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1990 EC GENERAL BUDGET

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EUROPE

1990 EC GENERAL BUDGET

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[Selection from the Final Adoption of the General Budget
of the European Communities for the Financial Year 1990
entitled: "EC 1990 Research and Investment Activities"
by the European Parliament]

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RESEARCH AND INVESTMENT ACTIVITIES

TABLE OF

concerning appropriations entered in Chapter 73 'Expenditure on research and investment'

Article Item	Heading	Commitment appropriations				
		1	2	3	4	5
		Staff	Administrative operation	Technical operation	Investment	Contracts
730	Joint Research Centre					
7300	Expenditure in respect of persons associated with the institution	133 000 000	—	—	—	—
7301	Quality of life (radiation protection, environment)	—	5 024 142	3 068 472	3 195 633	3 268 753
7302	Modernization of industrial sectors (advanced materials, standards)	—	5 943 312	5 670 476	5 655 775	999 437
7303	Energy (fission, fusion)	—	12 592 331	12 370 967	6 952 467	6 958 235
7304	Exploratory research	—	p.m.	p.m.	p.m.	p.m.
7305	Completion of the former joint programmes	p.m.	p.m.	p.m.	p.m.	p.m.
7306	Support for the Commission's departments	—	4 629 420	4 855 375	1 800 000	6 215 205
7307	Services performed at the request of outside bodies and individuals	—	2 048 034	1 142 844	2 490 678	87 444
7308	Operation of the HFR	—	p.m.	p.m.	p.m.	p.m.
	<i>Article 730 — Total</i>	133 000 000	30 237 239	27 108 134	20 094 553	17 529 074
731	Quality of life					
7311	Medical research	1 198 000	820 000	100 000	—	15 342 000
7312	Analysis of the human genome	p.m.	p.m.	p.m.	—	p.m.
7313	Radiation protection	2 222 000	297 000	220 000	p.m.	14 165 000
7314	STEP and Epoch (environment)	2 444 500	905 000	430 000	—	61 147 500
	<i>Article 731 — Total</i>	5 864 500	2 022 000	750 000	p.m.	90 654 500

EQUIVALENCE

(Article 89 (3) of the Financial Regulation of 21 December 1977, as amended on 25 June 1979)

		Payment appropriations							
9	Total	1	2	3	4	5	9	Total	
Reserve staff		Staff	Administrative operation	Technical operation	Investment	Contracts	Reserve staff		
2 500 000	135 000 000	133 000 000	—	—	—	—	2 500 000	135 500 000	
—	14 557 000	—	4 548 064	2 817 015	2 916 776	2 718 145	—	13 000 000	
—	18 269 000	—	5 385 324	4 913 528	4 701 752	794 396	—	15 795 000	
—	38 874 000	—	11 430 197	11 383 614	6 432 614	5 107 575	—	34 354 000	
—	p.m.	—	p.m.	300 000	p.m.	p.m.	—	300 000	
—	p.m.	p.m.	p.m.	4 000 000	2 000 000	p.m.	—	6 000 000	
—	17 500 000	—	3 851 350	4 015 566	1 392 607	6 240 477	—	15 500 000	
—	5 769 000	—	1 848 167	1 047 863	1 921 898	63 072	—	4 881 000	
—	p.m.	—	p.m.	200 000	p.m.	p.m.	—	200 000	
2 500 000	230 469 000	133 000 000	27 063 102	28 677 586	19 365 647	14 923 665	2 500 000	225 530 000	
40 000	17 500 000	1 198 000	820 000	100 000	—	12 842 000	40 000	15 000 000	
p.m.	p.m.	p.m.	p.m.	p.m.	—	p.m.	p.m.	p.m.	
96 000	17 000 000	2 222 000	297 000	220 000	p.m.	14 165 000	96 000	17 000 000	
73 000	65 000 000	2 444 500	905 000	430 000	—	31 147 500	73 000	35 000 000	
209 000	99 500 000	5 864 500	2 022 000	750 000	p.m.	58 154 500	209 000	67 000 000	

TABLE OF

concerning appropriations entered in Chapter 7 3 'Expenditure on research and investment'

Article Item	Heading	Commitment appropriations				
		1	2	3	4	5
		Staff	Administrative operation	Technical operation	Investment	Contracts
7 3 2	<i>Towards a large market and an information and communications society</i>					
7 3 2 1	Esprit (Information technologies)	17 539 500	5 000 000	2 500 000	—	438 232 500
7 3 2 2	RACE (Advanced communications technologies in Europe)	5 976 000	1 000 000	1 500 000	—	40 057 000
7 3 2 3	Delta (Developing European learning through technological advance)	644 200	100 000	100 000	—	2 137 500
7 3 2 4	Drive (Advanced technologies in road transport)	1 813 500	300 000	300 000	—	21 513 000
7 3 2 5	AIM (Advanced informatics in medicine)	644 200	100 000	100 000	—	3 637 500
7 3 2 6	Euret (transport)	p.m.	p.m.	p.m.	—	p.m.
	<i>Article 7 3 2 — Total</i>	26 617 400	6 500 000	4 500 000	—	505 577 500
7 3 3	<i>Modernization of industrial sectors</i>					
7 3 3 1	Brite (Basic technological research and application of new technologies)	p.m.	p.m.	p.m.	—	p.m.
7 3 3 2	Brite/Euram (Industrial manufacturing technologies and advanced materials)	6 464 000	1 450 000	980 000	—	145 911 000
7 3 3 3	Aeronautical technology	p.m.	p.m.	p.m.	—	p.m.
7 3 3 4	Primary, secondary and renewable raw materials	1 396 000	210 000	70 000	—	16 272 000
7 3 3 5	CBR (Applied metrology and chemical analyses)	2 207 000	865 000	1 000 000	p.m.	10 832 000
	<i>Article 7 3 3 — Total</i>	10 067 000	2 525 000	2 050 000	p.m.	173 015 000

EQUIVALENCE

(Article 89 (3) of the Financial Regulation of 21 December 1977, as amended on 25 June 1979) (cont'd)

		Payment appropriations							
9	Total	1	2	3	4	5	9	Total	
Reserve staff		Staff	Administrative operation	Technical operation	Investment	Contracts	Reserve staff		
728 000	464 000 000	17 539 500	5 000 000	2 500 000	—	329 232 500	728 000	355 000 000	
267 000	48 800 000	5 976 000	1 000 000	1 500 000	—	116 257 000	267 000	125 000 000	
18 300	3 000 000	644 200	100 000	100 000	—	5 637 500	18 300	6 500 000	
73 500	24 000 000	1 813 500	300 000	300 000	—	16 513 000	73 500	19 000 000	
18 300	4 500 000	644 200	100 000	100 000	—	7 137 500	18 300	8 000 000	
p.m.	p.m.	p.m.	p.m.	p.m.	—	p.m.	p.m.	p.m.	
1 105 100	544 300 000	26 617 400	6 500 000	4 500 000	—	474 777 500	1 105 100	513 500 000	
p.m.	p.m.	p.m.	p.m.	p.m.	—	38 000 000	p.m.	38 000 000	
195 000	155 000 000	6 464 000	1 450 000	980 000	—	56 911 000	195 000	66 000 000	
p.m.	p.m.	p.m.	p.m.	p.m.	—	p.m.	p.m.	p.m.	
52 000	18 000 000	1 396 000	210 000	70 000	—	13 272 000	52 000	15 000 000	
96 000	15 000 000	2 207 000	865 000	1 000 000	p.m.	8 332 000	96 000	12 500 000	
343 000	188 000 000	10 067 000	2 525 000	2 050 000	p.m.	116 515 000	343 000	131 500 000	

