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PROPOSED PROGRAMME BUDGET FOR THE BIENNIUM 1988-1989\*

PART IV. ECONOMIC, SOCIAL AND HUMANITARIAN ACTIVITIES

Section 18. United Nations Environment Programme

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\* The programme budget as approved by the General Assembly will be issued in its entirety as Official Records of the General Assembly, Forty-second Session, Supplement No. 6 (A/42/6/Rev.1).

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## SECTION 18. UNITED NATIONS ENVIRONMENT PROGRAMME

TABLE 18.1. ANALYSIS OF OVERALL COSTS

(Thousands of United States dollars)

## DIRECT COSTS

## (1) Regular budget

1986-1987 appropri- ation	Estimated additional requirements									
	Revaluation of 1986-1987 re- source base (at revised 1987 rates)		Resource growth (at revised 1987 rates)		Inflation in 1988 and 1989		Total increase		1988-1989 estimates	
	\$	%	\$	%	\$	%	\$	%	\$	%
10 117.1	(113.9)	(1.1)	(116.4)	(1.1)	724.4	7.1	494.1	4.8	10 611.2	

## Analysis of real growth (at revised 1987 rates)

(1) Total revalued 1986-1987 resource base	Resource growth					Rate of real growth (5) over (1)
	(2) Actual	(3) Less non-recurrent items	(4) Plus delayed growth (new posts)	(5) Adjusted		
10 003.2	(116.4)	77.9	-	(194.3)	(1.9)%	

TABLE 18.1 (continued)

## (2) Extrabudgetary resources

	1986-1987 estimated expenditures	1988-1989 estimated expenditures
(a) Services in support of:		
(i) Other United Nations organizations		
(ii) Extrabudgetary programmes		
UNEP Special Account for Programme Support Costs	1 398.1	1 541.4
Environment Fund: management of the Fund and administration	8 982.6	10 010.2
<b>Total (a)</b>	<b>10 380.7</b>	<b>11 551.6</b>
(b) Substantive activities		
Environment Fund: programme costs	14 284.2	15 815.4
<b>Total (b)</b>	<b>14 284.2</b>	<b>15 815.4</b>
(c) Operational projects		
Environment Fund:		
Internal projects	17 323.4	19 798.2
Counterpart contributions	3 691.2	1 500.0
Allocations to co-operating agencies	12 964.3	14 816.3
Allocations to supporting organizations	13 462.3	15 385.5
Regional Trust Fund for the Protection and Development of the Marine Environment and the Coastal Areas of Bahrain, the Islamic Republic of Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia and the United Arab Emirates	375.3	250.0
Regional Trust Fund for the Protection of the Mediterranean Sea against Pollution	4 000.0	3 000.0
Trust Fund for the Convention on International Trade in Endangered Species of Wild Fauna and Flora	1 200.0	1 400.0

TABLE 18.1 (continued)

	1986-1987 estimated expenditures	1988-1989 estimated expenditures
Regional Trust Fund for the Implementation of the Action Plan for the Caribbean Environment Programme	750.0	1 000.0
East Asian Seas Trust Fund	170.0	100.0
Trust Funds for Junior Professional Officers	322.6	350.0
Trust Fund to promote Technical Co-operation and Assistance in Industrial, Environmental, and Raw Material Management	104.3	38.0
Trust Fund for Sasakawa International Environment Prize	181.0	170.0
United Nations Environment Conservation Stamp Trust Fund	198.6	-
Trust Fund for Protection and Development of the Marine Environment in the Coastal Areas of West and Central African Region	100.0	400.0
Regional Seas Trust Fund for the East African Region	-	50.0
Trust Fund for the Convention on the Conservation of Migratory Species of Wild Animals	100.0	150.0
Technical Co-operation Trust Fund to Provide Experts to the Secretariat of SADCC	162.5	100.0
Technical Co-operation Trust Fund for an Integrated Pilot Project on Environmental Management and Protection of Andean Ecosystems	421.3	270.0
Technical Co-operation Trust Fund to support the Clearing House Mechanism through provision of Consultants to developing countries for dealing with serious environment problems	135.0	-

TABLE 18.1 (continued)

	1986-1987 estimated expenditures	1988-1989 estimated expenditures
Technical Co-operation Trust Fund for Provision of Short-term experts to Developing Countries	15.5	-
Technical Co-operation Trust Fund for Technical Co-operation for Control of Environmental Health Hazards and Promotion of Chemical Safety	133.4	23.9
Technical Co-operation Trust Fund to Provide Consultancies to Developing Countries	89.2	-
Total (c)	55 899.9	58 801.9
Total (a), (b) and (c)	80 564.8	86 168.9
Total, direct costs		96 780.1

TABLE 18.2. ANALYSIS OF REVALUED 1986-1987 RESOURCE BASE  
(AT REVISED 1987 RATE)

(Thousands of United States dollars)

	1986-1987 appropriation (1)	Non-recurrent items (2)	Additional requirements				Special adjustments (7)	Total (8)	Net additional requirements (9)	Total revalued 1986-1987 resource base (10)
			Delayed impact of 1986-1987 growth	Other objects of expenditure (4)	Established posts (5)	Other objects of expenditure (6)				
<b>A. Policy-making organs: Sessions of the Governing Council</b>	1 290.9	-	-	-	-	39.2	-	39.2	39.2	1 330.1
<b>B. Executive direction and management</b>										
1. Office of the Executive Director	1 301.7	-	-	2.7	4.1	(44.2)	(37.4)	(37.4)	(37.4)	1 264.3
2. Secretariat of UNSCLEAR	1 007.9	-	-	18.4	18.5	(38.6)	(1.7)	(1.7)	(1.7)	1 006.2
<b>C. Programmes of activity</b>										
1. Liaison and regional representation	889.2	-	14.5	25.2	2.7	(64.6)	(22.2)	(22.2)	(22.2)	867.0
2. Environment (including desertification)	2 145.8	-	-	3.4	8.0	(84.0)	(72.6)	(72.6)	(72.6)	2 073.2
3. Management of the Environment Fund a/	-	-	-	-	-	-	-	-	-	-
<b>D. Programme support</b>										
1. Conference services	1 527.2	-	36.4	4.5	10.0	(73.8)	(22.9)	(22.9)	(22.9)	1 504.3
2. Administration and common services	1 954.4	-	-	6.5	42.0	(44.8)	3.7	3.7	3.7	1 958.1
<b>Total</b>	10 117.1	-	50.9	60.7	124.5	(350.0) b/	(113.9)	(113.9)	(113.9)	10 003.2

a/ Funded exclusively from extrabudgetary resources.

b/ Reflects the revised 1988-1989 vacancy rates.

TABLE 18.3. REGULAR BUDGET, DIRECT COSTS: SUMMARY OF 1988-1989 REQUIREMENTS AND RATES OF REAL GROWTH, BY PROGRAMME

(Thousands of United States dollars)

Programme	Estimated additional requirements				1988-1989 estimates	Rates of real growth %
	1986-1987 appropriation	Revaluation of 1986-1987 resource base (at revised 1987 rates)	Resource growth (at revised 1987 rates)	Inflation in 1988 and 1989		
A. Policy-making organs: Sessions of the Governing Council	1 290.9	39.2	(67.7)	208.8	1 471.2	(5.0)
B. Executive direction and management						
1. Office of the Executive Director	1 301.7	(37.4)	82.1	66.7	1 413.1	6.4
2. Secretariat of UNSCEAR	1 007.9	(1.7)	(107.7)	8.1	906.6	(11.5)
C. Programmes of activity						
1. Liaison and regional representation	889.2	(22.2)	(5.2)	22.4	884.2	(0.5)
2. Environment (including desertification)	2 145.8	(72.6)	(130.3)	98.6	2 041.5	(7.2)
3. Management of the Environment Fund a/	-	-	-	-	-	-
D. Programme support						
1. Conference services	1 527.2	(22.9)	-	100.4	1 604.7	-
2. Administration and common services	1 954.4	3.7	112.4	219.4	2 289.9	3.1
Total	10 117.1	(113.9)	(116.4)	724.4	10 611.2	(1.9)

a/ Funded exclusively from extrabudgetary resources.



TABLE 18.4. REGULAR BUDGET, DIRECT COSTS: SUMMARY OF 1988-1989 REQUIREMENTS AND RATES OF REAL GROWTH, BY OBJECT OF EXPENDITURE

(Thousands of United States dollars)

Objects of expenditure	1986-1987 appropriation	Estimated additional requirements		Total 1988-1989 estimates	Rates of real growth %	
		Revaluation of 1986-1987 resource base (at revised 1987 rates)	Resource growth (at revised 1988 and 1989 rates)			
Established posts	4 538.6	(158.0)	189.8	31.8	4 570.4	-
Temporary assistance for meetings	1 323.8	47.5	195.8	91.3	1 415.1	(11.0)
General temporary assistance	96.6	3.7	9.7	13.4	110.0	-
Consultants	329.4	14.9	16.4	(72.0)	257.4	(30.0)
Overtime	73.7	3.5	9.5	14.0	87.7	1.2
Ad hoc expert groups	28.8	1.4	6.5	27.5	56.3	-
Language training	17.3	0.9	2.5	3.4	20.7	-
Common staff costs	2 215.8	(80.4)	101.0	20.6	2 236.4	-
Representation allowances	24.8	-	-	-	24.8	-
Travel of representatives	181.6	7.2	5.2	15.1	196.7	1.4
Official travel of staff	275.5	8.4	27.3	(21.1)	254.4	(20.0)
Contractual translation	17.2	-	5.7	9.3	26.5	33.1
External printing and binding	126.2	1.0	3.5	(23.5)	102.7	(22.0)
Rental and maintenance of equipment	170.9	8.2	28.8	73.4	244.3	20.3
Communications	217.7	10.0	35.8	85.5	303.2	17.4
Hospitality	10.1	0.3	1.7	2.0	12.1	-
Conference-servicing costs	42.5	0.1	15.4	65.0	107.5	116.1
Miscellaneous services	7.9	0.1	2.6	9.5	17.4	85.0
Supplies and materials	272.0	10.5	41.0	55.5	327.5	1.4
Furniture and equipment	146.7	6.8	28.3	93.4	240.1	-
<b>Total</b>	<b>10 117.1</b>	<b>(113.9)</b>	<b>724.4</b>	<b>494.1</b>	<b>10 611.2</b>	<b>(1.9)</b>

TABLE 18.5. POST REQUIREMENTS

Organizational unit: United Nations Environment Programme

Professional category and above	Established posts		Temporary posts				Total
	Regular budget		Regular budget		Extrabudgetary resources		
	1986-1987	1988-1989	1986-1987	1988-1989	1986-1987	1988-1989	
USG	1	1	-	-	-	1	1
ASG	2	2	-	-	1	3	3
D-2	4	4	-	-	7	11	11
D-1	4	4	-	-	8	12	12
P-5	13	13	-	-	21	34	34
P-4	14	14	-	-	26	40	40
P-3	5	5	-	-	30	35	35
P-2/1	3	3	-	-	8	11	11
<b>Total</b>	<b>46</b>	<b>46</b>	<b>-</b>	<b>-</b>	<b>101</b>	<b>147</b>	<b>147</b>
<b>General Service category</b>							
Principal level	1	1	-	-	1	2	2
Other levels	5	5	-	-	10	15	15
<b>Total</b>	<b>6</b>	<b>6</b>	<b>-</b>	<b>-</b>	<b>11</b>	<b>17</b>	<b>17</b>
<b>Other categories</b>							
Local level	54	54	-	-	200	254	254
<b>Total</b>	<b>54</b>	<b>54</b>	<b>-</b>	<b>-</b>	<b>200</b>	<b>254</b>	<b>254</b>
<b>Grand total</b>	<b>106</b>	<b>106</b>	<b>-</b>	<b>-</b>	<b>312</b>	<b>418</b>	<b>418</b>

## UNITED NATIONS ENVIRONMENT PROGRAMME

18.1 Following the United Nations Conference on the Human Environment, held at Stockholm in June 1972, the General Assembly, by its resolution 2997 (XXVII) of 15 December 1972, established a Governing Council of the United Nations Environment Programme (UNEP) and a small secretariat to serve as the focal point for environmental action and co-ordination of the United Nations system. By the same resolution, the Assembly also established the Environment Fund.

