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Service de l'environnement atmosphérique



ADDENDUM TO

# ATMOSPHERIC ENVIRONMENT

SERVICE

PROGRAM DIGEST

1981 - 1982



Canada

Environment Environnement Canada

Atmospheric Service

Service Environment de l'environnement atmosphérique

ADDENDUM TO



# ATMOSPHERIC ENVIRONMENT

SERVICE

PROGRAM DIGEST

1981 - 1982

#### PREFACE

In the main portion of the Program Digest which was published separately, 1981-82 AES organizational budget data were presented by sub-activity (SA 1) and sub-sub-activity (SA 2).

In this addendum to the Program Digest, the 1981-82 organizational budget data have been broken down one additional level and are given by sub-sub-activity (SA 2) and sub-sub-activity (SA 3). The data broken out in this manner is presented in Appendix I. The data of Appendix I have then been reorganized by sub-activity and are displayed in 6 Appendices (J to O). Note that each Appendix of the Addendum has been numbered separately. For example, page I23 refers to page 23 of Appendix I, etc.

Any errors in or suggested improvements to either the Program Digest or the Addendum, should be addressed to the Chief, Program Development and Integration Division (ADEC) at AES Downsview.

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## APPENDIX I

Atmospheric Environment Service
1981-82 Organizational Budgets by
Sub-Sub-Activity and Sub-Sub-Sub-Activity

## SUB-ACTIVITY: 700 DEPARTMENTAL INTEGRATED PROGRAMS

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3)  $\cdot$  (Nearest \$000)

## ORGANIZATION: ASSISTANT DEPUTY MINISTER

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
710 EARP					
710 EARP				•	
710 TOTALS(SA-2)					
720 LRTAP					
720 LRTAP	2	60.01	25.0		85.0
720 TOTALS (SA-2)	2	60.0	25.0		85.0
730 Toxic Chemicals					
730 Toxic Chemicals			. 1		ĺ
730 TOTALS (SA-2)					
740 Great Lakes Water Quality					
740 Great Lakes Water Quality		1	ĺ		İ
740 TOTALS(SA-2)					
750 Baseline Studies					
750 Baseline Studies			1		
750 TOTALS(SA-2)	T				
700 TOTAL (SA-1)	2	60.0	25.0		85.0

# SUB-ACTIVITY: 800 MANAGEMENT AND COMMON SUPPORT SYSTEMS

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

### ORGANIZATION: ASSISTANT DEPUTY MINISTER'S OFFICE

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
810 Management					
811 Departmental Management	5	148.0	13.2		161.2
820 Management Support	10	585.4	136.9		722.3
810 TOTAL (SA-2)	15	733.4	150.1		883.5
830 Common Support Services					
831 Personnel Services					
840 Financial Services					l i
850 General Administration					
860 Public Information			1		İ
870 Publications					
880 Library Services					i
890 Grants/Contributions				-	i
830 TOTAL (SA-2)					
200					
800 TOTAL (SA-1)	15	733.4	150.1		883.5

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

### ORGANIZATION: ADMINISTRATION BRANCH

Sub-Sub-Sub-Activity	PY	SALARY	O&M	CAPITAL	TOTAL
110 Public Weather Services				,	
111 Forecast Operations		1	1		
112 Provision of Services	İ	İ	ĺ		İ
110 TOTAL(SA-2)	T T	<u>-</u>	i		·
120 Marine Weather Services	<del></del>		·		
121 Forecast Operations	İ	į	i		i
122 Provision of Services	i	i	i		i
120 TOTAL(SA-2)	<del></del>	<u>-</u>			
130 Aviation Weather Services	·				
131 Forecast Operations	i i	i	i		i
132 Provision of Services	i	i	i		i
138 Aviation Observations	i	i	i		
130 TOTAL(SA-2)	<del></del>	<del></del>	i		
140 Economic Weather Services		<del></del>			
141 Forecast Operations		i	i		i
142 Provision of Services	1 1	i	i		i
140 TOTAL(SA-2)	<u> </u>				
150 Canadian Forces Wx Service					
151 Forecasting and Briefing	1 1 1 1		i		i
	1 1	1			! !
160 Data 170 Consultation and Coord.	!!!!				
	1 1				1
180 CFWS Support Systems					
150 TOTAL(SA-2)					
200 Data	1 1	! !	1		1
210 Surface Wx Observations					! !
220 Upper Air Stations	1		1		
230 Other Observations					
200 TOTAL(SA-2)	1				
300 Wx. Services Support Systems					
301 CMC					1 1
310 Forecast Operations Suppor					1 !
320 Forecast Production Resear					
330 Data Acquisition Research	1				1 1
340 Planning and Consultation					
350 Communications	!	! !			!
360 EDP Services		!			
370 Training	17	939.8	53.0		992.8
380 Data Acquisition Services	!				
390 Management					!!!
395 Management Support					
300 TOTAL(SA-2)		939.8	53.0		992.8
100 TOTAL (SA-1)	17	939.8	53.0		992.8