TABLE OF

concerning appropriations entered in Chapter 73 'Expenditure on research and investment'

Article Item	Heading	Commitment appropriations				
		1	2	3	4	5
		Staff	Administrative operation	Technical operation	Investment	Contracts
734	<i>Exploitation and optimum use of biological resources</i>					
7341	Bridge (Biotechnology)	2 007 000	825 000	222 500	—	26 868 500
7342	Eclair (European collaborative linkage of agriculture and industry through research)	1 171 000	830 000	136 000	—	22 125 000
7343	Flair (Food-linked agro-industrial research)	419 500	610 000	63 500	—	9 896 000
7344	Competitiveness of agriculture and management of agricultural resources (research in agriculture)	p.m.	p.m.	p.m.	—	p.m.
	<i>Article 734 — Total</i>	3 597 500	2 265 000	422 000	—	58 889 500
735	<i>Energy</i>					
7351	Fission — Management and storage of radioactive waste	874 000	87 000	p.m.	—	p.m.
7352	Fission — Decommissioning of nuclear power stations	430 500	75 000	60 000	—	11 918 500
7353	Teleman (Remote handling in hostile and disorganized environments)	260 000	108 000	33 000	—	8 192 000
7354	Thermonuclear fusion — General programme	9 267 000	370 000	500 000		102 473 000
7355	Thermonuclear fusion — Participation in the JET joint undertaking	p.m.	p.m.	p.m.	—	79 000 000
7356	Joule (Non-nuclear energy)	3 132 000	900 000	450 000	—	85 407 000
	<i>Article 735 — Total</i>	13 963 500	1 540 000	1 043 000	—	286 990 500
736	<i>Science and technology for development</i>					
7361	Science and technology for development	1 494 000	115 000	137 500	—	12 198 500
	<i>Article 736 — Total</i>	1 494 000	115 000	137 500	—	12 198 500

EQUIVALENCE

(Article 89 (3) of the Financial Regulation of 21 December 1977, as amended on 25 June 1979) (cont'd)

		Payment appropriations							
9	Total	1	2	3	4	5	9	Total	
Reserve staff		Staff	Administrative operation	Technical operation	Investment	Contracts	Reserve staff		
77 000	30 000 000	2 007 000	825 000	222 500	—	14 868 500	77 000	18 000 000	
38 000	24 300 000	1 171 000	830 000	136 000	—	13 825 000	38 000	16 000 000	
11 000	11 000 000	419 500	610 000	63 500	—	2 896 000	11 000	4 000 000	
p.m.	p.m.	p.m.	p.m.	p.m.	—	6 000 000	p.m.	6 000 000	
126 000	65 300 000	3 597 500	2 265 000	422 000	—	37 589 500	126 000	44 000 000	
39 000	1 000 000	874 000	87 000	p.m.	—	7 500 000	39 000	8 500 000	
16 000	12 500 000	430 500	75 000	60 000	—	6 418 500	16 000	7 000 000	
7 000	8 600 000	260 000	108 000	33 000	—	2 892 000	7 000	3 300 000	
390 000	113 000 000	9 267 000	370 000	500 000	—	112 973 000	390 000	123 500 000	
p.m.	79 000 000	p.m.	p.m.	p.m.	—	79 000 000	p.m.	79 000 000	
111 000	90 000 000	3 132 000	900 000	450 000	—	55 407 000	111 000	60 000 000	
563 000	304 100 000	13 963 500	1 540 000	1 043 000	—	264 190 500	563 000	281 300 000	
55 000	14 000 000	1 494 000	115 000	137 500	—	20 198 500	55 000	22 000 000	
55 000	14 000 000	1 494 000	115 000	137 500	—	20 198 500	55 000	22 000 000	

TABLE OF

concerning appropriations entered in Chapter 73 'Expenditure on research and investment'

Article Item	Heading	Commitment appropriations				
		1	2	3	4	5
		Staff	Administrative operation	Technical operation	Investment	Contracts
737	<i>Exploitation of the sea-bed and optimum use of marine resources</i>					
7371	MAST (Marine research)	864 000	365 000	250 000	—	31 501 500
7372	Fisheries research programme	658 000	80 000	80 000	—	5 664 000
	<i>Article 737 — Total</i>	1 522 000	445 000	330 000	—	37 165 500
738	<i>Improvements to European scientific and technical cooperation</i>					
7381	Science (Stimulation — strengthening European scientific and technical potential)	1 524 000	190 000	177 000	—	33 050 000
7382	SPES (Stimulation plan for economic sciences)	126 500	32 500	10 000	—	1 826 000
7383	Scientific awards	p.m.	p.m.	p.m.	—	p.m.
7384	Support for major facilities	343 000	110 000	57 000	—	7 480 000
7385	Monitor (SAST, FAST and Spear), Strategic analysis, forecasting and evaluation in matters of research and technology	2 089 500	1 220 500	120 000	—	5 195 000
7387	Doses (Development of expert systems for statistics)	99 000	20 000	p.m.	—	1 625 000
7388	Value (Dissemination and utilization of scientific and technological results)	1 225 000	200 000	200 000	—	8 475 000
7389	Eurotra (Machine translation system)	100 000	75 000	75 000	—	2 100 000
	<i>Article 738 — Total</i>	5 507 000	1 848 000	639 000	—	59 751 000

EQUIVALENCE

(Article 89 (3) of the Financial Regulation of 21 December 1977, as amended on 25 June 1979) (cont'd)

		Payment appropriations							
9	Total	1	2	3	4	5	9	Total	
Reserve staff		Staff	Administrative operation	Technical operation	Investment	Contracts	Reserve staff		
19 500	33 000 000	864 000	365 000	250 000	—	9 501 500	19 500	11 000 000	
18 000	6 500 000	658 000	80 000	80 000	—	5 664 000	18 000	6 500 000	
37 500	39 500 000	1 522 000	445 000	330 000	—	15 165 500	37 500	17 500 000	
59 000	35 000 000	1 524 000	190 000	177 000	—	34 700 000	59 000	36 650 000	
5 000	2 000 000	126 500	32 500	10 000	—	626 000	5 000	800 000	
p.m.	p.m.	p.m.	p.m.	p.m.	—	p.m.	p.m.	p.m.	
10 000	8 000 000	343 000	110 000	57 000	—	3 480 000	10 000	4 000 000	
75 000	8 700 000	2 089 500	1 220 500	120 000	—	2 395 000	75 000	5 900 000	
1 000	1 745 000	99 000	20 000	p.m.	—	1 325 000	1 000	1 445 000	
50 000	10 150 000	1 225 000	200 000	200 000	—	3 325 000	50 000	5 000 000	
p.m.	2 350 000	100 000	75 000	75 000	—	3 650 000	p.m.	3 900 000	
200 000	67 945 000	5 507 000	1 848 000	639 000	—	49 501 000	200 000	57 695 000	

TABLE OF

concerning appropriations entered in Chapter 73 'Expenditure on research and investment'