18.2 The environment programme responds to and is basically structured to cover environmental assessment, environmental management, which includes several subject areas, and supporting measures.

18.3 Environmental assessment, also referred to as Earthwatch, focuses on global and regional assessment, research, information exchange, evaluation and review. The Global Environmental Monitoring System Programme Activity Centre (GEM/PAC) is the mechanism for global monitoring, while the International Referral System for Sources of Environmental Information Programme Activity Centre (INFOTERRA/PAC) and the International Register of Potentially Toxic Chemicals Programme Activity Centre (IRPTC/PAC) focus on information exchange in general terms and on potentially toxic chemicals, respectively. Environmental data and statistics in support of UNEP are handled in this area. The results of assessments are used in management and transmitted to Governments as a basis for policy decisions.

18.4 Environmental management deals with the preparation of methodologies and actions to prevent and address environmental problems in matters related to various areas: oceans, focusing on a globally integrated set of action plans for regional seas; desertification; industry and transportation, impact of technology on the environment, human settlements, energy; and terrestrial ecosystems, which include soils, tropical forests, wildlife, genetic resources, lithosphere, fresh water resources, management of agricultural chemicals and residues, and biogeochemical cycles.

18.5 Supporting measures are undertaken to supplement and ensure the success of the above activities. Environmental law and machinery addresses the development of legal principles and instruments. Environmental education and training, information and technical assistance constitute important assets for environmental assessment and environmental management, aiming at developing capable manpower resources in the field of the environment, promoting the growth of public awareness of environmental problems and responding to the specific problem-solving needs of Governments. The integration of environment into development planning calls for a reorientation of design and implementation of development activities so that these will be sensitive to existing environmental constraints and opportunities.

A. Policy-making organs

SESSIONS OF THE GOVERNING COUNCIL AND ITS PREPARATORY COMMITTEE

TABLE 18.6. ANALYSIS OF OVERALL COSTS

(Thousands of United States dollars)

(1) Regular budget

Main objects of expenditure	1986-1987 appropriation	Estimated additional requirements				Total increase	1988-1989 estimates
		Revaluation of 1986-1987 base (at revised rates)	Resource growth (at revised rates)	Re-source (at revised rates)	Inflation and 1989		
Temporary assistance for meetings	1 117.5	37.5	(152.0)	165.7	51.2	1 168.7	
Overtime	33.9	1.5	4.2	6.7	12.4	46.3	
Travel of representatives	14.4	-	2.7	2.5	5.2	19.6	
Official travel of staff	8.7	0.1	(1.8)	1.3	(0.4)	8.3	
Contractual translation	17.2	-	5.7	3.6	9.3	26.5	
Hospitality	5.4	-	-	1.0	1.0	6.4	
Conference-servicing costs	42.5	0.1	49.5	15.4	65.0	107.5	
Miscellaneous services	5.6	-	9.2	2.6	11.8	17.4	
Supplies and materials	45.7	-	14.8	10.0	24.8	70.5	
<b>Total</b>	<b>1 290.9</b>	<b>39.2</b>	<b>(67.7)</b>	<b>208.8</b>	<b>180.3</b>	<b>1 471.2</b>	

Analysis of real growth (at revised 1987 rates)

(1) Total revalued 1986-1987 resource base	Resource growth				Rate of real growth over (1)
	(2) Actual	(3) Less non-recurrent items	(4) Plus delayed growth (new posts)	(5) Adjusted	
1 330.1	(67.7)	-	-	(67.7)	(5.0)%

(2) Extrabudgetary resources

-	
<b>Total</b>	<b>1 471.2</b>

## A. Policy-making organs

### Sessions of the Governing Council and its Preparatory Committee

18.6 By its decision 11/2, the Governing Council decided to hold only one session of the Council during the biennium 1986-1987, instead of the customary two, and to decide finally on the periodicity of its future sessions at its fourteenth session in 1987. It is anticipated that, at that session, the Council will decide to convene only one session of the Governing Council in each biennium and to agree to the Executive Director's proposal to hold a five-day special session once every six years, in even years beginning in 1988, to discuss the system-wide medium-term environment programme (SWMTEP) and the UNEP portion of the United Nations medium-term plan before submitting them to the General Assembly.

18.7 The five-day special session and the regular session will be serviced by interpreters, translators and conference typists, some of whom, in addition to Nairobi staff, will be supplied by the United Nations offices in New York, Geneva and Vienna, and others who will be freelance staff from different countries. Pre-, in- and post-session documentation will be reproduced in Nairobi.

### Resource requirements (at revised 1987 rates)

#### Temporary assistance for meetings

18.8 The estimated requirements under this heading (\$1,003,000) reflect a decrease of \$152,000, which is due to the fact that the special session of the Governing Council in 1988 will be of only five days' duration instead of the usual eight days. The requirements relate to salaries and travel and subsistence costs of the freelance interpreters, translators and conference typists recruited to service the Governing Council and the Preparatory Committee meetings. The estimates also include requirements in respect of security staff, conference room assistants, reproduction clerks, messengers, drivers and distribution clerks recruited locally for the sessions of the Council.

#### Overtime

18.9 The estimated requirements under this heading (\$39,600) reflect an increase of \$4,200 and are based on actual experience over the last few years. It is estimated that 1,400 hours of overtime will be worked during the preparation of pre- and in-session documentation for the five-day special session in 1988 and 5,250 hours for the regular eight-day Governing Council session in 1989.

#### Travel of representatives

18.10 The estimated requirements under this heading (\$17,100) include an increase of \$2,700, and relate to the travel and subsistence costs of the representatives of national liberation movements recognized by the Organization of African Unity to attend both sessions of the Governing Council.

#### Official travel of staff

18.11 A reduction of \$1,800 is shown in the estimated requirements under this heading (\$7,000). The provision relates to the costs of travel of staff from the

New York Liaison Office and the Regional Office for Europe to attend both sessions of the Governing Council.

#### Contractual translation

18.12 Based on past experience, \$22,900 will be required for external translation of documents that exceed in-house capability during peak work-load periods. The amount requested includes an increase of \$5,700 over the current resource level.

#### Hospitality

18.13 The requirements under this heading (\$5,400) show no increase over the current level of resources and relate to the cost of one official function to be hosted by the President of the Governing Council and the Executive Director of UNEP during the special and regular sessions of the Governing Council. In accordance with established practice for such functions, a general invitation is issued to all delegations to the Council.

#### Conference-servicing costs

18.14 The estimated requirements under this heading (\$92,100) reflect an increase of \$49,500. The conference-servicing costs for the anticipated 1988 special session are estimated at \$20,700 and \$71,400 for the 1989 regular session of the Governing Council. These costs include rental of three photocopying machines, costs of photocopies, hire of seven minibuses with drivers for the transportation of staff members, and communication costs.

#### Miscellaneous services

18.15 The estimated requirements under this heading (\$14,800) reflect an increase of \$9,200 and provide for the fees of sound technicians and engineers for the operation of the simultaneous interpretation equipment.

#### Supplies and materials

18.16 An increase of \$14,800 is included in the \$60,500 requested for paper, darkroom supplies and spare parts for duplicating machines for the pre-, in- and post-session documentation for the Governing Council.

B. Executive direction and management

1. OFFICE OF THE EXECUTIVE DIRECTOR

TABLE 18.7. ANALYSIS OF OVERALL COSTS

(Thousands of United States dollars)

(1) Regular budget

Main objects of expenditure	1986-1987 appropriation	Estimated additional requirements				Total increase	1988-1989 estimates
		Revaluation of 1986-1987 base (at revised 1987 rates)	Resource growth (at revised 1987 rates)	Inflation in 1988 and 1989	Re-source growth		
Established posts	757.6	(26.4)	71.6	33.8	79.0	836.6	
Consultants	13.0	0.7	(4.1)	1.3	(2.1)	10.9	
Common staff costs	402.5	(15.1)	38.0	18.6	41.5	444.0	
Representation allowances	15.2	-	-	-	-	15.2	
Official travel of staff	113.4	3.4	(23.4)	13.0	(7.0)	106.4	
<b>Total</b>	<b>1 301.7</b>	<b>(37.4)</b>	<b>82.1</b>	<b>66.7</b>	<b>111.4</b>	<b>1 413.1</b>	

Analysis of real growth (at revised 1987 rates)

(1) Total revalued 1986-1987 resource base	Resource growth				Rate of real growth over (1)
	(2) Actual	(3) Less non-recurrent items	(4) Plus delayed growth (new posts)	(5) Adjusted	
1 264.3	82.1	-	-	82.1	6.4%

TABLE 18.7 (continued)

## (2) Extrabudgetary resources

	1986-1987 estimated expenditures	1988-1989 estimated expenditures
(a) Services in support of:		
(i) Other United Nations organizations	-	-
(ii) Extrabudgetary programmes		
UNEP Special Account for Programme Support Costs	40.9	23.1
Total (a)	40.9	23.1
(b) Substantive activities		
Environment Fund: programme costs	1 537.1	1 889.1
Total (b)	1 537.1	1 889.1
(c) Operational projects	-	-
Total (c)	-	-
Total (a), (b) and (c)	1 578.0	1 912.2
	Total	3 325.3



TABLE 18.8. POST REQUIREMENTS

Programme: Office of the Executive Director

	Established posts		Temporary posts				Total
	Regular budget		Regular budget		Extrabudgetary resources		
	1986-1987	1988-1989	1986-1987	1988-1989	1986-1987	1988-1989	
Professional category and above							
USG	1	1	-	-	-	-	1
ASG	1	1	-	-	-	-	1
D-2	1	1	-	-	-	-	1
D-1	1	1	-	-	1	1	2
P-5	2	3	-	-	1	1	3
P-4	1	1	-	-	5	5	6
P-3	1	1	-	-	2	2	3
P-2/1	-	-	-	-	2	2	2
<b>Total</b>	<b>8</b>	<b>9</b>	<b>-</b>	<b>-</b>	<b>11</b>	<b>11</b>	<b>19</b>
<b>Other categories</b>							
<b>Local level</b>	<b>8</b>	<b>8</b>	<b>-</b>	<b>-</b>	<b>11</b>	<b>16</b>	<b>19</b>
<b>Total</b>	<b>8</b>	<b>8</b>	<b>-</b>	<b>-</b>	<b>11</b>	<b>16</b>	<b>24</b>
<b>Grand total</b>	<b>16</b>	<b>17</b>	<b>-</b>	<b>-</b>	<b>22</b>	<b>27</b>	<b>44</b>

## B. Executive direction and management

### 1. Office of the Executive Director

18.17 This programme consists of the overall direction and management of the activities of the UNEP secretariat, taking into account the duties and responsibilities entrusted to the Executive Director by the General Assembly in its resolution 2997 (XXVII). The Office of the Executive Director also supervises external relations, protocol, the Evaluation Unit, the Clearing House Unit, the Information Service, the secretariat of the Governing Council; the State of the Environment and Emergency Response Unit and the regional and liaison offices.

#### Resource requirements (at 1987 rates)

##### Redeployment of posts

18.18 The State of the Environment Unit has been transferred to the Office of the Executive Director in accordance with the recent reorganization of that office which resulted from a programme evaluation review undertaken in January 1986. Consequently, approval is sought for the redeployment of one P-5 post for the State of the Environment Unit, from the Environment programme to the Office of the Executive Director.

##### Consultants

18.19 The estimated requirements under this heading (\$9,600) show a decrease of \$4,100 from the current level of resources. The provision relates to the preparation of reports requested by the General Assembly on the impact of apartheid on the environment and on conventions and protocols.