# SUB-ACTIVITY: 800 MANAGEMENT, AND COMMON SUPPORT SYSTEMS

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: ADMINISTRATION BRANCH

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
810 Management					
811 Departmental Management					1
820 Management Support	3	88.1	55.0		143.1
810 TOTAL (SA-2)	3	88.1	55.0		143.1
830 Cammon Support Services					
831 Personnel Services			90.0		90.0
840 Financial Services	18	4616.6	1804.0	49.6	6470.2
850 General Administration	45	897.0	1599.8	66.4	2563.2
860 Public Information			140.0		140.0
870 Publications	3	60.6	109.5	-	170.1
880 Library Services	9	189.1	85.0	5.0	279.1
890 Grants/Contributions		000 <del>-0</del> 00-000	965.2	<b>80 COMM</b>	965.2
830 TOTAL (SA-2)	75	5763.3	4793.5	121.0	10677.8
800 TOTAL (SA-1)	78	5851.4	4848.5	121.0	10820.9

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: FIELD SERVICES DIRECTORATE-(HEADQUARTERS + REGIONS)\*

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
111 Forecast Operations	172	4983.4	51.0		5034.4
112 Provision of Services	292	7517.3	681.6		8198.9
110 TOTAL(SA-2)	464	12500.7	732.6	-	13233.3
120 Marine Weather Services					
121 Forecast Operations	9	316.0			316.0
122 Provision of Services	2	46.0			46.0
120 TOTAL(SA-2)	11	362.0			362.0
130 Aviation Weather Services					
131 Forecast Operations	56	1658.1	2.0		1660.1
132 Provision of Services	56	1360.0	110.3		1470.3
138 Aviation Observations	15	299.0	457.2		756.2
130 TOTAL(SA-2)	127	3317.1	569.5		3886.6
140 Economic Weather Services		<u>j</u>			
141 Forecast Operations	16	482.4	24.4		506.8
142 Provision of Services					
140 TOTAL(SA-2)	16	482.4	24.4		506.8
150 Canadian Forces Wx Service					
151 Forecasting and Briefing	i i	1			
160 Data	i i	ĺ			
170 Consultation and Coord.	i i	İ			
180 CFWS Support Systems	i i	ĺ			
150 TOTAL(SA-2)	i				
200 Data	<del>i i</del>	İ			
210 Surface Wx Observations	140	3224.3	2136.3		5360.6
220 Upper Air Stations	160	5200.9	9561.6		14771.5
230 Other Observations	5	185.0	174.0		379.0
200 TOTAL(SA-2)	305	8610.2	11871.9	29.0	20511.1
300 Wx. Services Support Systems		İ			
301 CMC	67	2264.6	112.2	9.0	2385.8
310 Forecast Operations Support	t 57	1668.6	721.2	38.0	2427.8
320 Forecast Production Research					
330 Data Acquisition Research					4200000
340 Planning and Consultation	29	976.3	173.2	40.0	1189.5
350 Communications	97	2372.4	4202.6		6575.0
360 EDP Services	24	678.8	158.2	375.0	1212.0
370 Training	1	19.7			183.3
380 Data Acquisition Services	153	4003.6			14310.5
390 Management	21	559.3	704.8		
395 Management Support	72	1584.7	3180.3		
300 TOTAL(SA-2)	521	14128.0	12313.0		34919.5
	321				
100 TOTAL (SA-1)	1444	39400.4	25511.4	8507.5	73419.3