Article Item	Heading	Commitment appropriations				
		1	2	3	4	5
		Staff	Administrative operation	Technical operation	Investment	Contracts
739	<i>Shared-cost activities outside the Framework Programme for 1987 to 1991</i>					
7390	Preparation, studies and coordination of national policies	474 000	259 000	98 000	—	4 664 000
7391	General reserve for the third Framework Programme, including supplementary programmes, the development of HDTV, the exploration and exploitation of C ₄ grasses for non-alimentary biomass production, the service infrastructure action plan and agroindustrial demonstration projects	p.m.	p.m.	p.m.	—	p.m.
7393	Research and development in the application of new technologies to libraries	50 000	20 000	30 000	—	1 900 000
7394	International cooperation and COST	1 566 500	452 500	147 500	—	17 796 500
7395	Technological problems of nuclear safety (codes and standards)	656 000	132 000	50 000	—	736 000
7396	Research staff placed at the disposal of outside bodies in accordance with Article 6 (c) of the EAEC Treaty	384 000	p.m.	p.m.	—	—
7397	Support for other policies	p.m.	180 000	20 000	—	2 500 000
7398	Completion of previous shared-cost programmes	p.m.	p.m.	p.m.	—	—
7399	Scientific and technical activities relating to the common agricultural policy	p.m.	p.m.	p.m.	—	1 000 000
	<i>Article 739 — Total</i>	3 130 500	1 043 500	345 500	—	28 596 500
	<i>Articles 731 to 739 — Total</i>	71 763 400	18 303 500	10 217 000	p.m.	1 252 838 500

EQUIVALENCE

(Article 89 (3) of the Financial Regulation of 21 December 1977, as amended on 25 June 1979) (cont'd)

		Payment appropriations							
9	Total	1	2	3	4	5	9	Total	
Reserve staff		Staff	Administrative operation	Technical operation	Investment	Contracts	Reserve staff		
5 000	5 500 000	474 000	259 000	98 000	—	3 164 000	5 000	4 000 000	
p.m.	p.m.	p.m.	p.m.	p.m.	—	p.m.	p.m.	p.m.	
p.m.	2 000 000	50 000	20 000	30 000	—	400 000	p.m.	500 000	
37 000	20 000 000	1 566 500	452 500	147 500	—	10 796 500	37 000	13 000 000	
26 000	1 600 000	656 000	132 000	50 000	—	836 000	26 000	1 700 000	
16 000	400 000	384 000	p.m.	p.m.	—	150 000	16 000	550 000	
p.m.	2 700 000	p.m.	180 000	20 000	p.m.	1 500 000	p.m.	1 700 000	
p.m.	p.m.	p.m.	p.m.	p.m.	—	400 000	p.m.	400 000	
p.m.	1 000 000	p.m.	p.m.	p.m.	—	600 000	p.m.	600 000	
84 000	33 200 000	3 130 500	1 043 500	345 500	—	17 846 500	84 000	22 450 000	
2 722 600	1 355 845 000	71 763 400	18 303 500	10 217 000	p.m.	1 053 938 500	2 722 600	1 156 945 000	

**MULTIANNUAL SCHEDULE OF COMMITMENTS AND PAYMENTS
BY RESEARCH OBJECTIVES**

Article Item	Heading		Duration of action	Total programme allocation (proposed or adopted)	Date of Decision (or proposal) and Official Journal (or document) reference
7 3 1	<i>Quality of life</i>				
7 3 1 1	Medical research		1987-1991	65 000 000	17 November 1987 (OJ No L 334, 24. 11. 1987)
7 3 1 2	Analysis of the human genome		1989-1991	15 000 000	Proposal of 27 July 1988 (OJ No C 27, 2. 2. 1989) Amended proposal of 17 November 1989 (OJ No C 303, 2. 12. 1989) Common position of the Council of 18 December 1989
7 3 1 3	Radiation protection	CP	1985-1989	68 000 000	12 March 1985 (OJ No L 83, 25. 3. 1985) 21 December 1987 (OJ No L 16, 21. 1. 1988)
		NP	1990-1991	21 200 000	20 June 1989 (OJ No L 200, 13. 7. 1989)
7 3 1 4	STEP and Epoch (environment)	OP	1981-1985	49 300 000	3 March 1981 (OJ No L 101, 11. 4. 1981) 1 March 1984 (OJ No L 71, 14. 3. 1984) and corrigendum (OJ No L 101, 13. 4. 1984)
		CP	1986-1990	75 000 000	10 June 1986 (OJ No L 159, 14. 6. 1986)
		NP	1989-1992	115 000 000	20 November 1989 (OJ No L 359, 8. 12. 1989)
7 3 2	<i>Towards a large market and an information and communications society</i>				
7 3 2 1	Esprit (Information technologies)	OP	1984-1988	750 000 000	28 February 1984 (OJ No L 67, 9. 3. 1984)
		CP	1. 12. 1987-30. 11. 1992	1 600 000 000	11 April 1988 (OJ No L 118, 6. 5. 1988)
7 3 2 2	RACE (Advanced communications technologies in Europe)	OP	1. 7. 1985-31. 12. 1986	14 000 000	25 July 1985 (OJ No L 210, 7. 8. 1985)
		CP	1. 6. 1987-31. 5. 1992	550 000 000	14 December 1987 (OJ No L 16, 21. 1. 1988)
7 3 2 3	Delta (Developing European learning through technological advance)		1. 6. 1988-31. 5. 1990	20 000 000	29 June 1988 (OJ No L 206, 30. 7. 1988)

OP = Old programme.
CP = Current programme.
NP = New programme.

**MULTIANNUAL SCHEDULE OF COMMITMENTS AND PAYMENTS
BY RESEARCH OBJECTIVES (cont'd)**

Article Item	Heading	Duration of action	Total programme allocation (proposed or adopted)	Date of Decision (or proposal) and Official Journal (or document) reference
7 3 2 4	Drive (Advanced technologies in road transport)	1. 6. 1988-31. 5. 1991	60 000 000	29 June 1988 (OJ No L 206, 30. 7. 1988)
7 3 2 5	AIM (Advanced informatics in medicine)	1. 6. 1988-31. 5. 1990	20 000 000	4 November 1988 (OJ No L 314, 22. 11. 1988)
7 3 2 6	Euret (transport)	Proposal of 28 November 1989 (OJ No C 318, 20. 12. 1989)
7 3 3	Modernization of industrial sectors			
7 3 3 1	Brite (Basic technological research and application of new technologies)	1985-1988	185 000 000	12 March 1985 (OJ No L 83, 25. 3. 1985) 29 February 1988 (OJ No L 59, 4. 3. 1988)
7 3 3 2	Brite/Euram (Industrial manufacturing technologies and advanced materials)	1989-1992	499 500 000	14 March 1989 (OJ No L 98, 11. 4. 1989)
7 3 3 4	Primary, secondary and renewable raw materials	OP	1982-1985	54 000 000
CP		1986-1989	70 000 000	17 May 1982 (OJ No L 174, 21. 6. 1982) 28 June 1983 (OJ No L 181, 6. 7. 1983) 12 December 1983 (OJ No L 357, 21. 12. 1983)
NP		1990-1992	45 000 000	10 June 1986 (OJ No L 159, 14. 6. 1986) 20 November 1989 (OJ No L 359, 8. 12. 1989)
7 3 3 5	CBR (Applied metrology and chemical analyses)	OP	1983-1987	25 000 000
NP		1988-1992	59 200 000	21 December 1982 (OJ No L 26, 28. 1. 1983) 29 June 1988 (OJ No L 206, 30. 7. 1988)

OP = Old programme.
CP = Current programme.
NP = New programme.