##### Official travel of staff

18.20 The estimated requirements for official travel (\$93,400) represent a decrease of \$23,400 from the current level and relate to the following programme:

- (a) Attendance at meetings of United Nations bodies, conferences and panels;
- (b) Consultations with Governments;
- (c) Consultations with officials at United Nations Headquarters, UNDP headquarters, the specialized agencies and the regional commissions;
- (d) Representation at meetings and conferences of intergovernmental and non-governmental organizations;
- (e) Public information activities.

2. SECRETARIAT OF THE UNITED NATIONS SCIENTIFIC COMMITTEE  
ON THE EFFECTS OF ATOMIC RADIATION

TABLE 18.9. ANALYSIS OF OVERALL COSTS

(Thousands of United States dollars)

(1) Regular budget

Main objects of expenditure	Estimated additional requirements					1988-1989 estimates
	1986-1987 approved priorities	Revaluation of 1986-1987 resource base (at revised 1987 rates)	Re-source growth (at revised 1987 rates)	Inflation in 1988 and 1989	Total increase	
Established posts	354.4	(15.0)	-	1.6	(13.4)	341.0
Consultants	189.8	8.1	(59.4)	2.1	(49.2)	140.6
Overtime	17.0	0.9	(3.5)	0.3	(2.3)	14.7
Common staff costs	124.0	(5.2)	-	0.4	(4.8)	119.2
Travel of representatives	167.2	7.2	-	2.7	9.9	177.1
Official travel of staff	21.3	1.0	(4.4)	0.1	(3.3)	18.0
External printing and binding	106.6	-	(28.0)	0.7	(27.3)	79.3
Rental and maintenance of equipment	12.1	0.7	(4.6)	0.1	(3.8)	8.3
Communications	2.8	0.1	(2.9)	-	(2.8)	-
Miscellaneous services	2.3	0.1	(2.4)	-	(2.3)	-
Supplies and materials	10.4	0.4	(10.8)	-	(10.4)	-
Furniture and equipment	-	-	8.3	0.1	8.4	8.4
<b>Total</b>	<b>1 007.9</b>	<b>(1.7)</b>	<b>(107.7)</b>	<b>8.1</b>	<b>(101.3)</b>	<b>906.6</b>

Analysis of real growth (at revised 1987 rates)

(1) Total revalued 1986-1987 resource base	Resource growth				Rate of real growth over (1)
	(2) Actual	(3) Less non-recurrent items	(4) Plus delayed growth (new posts)	(5) Adjusted	
1 006.2	(107.7)	8.3	-	(116.0)	(11.5)%

(2) Extrabudgetary resources

-	
<b>Total</b>	<b>906.6</b>

TABLE 18.10. POST REQUIREMENTS

Programme: Secretariat of the United Nations Scientific Committee on the Effects of Atomic Radiation

	Established posts		Temporary posts			Total
	Regular budget		Regular budget		Extrabudgetary resources	
	1986-1987	1988-1989	1986-1987	1988-1989	1986-1987	
Professional category and above						
D-1	1	1	-	-	-	1
P-5	1	1	-	-	-	1
<b>Total</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>
<b>General Service category</b>						
Principal level	1	1	-	-	-	1
Other levels	1	1	-	-	-	1
<b>Total</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>
<b>Grand total</b>	<b>4</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4</b>

## 2. Secretariat of the United Nations Scientific Committee on the Effects of Atomic Radiation

18.21 The United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR) was established by the General Assembly in resolution 913 (X) of 3 December 1955 and entrusted with the compilation and distribution of scientific data on the impact of ionizing radiation upon man and the environment. The Committee secretariat is located in Vienna and is responsible, with the administrative support services of the United Nations Office at Vienna, for the provision of substantive services to the Committee during its sessions in 1988 and 1989.

18.22 It may be recalled that the establishment of UNSCEAR in Vienna in 1976 preceded that of other United Nations entities by several years. From that time, UNSCEAR's requirements for such services as rental and maintenance of office equipment, photocopying charges, communications, miscellaneous services and office supplies have been included in this section of the programme budget. With the assumption of administrative responsibility for these support services by the Division of Administrative Services, Vienna, it is proposed to redeploy the base resources for those items to section 28J, with the exception of the funds required to maintain UNSCEAR's word-processing equipment as explained in paragraph 18.28 below.

### Resource requirements (at revised 1987 rates)

#### Consultants

18.23 Approximately 20 papers, each requiring about 1.5 consultant work-months, will be submitted to UNSCEAR at each of its annual sessions. The estimated cost of this work is \$138,500, which represents a decrease of \$59,400 from the present level of resources.

#### Overtime

18.24 The requirements under this heading (\$14,400) represent a reduction of \$3,500 from the revalued base. The reduction is attributed to increased productivity as a result of the introduction of word-processing equipment.

#### Travel of representatives

18.25 The cost of travel and subsistence allowance for the 21 members to attend two sessions of UNSCEAR during the biennium is estimated at \$174,400, which represents no increase over the current level of resources.

#### Official travel of staff

18.26 A reduction of \$4,400 is included in the requirements of \$17,900 which would cover the cost of travel of the Secretary of the Committee and the Scientific Secretary to attend scientific meetings and symposia, visit laboratories and undertake consultations at UNEP headquarters.

### External printing and binding

18.27 The Committee will produce its biennial report on ionizing radiation sources and biological effects in 1988. The cost of production in English, French, Russian and Spanish is estimated at \$78,600, which represents a reduction of \$28,000 from the revalued base.

### Rental and maintenance of equipment

18.28 The resources requested under this heading (\$8,200) are required for the maintenance of UNSCEAR's word-processing equipment (two work stations, one printer and a pro rata share of the cost of the central processing unit). The amount includes a decrease of \$6,200 which it is proposed to redeploy to section 28J as explained in paragraph 18.22 above, offset by an increase of \$1,600 for the maintenance of a micro-computer, the purchase of which is proposed in paragraph 18.30 below.

### Communications, miscellaneous services and supplies and materials

18.29 As noted earlier, it is proposed to redeploy the revalued base resources for communications (\$2,900), miscellaneous services (\$2,400) and supplies and materials (\$10,800) to section 28J, Administrative services, Vienna.

### Furniture and equipment

18.30 The frequency of mathematical calculations and scientific content in UNSCEAR's body of work gives rise to a request for \$8,300 on a non-recurrent basis for the acquisition of a micro-computer, together with appropriate software. The computer would be used to assist the UNSCEAR secretariat in the task of editing and checking calculations in consultants' reports as well as providing support to the consultants when they serve in Vienna.

C. Programmes of activity

1. LIAISON AND REGIONAL REPRESENTATION

TABLE 18.11. ANALYSIS OF OVERALL COSTS

(Thousands of United States dollars)

(1) Regular budget

Main objects of expenditure	1986-1987 appropriation	Estimated additional requirements				Total increase	1988-1989 estimates
		Revaluation of 1986-1987 resource base (at revised 1987 rates)	Re-source growth (at revised 1987 rates)	Inflation in 1988 and 1989			
Established posts	607.2	(20.4)	-	14.4	(6.0)	601.2	
General temporary assistance	41.0	1.1	-	1.6	2.7	43.7	
Overtime	8.5	0.3	-	0.4	0.7	9.2	
Common staff costs	190.5	(4.5)	-	4.7	0.2	190.7	
Representation allowances	1.2	-	-	-	-	1.2	
Official travel of staff	24.8	0.9	(5.2)	0.7	(3.6)	21.2	
Communications	12.5	0.3	-	0.5	0.8	13.3	
Supplies and materials	3.5	0.1	-	0.1	0.2	3.7	
<b>Total</b>	<b>889.2</b>	<b>(22.2)</b>	<b>(5.2)</b>	<b>22.4</b>	<b>(5.0)</b>	<b>884.2</b>	

Analysis of real growth (at revised 1987 rates)

(1) Total revalued 1986-1987 resource base	Resource growth				Rate of real growth (5) over (1)
	(2) Actual	(3) Less non-recurrent items	(4) Plus delayed growth (new posts)	(5) Adjusted	
867.0	(5.2)	-	-	(5.2)	(0.5) %

TABLE 18.11 (continued)

(2) Extrabudgetary resources

	1986-1987 estimated expenditures	1988-1989 estimated expenditures
(a) Services in support of:		
(i) Other United Nations organizations	-	-
(ii) Extrabudgetary programmes	-	-
Total (a)	-	-
(b) Substantive activities		
Environment Fund: programme costs	5 500.3	6 011.0
Total (b)	5 500.3	6 011.0
(c) Operational projects	-	-
Total (c)	-	-
Total (a), (b) and (c)	5 500.3	6 011.0
	Total	6 895.2



TABLE 18.12. POST REQUIREMENTS

Programme: Liaison and regional representation

	Established posts		Temporary posts				Total
	Regular budget		Regular budget		Extrabudgetary resources		
	1986-1987	1988-1989	1986-1987	1988-1989	1986-1987	1988-1989	
Professional category and above							
D-2	1	1	-	-	5	5	6
P-5	1	1	-	-	9	9	10
P-4	1	1	-	-	-	-	1
P-3	-	-	-	-	2	2	2
<b>Total</b>	<b>3</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>16</b>	<b>16</b>	<b>19</b>
General Service category							
Principal level	-	-	-	-	1	1	1
Other levels	4	4	-	-	10	10	14
<b>Total</b>	<b>4</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>11</b>	<b>11</b>	<b>15</b>
Other categories							
Local level	-	-	-	-	24	24	24
<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>24</b>	<b>24</b>	<b>24</b>
<b>Grand total</b>	<b>7</b>	<b>7</b>	<b>-</b>	<b>-</b>	<b>51</b>	<b>51</b>	<b>58</b>

## C. Programmes of activity

### 1. Liaison and regional representation

18.31 This programme comprises the functions of the New York Liaison Office and the Regional Office for Europe at Geneva, and the regional offices located in Bahrain, Bangkok, Mexico City and Nairobi. Costs are met from extrabudgetary resources, except for the offices at New York and Geneva, which are funded in part by the regular budget.

18.32 The main functions of the Regional and Liaison Offices are to represent UNEP and the Executive Director in the region, to foster and promote the goals and targets of UNEP, and to maintain liaison and co-operation in the region with governmental authorities, public and private institutions and organized groups of individuals at all levels. They co-ordinate with the regional economic commissions on all matters of common interest, particularly through their Environment Co-ordination Units. They provide, upon request, advisory services to Governments for the solution of their most pressing environmental problems and for the integration of environmental concerns into development planning. They collaborate with the regional representatives or offices of other United Nations programmes, particularly the United Nations resident co-ordinators and resident representatives and others responsible for the formulation of regional and country programmes and projects. They also contribute to the development of the UNEP outreach programme and to the programmes in the countries of concentration.

#### Resource requirements (at 1987 rates)

##### General temporary assistance

18.33 The estimated requirements under this heading (\$42,100) show no increase over the current level. The provision relates to general temporary assistance of seven work-months per year in the New York Liaison Office in order to replace General Service staff on maternity leave or extended sick leave, to cope with the peak work-load during the General Assembly and to type and reproduce documents and reports for UNEP staff members on mission in New York. In addition, four work-months are provided for the Regional Office in Europe to cover peak work-loads during meetings, sick-leave and maternity leave replacement.

##### Overtime

18.34 The estimated amount under this heading (\$8,800), is equivalent to the revalued base, and is required to cope with additional work-load in the New York Liaison Office during sessions of the General Assembly and in the Regional Office in Europe during various meetings to be held at Geneva.

##### Official travel of staff

18.35 The estimated requirements under this heading (\$20,500) represents a decrease of \$5,200 from the current level of resources. The provision relates to the travel of the Director and Deputy Director of the New York Liaison Office to UNEP headquarters to attend regional and liaison directors' meetings and to the travel of the Director and a senior programme officer of the Regional Office for Europe to Governments in the region, to meetings and to UNEP headquarters.

Communications and supplies and materials

18.36 The estimated requirements for communications (\$12,800) and for supplies and materials (\$3,600) show no increase over the current level and cover both the New York Liaison Office and the Regional Office for Europe.

