits

66. In 1975, \$58,000 were committed to support a workshop on marine pollution in East Asian waters (0501-75-01).

67. Follow-up and new activities to be supported in 1976-1977 are:

(a) Preparation of an intercountry programme of research and monitoring of pollution in the Malacca-Singapore Straits area;

(b) Studies on marine pollution in the region;

(c) Implementation of the recommendations of the workshop on marine pollution (0501-75-01) regarding the establishment of a marine pollution monitoring system for East Asian waters, including the Malacca Straits, and co-operation with the United Nations in the preparation of a coastal area development programme for the region.

(c) The Red Sea

68. In 1975, \$56,790 were committed to support the preparatory phase of the Intergovernmental regional programme for environmental studies on the Red Sea and the Gulf of Aden, under which a draft convention and an action plan are being prepared (0503-75-02).

69. Follow-up activities in 1976-1977 will include the implementation phase of project 0503-75-02.

3. Monitoring and assessment of marine pollution (0501)

Proposed allocation

1976: \$350,000 1977: \$50,000

70. In 1975, \$159,000 were committed to support: Workshop on marine pollution in East Asian waters (0501-75-01); Technical symposium on the prevention of marine pollution from ships (Mexico, March 1976) to discuss the implications of the International Convention for the Prevention of Pollution from Ships, 1973 (0501-75-02); Evaluation of releases of radionuclides into aquatic environments (0501-75-03); Level One overview of marine pollution (0501-75-04).

71. Follow-up and new activities to be supported in 1976-1977 are:

- (a) Workshop on river inputs to the ocean system;
- (b) Follow-up of project 0501-73-006, registry of rivers discharging into the oceans.

4. Monitoring

72. The related activities are reported under GEMS (paragraph 83 (b)).

5. Living marine resources (0502)

Proposed allocation

1976: \$300,000 1977: \$150,000

73. In 1975, \$143 000 were committed to support: Regional co-operation on protection of living aquatic resources from pollution and basis for biological monitoring (0502-75-01); Level One overview of living marine resources (0502-75-02).

74. Follow-up and new activities in 1976-1977 are:

- (a) Continued support for the establishment of priorities for research on endangered species of whales;
- (b) Encouragement of co-ordinated measures for research, conservation and management of marine living resources with special attention to food chains and over-exploitation of resources in certain key areas of the oceans.

6. International agreements (0504)

Proposed allocation

1976: \$50,000 1977: \$50,000

75. Activities to be supported in 1976-1977 include continued UNEP participation in the Law of the Sea Conference (follow-up to 0504-75-01). Other activities in this area are reported under environmental law (paragraph 101).

7. Exchange of information

76. Activities in this area are reported under IRS (paragraphs 85 and 86).

E. Energy (0700)

Proposed allocation

1976: \$550,000 1977: \$600,000

77. In 1975, some \$1,780,000 were allocated to: systems study of energy and climate (0700-75-02); Comparison of energy options, a methodological study (0700-75-03); Rural energy centres (Part 1) (RA/0700-75-05).

78. New and follow-up activities to be initiated in 1976-1977 are:

- (a) The second phase of the rural energy centres project;
- (b) Assistance to developing countries, at their request, in utilization of non-conventional sources of energy, e.g. solar, wind and biogas;

(c) Support of research on new non-conventional sources of energy and on energy conservation;

(d) Meeting of nuclear energy panel.

F. Natural disasters (1200)

Proposed allocation

1976: \$200,000

1977: \$300,000

79. In 1975 two projects were approved, committing a total of \$153,000 over two years: Selection of hurricane and early warning, including flood forecasting, systems for operation in Central America (1200-75-01); Tropical cyclone monitoring and early warning systems in countries in the areas of the Bay of Bengal and the Arabian Sea (1200-75-02).

80. In 1976-1977 it is expected to support:

(a) Completion of the World Survey of Disaster Damage;

(b) State of the art in disaster prevention and mitigation;

(c) Study tour on disaster prevention and forecasting;

(d) Concerted efforts for the establishment of early warning systems and for increasing country preparedness for natural disasters.

Additional activities related to natural disasters are being carried out under GEMS (paragraph 83 (e)).

III. FUNCTIONAL TASKS

A. Earthwatch (13)

Proposed allocation

1976: \$3,400,000

1977: \$3,350,000

1. Global Environmental Monitoring System (1301)

Proposed allocation

1976: \$2,000,000

1977: \$1,950,000

81. This functional task includes the following monitoring activities:

(a) Climate-related monitoring;

(b) Ocean monitoring;

(c) Health-related monitoring (air, water, food);

(d) Monitoring of degradation and depletion of renewable natural resources;

(e) Monitoring of disasters;

(f) Research and development related to monitoring.