**MULTIANNUAL SCHEDULE OF COMMITMENTS AND PAYMENTS
BY RESEARCH OBJECTIVES (cont'd)**

Article Item	Heading		Duration of action	Total programme allocation (proposed or adopted)	Date of Decision (or proposal) and Official Journal (or document) reference
734	Exploitation and optimum use of biological resources				
7341	Bridge (Biotechnology)	CP	1985-1989	75 000 000	12 March 1985 (OJ No L 83, 25. 3. 1985) 29 June 1988 (OJ No L 206, 30. 7. 1988)
		NP	1990-1994	100 000 000	27 November 1989 (OJ No L 360, 9. 12. 1989)
7342	Eclair (European collaborative linkage of agriculture and industry through research)		1. 7. 1988-30. 6. 1993	80 000 000	23 February 1989 (OJ No L 60, 3. 3. 1989)
7343	Flair (Food-linked agro-industrial research)		1. 7. 1989-30. 6. 1993	25 000 000	20 June 1989 (OJ No L 200, 13. 7. 1989)
7344	Competitiveness of agriculture and management of agricultural resources (research in agriculture)	OP	1984-1988	30 000 000	12 December 1983 (OJ No L 358, 22. 12. 1983)
		NP	1989-1993	55 000 000	Proposal of 20 September 1988 (OJ No C 146, 13. 6. 1989) Amendment of 16 October 1989 (OJ No C 284, 10. 11. 1989) Common position of the Council of 17 October 1989
735	Energy				
7351	Fission — Management and storage of radioactive waste	CP	1985-1989	62 000 000	12 March 1985 (OJ No L 83, 25. 3. 1985)
		NP	1990-1994	79 600 000	15 December 1989 (OJ No L 395, 30. 12. 1989)
7352	Fission — Decommissioning of nuclear power stations	OP	1984-1988	12 100 000	31 January 1984 (OJ No L 36, 8. 2. 1984)
		NP	1989-1993	31 500 000	14 March 1989 (OJ No L 98, 11. 4. 1989)
7353	Teleman (Remote handling in hostile and disorganized environments)		1989-1993	19 000 000	18 July 1989 (OJ No L 226, 3. 8. 1989)

OP = Old programme.
CP = Current programme.
NP = New programme.

**MULTIANNUAL SCHEDULE OF COMMITMENTS AND PAYMENTS
BY RESEARCH OBJECTIVES (cont'd)**

Article Item	Heading	Duration of action	Total programme allocation (proposed or adopted)	Date of Decision (or proposal) and Official Journal (or document) reference
7354	Thermonuclear fusion — General programme	CP 1985-1989	360 000 000	12 March 1985 (OJ No L 83, 25. 3. 1985)
		NP 1. 1. 1988-31. 3. 1992	406 000 000	25 July 1988 (OJ No L 222, 12. 8. 1988)
7355	Thermonuclear fusion — Participation in the JET joint undertaking	CP 1985-1989	330 000 000	12 March 1985 (OJ No L 83, 25. 3. 1985)
		NP 1. 1. 1988-31. 3. 1992	329 000 000	25 July 1988 (OJ No L 222, 12. 8. 1988)
7356	Joule (Non-nuclear energy)	OP 1985-1988	175 000 000	12 March 1985 (OJ No L 83, 25. 3. 1985)
		CP 1. 1. 1989-31. 3. 1992	122 000 000	14 March 1989 (OJ No L 98, 11. 4. 1989)
736	<i>Science and technology for development</i>			
7361	Science and technology for development	OP 1983-1986	40 000 000	3 December 1982 (OJ No L 352, 14. 12. 1982)
		CP 1987-1991	80 000 000	14 December 1987 (OJ No L 355, 17. 12. 1987)
737	<i>Exploitation of the sea-bed and optimum use of marine resources</i>			
7371	MAST (Marine research)	28. 6. 1989-27. 6. 1992	50 000 000	20 June 1989 (OJ No L 200, 13. 7. 1989)
7372	Fisheries research programme	1988-1992	30 000 000	19 October 1987 (OJ No L 314, 4. 11. 1987)

OP = Old programme.
CP = Current programme.
NP = New programme.

**MULTIANNUAL SCHEDULE OF COMMITMENTS AND PAYMENTS
BY RESEARCH OBJECTIVES (cont'd)**

Article Item	Heading	Duration of action	Total programme allocation (proposed or adopted)	Date of Decision (or proposal) and Official Journal (or document) reference
738	Improvements to European scientific and technical cooperation			
7381	Science (Stimulation — strengthening European scientific and technical potential)			
	OP	1983-1984	7 000 000	28 June 1983 (OJ No L 181, 6. 7. 1983)
	CP	1985-1988	60 000 000	12 March 1985 (OJ No L 83, 25. 3. 1985)
	NP	1988-1992	167 000 000	29 June 1988 (OJ No L 206, 30. 7. 1988)
7382	SPES (Stimulation plan for economic sciences)	1989-1992	6 000 000	13 February 1989 (OJ No L 44, 16. 2. 1989)
7384	Support for major facilities	1988-1992	30 000 000	14 March 1989 (OJ No L 98, 11. 4. 1989)
7385	Monitor (SAST, FAST and Spear), Strategic analysis, forecasting and evaluation in matters of research and technology	27. 6. 1989-26. 6. 1993	22 000 000	20 June 1989 (OJ No L 200, 13. 7. 1989)
7387	Doses (Development of expert systems for statistics)	20. 6. 1989-19. 6. 1993	4 000 000	20 June 1989 (OJ No L 200, 13. 7. 1989)
7388	Value (Dissemination and utilization of scientific and technological results)	27. 6. 1989-26. 6. 1993	38 000 000	20 June 1989 (OJ No L 200, 13. 7. 1989)
7389	Eurotra (Machine translation system)			
	CP	1989-1990	7 000 000	20 June 1989 (OJ No L 200, 13. 7. 1989)
	NP	1. 7. 1990-1. 7. 1992	10 000 000	15 December 1989 (OJ No C 7, 12. 1. 1990)

OP = Old programme.
CP = Current programme.
NP = New programme.

MULTIANNUAL SCHEDULE OF COMMITMENTS

Article Item	Heading	Commitment appropriations			
		1988 to 1991 programme			
	Objective	1988	1989	1990	1991
730	Joint Research Centre				
7300	Expenditure in respect of persons associated with the institution :				
	— staff assigned to the Framework Programme	108 719	101 493	102 982	105 806
	— staff outside the Framework Programme	16 073	30 507	32 518	36 902
	Item 7300 — Total	124 792	132 000	135 500	142 708
7301	Quality of life (radiation protection, environment) :				
	— radiation protection	951	p.m.	p.m.	p.m.
	— environment	11 902	13 400	14 557	13 077
	Item 7301 — Total	12 853	13 400	14 557	13 077
7302	Modernization of industrial sectors (advanced materials, standards) :				
	— advanced materials	6 110	5 100	5 010	4 862
	— standards	9 138	14 500	13 259	13 158
	Item 7302 — Total	15 248	19 600 (¹)	18 269	18 020
7303	Energy (fission, fusion) :				
	— fission	29 803	32 700	33 929	31 557
	— fusion	9 128	7 400	4 945	4 223
	Item 7303 — Total	38 931	40 100	38 874	35 780

(¹) Including appropriations carried over from 1988.