2. ENVIRONMENT (INCLUDING DESERTIFICATION)

TABLE 18.13. ANALYSIS OF OVERALL COSTS

(Thousands of United States dollars)

(1) Regular budget

Main objects of expenditure	1986-1987 appropriation	Estimated additional requirements				Total increase	1988-1989 estimates
		Revaluation of 1986-1987 resource base (at revised 1987 rates)	Re-source growth (at revised 1987 rates)	Inflation in 1988 and 1989			
Established posts	1 271.1	(51.7)	(71.6)	47.8	(75.5)	1 195.6	
Consultants	99.1	4.9	(31.2)	10.2	(16.1)	83.0	
Ad hoc expert groups	28.8	1.4	19.6	6.5	27.5	56.3	
Common staff costs	675.1	(28.9)	(38.0)	26.3	(40.6)	634.5	
Representation allowances	8.4	-	-	-	-	8.4	
Official travel of staff	63.3	1.7	(9.1)	7.8	0.4	63.7	
<b>Total</b>	<b>2 145.8</b>	<b>(72.6)</b>	<b>(130.3)</b>	<b>98.6</b>	<b>(104.3)</b>	<b>2 041.5</b>	

Analysis of real growth (at revised 1987 rates)

(1) Total revalued 1986-1987 resource base	Resource growth				Rate of real growth (5) over (1)
	(2) Actual	(3) Less non-recurrent items	(4) Plus delayed growth (new posts)	(5) Adjusted	
2 073.2	(130.3)	19.6	-	(149.9)	(7.2)%

TABLE 18.13 (continued)

## (2) Extrabudgetary resources

	1986-1987 estimated expenditures	1988-1989 estimated expenditures
(a) Services in support of:		
(i) Other United Nations organizations	-	-
(ii) Extrabudgetary programmes		
UNEP Special Account for Programme Support Costs	547.6	603.7
Total (a)	547.6	603.7
(b) Substantive activities		
Environment Fund: programme costs	6 249.8	6 840.9
Total (b)	6 249.8	6 840.9
(c) Operational projects		
Environment Fund:		
Internal projects	17 323.4	19 798.2
Counterpart contributions	3 691.2	1 500.0
Allocations to co-operating agencies	12 964.3	14 816.3
Allocations to supporting organizations	13 462.3	15 385.5
Regional Trust Fund for the Protection and Development of the Marine Environment and the Coastal Areas of Bahrain, the Islamic Republic of Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia and the United Arab Emirates	375.3	250.0
Regional Trust Fund for the Protection of the Mediterranean Sea against Pollution	4 000.0	3 000.0
Trust Fund for the Convention on International Trade in Endangered Species of Wild Fauna and Flora	1 200.0	1 400.0
Regional Trust Fund for the Implementation of the Action Plan for the Caribbean Environment Programme	750.0	1 000.0
East Asian Seas Trust Fund	170.0	100.0
Trust Funds for Junior Professional Officers	322.6	350.0

TABLE 18.13 (continued)

	1986-1987 estimated expenditures	1988-1989 estimated expenditures
Trust Fund to promote Technical Co-operation and Assistance in Industrial, Environmental, and Raw Material Management	104.3	38.0
Trust Fund for Sasakawa International Environment Prize	181.0	170.0
United Nations Environment Conservation Stamp Trust Fund	198.6	-
Trust Fund for Protection and Development of the Marine Environment in the Coastal Areas of West and Central African Region	100.0	400.0
Regional Seas Trust Fund for the East African Region	-	50.0
Trust Fund for the Convention on the Conservation of Migratory Species of Wild Animals	100.0	150.0
Technical Co-operation Trust Fund to Provide Experts to the Secretariat of SADCC	162.5	100.00
Technical Co-operation Trust Fund for an Integrated Pilot Project on Environmental Management and Protection of Andean Ecosystems	421.3	270.0
Technical Co-operation Trust Fund to support the Clearing House Mechanism through provision of Consultants to developing countries for dealing with serious environment problems	135.0	-
Technical Co-operation Trust Fund for Provision of Short-term experts to Developing Countries	15.5	-
Technical Co-operation Trust Fund for Technical Co-operation for Control of Environmental Health Hazards and Promotion of Chemical Safety	133.4	23.9

TABLE 18.13 (continued)

	1986-1987 estimated expenditures	1988-1989 estimated expenditures
Technical Co-operation Trust Fund to Provide Consultancies to Developing Countries	89.2	-
Total (c)	55 899.9	58 801.9
Total (a), (b) and (c)	62 697.3	66 246.5
	Total	68 288.0

TABLE 18.14. POST REQUIREMENTS

Programme: Environment

	Established posts		Temporary posts						
	Regular budget		Regular budget		Extrabudgetary resources				
	1986-1987	1988-1989	1986-1987	1988-1989	1986-1987	1988-1989			
					1986-1987	1988-1989	1986-1987	1988-1989	Total
Professional category and above									
ASG	1	1	-	-	-	-	1	1	1
D-2	2	2	-	-	1	1	3	3	3
D-1	1	1	-	-	6	6	7	7	7
P-5	4	3	-	-	9	9	13	13	12
P-4	5	5	-	-	8	8	13	13	13
P-3	2	2	-	-	11	11	13	13	13
P-2/1	1	1	-	-	-	-	1	1	1
<b>Total</b>	<b>16</b>	<b>15</b>	<b>-</b>	<b>-</b>	<b>35</b>	<b>35</b>	<b>51</b>	<b>51</b>	<b>50</b>
<b>Other categories</b>									
Local level	11	11	-	-	40	37	51	51	48
<b>Total</b>	<b>11</b>	<b>11</b>	<b>-</b>	<b>-</b>	<b>40</b>	<b>37</b>	<b>51</b>	<b>51</b>	<b>48</b>
<b>Grand total</b>	<b>27</b>	<b>26</b>	<b>-</b>	<b>-</b>	<b>75</b>	<b>72</b>	<b>102</b>	<b>102</b>	<b>98</b>



## 2. Environment (including desertification)

18.37 The Environment programme makes available methodological guidance for environmental assessment and management, promotes co-operation among countries to alleviate common environmental problems, and supports environmental education and training. Effective inter-linkages are established between the various components of an integrated programme, aiming at ensuring that economic and social development based on the globe's natural resources can take place on a sustainable basis.

18.38 The programme is carried out by the Office of the Environment Programme which, after a reorganization resulting from a programme evaluation review in January 1986, now consists of: the Office of the Assistant Executive Director; the Programme Co-ordination Unit; "Earthwatch" (composed of three Programme Activity Centres: the Global Environment Monitoring System PAC (including the Global Resource Inventory Database), INFOTERRA PAC, and IRPTC PAC); Environmental Management (comprising Desertification Control/PAC, the Terrestrial Ecosystems Branch, the Technology and Environment Branch, the Industry and Environment Office, and the Oceans and Coastal Areas PAC with its six Trust Funds Units); and the Support Measures Branch which includes the Environmental Law and Machinery Unit, the Environmental Education and Training Unit, the Development Planning and Co-operation Unit and the Library. In addition, some programme elements are implemented by units in the Office of the Deputy Executive Director. These are the Information Service and the Clearing House.

### Subprogramme 1. Environmental assessment

#### (a) Resource requirements:

Regular budget: \$312,400 (15.3 per cent of programme total);

Extrabudgetary resources: \$1,876,000 (25.2 per cent of programme total).\*\*\*

(b) Reference: medium-term plan 1984-1989 (A/37/6 and Corr.1), paras. 12.9-12.12, as revised by A/39/6, chapter 12.

#### (c) Programme elements:

##### 1.1 Data and state of the environment

#### Output:

(i) Annual reports to the Governing Council on the state of the environment (one in each second quarter, 1988 and 1989) (XB);

(ii) Technical publications: (a) report on emerging environmental issues (one in fourth quarter, 1989); and (b) 10 to 15 national State of Environment reports in developing countries (five to seven in fourth quarter, 1988; five to eight in fourth quarter, 1989) (XB).

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\*\*\* Excludes costs of operational projects.

Operational activities: Advisory services provided to member States, upon request, to assist in the preparation of the national State of Environment reports of developing countries (1988, 1989) (XB).

## 1.2 Assessment of outer limits

Output: Technical publications: (a) assessment statements on ozone layer (one in each fourth quarter, 1988 and 1989) (XB); (b) annual ozone layer bulletins (one in each fourth quarter, 1988 and 1989) (XB); (c) assessment statement on socio-economic policy options in relation to impacts of climate change (one in second quarter, 1988) (XB); (d) assessment statement and policy guidance report on impact of sea level rise (one in third quarter, 1989) (XB); (e) a report containing recommendations of Advisory Group on Greenhouse gases (one in fourth quarter, 1989) (XB); (f) assessment statements on impacts of extreme climate variability and change (one in second quarter, 1988; one in each first and fourth quarters, 1989) (XB); (g) case study reports and recommendations for mitigation of drought impact (one in each fourth quarter, 1988 and 1989) (XB); (h) inventory of climate impact studies (one in fourth quarter, 1989) (XB); (i) report and recommendations for application of climate impact assessment in policy development (one in fourth quarter, 1988) (XB); and (j) report containing recommendations of the Scientific Advisory Committee to review progress in the World Climate Impact Studies Programme, including recommendation for programme development (one in fourth quarter, 1988) (XB).

### Operational activities:

(i) Servicing of two meetings of the Co-ordinating Committee on the Ozone Layer (physical aspects and impacts on health and environment) (1988) (XB);

(ii) Seminars/workshops on the application of methods for climate impact assessment (one in each fourth quarter, 1988 and 1989) (XB);

(iii) Ad hoc information services: relevant data and technical information collected and disseminated to users for implementation of the Ozone Layer Convention (1988, 1989) (XB).

## 1.3 GEMS (Global Environmental Monitoring System)\*

Output: Technical publications: (a) global, regional and national data sets for environmental assessment management (one in each fourth quarter, 1988 and 1989) (XB); (b) case study reports on UNEP concentration areas (one in each second and fourth quarter, 1988 and 1989) (XB); (c) major assessments on applicability of Global Resource Information Database (GRID) (one in each third quarter, 1988 and 1989) (XB); (d) publications on GEMS integrated environmental data (one in third quarter, 1988; one in fourth quarter, 1989) (XB); (e) national rangeland assessment and management plans (one in each fourth quarter, 1988 and 1989) (XB); (f) monitoring methodology for Advanced Very High Resolution Radiometer (AVHRR) for biomass estimates (one in fourth quarter, 1989) (XB); (g) a preliminary methodology for estimating global biomass production (one in fourth quarter, 1988) (XB);

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\* Highest priority.

(h) assessment statements on: extent of and change in forest cover (one in fourth quarter, 1988) (XB) and forest damage due to acid rain (one in fourth quarter, 1988) (XB); (i) trends in: precipitation chemistry turbidity, particulate matter (one in fourth quarter, 1989); water quality (one in fourth quarter, 1989) (XB); air pollution (one in fourth quarter, 1988) (XB); food contamination (one in fourth quarter, 1988) (XB); and state and trend of soil degradation (one in fourth quarter, 1989) (XB); (j) annual climate system bulletins (one in each fourth quarter, 1988 and 1989) (XB); (k) data and information reports (Sentinel) (one in each quarter, 1988 and 1989) (XB); (l) assessment statements on environmental pathways and human exposure to various pollutants (one in first quarter, 1988; one in fourth quarter, 1989) (XB); (m) environmental data reports (one in each fourth quarter, 1988 and 1989) (XB); and (n) assessment statements on the status of selected wild species and groups (one in second quarter, 1988; one in third quarter, 1989) (XB).

Operational activities: Advisory services provided to member States, upon request, on: (a) biosphere reserves global monitoring network (fourth quarter, 1989) (XB); and (b) expanded networks on climate-related monitoring (fourth quarter, 1988) (XB), health-related monitoring (fourth quarter, 1989) (XB) and human exposure assessment locations (first quarter, 1989) (XB).