82. In 1975, some \$610,000 were allocated to: Glacier monitoring (climate-related monitoring) (1301-75-05); Marine monitoring and assessment in the Indian Ocean (ocean monitoring) (1301-75-01); Selected methods of measuring air pollutants (health-related monitoring) (1301-75-03); Monitoring to assess selected problems arising from agricultural and land-use practices (monitoring of degradation and depletion of renewable natural resources) (1301-75-04); Conference on sensing and assessment (research and development related to monitoring) (1301-75-02).

83. Activities to be supported in 1976 and 1977 are as follows:

(a) Climate-related monitoring:

- (i) Extension of project 1301-74-006, monitoring of background pollution in the atmosphere
- (ii) Meeting of Government experts on climate convened jointly with IPLAN
- (iii) Support part of the costs of a laboratory to prepare standard gas mixtures needed to measure CO₂ in air
- (iv) Feasibility study to set up in Kenya a baseline station for background pollution monitoring of the atmosphere as part of the global network of atmospheric baseline stations;

(b) Ocean monitoring:

- (i) Phase II of marine environmental monitoring in the Indian Ocean (1301-75-01)
- (ii) Other ocean monitoring activities, as listed under oceans
- (iii) Further monitoring activities in the oceans are likely to be planned as a result of the meeting of Government experts;

(c) Health-related monitoring:

- (i) Phase II of the inventory of air and water monitoring capabilities in the ESCAP region (1301-75-005)
- (ii) Water quality monitoring
- (iii) Phase II of food contaminants monitoring programme (0102-73-04)
- (iv) Meeting of Government experts on health related monitoring;

(d) Monitoring of degradation and depletion of renewable natural resources: monitoring activities will be initiated and expanded as a result of the work of the group of Government experts that will consider monitoring for the assessment of selected problems arising from agriculture and land-use practices;

(e) Monitoring of disasters: action in this field has to await the completion of the state of the art report on disaster prevention and mitigation and the world survey of disaster damage,

(f) Research and development related to monitoring: this forms part of several priority subject areas, e.g. environmental health, arid lands, tropical forests, oceans, etc.

84. Additional activities related to GEMS are being carried out under human and environmental health (paragraph 20 (b)), oceans (paragraphs 63 (a) and 66 (a)), arid land and grazing land ecosystems (paragraphs 24 (a)(iv) and 24 (e)(iii)); tropical woodland and forest ecosystems (paragraph 26 (b)(iii)) and endangered species and wildlife (paragraph 32 (a)).

2. International Referral System (1302)

Proposed allocation

1976: \$1,000,000 1977: \$1,000,000

85. In 1975 two projects were approved for some \$290,000: FAO catalogue of current legislation on environment and natural resources (1302-75-02); Accelerated development of Aquatic Sciences and Fisheries Information System - mechanization, improving coverage and broadening scope in order to provide a comprehensive service for the marine and freshwater scientific community throughout the world (1302-75-01).

86. In 1976 and 1977 some \$850,000 will be earmarked yearly for the internal operations of the IRS programme activity centre. The balance will be set aside for projects which will support the work of IRS. Additional activities related to IRS are being carried out under human settlements technology (paragraph 13 (b)).

3. Outer limits (1303)

Proposed allocation

1976: \$400,000 1977: \$400,000

(a) Climatic change

87. In 1975 some \$218,000 were committed to support: Man and drought (1303-75-07); UNEP/International Institute for Applied Systems Analysis liaison and research on outer limits (1303-75-03).

88. New activities to be initiated in 1976-1977 will be established after a meeting of the WMO Executive Committee and an expert panel in March 1976.

(b) Weather modification

89. In 1975, some \$19,000 were committed for the UNEP/WMO Expert Meeting on Legal Aspects of Weather Modification (1303-75-04). The principles laid down during this meeting will serve as guidelines for the future programme.

90. Follow-up activities to be initiated in 1976-1977 will include a meeting of experts to consider the report of the UNEP/WMO meeting and draft general principles to be submitted to the Governing Council.