AND PAYMENTS BY RESEARCH OBJECTIVES (cont'd)

(ECU 1 000)

Payment appropriations						
1988 to 1991 programme						
Total	1988	1989	1990	1991	1992	Total
419 000	104 161	101 493	102 982	105 806	4 558	419 000
116 000	15 391	30 507	32 518	36 902	682	116 000
535 000	119 552	132 000	135 500	142 708	5 240	535 000
951	341	399	p.m.	211	p.m.	951
52 936	4 137	12 095	13 000	12 995	10 709	52 936
53 887	4 478	12 494 (1)	13 000	13 206	10 709	53 887
21 082	2 742	5 903	4 309	4 319	3 809	21 082
50 055	4 555	11 236	11 486	13 165	9 613	50 055
71 137	7 297	17 139 (1)	15 795	17 484	13 422	71 137
127 989	15 474	29 178	28 503	31 678	23 156	127 989
25 696	2 936	9 950	5 851	4 211	2 748	25 696
153 685	18 410	39 128 (1)	34 354	35 889	25 904	153 685

MULTIANNUAL SCHEDULE OF COMMITMENTS

Article Item	Heading	Commitment appropriations			
	Objective	1988 to 1991 programme			
		1988	1989	1990	1991
7 3 0 4	Exploratory research	2 291	p.m.	p.m.	p.m.
	<i>Framework Programme (JRC) — Total</i>	178 042	174 593	174 682	172 683

(1) Balance of cover in payments following transfer No 2/1988.

AND PAYMENTS BY RESEARCH OBJECTIVES (cont'd)

(1 000 ECU)

Payment appropriations						
1988 to 1991 programme						
Total	1988	1989	1990	1991	1992	Total
2 291	754	546	300	691 (1)	p.m.	2 291
700 000	135 100	170 800	166 431	173 076	54 593	700 000

MULTIANNUAL SCHEDULE OF COMMITMENTS

Article Item	Heading	Commitments							
		u.a./EUA/ ECU	ECU						
		< 1987 ⁽¹⁾	1988 ⁽²⁾	1989 ⁽³⁾	1990	1991	1992	1993 and subsequent years	
731	<i>Quality of life</i>								
7311	Medical research	11 354 052	21 124 471	14 000 000 ⁽⁶⁾	17 500 000	1 021 477	p.m.	—	
7312	Analysis of the human genome	—	—	p.m. ⁽⁷⁾	6 000 000 ⁽⁸⁾	p.m.	p.m.	p.m.	
7313	Radiation protection	CP	48 226 253	13 089 865	6 500 000	p.m.	p.m.	p.m.	p.m.
		NP	—	—	—	17 000 000	4 200 000	p.m.	p.m.
7314	STEP and Epoch (environment)	OP	46 757 849	476 489	34 308	p.m.	—	—	—
		CP	51 444 885	16 340 216	3 000 000	4 214 899	p.m.	p.m.	p.m.
		NP	—	—	10 500 000	60 785 101	18 714 899	25 000 000	p.m.
732	<i>Towards a large market and an information and communications society</i>								
7321	Esprit (Information technologies)	OP	699 401 859	50 598 141	p.m.	—	—	—	—
		CP	—	275 926 074	465 000 000	464 000 000	65 073 926	330 000 000	p.m.
7322	RACE (Advanced communications technologies in Europe)		173 617 966	80 277 246	150 820 000	48 800 000	10 284 788	86 200 000	p.m.

OP = Old programme.

CP = Current programme.

NP = New programme.

⁽¹⁾ Final commitments (including cancellation of commitments making appropriations available again).

⁽²⁾ Commitments entered into against 1988 appropriations and against 1987 appropriations remaining in 1988.

⁽³⁾ Including commitment appropriations remaining from 1988.

⁽⁴⁾ Outturn.

⁽⁵⁾ Including payment appropriations carried over from 1988.

⁽⁶⁾ Including transfer No 18 F (ECU 2 million).

⁽⁷⁾ Excluding transfer No 18 F (ECU 2 million from Chapter 10 0).

⁽⁸⁾ This appropriation is entered in Chapter 10 0.

⁽⁹⁾ The schedule does not give detailed budget forecasts for programmes being prepared (7333 and 7383) or proposed (7312, 7326, 7344 and 7389).

⁽¹⁰⁾ Including appropriations carried over from 1988 and transfer No 18 J (ECU 2 500 000).

⁽¹¹⁾ Including transfer No 18 J (ECU 2 500 000).

⁽¹²⁾ Including transfer No 18 J (ECU 40 million).

AND PAYMENTS BY RESEARCH OBJECTIVES (cont'd)

Total	Payments							Total
	u.a./EUA/ ECU	ECU						
	< 1987 (4)	1988 (4)	1989 (5)	1990	1991	1992	1993 and subsequent years	
65 000 000	1 587 603	10 633 537	13 700 000	15 000 000	14 973 860	6 350 000	2 755 000	65 000 000
p.m. (9)	—	—	800 000 (8)	2 000 000 (8)	3 000 000	1 000 000	p.m.	p.m. (9)
67 816 118	25 560 353	12 882 349	14 100 000 (10)	11 000 000 (11)	3 443 416	830 000	p.m.	67 816 118
21 200 000	—	—	—	6 000 000	11 500 000	3 000 000	700 000	21 200 000
47 268 646	45 500 228	1 007 372	750 000	p.m.	11 046	p.m.	p.m.	47 268 646
75 000 000	11 680 721	16 765 421	12 800 000	15 000 000	12 623 858	5 800 000	330 000	75 000 000
115 000 000	—	—	3 000 000	20 000 000	28 000 000	26 000 000	38 000 000	115 000 000
750 000 000	435 705 274	137 671 761	91 000 000	55 000 000	30 622 965	p.m.	—	750 000 000
1 600 000 000	—	52 028 055	269 000 000 (12)	300 000 000	329 377 035	315 513 000	334 081 910	1 600 000 000
550 000 000	104 040	100 385 157	105 000 000	125 000 000	82 000 000	82 000 000	55 510 803	550 000 000

MULTIANNUAL SCHEDULE OF COMMITMENTS

Article Item	Heading	Commitments						
		u.a./EUA/ ECU	ECU					
		< 1987 (1)	1988 (2)	1989 (3)	1990	1991	1992	1993 and subsequent years
7 3 2 3	Delta (Developing European learning through technological advance)	—	1 774 229	15 225 771 (6)	3 000 000	p.m.	p.m.	p.m.
7 3 2 4	Drive (Advanced technologies in road transport)	—	1 979 552	32 000 000	24 000 000	2 027 448	p.m.	p.m.
7 3 2 5	AIM (Advanced informatics in medicine)	—	431 000	15 069 000 (9)	4 500 000	p.m.	p.m.	p.m.
7 3 2 6	Euret (transport)	—	—	p.m. (11)	1 000 000 (12)	—	p.m.	p.m.
7 3 3	<i>Modernization of industrial sectors</i>							
7 3 3 1	Brite (Basic technological research and application of new technologies)	103 596 616	80 798 926	p.m. (15)	p.m.	p.m.	—	—

OP = Old programme.

CP = Current programme.

NP = New programme.

(1) Final commitments (including cancellation of commitments making appropriations available again).

(2) Commitments entered into against 1988 appropriations and against 1987 appropriations remaining in 1988.

(3) Including commitment appropriations remaining from 1988.

(4) Outturn.

(5) Including payment appropriations carried over from 1988.

(6) Including appropriations carried over from 1988 and transfer No 18 J (ECU 2 500 000).

(7) Including transfer No 10 B (ECU 5 million).

(8) Including transfer No 10 A (ECU 7 500 000).

(9) Including appropriations carried over from 1988.

(10) Including transfer Nos 13 and 18 J (ECU 1 500 000).

(11) Excluding transfer No 18 F (ECU 1 million).

(12) This appropriation is entered in Chapter 10 0.

(13) The schedule does not give detailed budget forecasts for programmes being prepared (7 3 3 3 and 7 3 8 3) or proposed (7 3 1 2, 7 3 2 6, 7 3 4 4 and 7 3 8 9).