#### 1.4 INFOTERRA (International Referral System for Sources of Environmental Information)

##### Output:

(i) Technical publications: (a) INFOTERRA International Directory and supplements (one in fourth quarter, 1988; two in fourth quarter, 1989) (XB); (b) INFOTERRA Specialized Directories (one in each fourth quarter, 1988 and 1989) (XB); (c) Environmental Experience Exchange series (one in fourth quarter, 1988) (XB); (d) Bi-monthly INFOTERRA bulletins (one in each quarter, 1988 and 1989) (XB); and (e) bibliographies of selected United Nations documents on environment (one in each fourth quarter, 1988 and 1989) (XB);

(ii) Ad hoc information services: (a) referral services provided to users in countries, as well as the United Nations and other organizations (1988, 1989) (XB); (b) on-line access to data banks (1988, 1989) (XB); and (c) improved substantive information services through Sectoral Sources and eight Regional Service Centres (1988, 1989) (XB).

##### Operational activities:

(i) Advisory services and training provided to national focal points, on request, in computerizing their operations (fourth quarter, 1988 and 1989) (XB);

(ii) Strengthened telecommunication links within INFOTERRA network (fourth quarter, 1989) (XB);

(iii) Training courses for national focal points (one in each fourth quarter, 1988 and 1989) (XB).

## 1.5 IRPTC (International Register of Potentially Toxic Chemicals)

Output: Technical publications: (a) environmental health criteria document (one in fourth quarter, 1988) (XB); (b) health and safety guides (one in fourth quarter, 1989) (XB); (c) international chemical safety guides (one in fourth quarter, 1989) (XB); (d) data profiles and other technical data compilations (one in fourth quarter, 1989) (XB); and (e) four issues of IRPTC bulletin (one in each second and fourth quarter, 1988 and 1989) (XB).

### Operational activities:

(i) Provision of advisory services to member States, upon request, on:  
(a) co-ordination of an expanded global information exchange network on chemicals (one in fourth quarter, 1988) (XB); (b) collection, validation, processing and assessment of chemical data (1988, 1989) (XB); (c) provision of data and advice on chemical hazard assessment and control operations (1988, 1989) (XB); (d) evaluated scientific information on environmentally dangerous chemical substances (1988, 1989) (XB); and (e) improved mechanism for exchange of information on control of hazardous chemicals in international trade, protection of human health and environmental quality from noxious effects of chemicals and wastes (one in each fourth quarter, 1988 and 1989) (XB);

(ii) Training courses for network partners (one in each fourth quarter, 1988 and 1989) (XB).

## 1.6 Research, evaluation and review\*\*

Output: Technical publications: (a) scientific report on the sulphur cycle (one in third quarter, 1988) (XB); (b) synthesis reports of two workshops on carbon and nutrient cycling in lakes and estuaries in Asia (one in each fourth quarter, 1988 and 1989) (XB); (c) publication on interaction between photosynthesis and key biogeochemical processes in terrestrial bioproductivity (one in fourth quarter, 1989) (XB); and (d) proceedings of workshop on the phosphorus cycle (one in fourth quarter, 1989) (XB).

Operational activities: (a) workshops on the interaction between carbon and sulphur cycles (one in each fourth quarter, 1988 and 1989) (XB); (b) workshop on carbon and nutrient cycling in lakes and estuaries (fourth quarter, 1989) (XB); and (c) workshop on natural and anthropogenic sulphur cycle in waters at oil fields and drainage water from sulphide and coal deposits (one in fourth quarter, 1988) (XB).

## Subprogramme 2. Human settlements and human welfare

(a) Resource requirements:

Regular budget: \$291,900 (14.3 per cent of programme total);

Extrabudgetary resources: \$528,600 (7.1 per cent of programme total).\*\*\*

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\*\* Lowest priority.

\*\*\* Excludes costs of operational projects.

(b) Reference: medium-term plan 1984-1989 (A/37/6 and Corr.1), paras. 12.13-12.16, as revised by A/39/6, chap. 12.

(c) Programme elements:

### 2.1 Environmental aspects of human settlements planning\*\*

Output: Technical publication: case studies on co-operative activities among developing countries to solve environmental problems related to urbanization (one in fourth quarter, 1989) (XB).

#### Operational activities:

(i) Pilot demonstration projects on: (a) application of guidelines on environmental aspects of human settlements planning (one in each fourth quarter, 1988 and 1989) (XB); (b) integrated development of human settlements for self-sufficiency in energy, water recycling and reuse of resources (one in fourth quarter, 1989) (XB); (c) environmentally sound waste management in human settlements (one each in Africa, Asia and Latin America) (fourth quarter, 1988 and 1989) (XB);

(ii) Two training courses for technicians in appropriate solid, liquid and gaseous waste management (one in each fourth quarter, 1988 and 1989) (XB).

### 2.2 Health of the people and the environment

Output: Technical publications: (a) revised health-related environmental quality standards in hazardous substances (one in fourth quarter, 1988) (XB); (b) twenty-nine criteria documents on the risk evaluation of chemicals (three in each quarter, 1988; four each in the first three quarters, 1989; five in the fourth quarter, 1989) (XB); (c) guideline on prevention of food contaminants and losses (one in third quarter, 1988) (XB); and (d) guidelines on the control of water-borne vectors and pests (two in fourth quarter, 1989) (XB).

#### Operational activities:

(i) Pilot demonstration projects on priority environmental measures for control of communicable diseases (three in fourth quarter, 1989) (XB); field demonstration projects in African countries on control of animal trypanosomiasis (one in each third quarter, 1988 and 1989) (XB);

(ii) Training courses on control of environmental health pollutants (one in each fourth quarter, 1988 and 1989) (XB).

### 2.3 Working environment

Output: Technical publication: report on survey of national arrangements and assignment of responsibility between ministries of labour, health and other bodies (one in fourth quarter, 1989) (XB).

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\*\* Lowest priority.

### Subprogramme 3. Terrestrial and coastal ecosystems

(a) Resource requirements:

Regular budget: \$620,600 (30.4 per cent of programme total);

Extrabudgetary resources: \$2,903,400 (39 per cent of programme total).\*\*\*

(b) Reference: medium-term plan 1984-1989 (A/37/6 and Corr.1), paras. 12.17-12.20, as revised by A/39/6, chap. 12 and A/39/38, para. 310.

(c) Programme elements:

3.1 Arid and semi-arid ecosystems and desertification control\*

Output:

(i) Technical publications: (a) National Plans of Action to Combat Desertification (in Africa, in Asia and in Latin America) (three in each fourth quarter, 1988 and 1989) (XB); (b) four issues of Desertification Control Bulletin (one in each second and fourth quarter, 1988 and 1989) (XB); (c) methodology on desertification assessment and mapping (one in fourth quarter, 1988) (XB); (d) three subregional Action Plans for desertification control (fourth quarter, 1988 and 1989) (XB); and (e) feasibility studies on integrated village development and grazing land rehabilitation (one in third quarter, 1988; one in fourth quarter, 1989) (XB).

Operational activities:

(i) In line with the Cairo Plan, pilot zone projects for the rehabilitation of grazing land in Africa (one in each fourth quarter, 1988 and 1989); four pilot demonstration projects in integrated village development (fourth quarter, 1988 and 1989) (XB);

(ii) Substantive servicing of: (a) the seventh session of DESCON (1988) (XB); and (b) thematic joint programming meeting for co-ordination of the United Nations system and other international organizations in implementation of Plan of Action to Combat Desertification (1988-1989);

(iii) Provision of advisory services to member States, upon request, on: (a) the mechanism for institutionalized ad hoc information exchange and policy formulation among DESCON members (fourth quarter, 1989) (XB); (b) the establishment of an institutional network for afforestation and sand dune stabilization in Latin America (fourth quarter 1989) (XB); (c) the establishment of regional networks of research and training institutions in combating desertification (fourth quarter, 1989) (XB); and (d) regional information networks for non-governmental organizations involved in activities for combating desertification (fourth quarter, 1988 and 1989) (XB);

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\*\*\* Excluding costs of operational projects.

\* Highest priority.

(iv) Training courses on sand dune fixation, afforestation, pasture development and treatment of salinized soils (fourth quarter, 1988 and 1989) (XB).

In addition activities include support to anti-desertification activities in Sudano-Sahelian region through joint projects in co-operation with UNSO.

### 3.2 Tropical woodlands and forest ecosystems\*\*

#### Output:

(i) Technical publications: (a) management plans of specific areas of forest resources (fourth quarter, 1988) (XB); (b) assessment statements on global, regional and national forest resources (five in third quarter, 1989) (XB); and (c) a detailed collaboration plan with International Timber and Trade Organization (ITTO) (one in fourth quarter, 1989).

#### Operational activities:

(i) Provision of advisory services to three countries on: selected forest genetic resources and sites protected (one in fourth quarter, 1988; two in fourth quarter, 1989) (XB); provision of advisory services on improved system for development and management of forest resources in selected sites (fourth quarter, 1988) (XB);

(ii) Training courses on: (a) conservation of forest genetic resources and sites (fourth quarter, 1988 and 1989) (XB); (b) development and management of forest resources (fourth quarter, 1989) (XB); and (c) environmentally sound development of forest resources (1988, 1989) (XB).

### 3.3 Soils

Output: Technical publications: (a) guidelines on promotion of biological nitrogen fixation (one in fourth quarter, 1988) (XB); (b) global assessment of soil degradation at scale 1:25 million (one in fourth quarter, 1988) (XB); and (c) three subregional assessments at scale 1:1 million (fourth quarter, 1988 and 1989) (XB).

#### Operational activities:

(i) Pilot project on watershed management (one in fourth quarter, 1988) (XB); pilot projects on sustainable agricultural development in selected African countries (fourth quarter, 1989) (XB);

(ii) Provision of advisory services to three countries, upon request, in the formulation of environmentally sound national soils policies (1988, 1989) (XB);

(iii) Training courses on: (a) watershed management (one in second quarter, 1989) (XB); (b) regional data on land use and local fertilizer resources (one in each fourth quarter, 1988 and 1989) (XB); and (c) land/soil management in mountain ecosystems (one in third quarter, 1988; one in second quarter, 1989) (XB);

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\*\* Lowest priority.

(iv) Ad hoc information services: an African information network on soils and local fertilizer resources (fourth quarter, 1989) (XB).

### 3.4 Water\*

Output: Technical publications: (a) approved Zambezi Plan of Action, including its scheduled first phase implementation (one in fourth quarter, 1989) (XB); (b) draft Action Plan of Lake Tanganyika (one in fourth quarter, 1988) (XB); (c) draft Action Plan of Lake Victoria (one in fourth quarter, 1988) (XB); and (d) Plans of Action to promote environmentally sound management of water resources in national river basins in India and Brazil (one in each third quarter, 1988 and 1989) (XB).

#### Operational activities:

(i) Two additional international water systems identified for further development of inland water action plans (fourth quarter, 1988 and 1989) (XB);

(ii) Three training courses for professionals for development and implementation of the Zambezi, Lake Tanganyika and Lake Victoria Plans of Action (fourth quarter, 1988 and 1989) (XB); training course for professionals from developing countries on environmentally sound water development and drinking water supply and sanitation (one in fourth quarter, 1988) (XB);

(iii) One pilot project on the use of inundated acid sulphate soils in the Mekong Delta (fourth quarter, 1989) (XB); two pilot demonstration projects on reuse of domestic wastes for irrigation (fourth quarter, 1988 and 1989) (XB); two pilot projects on water quality monitoring control facilities at Lakes Victoria (Kenya) (fourth quarter, 1988) and Managua (Nicaragua) (second quarter, 1989) (XB);

(iv) Advisory services provided to member States, upon request, on the establishment of a network of water resources in Africa (fourth quarter, 1989) (XB).