(c) Increase in bioproductivity

91. In 1975, some \$16,000 were used to convene an expert meeting on photosynthesis in Nairobi (1303-75-02).

92. In 1976-1977 an interdisciplinary group will be convened to continue to review the state of the art in relation to bioproductivity and identify gaps for further research, and support will be given to a meeting to discuss the biogeochemical cycles of sulphur, nitrogen and phosphorus, a symposium on nitrogen and meetings dealing with improving solar conversion by green plants.

(d) Risks to the ozone layer

93. In 1975, \$105,000 were committed for: Preparation of a review of atmospheric transport and mixing (1303-75-06); MIT International programme on monitoring (1303-75-05); Development of the programme of environmental education and outer limits (RA/1303-75-01).

94. In 1976-1977 it is planned to support the development of a programme to determine long-term trends in exposure to ultra-violet radiation at the earth's surface.

(e) Social outer limits

95. Support will be given to efforts designed to seek clarification of the concept and develop a more detailed strategy. The Aspen Institute for Humanistic Studies has been asked to undertake an interdisciplinary approach to conceptualizing the idea of social outer limits.

(f) Satisfaction of basic human needs

96. Support will be given to endeavours to determine the outer limits which could place constraints on the satisfaction of the basic human needs. Such activities will run concurrently with studies on the issue of basic human needs itself.

B. Environmental management (1000)

Proposed allocation

1976: \$450,000

1977: \$550,000

97. In 1975 some \$400,000 were approved for: Meeting of experts on environmental management (1000-75-01); Large-scale regional development programme (1000-75-02); International Federation of Institutes for Advanced Study-UNEP workshop on environment and development (1000-75-03); Preparation of a guide on environmental protection and management (1000-75-04); Review of food and agricultural submodels of global models (1000-75-05); Guidelines for national environment reports, PA I (RA/1000-75-06).

98. New and follow-up activities to be initiated in 1976 and 1977 are:

- (a) Regional development strategy game;
- (b) Guidelines for national environment reports, Phase II;
- (c) Environmental statistics.

Several activities under various other priority subject areas are designed to lead to guides for and techniques for better management of the environment. The three activities mentioned above are the ones which do not easily fit within other subject areas.

99. Additional activities related to environmental management are being carried out under general development of human settlements (paragraph 11 (a) and (b)(i)), human settlements technology (paragraph 13 (a), (b) and (c)), human and environmental health (paragraph 20 (e)), pest management systems (paragraph 22), environment and development (paragraph 43 (c)) and water (paragraph 36 (e)).

C. Environmental law (1400)

Proposed allocation

1976: \$300,000

1977: \$300,000

100. In 1975, \$94,700 were committed to support: Informal expert group meeting to review the Executive Director's draft report on co-operation in the field of the environment concerning natural resources shared by two or more States (UNEP/GC/44 and Corr.1 and 2 and Add.1); and to advise on the development of UNEP's programme in the field of international law (1400-75-01); Intergovernmental Working Group on Shared Natural Resources (1400-75-02).

101. In 1976-1977 the Fund will support:

(a) Systematic collection of data and information

- (i) Review of the outcome of the analysis of information from United Nations organizations (UNEP/GC/61, Annex II) to determine what follow-up action may be required for the further development of principles of international environmental law.

- (ii) Consideration of publishing a register of all conventions and other instruments concerning environmental law.

(b) Elaboration of the principles in the Stockholm Declaration and decisions of the Governing Council relating to the responsibilities of States in the field of environmental law: the group established under project 1400-75-02 will continue its work in 1976, and it is hoped that it will be able to submit a final report to the Governing Council at its fifth session. In 1976 a meeting of legal experts and scholars in the field of environmental law will be convened to prepare preliminary draft articles on State responsibility for environmental damage;

(c) Promotion of international agreements or conventions to deal with global environmental concerns as well as with specific environmental problems in given geographical contexts, and efforts to encourage international forums and organizations to take the environmental law aspect into account in their work: activities are included under the sections dealing with oceans and national parks and reserves (paragraphs 62 (b) and 75 and 30 (b) respectively).

(d) Promotion of comparative studies of national environmental protection laws: it is proposed to organize regional seminars in Africa, Asia and Latin America for Government officials concerned with the development of national environmental legislation;

(e) Technical assistance: it is proposed in future to continue extending technical assistance to developing countries at their request for the development of their national environmental legislation. This activity will be financed from the technical assistance budget line.

102. Additional activities related to environmental law are being carried out under: oceans (paragraphs 62 (b) and 75), ecosystems, sites and samples (national parks and reserves) (paragraph 30 (b)) and endangered species and wildlife (paragraph 32 (d)).