(14) Excluding transfer No 13 (ECU 400 000).

(15) Excluding transfer No 4 C (ECU 2 800 000 in commitment and payment appropriations from Chapter 10 0).

(16) Excluding transfer No 18 J (ECU 12 million).

AND PAYMENTS BY RESEARCH OBJECTIVES (cont'd)

Total	Payments							Total
	u.a./EUA/ ECU	ECU						
	< 1987 (4)	1988 (4)	1989 (5)	1990	1991	1992	1993 and subsequent years	
20 000 000	—	433 100	11 000 000 (7)	6 500 000	2 066 900	p.m.	p.m.	20 000 000
60 000 000	—	464 146	18 500 000 (8)	19 000 000	16 500 000	4 000 000	1 535 854	60 000 000
20 000 000	—	—	10 500 000 (10)	8 000 000	1 500 000	p.m.	p.m.	20 000 000
p.m. (13)	—	—	p.m. (14)	1 000 000 (12)	p.m.	p.m.	—	p.m. (13)
184 395 542	26 683 748	44 710 776	41 200 000 (9) (15) (16)	38 000 000	27 801 018	6 000 000	p.m.	184 395 542

MULTIANNUAL SCHEDULE OF COMMITMENTS

Article Item	Heading	Commitments							
		u.a./EUA/ ECU	ECU						
		< 1987 ⁽¹⁾	1988 ⁽²⁾	1989 ⁽³⁾	1990	1991	1992	1993 and subsequent years	
7 3 3 2	Brite/Euram (Industrial manufacturing technologies and advanced materials)	—	1 000 000	100 200 000 ⁽⁶⁾	155 000 000	110 300 000	134 000 000	p.m.	
7 3 3 3	Aeronautical technology	—	p.m.	p.m. ⁽⁸⁾	p.m.	p.m.	p.m.	p.m.	
7 3 3 4	Primary, secondary and renewable raw materials	OP	50 402 421	1 627 405	145 950 ⁽¹⁰⁾	p.m.	—	—	—
		CP	52 678 685	12 555 919	3 000 000	p.m.	p.m.	—	—
		NP	—	—	p.m.	18 000 000	17 000 000	10 000 000	p.m.
7 3 3 5	CBR (Applied metrology and chemical analyses)	OP	9 824 159	10 000	p.m.	—	—	—	—
		CP	24 698 138	604 640	205 698	p.m.	—	—	—
		NP	—	4 045 000	14 864 000 ⁽¹¹⁾	15 000 000	15 291 000	10 000 000	p.m.

OP = Old programme.

CP = Current programme.

NP = New programme.

⁽¹⁾ Final commitments (including cancellation of commitments making appropriations available again).

⁽²⁾ Commitments entered into against 1988 appropriations and against 1987 appropriations remaining in 1988.

⁽³⁾ Including commitment appropriations remaining from 1988.

⁽⁴⁾ Outturn.

⁽⁵⁾ Including payment appropriations carried over from 1988.

⁽⁶⁾ Including transfer No 4 C (ECU 100 200 000 in commitment appropriations).

⁽⁷⁾ Including transfer No 4 C (ECU 24 100 000 and ECU 9 million entered in Chapter 10 0) and excluding transfer Nos 10 A and B (ECU 9 million in payment appropriations from Chapter 10 0).

⁽⁸⁾ Excluding transfer No 4 C (ECU 25 million in commitment appropriations and ECU 9 million in payment appropriations from Chapter 10 0).

⁽⁹⁾ The schedule does not give detailed budget forecasts for programmes being prepared (7 3 3 3 and 7 3 8 3) or proposed (7 3 1 2, 7 3 2 6, 7 3 4 4 and 7 3 8 9).

⁽¹⁰⁾ Including appropriations carried over from 1988.

⁽¹¹⁾ Including transfer No 18 F (ECU 1 364 000).

⁽¹²⁾ Excluding transfer No 18 J (ECU 2 700 000).

AND PAYMENTS BY RESEARCH OBJECTIVES (cont'd)

Total	Payments							Total
	u.a./EUA/ ECU	ECU						
	< 1987 (4)	1988 (4)	1989 (5)	1990	1991	1992	1993 and subsequent years	
500 500 000	—	—	25 100 000 (7)	66 000 000	112 400 000	138 000 000	159 000 000	500 500 000
— (9)	—	p.m.	p.m. (8)	p.m.	p.m.	p.m.	p.m.	p.m. (9)
52 175 776	49 044 236	1 221 666	348 343	300 000	1 261 531	p.m.	p.m.	52 175 776
68 234 604	9 189 016	22 783 881	16 551 657	10 000 000	9 590 050	120 000	p.m.	68 234 604
45 000 000 (9)	—	—	p.m.	4 700 000	11 720 000	11 760 000	16 820 000	45 000 000 (9)
9 834 159	9 498 787	65 949	p.m.	200 000	69 423	p.m.	p.m.	9 834 159
25 508 476	15 473 015	3 570 118	4 415 553	1 800 000	249 790	p.m.	p.m.	25 508 476
59 200 000	—	1 600 000	4 800 000 (12)	10 500 000	18 100 000	14 700 000	9 500 000	59 200 000

MULTIANNUAL SCHEDULE OF COMMITMENTS

Article Item	Heading	Commitments							
		u.a./EUA/ ECU	ECU						
		< 1987 ⁽¹⁾	1988 ⁽²⁾	1989 ⁽³⁾	1990	1991	1992	1993 and subsequent years	
7 3 4	Exploitation and optimum use of biological resources								
7 3 4 1	Bridge (Biotechnology)	OP	45 473 162	22 938 370	7 112 187 ⁽⁶⁾ ⁽⁷⁾	p.m.	p.m.	p.m.	—
		NP	—	—	—	30 000 000	33 100 000	25 700 000	11 200 000
7 3 4 2	Eclair (European collaborative linkage of agriculture and industry through research)		—	—	24 200 000	24 300 000	6 500 000	21 600 000	3 400 000
7 3 4 3	Flair (Food-linked agro-industrial research)		—	—	600 000 ⁽¹⁰⁾	11 000 000	5 200 000	5 500 000	2 700 000
7 3 4 4	Competitiveness of agriculture and management of agricultural resources (research in agriculture)	OP	26 500 386	3 499 614	350 000 ⁽⁶⁾	p.m.	—	—	—
		NP	—	—	2 000 000 ⁽¹²⁾	21 000 000 ⁽¹³⁾	p.m.	p.m.	p.m.

OP = Old programme.

CP = Current programme.

NP = New programme.

⁽¹⁾ Final commitments (including cancellation of commitments making appropriations available again).

⁽²⁾ Commitments entered into against 1988 appropriations and against 1987 appropriations remaining in 1988.

⁽³⁾ Including commitment appropriations remaining from 1988.

⁽⁴⁾ Outturn.

⁽⁵⁾ Including payment appropriations carried over from 1988.

⁽⁶⁾ Including appropriations carried over from 1988 and transfer No 18 J (ECU 2 million).

⁽⁷⁾ Including transfer No 12 B (ECU 536 000).

⁽⁸⁾ Excluding transfer Nos 10 B and 18 J (ECU 7 500 000).

⁽⁹⁾ Excluding transfer No 18 J (ECU 4 million).

⁽¹⁰⁾ Excluding transfer No 12 A (ECU 4 700 000) and including transfer No 11 A (ECU 600 000 from Chapter 10 0).

⁽¹¹⁾ Excluding transfer No 13 (ECU 1 million) and including transfer No 11 A (ECU 600 000 from Chapter 10 0).