<sup>\*</sup> Does not include Canadian Forces Weather Service

### SUB-ACTIVITY: 400 CLIMATE SERVICES

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: FIELD SERVICES DIRECTORATE (HEADQUARTERS + REGIONS)\*

Sub-Sub-Activity	PY	Salary	M30	Capital	Total
410 Climate Services					
411 Climate Services	21	420.0	675.2	3.0	1098.2
420 Reg. Consultation/Appl.	29	912.2	66.5	3.5	982.2
430 Nat. Consultation/Dev.	1	22.0	4.7	-	26.7
410 TOTAL(SA-2)	<b>5</b> 1	1354.2	746.4	6.5	2107.1
450 Climate Research				*	
451 Numerical Modelling					
452 Diagnostics					
453 Processes		-			
450 TOTAL(SA-2)					
460 Climate Prog. Support System					
461 EDP Services					
462 Management	12	324.1	29.9	8.0	362.0
463 Management Support					
460 TOTAL(SA-2)	12	324.1	29.9	8.0	362.0
400 TOTAL (SA-1)	63	1678.3	776.3	14.5	2469.1

<sup>\*</sup> Does not include Canadian Forces Weather Service

## SUB-ACTIVITY: 800 MANAGEMENT AND COMMON SUPPORT SYSTEMS

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: FIELD SERVICES DIRECTORATE (HEADQUARTERS + REGIONS)\*

Sub-Sub-Sub-Activity	PY	Salary	M30	Capital	Total
810 Management					
811 Departmental Management	1				
820 Management Support					İ
810 TOTAL (SA-2)					-
830 Common Support Services					
831 Personnel Services			41.0		41.0
840 Financial Services					
850 General Administration					
860 Public Information	1		4.0		4.0
870 Publications	1				
880 Library Services	1				
890 Grants/Contributions					
830 TOTAL (SA-2)			45.0		45.0
800 TOTAL (SA-1)	T		45.0		45.0

<sup>\*</sup> Does not include Canadian Forces Weather Service

1981-82 Budget.by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

500

# ORGANIZATION: FIELD SERVICES DIRECTORATE-HEADQUARTERS

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
111 Forecast Operations					
112 Provision of Services	1				
110 TOTAL(SA-2)	T				
120 Marine Weather Services			6		
121 Forecast Operations	1			İ	
122 Provision of Services			ĺ	i	
120 TOTAL(SA-2)					
130 Aviation Weather Services	T				
131 Forecast Operations					
132 Provision of Services	1				
138 Aviation Observations			İ	İ	
130 TOTAL(SA-2)					
140 Economic Weather Services					
141 Forecast Operations	1				
142 Provision of Services					
140 TOTAL(SA-2)					
150 Canadian Forces Wx Service					
151 Forecasting and Briefing	1				
160 Data	1				
170 Consultation and Coord.	1				
180 CFWS Support Systems					
150 TOTAL(SA-2)					
200 Data					
210 Surface Wx Observations	1				
220 Upper Air Stations					
230 Other Observations				İ	
200 TOTAL(SA-2)					
300 Wx. Services Support Systems					
301 CMC					
310 Forecast Operations Support	t 6	184.9	13.0		197.9
320 Forecast Production Research	ch				
330 Data Acquisition Research				ĺ	
340 Planning and Consultation	8	351.0	18.4	4.0	373.4
350 Communications	23	615.1	3839.7		4454.8
360 EDP Services	5	173.2	67.0	375.0	615.2
370 Training					3_2.4
380 Data Acquisition Services	19	471.4	226.9	6731.0	7429.3
390 Management	6	180.8	56.0	1.0	237.8
395 Management Support	12	294.0	943.6	10.0	1247.6
300 TOTAL(SA-2)	79	2270.4	5164.6	7121.0	14556.0
100 TOTAL (SA-1)	79	2270.4	5164.6	7121.0	14556.0