### 3.5 Genetic resources

#### Output:

(i) Technical publications: (a) information newsletters (one in second quarter, 1988; one in fourth quarter, 1989) (XB); (b) specialized catalogues (one in each third quarter, 1988 and 1989) (XB); (c) register and data sheets for endangered tree species (one in each second quarter, 1988 and 1989); (d) methodologies for in situ conservation and management of forest genetic resources (one in each third quarter, 1988 and 1989) (XB); (e) legal instruments

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\* Highest priority.



for conservation of genetic resources in three African countries (as follow-up to the Cairo Conference) (one in second quarter, 1989); (f) illustrative booklet on the needs for in situ conservation (one in second quarter, 1988); and (j) guidelines for application in environmental management of biogeotechnology MIRCEN in India (one in fourth quarter, 1989) (XB).

Operational activities:

(i) Pilot projects: (a) two pilot projects on crop and tree genetic resources of wild relatives surveyed, collected and/or conserved ex situ and in situ (second quarter, 1988; fourth quarter, 1989) (XB); (b) four regional pilot data banks for animal genetic resources (third quarter, 1988 and 1989); (c) an expanded and updated World Data Centre on Micro-organisms (fourth quarter, 1989); (d) a pilot cryogenic centre for conservation of genetic resources in Africa (fourth quarter, 1988) (XB); (e) pilot applications of relevant technologies by Microbiological Resource Centers (MIRCENS) (1988, 1989) (XB); (f) a biogeotechnology MIRCEN in India (fourth quarter, 1989) (XB); (g) pilot applications of genetic resources endemic in semi-arid stock raising zones (1988, 1989); and (h) pilot applications of local genetic resources and skills for improving livestock management in arid and semi-arid zones and villages in three African countries (as follow-up to the Cairo Conference) (1988, 1989);

(ii) Advisory services provided to member States, upon request, on: (a) the expansion of a global referral system of gene banks of microbial genetic resources (fourth quarter, 1989) (XB); and (b) the establishment of an African network for conservation and management of genetic resources (fourth quarter, 1989);

(iii) Training courses on management of genetic resources (one in second quarter, 1988, one in fourth quarter, 1989) (XB).

3.6 Wildlife and protected areas

Output: Technical publications: (a) conservation directories, plans and guidelines (fourth quarter, 1988); and (b) training materials and methodologies for management of wildlife and protected areas (fourth quarter, 1989).

Operational activities:

(i) Advisory services to Governments, upon request, on: implementation of national conservation strategies (1988, 1989); and implementation of conservation conventions on wild animals, plants and habitats (1988, 1989);

(ii) Pilot projects: (a) three national pilot data bases on species and protected areas (one in fourth quarter, 1988; two in fourth quarter, 1989); and (b) operational pilot biosphere reserves in selected representative areas of the world's biogeographic provinces (fourth quarter, 1989);

(iii) Training fellowships for personnel with advanced management skills in wildlife and protected areas and related living resources conservation activities in developing countries (1988, 1989).

### 3.7 Management of agricultural chemicals and residues

Output: Technical publications: guidelines on promotion and safe application of pesticides in developing countries (one in fourth quarter, 1989) (XB).

#### Operational activities:

(i) Pilot projects: (a) on ecological measures to prevent post-harvest food losses (1988, 1989) (XB); (b) and to demonstrate integrated crop production approach in developing countries (1988, 1989) (XB);

(ii) Training courses in the management of food production and use of agricultural chemicals (fourth quarter, 1988 and 1989) (XB).

### 3.8 Lithosphere

Output: Technical publications: guidelines on environmentally sound exploitation of mineral resources (one in second quarter, 1988).

Operational activities: Two demonstration projects for application of guidelines (one in each fourth quarter, 1988 and 1989).

## Subprogramme 4. Environment and development

### (a) Resource requirements:

Regular budget: \$49,000 (2.4 per cent of programme total);

Extrabudgetary resources: \$282,900 (3.8 per cent of programme total).\*\*\*

(b) Reference: medium-term plan 1984-1989 (A/37/6 and Corr.1), paras. 12.21-12.24.

### (c) Programme elements:

#### 4.1 Integrated approach to environment and development

Output: Technical publications: (a) guidelines, technical manuals and analyses of case study on promotion of environmental assessment and cost benefit

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\*\*\* Excludes costs of operational projects.

analysis (one in each third quarter, 1988 and 1989) (XB); (b) curricula and course materials on promotion of education and training in environment and development (one in second quarter, 1988) (XB); and (c) analytical reports on consequences of interactions between people, environment and development (one in second quarter, 1988; one in third quarter, 1989) (XB).

Operational activities:

(i) Provision of advisory services to member States, upon request: (a) to strengthen institutional capabilities for integration of environmental considerations into development policy and planning (fourth quarter, 1989) (XB); (b) on improved information and co-ordination mechanism for policies and procedures for environmental consideration in development finance (fourth quarter, 1988) (XB); (c) on information network and case study analyses of projects on integrated approach to people, resources, environment and development in the Himalayan region (fourth quarter, 1989) (XB); and (d) on analysis and guidance on range of economic policy instruments (1988) (XB);

(ii) Training courses on incorporation of environmental considerations into environment and development activities (third quarter, 1988 and 1989) (XB);

(iii) Pilot projects on sustainable development in sectoral environmental programmes (1988, 1989) (XB).

4.2 Industry, environment and transportation

Output:

(i) Technical publications: (a) guidelines on each of the following: non-ferrous metals, petroleum, aluminum, sugar production, textiles or tanneries, cement bioleaching (two in second quarter, 1988; five in fourth quarter, 1989) (XB); (b) environmental impact assessments of: industrial complexes (one in second quarter, 1988) (XB); urban transportation (one in third quarter, 1988) (XB); chemicals (one in second quarter, 1989) (XB); electroplating (one in third quarter, 1989) (XB); (c) quarterly review issues of "Industry and Environment" (one in each quarter, 1988 and 1989) (XB); and (d) case studies and environmental audits as a follow-up to the World Industry Conference on Environmental Management (three case studies and three environmental audits in each fourth quarter, 1988 and 1989) (XB).

Operational activities:

(i) Advisory services provided to member States, upon request, on: (a) industry, environment and transportation (1988, 1989) (XB); and (b) assessment of industrial environmental problems in four to six developing countries (fourth quarter, 1989) (XB);

(ii) Training courses on industrial environmental management (one in each fourth quarter, 1988 and 1989).

#### Subprogramme 5. Oceans

(a) Resource requirements:

Regular budget: \$169,400 (8.3 per cent of programme total);

Extrabudgetary resources: \$89,300 (1.2 per cent of programme total).\*\*\*

(b) Reference: medium-term plan 1984-1989 (A/37/6 and Corr.1), paras. 12.25-12.28, as revised by A/39/6, chap. 12.

(c) Programme elements:

##### 5.1 Marine pollution\*\*

Output: Technical publications: (a) a review of the state of the marine environment (one in second quarter, 1988) (XB); (b) reference methods and materials for marine pollution studies (one in third quarter, 1988) (XB); (c) global review of the state of the marine environment (one in fourth quarter, 1989) (XB); (d) a review of carcinogens and nutrients as marine pollutants (one in second quarter, 1989) (XB); (e) guidelines for assessment of environmental impacts of disposal of radioactive wastes on the sea-bed and sea-bed mining (one in third quarter, 1989) (XB); (f) evaluation report of the state of the art of coastal modelling (one in second quarter, 1988) (XB); (g) assessment of long-term ecological consequences of low-level marine contamination (one in fourth quarter, 1989) (XB); and (h) analysis of economic aspects of marine pollution (one in fourth quarter, 1988) (XB).

##### 5.2 Living marine resources

Output: Technical publications: (a) activities for the conservation of marine mammals (second quarter, 1988); (b) guidelines and manuals on the protection of fishery resources from pollution (one in third quarter, 1988); and (c) environmentally sound management techniques for fisheries (one in fourth quarter, 1988).

##### Operational activities:

(i) Training course on conservation, management and utilization of marine mammals (one in fourth quarter, 1989) (XB);

(ii) Continuous co-ordination of activities for the conservation of marine mammals (1988, 1989) (XB).

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\*\*\* Excludes costs of operational projects.

\*\* Lowest priority.

### 5.3 Regional seas

#### Mediterranean Action Plan:

Output: Technical publications: (a) national contingency plans (two in second quarter, 1988; two in fourth quarter, 1989); (b) national monitoring programmes (three in fourth quarter, 1989); (c) technical reports (10 in each third quarter, 1988 and 1989); and (d) protocol on control of pollution from off-shore exploration and exploitation (one in fourth quarter, 1988).

Operational activities: Training courses for experts to implement the Action Plan (fourth quarter, 1988 and 1989).

#### Kuwait Action Plan:

Output: Technical publications: (a) technical reports based on the activities of the Action Plan (one in third quarter, 1988; one in fourth quarter 1989); and (b) environmental impact assessments of the countries in the region (one in each second quarter, 1988 and 1989).

Operational activities: Training courses for national experts (one in each fourth quarter, 1988 and 1989) (XB).

#### Caribbean Action Plan:

Output: Technical publications: additional protocols on land-based sources of pollutants and protection of endangered species (one in fourth quarter, 1988 and 1989).

Operational activities: Priority projects based on decisions of the Contracting Parties to the Cartagena Convention (fourth quarter, 1989) (XB).

#### West and Central Africa Action Plan:

Output: Technical publications: (a) national contingency plans (one in second quarter, 1988; two in third quarter 1989); (b) multilateral contingency plan (one in fourth quarter, 1989); (c) study reports on national marine environmental legislation (one in fourth quarter, 1988; two in fourth quarter, 1989); and (d) environmental impact assessment of areas requiring special protection (one in fourth quarter, 1989).

Operational activities: Provision of advisory services to member States, upon request, on: (a) harmonization of national legislation with the Abidjan Convention (1988, 1989) (XB); and (b) network for marine pollution monitoring (fourth quarter, 1989) (XB).

Eastern Africa Action Plan:

Output: Technical publications: (a) national contingency plans for maritime emergencies (one in second quarter, 1988; one in third quarter, 1989); and (b) management plan for a network of protected areas (one in fourth quarter, 1988).

Operational activities:

(i) Provision of advisory services to member States, upon request, on the establishment of a network for marine pollution research monitoring (fourth quarter, 1989) (XB);

(ii) Training courses in management of protected areas (one in each fourth quarter, 1988 and 1989) (XB).

East Asian Seas Action Plan:

Operational activities: Provision of advisory services to member States, upon request, on the establishment of an operational co-operative network of pollution monitoring and research institutions (fourth quarter, 1989) (XB).

Red Sea and Gulf of Aden Action Plan:

Operational activities:

(i) Advisory services: formulation of national contingency plans for maritime emergencies (one in each third quarter, 1988 and 1989);

(ii) Training courses for national and regional participation in environmental projects (one in each fourth quarter, 1988 and 1989) (XB).

South West Pacific Action Plan:

Output: Technical publications: technical reports based on project activities of the Action Plan (one in second quarter, 1988; one in fourth quarter, 1989).

Operational activities: Provision of advisory services on the establishment of operational regional networks for research and training institutions (fourth quarter, 1989) (XB).

South-East Pacific Action Plan:

Output: Technical publications: case study reports on environmental impact assessment (one in second quarter, 1988; one in fourth quarter, 1989).

Operational activities:

(i) Expanded pollution monitoring programme (fourth quarter, 1989) (XB);

(ii) Provision of advisory services on the establishment of national contingency plans for marine pollution emergencies (fourth quarter, 1989) (XB);

(iii) Training and intercalibration courses (fourth quarter, 1988 and 1989) (XB).

#### South Asian Seas Action Plan:

Output: Technical publications: Action Plan and Convention (one in fourth quarter, 1988).

Operational activities: Initiation of priority projects based on decisions of Governments participating in the Action Plan (1988, 1989) (XB).

In addition, the following outputs covering the whole of the Oceans subprogramme are expected:

Output: Technical publications: 15 directories and bibliographies (second quarter, 1988; fourth quarter, 1989).

Operational activities: (a) interregional seminars on data management and impact assessment (fourth quarter, 1988 and 1989) (XB); (b) interregional intercalibration workshops (fourth quarter, 1988 and 1989) (XB); and (c) interregional courses on analytical techniques for marine studies (fourth quarter, 1988 and 1989) (XB).