⁽¹²⁾ This appropriation is entered in Chapter 10 0, and will not be utilized; excluding transfer No 18 F (ECU 3 million in Chapter 10 0).

⁽¹³⁾ This appropriation is entered in Chapter 10 0.

⁽¹⁴⁾ The schedule does not give detailed budget forecasts for programmes being prepared (7 3 3 3 and 7 3 8 3) or proposed (7 3 1 2, 7 3 2 6, 7 3 4 4 and 7 3 8 9).

⁽¹⁵⁾ Excluding transfer No 18 F (ECU 1 million).

AND PAYMENTS BY RESEARCH OBJECTIVES (cont'd)

Total	Payments							Total
	u.a./EUA/ ECU	ECU						
	< 1987 (4)	1988 (4)	1989 (5)	1990	1991	1992	1993 and subsequent years	
75 523 719	21 158 072	17 154 071	16 533 000 (6)	11 000 000	8 958 576	720 000	p.m.	75 523 719
100 000 000	—	—	p.m.	7 000 000	21 000 000	26 000 000	46 000 000	100 000 000
80 000 000	—	—	5 500 000 (8) (9)	16 000 000	18 260 000	19 400 000	20 840 000	80 000 000
25 000 000	—	—	600 000 (11)	4 000 000	7 000 000	7 000 000	6 400 000	25 000 000
30 350 000	13 159 439	2 847 703	4 350 000 (6)	6 000 000	3 992 858	—	—	30 350 000
p.m. (14)	—	—	p.m. (15)	7 500 000 (13)	10 000 000	3 500 000	p.m.	p.m. (14)

MULTIANNUAL SCHEDULE OF COMMITMENTS

Article Item	Heading	Commitments							
		u.a./EUA/ ECU	ECU						
		< 1987 ⁽¹⁾	1988 ⁽²⁾	1989 ⁽³⁾	1990	1991	1992	1993 and subsequent years	
7 3 5	Energy								
7 3 5 1	Fission — Management and storage of radioactive waste	CP	50 457 014	9 306 770	1 924 000	p.m.	—	—	—
		NP	—	—	—	30 000 000 ⁽⁷⁾	23 900 000	16 000 000	9 700 000
7 3 5 2	Fission — Decommissioning of nuclear power stations	OP	10 926 385	1 144 623	p.m.	p.m.	p.m.	p.m.	p.m.
		NP	—	—	8 000 000 ⁽⁸⁾	12 500 000	5 900 000	4 400 000	700 000
7 3 5 3	Teleman (Remote handling in hostile and disorganized environments)		—	—	800 000 ⁽⁹⁾ ⁽¹⁰⁾	8 600 000	6 600 000	2 400 000	600 000
7 3 5 4	Thermonuclear fusion — General programme	OP	457 776 393	697 950	p.m.	—	—	—	—
		CP	339 685 548	26 937 117	11 438 000	p.m.	p.m.	p.m.	p.m.
		NP	—	90 366 500	99 733 500	113 000 000	38 900 000	34 000 000	p.m.
7 3 5 5	Thermonuclear fusion — Participation in the JET joint undertaking	OP	152 018 461	84 241 500	75 481 180	p.m.	p.m.	p.m.	p.m.
		CP	—	8 000 000	10 000 000	79 000 000	62 000 000	16 000 000	p.m.

OP = Old programme.

CP = Current programme.

NP = New programme.

⁽¹⁾ Final commitments (including cancellation of commitments making appropriations available again).

⁽²⁾ Commitments entered into against 1988 appropriations and against 1987 appropriations remaining in 1988.

⁽³⁾ Including commitment appropriations remaining from 1988.

⁽⁴⁾ Outturn.

⁽⁵⁾ Including payment appropriations carried over from 1988.

⁽⁶⁾ Including transfer No 18 J (ECU 4 million).

⁽⁷⁾ Of which ECU 29 million is entered in Chapter 10 0.

⁽⁸⁾ Including transfer No 4 A (ECU 7 680 000 in commitment appropriations and ECU 1 680 000 in payment appropriations from Chapter 10 0) and transfer No 18 J (ECU 200 000 in payment appropriations).

⁽⁹⁾ Excluding transfer Nos 12 A and B (ECU 836 000) and including transfer No 11 B (ECU 800 000 from Chapter 10 0).

⁽¹⁰⁾ Excluding transfer No 18 F (ECU 364 000).

⁽¹¹⁾ Excluding transfer No 13 (ECU 200 000) and including transfer No 11 B (ECU 500 000 from Chapter 10 0).

AND PAYMENTS BY RESEARCH OBJECTIVES (cont'd)

Total	Payments							Total
	u.a./EUA/ ECU	ECU						
	< 1987 (4)	1988 (4)	1989 (5)	1990	1991	1992	1993 and subsequent years	
61 687 784	19 846 704	17 645 420	11 800 000 (6)	7 500 000	4 895 660	p.m.	—	61 687 784
79 600 000	—	—	p.m.	10 000 000 (7)	18 000 000	23 000 000	28 600 000	79 600 000
12 071 008	6 418 520	2 772 191	1 020 000	1 860 297	p.m.	p.m.	p.m.	12 071 008
31 500 000	—	—	1 880 000 (8)	5 139 703	8 890 297	8 210 000	7 380 000	31 500 000
19 000 000	—	—	500 000 (11)	3 300 000	5 400 000	5 300 000	4 500 000	19 000 000
458 474 343	443 505 725	3 030 040	p.m.	2 500 000	6 193 156	p.m.	p.m.	455 228 921
378 060 665	160 290 541	95 384 386	47 216 428	30 000 000	36 638 401	6 730 909	1 800 000	378 060 665
376 000 000	—	4 939 387	71 798 161	91 000 000	102 593 361	79 000 000	26 669 091	376 000 000
311 741 141	152 017 500	84 241 500	75 475 650	p.m.	6 491	p.m.	p.m.	311 741 141
175 000 000	—	8 000 000	10 000 000	79 000 000	62 000 000	16 000 000	p.m.	175 000 000

MULTIANNUAL SCHEDULE OF COMMITMENTS

Article Item	Heading		Commitments						
			u.a./EUA/ ECU	ECU					
			< 1987 (1)	1988 (2)	1989 (3)	1990	1991	1992	1993 and subsequent years
7 3 5 6	Joule (Non-nuclear energy)	CP	146 122 366	26 981 353	p.m.	—	—	—	—
		NP	—	—	20 000 000 (6)	90 000 000	10 900 000	1 100 000	p.m.
7 3 6	<i>Science and technology for development</i>								
7 3 6 1	Science and technology for development	OP	41 460 825	567 048	p.m.	p.m.	—	—	—
		NP	3 398 292	35 491 378	25 000 000	14 000 000	2 110 330	p.m.	—
7 3 7	<i>Exploitation of the sea-bed and optimum use of marine resources</i>								
7 3 7 1	MAST (Marine research)		—	—	3 500 000 (7)	33 000 000	3 500 000	10 000 000	p.m.
7 3 7 2	Fisheries research programme		—	3 497 081	10 000 000 (8)	6 500 000	3 500 000	6 502 919	p.m.

OP = Old programme.

CP = Current programme.

NP = New programme.

(1) Final commitments (including cancellation of commitments making appropriations available again).

(2) Commitments entered into against 1988 appropriations and against 1987 appropriations remaining in 1988.

(3) Including commitment appropriations remaining from 1988.

(4) Outturn.

(5) Including payment appropriations carried over from 1988.