D. Supporting measures

Proposed allocation

1976: \$5,910,000

1977: \$6,250,000

I. Information (0303)

Proposed allocation

1976: \$900,000

1977: \$1,250,000

103. In 1975, \$1,102,000 were committed to support: World Environment Day - mass media campaign (0303-75-01); initiation of mass media training seminars (0303-75-02); Co-operation on environmental problems among industrialized countries: study on regional intergovernmental organizations' responses (0303-75-03); World development study and action pack (0303-75-04); Study on environmental influences on health, Phase I (preparation of proposed publication) (0303-75-05); International Institute for Environment and Development - Environmental Information Service (0303-75-06); Preparation and publication of an annual report of UNEP (0303-75-07); NGO environmental profile survey (RB/0303-75-01).

104. Ongoing projects and new activities to be supported in 1976-1977 comprise:

(a) Preparation and provision of media reference services: publication as of 1976 of a UNEP Annual Report as a regular reference work on UNEP activities on a calendar year basis.

(b) Preparation and provision of materials supporting media activities:

(i) Support of an environment information service (International Institute for Environment and Development)

- (ii) A study on environmental influences on health,
 - (c) Establishment of effective liaison with media personnel and organizations: establishment of a media briefing centre;
 - (d) Preparation of training and briefing seminars: additional media seminars will be held to support activities of the programme;
 - (e) Technical assistance for media infrastructures on information services: to be provided, upon request, from technical assistance budget line;
 - (f) Implementation of a communications component in the planning and execution of environmental projects: information components will be included in major projects;
 - (g) Material for direct distribution:
 - (i) Public information publications and support for environmental publications
 - (ii) TV co-productions,
 - (h) World Environment Day (WED):
 - (i) WED 1976 on the theme 'Water - vital resource for life'
 - (ii) WED 1977 on a theme to be determined,
 - (i) Implementation of a publications programme: publication of a UNEP-supported scientific quarterly journal and a series of technical bulletins to be published by programme activity centres such as IRPTC, in addition to the regular UNEP News bulletin and UNEP Report to Governments.
105. Additional activities related to information are being carried out under: general development of human settlements (paragraph 11 (d)), human settlements technology (paragraph 13 (b)), habitat (paragraph 15), pest management systems (paragraph 22 (c)), ecodevelopment (paragraph 45 (b)), technology (paragraph 52 (a)), arid-land and grazing land ecosystems (paragraphs 24 (b)(i) and (ii), 26 (c)(ii) and (iii), 24 (b)(i) and (ii) and 26 (b)(i) and (ii)) and tropical woodland and forest ecosystems (paragraph 26 (a)).

2. Education and training (0301)

Proposed allocation

1976: \$2,860,000

1977: \$2,400,000

106. Action in 1976-1977 will be concentrated on the implementation at various levels of the UNEP/UNESCO programme in environmental education, the establishment of regional programme activity centres on environmental education and training, and specialized training in various environmental disciplines. In addition, the modest UNEP fellowship programme, already established, will be expanded to provide needed assistance in other critical environmental areas.

(a) Environmental education

107. In 1975 approximately \$2,170,000 were committed to support: International programme in environmental education (0301-75-01); Production of audio-visual and other teaching aids for workers (0301-75-05); Publication of an environmental teaching manual for workers' educators (0301-75-06); Programme on environmental education for students from developing countries (0301-75-07); Establishment of a programme activity centre on environmental education and training in Africa (0301-75-09).

108. Follow-up and new activities to be supported in 1976-1977 include:

- (a) Environmental education for workers (ILO);
- (b) Environmental management education (Centre d'etudes Industrielles, Geneva);
- (c) Establishment of networks of institutions for environmental education and training in Africa, Asia, Europe and Latin America (UNESCO, the regional commissions and Governments);
- (d) Establishment of regional programme activity centres in Africa, Western Europe and Asia (UNESCO, the regional commissions and Governments).

(b) Specialized training

109. In 1975 approximately \$1,055,000 were committed to finance: Wood preservation seminar (0301-75-02); Environmental training for national planners and decision-makers in Asia (0301-75-03); Colloquium on recycling and disposal of solid waste (0301-75-04); Establishment in Spain of an international centre for environmental sciences education for Spanish-speaking countries (0301-75-08).