#### Subprogramme 6. Energy

(a) Resource requirements:

Regular budget: \$14,300 (0.7 per cent of programme total);

Extrabudgetary resources: \$245,700 (3.3 per cent of programme total).\*\*\*

(b) Reference: medium-term plan 1984-1989 (A/37/6 and Corr.1), paras. 12.29-12.31, as revised by A/39/6, chap. 12.

(c) Programme elements:

##### 6.1 Energy

Output: Technical publications: (a) technical reports on various energy systems (one in second quarter, 1988; one each in first and fourth quarters, 1989); (b) report on data and models for assessment and management of the environmental impact of complex industrial systems on health (one in third quarter, 1988); and (c) legal instruments for various aspects of the nuclear energy cycle (one in second quarter, 1989).

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\*\*\* Excludes costs of operational projects.

Operational activities:

(i) Integrated rural energy projects (one each in fourth quarter, 1988; one each in second and fourth quarters, 1989) (XB); a network on new and renewable sources of energy in Africa (one in fourth quarter, 1989) (XB);

(ii) Training courses for sustainable use of renewable energy (one in each fourth quarter, 1988 and 1989) (XB).

Subprogramme 7. Supporting measures

(a) Resource requirements:

Regular budget: \$298,100 (14.6 per cent of programme total);

Extrabudgetary resources: \$1,421,900 (19.1 per cent of programme total).\*\*\*

(b) Reference: medium-term plan 1984-1989 (A/37/6, Corr.1 and Add.1), paras. 12.37-12.40.

(c) Programme elements:

7.1 Environmental education

Output: Technical publications: (a) documents on education curricula (one in each second quarter, 1988 and 1989); (b) eight issues of the Connect newsletter (four in each second quarter, 1988 and 1989); (c) prototype environmental education programme and materials for technical, vocational and non-formal education (one in each second quarter, 1988 and 1989); (d) general environmental teaching materials (one in each second quarter, 1988 and 1989); (e) further development of an environmental education strategy (as follow-up to the Moscow Congress) (one in fourth quarter, 1989); (f) comparative study on experience in environmental education (one in fourth quarter, 1988); (h) articles in national education journals for curricula development and research (fourth quarter, 1989); and (i) magazines and environmental games for pre-primary school children (second quarter, 1988).

Operational activities:

(i) Regional workshops and seminars for administrative and professional staff of universities on the incorporation of environmental education into curricula of regional universities (three per year) (XB);

(ii) Provision of subregional training courses on the incorporation of an environmental education dimension into educational systems at primary and secondary levels (one in fourth quarter, 1988; one in second quarter, 1989) (XB);

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\*\*\* Excludes costs of operational projects.



(iii) Advisory services provided to member States, upon request, on the incorporation of environmental education into non-formal adult education (1988, 1989) (XB);

(iv) Training courses and/or seminars for environmental specialists (one in each fourth quarter, 1988 and 1989) (XB).

## 7.2 Environmental training

Output: Technical publications: compilation of training materials (fourth quarter, 1989) (XB).

Operational activities: (a) further development, including training courses, of the following training networks: Latin America and the Caribbean, West Asia, Africa, Asia and the Pacific (1988, 1989) (XB); (b) environmental training carried out at the Centres of Excellence (established in the biennium 1986-1987) (fourth quarters, 1988 and 1989) (XB); and (c) training courses for technicians in general environmental fields (one in each fourth quarter, 1988 and 1989) (XB).

## 7.3 Public information

Output: Technical publications: (a) information materials on major environmental issues (one in each second and fourth quarter, 1988 and 1989) (XB); (b) bi-monthly UNEP News (1988, 1989) (XB); (c) eight issues of the Siren (two in each second and fourth quarter, 1988 and 1989) (XB); (d) 20 general information publications (five in each second and fourth quarter, 1988 and 1989) (XB); (e) information policy packages (one in each third quarter, 1988 and 1989) (XB); (f) six issues of Environmental News clippings (three in each fourth quarter, 1988 and 1989) (XB); and (g) an updated film catalogue (one in fourth quarter, 1989) (XB).

### Operational activities:

(i) Ad hoc information services: (a) audio-visual programme (1988, 1989) (XB); (b) radio programmes (five in second quarter, 1988; five in fourth quarter, 1989) (XB); and (c) co-production television programmes (five in second quarter, 1988; five in fourth quarter, 1989) (XB);

(ii) Advisory services provided to member States, upon request, in: (a) the establishment of media regional networks (fourth quarters, 1988 and 1989) (XB); and (b) organization of journalistic programmes (one in each fourth quarter, 1988 and 1989).

In addition, two media kits will be prepared for the world environment day in 1988 and 1989 (XB).

## 7.4 Technical co-operation

### Operational activities:

(i) Provision of advisory services to Governments and institutions involving, inter alia: (a) incorporation of an environmental dimension into regional development, and development of environmental mechanisms in the institutional structure of developing countries (second and fourth quarters, 1988 and 1989) (XB); (b) programmes at national, subregional and regional levels to address environmental priorities identified by Governments, i.e. the Plan of Action of the African Environment Conference (fourth quarter, 1989) (XB); (c) the Latin American and the Caribbean Regional Environmental Programmes (fourth quarter, 1989) (XB); (d) the Subregional Environmental Programmes of SACEP ASEAN, and the South Pacific Plan of Action (fourth quarter, 1989) (XB); (e) the Plan of Action of the Arab Ministerial Conference on Environment and Development (fourth quarter, 1989) (XB); and (f) environmental programmes of regional commissions (fourth quarter, 1989) (XB);

(ii) Two pilot projects on replicable methodologies for environment and development (two in fourth quarter, 1989) (XB).

### Subprogramme 8. Environmental management including environmental law

#### (a) Resource requirements:

Regular budget: \$271,500 (13.3 per cent of programme total);

Extrabudgetary resources: \$67,000 (0.9 per cent of programme total).\*\*\*

(b) Reference: medium-term plan 1984-1989 (A/37/6 and Corr. 1), paras. 12.41-12.44, as revised by A/39/6, chap. 12.

#### (c) Programme elements:

##### 8.1 Environmental law

Output: Technical publications: (a) principles of environmental impact assessment (one in second quarter, 1988); (b) draft Convention for management of an international water body (one in second quarter, 1988); (c) new principles and agreements on: soil conservation, environmental emergencies, prevention and redress of pollution damage (one in each fourth quarter, 1988 and 1989); (d) compendium of environmental legislation (one in fourth quarter, 1989); (e) educational materials in developing countries (one in second quarter, 1989); (f) environmental legislation and machinery for developing countries (one in fourth quarter, 1988); and (g) 1989 edition of the Register of International Treaties and Other Agreements in the Field of the Environment (one in fourth quarter, 1989).

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\*\*\* Excludes costs of operational projects.

Subprogramme 9. Arms race and the environment

(a) Resource requirements:

Regular budget: \$14,300 (0.7 per cent of programme total);

Extrabudgetary resources: \$29,800 (0.4 per cent of programme total).\*\*\*

(b) Reference: medium-term plan 1984-1989 (A/37/6 and Corr.1), paras. 12.45-12.48 as revised by A/39/6, chap. 12.

(c) Programme elements:

9.1 Arms race and the environment

Output: Technical publications: two studies on environmental consequences of regional or local conflicts (one in each fourth quarter, 1988 and 1989) (XB).

Resource requirements (at revised 1987 rates)

Redeployment of post

18.39 It is proposed to redeploy one P-5 post for the State of the Environment Unit from the Office of the Environment Programme to the Office of the Executive Director. The State of the Environment Unit has been transferred to the Office of the Executive Director, as mentioned earlier.

Consultants

18.40 The estimated requirements under this heading (\$72,800) reflect a decrease of \$31,200 from the current level of resources. Expressed in estimated work-months, the requirements are as follows:

<u>Programme element</u>	<u>Description of tasks</u>	<u>Work-months</u>
1.1	To prepare background papers on topics selected by the Governing Council, and for thematic joint programming in ACC/DOEM framework .....	3
1.2	To develop regional programmes for assessment of the socio-economic impact of climate change .....	1
2.1	To prepare study on environment related aspects, as follow-up for the International Year of Shelter for the Homeless .....	1

\*\*\* Excludes costs of operational projects.

<u>Programme element</u>	<u>Description of tasks</u>	<u>Work-months</u>
2.2	To prepare background papers for the preparation of the guidelines on chemical safety .....	1
3.1	To assist and support the implementation of the United Nations Programme of Action of the African economic recovery and development .....	2
3.5	To assist and support the implementation of the United Nations Programme of Action of the African economic recovery and development in better management of water resources .....	2
3.8	To prepare documents for national programmes for integrated crop production .....	2
10.1	To prepare reports on studies on environmental consequences of regional and local conflicts .....	2
	Total	14

Ad hoc expert groups

18.41 The estimated amount under this heading (\$49,800) represents an increase of \$19,600 and will be required for three ad hoc expert group meetings, as detailed below:

<u>Programme element</u>	<u>Description of tasks</u>	<u>\$</u>
1.1	To discuss and finalize selected topics included in the Executive Director's annual report on the state of the environment (5 experts, Nairobi, 1988, one week) .....	12 800
3.5	To assess the state of environmentally sound management of inland waters in Africa (8 experts, Harare, 1989, one week) .....	20 200
10.1	To review the studies on ecological impact of local and regional conflicts (7 experts, Nairobi, 1988, five days) .....	16 800
	Total	49 800

Official travel of staff

18.42 The estimated requirements for official travel (\$55,900) show a decrease of \$9,100 from the current level of resources. The requirements relate to the activities detailed below:

<u>Description</u>	<u>\$</u>
Attendance at meetings of United Nations bodies, conferences and panels having direct relevance to the implementation of the programme .....	7 000
Consultations with Governments, institutions, United Nations organizations, regional commissions, secretariats and specialized agencies on technical environmental matters in order to collect information for the preparation of studies and reports .....	36 800
Consultations with specialized agencies, regional commission secretariats and other organizations in the United Nations system on aspects of policy and co-ordination of inter-disciplinary research and intersectoral synthesis of development issues .....	12 100
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	Total
	<u>55 900</u>

3. Management of the Environment Fund

TABLE 18.15. ESTIMATE OF OVERALL COSTS

(Thousands of United States dollars)

(1) Regular budget: Nil

(2) Extrabudgetary resources

	1986-1987 estimated expenditures	1988-1989 estimated expenditures
(a) Services in support of:		
(i) Other United Nations organizations	-	-
(ii) Extrabudgetary programmes		
UNEP Special Account for Programme Support Costs	265.8	304.1
Environment Fund	1 849.7	2 028.1
Total (a)	2 115.5	2 332.2
(b) Substantive activities	-	-
Total (b)	-	-
(c) Operational projects	-	-
Total (c)	-	-
Total (a), (b) and (c)	2 115.5	2 332.2
	Total	2 332.2

TABLE 18.16. POST REQUIREMENTS

Programme: Management of the Environment Fund

	Established posts		Temporary posts				
	Regular budget		Regular budget		Extrabudgetary resources		
	1986-1987	1988-1989	1986-1987	1988-1989	1986-1987	1988-1989	
					1986-1987	1988-1989	Total
Professional category and above							
ASG	-	-	-	1	1	1	1
D-2	-	-	-	1	1	1	1
D-1	-	-	-	1	1	1	1
P-5	-	-	-	1	1	1	1
P-4	-	-	-	5	5	5	5
P-3	-	-	-	7	7	7	7
P-2/1	-	-	-	1	1	1	1
<b>Total</b>	-	-	-	17	17	17	17
<b>Other categories</b>							
Local level	-	-	-	21	19	21	19
<b>Total</b>	-	-	-	21	19	21	19
<b>Grand total</b>	-	-	-	38	36	38	36

#### 4. Management of the Environment Fund

18.43 The function of this programme is the management and administration of the Environment Fund, which is the responsibility of the Assistant Executive Director, Office of the Environment Fund and Administration. The Assistant Executive Director also supervises the Administrative Service. In addition to the Office of the Assistant Executive Director and Director of the Fund, this Office includes the Fund Programme Management Branch. This programme is supported wholly by the Environment Fund, although the Office itself has to divide its work-load between administration and fund matters.