(6) Including transfer No 4 B (ECU 17 200 000 in commitment appropriations and ECU 8 million in payment appropriations from Chapter 10 0).

(7) Including transfer No 11 C (ECU 3 500 000 in commitment appropriations and ECU 1 million in payment appropriations from Chapter 10 0).

(8) Including transfer No 18 F (ECU 3 million).

AND PAYMENTS BY RESEARCH OBJECTIVES (cont'd)

Total	Payments							Total
	u.a./EUA/ ECU	ECU						
	< 1987 (4)	1988 (4)	1989 (5)	1990	1991	1992	1993 and subsequent years	
173 103 719	63 028 963	48 921 493	20 200 000	21 000 000	19 953 263	p.m.	p.m.	173 103 719
122 000 000	—	—	10 800 000 (6)	39 000 000	33 000 000	20 000 000	19 200 000	122 000 000
42 027 873	34 402 884	4 644 349	2 040 079	800 000	140 561	p.m.	p.m.	42 027 873
80 000 000	80 283	7 390 857	20 459 921	21 200 000	20 718 939	7 920 000	2 230 000	80 000 000
50 000 000	—	—	1 000 000 (7)	11 000 000	11 500 000	12 000 000	14 500 000	50 000 000
30 000 000	—	—	3 500 000	6 500 000	7 000 000	6 500 000	6 500 000	30 000 000

MULTIANNUAL SCHEDULE OF COMMITMENTS

Article Item	Heading	Commitments						
		u.a./EUA/ ECU	ECU					
		< 1987 (1)	1988 (2)	1989 (3)	1990	1991	1992	1993 and subsequent years
7 3 8	Improvements to European scientific and technical cooperation							
7 3 8 1	Science (Stimulation — strengthening European scientific and technical potential)							
	OP	6 588 792	152 308	p.m.	p.m.	—	—	—
	CP	53 204 432	6 710 918	p.m.	p.m.	—	—	—
	NP	—	29 017 570	40 000 000 (6)	35 000 000	24 982 430	38 000 000	p.m.
7 3 8 2	SPES (Stimulation plan for economic sciences)	—	—	1 000 000	2 000 000	1 000 000	2 000 000	p.m.
7 3 8 3	Scientific awards	—	—	p.m.	p.m.	p.m.	p.m.	p.m.
7 3 8 4	Support for major facilities	—	—	7 000 000	8 000 000	8 000 000	7 000 000	p.m.

OP = Old programme.

CP = Current programme.

NP = New programme.

(1) Final commitments (including cancellation of commitments making appropriations available again).

(2) Commitments entered into against 1988 appropriations and against 1987 appropriations remaining in 1988.

(3) Including commitment appropriations remaining from 1988.

(4) Outturn.

(5) Including payment appropriations carried over from 1988.

(6) Including transfer No 12 A (ECU 5 million).

(7) The schedule does not give detailed budget forecasts for programmes being prepared (7 3 3 3 and 7 3 8 3) or proposed (7 3 1 2, 7 3 2 6, 7 3 4 4 and 7 3 8 9).

AND PAYMENTS BY RESEARCH OBJECTIVES (cont'd)

Total	Payments							Total
	u.a./EUA/ ECU	ECU						
	< 1987 (4)	1988 (4)	1989 (5)	1990	1991	1992	1993 and subsequent years	
6 741 100	6 045 193	327 662	118 080	150 000	100 165	p.m.	p.m.	6 741 100
59 915 350	21 120 036	13 888 740	10 481 920	9 000 000	5 424 654	p.m.	p.m.	59 915 350
167 000 000	—	4 409 082	18 900 000	27 500 000	37 690 918	37 200 000	41 300 000	167 000 000
6 000 000	—	—	400 000	800 000	1 280 000	1 650 000	1 870 000	6 000 000
p.m. (7)	—	—	p.m.	p.m.	p.m.	p.m.	p.m.	p.m. (7)
30 000 000	—	—	4 000 000	4 000 000	7 680 000	6 770 000	7 550 000	30 000 000

MULTIANNUAL SCHEDULE OF COMMITMENTS

Article Item	Heading	Commitments							
		u.a./EUA/ ECU	ECU						
		< 1987 (1)	1988 (2)	1989 (3)	1990	1991	1992	1993 and subsequent years	
7385	Monitor (SAST, FAST and Spear), Strategic analysis, forecasting and evaluation in matters of research and technology	OP	8 235 055	203 503	p.m. (6)	p.m.	—	—	—
	NP	—	1 200 000	3 800 000 (7)	8 700 000	3 600 000	4 700 000	p.m.	
7387	Doses (Development of expert systems for statistics)		—	—	500 000 (8)	1 745 000	755 000	1 000 000	p.m.
7388	Value (Dissemination and utilization of scientific and technological results)		—	2 178 305	5 671 695 (9)	10 150 000	10 000 000	10 000 000	p.m.
7389	Eurotra (Machine translation system)	CP	—	—	4 650 000 (11)	2 350 000	p.m.	p.m.	p.m.
		NP	—	—	—	2 000 000 (13)	p.m.	p.m.	p.m.

OP = Old programme.

CP = Current programme.

NP = New programme.

(1) Final commitments (including cancellation of commitments making appropriations available again).

(2) Commitments entered into against 1988 appropriations and against 1987 appropriations remaining in 1988.

(3) Including commitment appropriations remaining from 1988.

(4) Outturn.

(5) Including payment appropriations carried over from 1988.

(6) This amount will be charged to the new programme as soon as it is adopted.

(7) Including transfer No 11 D (ECU 2 600 000 in commitment appropriations and ECU 2 million in payment appropriations from Chapter 10 0).

(8) Including transfer No 11 E (ECU 500 000 in commitment appropriations and ECU 200 000 in payment appropriations from Chapter 10 0) and excluding transfer No 13 (ECU 150 000 in payment appropriations from Chapter 10 0).

(9) Including transfer No 11 F (ECU 4 450 000 in commitment appropriations and ECU 600 000 in payment appropriations from Chapter 10 0).

(10) Excluding transfer No 13 (ECU 1 million from Chapter 10 0).

(11) Including transfer No 11 G (ECU 4 650 000 in commitment appropriations and ECU 750 000 in payment appropriations from Chapter 10 0).

(12) Excluding transfer No 13 (ECU 1 250 000 from Chapter 10 0).

(13) This appropriation is entered in Chapter 10 0.

(14) The schedule does not give detailed budget forecasts for programmes being prepared (7333 and 7383) or proposed (7312, 7326, 7344 and 7389).

AND PAYMENTS BY RESEARCH OBJECTIVES (cont'd)

Total	Payments							Total
	u.a./EUA/ ECU	ECU						
	< 1987 (4)	1988 (4)	1989 (5)	1990	1991	1992	1993 and subsequent years	
8 438 558	7 096 467	738 354	p.m. (6)	400 000	203 737	p.m.	p.m.	8 438 558
22 000 000	—	1 200 000	3 200 000 (7)	5 500 000	4 600 000	5 400 000	2 100 000	22 000 000
4 000 000	—	—	200 000 (8)	1 445 000	1 095 000	905 000	355 000	4 000 000
38 000 000	—	166 702	1 500 000 (9) (10)	5 000 000	9 500 000	9 500 000	12 333 298	38 000 000
7 000 000	—	—	750 000 (11) (12)	3 900 000	2 200 000	150 000	p.m.	7 000 000
p.m. (14)	—	—	—	100 000 (13)	1 500 000	400 000	p.m.	p.m. (14)

Amounts in this budget document are expressed in ecus unless otherwise indicated.

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