110. Specific new activities to be supported by the Fund in 1976-1977 will include:

(a) Continued support to project 0301-75-03, environmental training for national planners and decision-makers in Asia (ESCAP/Asian Development Institute);

(b) Continued support to project 0301-73-01, training activities for environmental planning in Africa (SIDA/IDEP);

(c) Training programme in marine pollution prevention (IMCO);

(d) Symposium for decision-makers on desertification;

(e) Travelling exhibition as proposed in document UNEP/GC/32, paragraph 120 (b), and aimed at awakening or reinforcing public awareness of environmental issues, particularly in developing countries, to be carried out in 1977, if funds permit, in close co-ordination with activities in the field of public information;

(f) Training of environmental specialists in the German Democratic Republic, using non-convertible currency provided by the Government.

(c) Fellowship programme

111. In 1975 each UNEP regional office was allocated a sum of \$50,000 for use in helping experts from developing countries to attend symposia, workshops or training courses in their field of competence. In addition, UNEP intends to expand its fellowship programme and to institutionalize it on a regional basis.

(d) Related activities

112. Additional activities related to education and training are being carried out under human settlements technology (paragraph 13 (d)), habitat (paragraph 15), human health (paragraph 20 (f)(iii)), arid-land and grazing land ecosystems (paragraph 24 (d)), tropical woodland and forest ecosystem (paragraph 26 (b)(i)), ecosystems, sites and samples (paragraph 30 (d)) and water (paragraph 36 (e)).

3. Technical assistance (0302)

(a) Proposed allocation

1976: \$2,000,000

1977: \$2,450,000

113. In 1975 approximately \$1,384,000 were committed to support: Further assistance to the Capital Development Authority of Dodoma, Tanzania (0302-75-01 and 75-09); Advisory service to the Government of Venezuela (0302-75-02); Establishment of an environment protection agency for the Haifa area (0302-75-04); Environmental audit of Bougainville copper mine operation (0302-75-08); Advisory service to the Government of Senegal (0302-75-10); Provision of transport assistance between Kigali, Rwanda and Garoua, Cameroon for 5 Rwandese students to attend the College of Wildlife Management for French-speaking Countries (0302-75-11); Regional advisory teams for Africa, the ESCAP region, Latin America and West Asia (0302-75-12); Evaluation and assessment of environmental machineries and assistance to 15 selected African countries (0302-75-14).

114. In 1976-1977 it is intended:

(a) To continue support of the regional advisory teams for Africa, West Asia, Latin America and the ESCAP region;

(b) To reinforce the clearing-house facility for technical assistance;

(c) To meet several pending requests for assistance to member States;

(d) To finance technical assistance components in UNEP-supported projects substantive programme areas;

(e) To meet new requests from Governments for UNEP technical assistance;

(f) To continue to promote study tours in countries which have particularly useful experience to offer in the field of the environment.

115. Additional activities related to this area are being carried out under ecosystems, sites and samples (paragraph 30 (a)(iii)), endangered species and wildlife, (paragraph 32 (b)), and environmental law (paragraph 101 (e)).

4. Level One overview (0304)

Proposed allocation

1976: \$150,000

1977: \$150,000

116. In 1975, some \$420,000 were approved for: Environmental data bank, preparatory phase (0304-75-01); Environmental activities data (0304-75-02).

117. New and follow-up activities to be initiated in 1976-1977 are:

- (a) Environmental activities data mechanization;
- (b) Data-handling methodology.

IV. SUGGESTED ACTION BY THE GOVERNING COUNCIL

118. The Governing Council may wish to approve the following draft decision:

"The Governing Council,

"Having reviewed the proposal of the Executive Director as outlined in his note on proposed Fund programme activities 1976-1977 (document UNEP/GC/62),

"1. Decides to apportion the allocation for Fund programme activities as follows:

<u>Areas</u>	<u>1976</u>	<u>1977</u>
Human settlements and human health	6,300,000	7,150,000
Ecosystems	8,190,000	9,250,000
Environment and development	3,600,000	3,600,000
Oceans	3,600,000	3,150,000
Energy	550,000	600,000
Natural resources	200,000	300,000
Earthwatch	3,400,000	3,350,000
Environmental management	450,000	550,000
Environmental law	300,000	300,000
Support	5,910,000	6,250,000
UNHHSF	1,500,000	1,200,000
Total	34,000,000	35,700,000
	=====	=====

"2. Authorizes the Executive Director to adjust the apportionment of funds up to a maximum of 20 per cent on each line if this should be necessary to preserve the integrity of the programme;

"3. Further recalls its decision to authorize the Executive Director to enter into forward commitments of up to \$9 million for the year 1978 and \$4 million for the year 1979."