D. Programme support

1. CONFERENCE SERVICES

TABLE 18.17. ANALYSIS OF OVERALL COSTS

(Thousands of United States dollars)

(1) Regular budget

Main objects of expenditure	1986-1987 appropriation	Estimated additional requirements			Total increase	1988-1989 estimates
		Revaluation of 1986-1987 resource base (at revised 1987 rates)	Re-growth (at revised 1987 rates)	Inflation in 1988 and 1989		
Established posts	862.4	(20.6)	-	45.4	24.8	887.2
Temporary assistance for meetings	206.3	10.0	-	30.1	40.1	246.4
Common staff costs	458.5	(12.3)	-	24.9	12.6	471.1
<b>Total</b>	<b>1 527.2</b>	<b>(22.9)</b>	<b>-</b>	<b>100.4</b>	<b>77.5</b>	<b>1 604.7</b>

Analysis of real growth (at revised 1987 rates)

(1) Total revalued 1986-1987 resource base	Resource growth				Rate of real growth over (1)
	(2) Actual	(3) Less non-recurrent items	(4) Plus delayed growth (new posts)	(5) Adjusted	
1 504.3	-	-	-	-	-

TABLE 18.17 (continued)

## (2) Extrabudgetary resources

	1986-1987 estimated expenditures	1988-1989 estimated expenditures
(a) Services in support of:		
(i) Other United Nations organizations	-	-
(ii) Extrabudgetary programmes	-	-
Total (a)	-	-
(b) Substantive activities		
Environment Fund: programme costs	997.0	1 074.4
Total (b)	997.0	1 074.4
(c) Operational projects	-	-
Total (c)	-	-
Total (a), (b) and (c)	997.0	1 074.4
	Total	2 679.1

TABLE 18.18. POST REQUIREMENTS

Programme: Conference services

	Established posts		Temporary posts				
	Regular budget		Regular budget		Extrabudgetary resources		
	1986-1987	1988-1989	1986-1987	1988-1989	1986-1987	1988-1989	Total
Professional category and above							
P-5	2	2	-	-	-	2	2
P-4	6	6	-	2	2	8	8
P-3	2	2	-	4	4	6	6
P-2/1	1	1	-	1	1	2	2
<b>Total</b>	<b>11</b>	<b>11</b>	<b>-</b>	<b>7</b>	<b>7</b>	<b>18</b>	<b>18</b>
<b>Other categories</b>							
Local level	15	15	-	24	24	39	39
<b>Total</b>	<b>15</b>	<b>15</b>	<b>-</b>	<b>24</b>	<b>24</b>	<b>39</b>	<b>39</b>
<b>Grand total</b>	<b>26</b>	<b>26</b>	<b>-</b>	<b>31</b>	<b>31</b>	<b>57</b>	<b>57</b>

## D. Programme support

### 1. Conference services

18.44 The Conference Services Section reports directly to the Executive Director. Its function is to establish policy procedures and practices for the co-ordination and provision of conference services to the secretariat. In addition it exercises editorial control over UNEP documents and publications and provides conference services, including interpretation, translation and other documentation services, for UNEP conferences and meetings held at headquarters and elsewhere. It also reproduces and distributes UNEP documents and publications.

#### Resource requirements (at 1987 rates)

##### Temporary assistance for meetings

18.45 The estimated requirements under this heading (\$216,300) represent no real growth over the biennium 1986-1987. They relate to six fixed-term staff: one secretary for the Chief of the Conference Services, one internationally recruited Arabic typist, one dark-room technician, one composition typist and two documents clerks. They also provide for other short-term requirements of the Conference Services Section.

2. ADMINISTRATION AND COMMON SERVICES

TABLE 18.19. ANALYSIS OF OVERALL COSTS

(Thousands of United States dollars)

(1) Regular budget

Main objects of expenditure	1986-1987 appropriation	Estimated additional requirements				Total increase	1988-1989 estimates
		Revaluation of 1986-1987 resource base (at revised 1987 rates)	Re-source growth (at revised 1987 rates)	Inflation in 1988 and 1989			
Established posts	685.9	(23.9)	-	46.8	22.9	708.8	
General temporary assistance	55.6	2.6	-	8.1	10.7	66.3	
Consultants	27.5	1.2	(8.6)	2.8	(4.6)	22.9	
Overtime	14.3	0.8	0.3	2.1	3.2	17.5	
Language training	17.3	0.9	-	2.5	3.4	20.7	
Common staff costs	365.2	(14.4)	-	26.1	11.7	376.9	
Official travel of staff	44.0	1.3	(12.9)	4.4	(7.2)	36.8	
External printing and binding	19.6	1.0	-	2.8	3.8	23.4	
Rental and maintenance of equipment	158.8	7.5	41.0	28.7	77.2	236.0	
Communications	202.4	9.6	42.6	35.3	87.5	289.9	
Hospitality	4.7	0.3	-	0.7	1.0	5.7	
Supplies and materials	212.4	10.0	-	30.9	40.9	253.3	
Furniture and equipment	146.7	6.8	50.0	28.2	85.0	231.7	
<b>Total</b>	<b>1 954.4</b>	<b>3.7</b>	<b>112.4</b>	<b>219.4</b>	<b>335.5</b>	<b>2 289.9</b>	

Analysis of real growth (at revised 1987 rates)

(1) Total revalued 1986-1987 resource base	Resource growth				Rate of real growth (5) over (1)
	(2) Actual	(3) Less non-recurrent items	(4) Plus delayed growth (new posts)	(5) Adjusted	
1 958.1	112.4	50.0	-	62.4	3.1%

TABLE 18.19 (continued)

## (2) Extrabudgetary resources

	1986-1987 estimated expenditures	1988-1989 estimated expenditures
(a) Services in support of:		
(i) Other United Nations organizations	-	-
(ii) Extrabudgetary programmes		
UNEP Special Account for Programme Support Costs	543.8	610.5
Environment Fund	7 132.9	7 982.1
Total (a)	7 676.7	8 592.6
(b) Substantive activities	-	-
Total (b)	-	-
(c) Operational projects	-	-
Total (c)	-	-
Total (a), (b) and (c)	7 676.7	8 592.6
Total		10 882.5

TABLE 18.20. POST REQUIREMENTS

Programme: Administration and common services

	Established posts		Temporary posts		Total					
	Regular budget		Extrabudgetary resources							
	1986-1987	1988-1989	1986-1987	1988-1989						
					1986-1987	1988-1989	1986-1987	1988-1989	1986-1987	1988-1989
<b>Professional category and above</b>										
D-1	1	1	-	-	-	-	1	1	1	1
P-5	3	3	-	1	1	1	4	4	4	4
P-4	1	1	-	4	4	4	5	5	5	5
P-3	-	-	-	6	6	6	6	6	6	6
P-2/1	1	1	-	4	4	4	5	5	5	5
<b>Total</b>	<b>6</b>	<b>6</b>	<b>-</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>21</b>	<b>21</b>	<b>21</b>	<b>21</b>
<b>Other categories</b>										
Local level	20	20	-	80	80	80	100	100	100	100
<b>Total</b>	<b>20</b>	<b>20</b>	<b>-</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
<b>Grand total</b>	<b>26</b>	<b>26</b>	<b>-</b>	<b>95</b>	<b>95</b>	<b>95</b>	<b>121</b>	<b>121</b>	<b>121</b>	<b>121</b>

## 2. Administration and common services

18.46 The Administrative Service consists of the Office of the Chief, which includes the Budget and Electronic Data-Processing Units, and the Personnel, Finance and General Service Sections.

### Resource requirements (at revised 1987 rates)

#### General temporary assistance

18.47 The estimated requirements under this heading (\$58,200) show no growth and provide for the replacement of General Service staff on extended sick leave or maternity leave and the hiring of additional staff during peak work-load periods. The allocation of resources is as follows:

<u>Organizational unit</u>	<u>Work-months for the biennium</u>
Office of the Executive Director and the Chef de cabinet	10
Office of the Deputy Executive Director	8
Office of the Assistant Executive Director, Office of the Programme:	
(a) Programme Co-ordination Unit	8
(b) Library	8
(c) Environmental Management: Direction and Co-ordination	12
(d) Environmental Assessment: Direction and Co-ordination	8
Conference Services Section	6
Office of the Chief, Administration (including Electronic Data-Processing and Budget)	4
Personnel Section	6
Finance Section	2
General Services Section	2
	<hr/>
	Total
	74
	<hr/> <hr/>



## Consultants

18.48 The estimated requirements under this heading (\$20,100) reflect a decrease of \$8,600 from the current level of resources. The provision relates to:

(a) By arrangement with all the United Nations agencies housed at the United Nations Gigiri complex, the medical doctor's fee of \$24,000 per annum is shared by all agencies on the basis of the size of their staff. UNEP pays 50 per cent of the fee and one third of that amount (\$4,000) is charged to the regular budget.

(b) In order to improve the utilization of equipment and the effective implementation of office automation and information systems, the assistance of a consultant will be required for a period of four work-months. The total estimated cost will be \$40,000 (including travel) of which \$12,000 would be charged to the regular budget.

(c) The balance (\$4,100) will be utilized to hire an instructor from the University of Nairobi to give a seminar on "The Computer as a Management Tool" and to set up a workshop on "Applications of the Micro-Computer" (including basic and advance applications of Lotus 1-2-3 and Data Base software). It may be pertinent to note that during the biennium 1986-1987, \$90,000 was allocated for the purchase of Wang personal computers. The training of the staff in the usage of Wang equipment is an integral part of achieving higher productivity with the same level of staff resources.

## Overtime

18.49 Based on recent experience, 1,950 hours of overtime will be worked during the biennium and this will require \$15,400, which represents an increase of \$300 over the current level of resources.

## Language training

18.50 The estimated requirements under this heading (\$18,200) are the same as in the current biennium and represent the regular budget share of the cost of language training organized by UNEP for its staff and those of United Nations organizations based in Nairobi, including eligible dependents. Other participating agencies are charged directly. UNEP's remaining share of the net cost of the language training programme, estimated at \$68,190 including the cost of renting classroom space, is covered by extrabudgetary funds.

## Official travel of staff

18.51 The estimated requirements under this heading (\$32,400) represent a decrease of \$12,900 from the current level on the assumption that, with the introduction of the new data and voice communication link between Nairobi and United Nations Headquarters, it may be possible to avoid some travel.

### External printing and binding

18.52 The estimated requirements under this heading (\$20,600), which show no growth, are to cover the regular budget portion of the costs of printing the annual environmental data and state of the environment reports and the Environment programme's "UNEP News".

### Rental and maintenance of equipment

18.53 Based on current costs, an increase of \$41,000 is included in the estimated requirements for the rental and maintenance of furniture and equipment (\$207,300), including vehicles and data-processing equipment.

### Communications

18.54 The requirements for communications in 1988-1989 are estimated at \$254,600, which represents an increase of \$42,600 over the current level of resources. The increase is due to the fact that Kenya Post and Telecommunications charges have risen by 100.5 per cent for postal fees and 26 per cent for telex and long-distance telephone calls since 1985.

### Supplies and materials

18.55 The estimated requirements under this heading (\$222,400) represent no real growth over the biennium 1986-1987 and are based on current costs for paper, photocopying and other miscellaneous supplies.

### Furniture and equipment

18.56 Based on the ratio of regular budget posts to extrabudgetary posts, 30 per cent of the cost of new or replacement furniture and equipment is charged to the regular budget while 70 per cent is borne by the Environment Fund. Under this arrangement, it is estimated that \$203,500 (an increase of \$50,000) will be required from the regular budget in the biennium 1988-1989. The requirements cover such items as furniture, Wang personal computers, one heavy-duty collator, typewriters, photocopying machines, calculators and official vehicles.