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

## ORGANIZATION: FIELD SERVICES DIRECTORATE - CANADIAN METEOROLOGICAL CENTRE

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
111 Forecast Operations	1	1			
112 Provision of Services	1	1			
110 TOTAL(SA-2)	— <u> </u>	i			
120 Marine Weather Services			The state of the s		
121 Forecast Operations	j	i	i		
122 Provision of Services	i	j	i		
120 TOTAL(SA-2)	<del></del>	i			
130 Aviation Weather Services		<del>'</del> j	<del>-</del>		
131 Forecast Operations	i	i			
132 Provision of Services	i	i	i		
138 Aviation Observations	ì	i	i		
130 TOTAL(SA-2)	<del></del>				
140 Economic Weather Services	<del></del>				
141 Forecast Operations	i				 
142 Provision of Services	1				l 
					<u> </u>
140 TOTAL (SA-2)					 
150 Canadian Forces Wx Service	.	1	ı		 
151 Forecasting and Briefing		l I		1.8	] 
160 Data	ļ	1			 
170 Consultation and Coord.	1	ļ			
180 CFWS Support Systems					<u> </u>
150 TOTAL(SA-2)					
200 Data		!			1
210 Surface Wx Observations		!			1
220 Upper Air Stations	!				
230 Other Observations					
200 TOTAL(SA-2)					
300 Wx. Services Support Systems					
301 CMC	67	2264.6	112.2	9.0	2385.8
310 Forecast Operations Support	: !				
320 Forecast Production Research	ch				
330 Data Acquisition Research		1			
340 Planning and Consultation					
350 Communications	i				
360 EDP Services	i				
370 Training	i				ĺ
380 Data Acquisition Services				i	İ
390 Management	i				İ
395 Management Support				i	İ
300 TOTAL(SA-2)	67	2264.6	112.2	9.0	2385.8
300 101AL(SA-2)	0/1	2201.0	112.2	7.0	200010

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

# ORGANIZATION: FIELD SERVICES DIRECTORATE - ATLANTIC REGION

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
111 Forecast Operations	39	1067.8	33.1		1100.9
112 Provision of Services	64	1522.8	117.2		1640.0
110 TOTAL(SA-2)	103	2590.6	150.3		2740.9
120 Marine Weather Services					•
121 Forecast Operations	2	79.0			79.0
122 Provision of Services	2	46.0			46.0
120 TOTAL(SA-2)	4	125.0			125.0
130 Aviation Weather Services					
131 Forecast Operations	10	316.0			316.0
132 Provision of Services	6	138.0	-		318.0
138 Aviation Observations		GB-600-600	~~~		
130 TOTAL(SA-2)	16	454.0	esesee	<b>6</b> 0 (0940)	454.0
140 Economic Weather Services					
141 Forecast Operations					
142 Provision of Services					
140 TOTAL(SA-2)					
150 Canadian Forces Wx Services					
151 Forecasting and Briefing					
160 Data					
170 Consultation and Coord.					
180 CFWS Support Systems					
150 TOTAL(SA-2)					
200 Data					
210 Surface Wx Observations	11	231.8			495.2
220 Upper Air Stations	27	694.9	556.6		1251.5
230 Other Observations			90.8		90.8
200 TOTAL(SA-2)	38	926.7	910.8		1837.5
300 Wx. Services Support Systems					
301 GMC		!			005 5
310 Forecast Operations Suppor	t 9	215.3	10.2		225.5
320 Forecast Production Resear		!			
330 Data Acquisition Research				1	105.0
340 Planning and Consultation	4	108.1			125.3
350 Communications	21	458.8			650.5
360 EDP Services	4	102.1	2.9		105.0
370 Training	1	19.7			21.3
380 Data Acquisition Services	13	346.7			623.6
390 Management	2	67.8		· Control of the cont	71.9
395 Management Support	7	204.2			
300 TOTAL(SA-2)	61	1522.7	865.8	242.0	2630.5
			1006.0	242.0	7787.9
100 TOTAL (SA-1)	222	5619.0	1926.9	242.0	1/0/.9

# SUB-ACTIVITY: 400 CLIMATE SERVICES

1981-82 Budget by Sub-Stb-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: FIELD SERVICES DIRECTORATE - ATLANTIC REGION

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services					
411 Climate Services	3	60.5	29.1		89.6
420 Reg. Consultation/Appl.	8	249.6	31.1		280.7
430 Nat. Consultation/Dev.		_			
410 TOTAL(SA-2)	11	310.1	60.2		370.3
450 Climate Research					
451 Numerical Modelling					
452 Diagnostics					
453 Processes					
450 TOTAL(SA-2)					
460 Climate Prog. Support System					
461 EDP Services					
462 Management	2	58.9	2.1		61.0
463 Management Support					
460 TOTAL(SA-2)	2	58.9	2.1		61.0
400 TOTAL (SA-1)	13	369.0	62.3		431.3

# SUB-ACTIVITY: 800 MANAGEMENT AND COMMON SUPPORT SYSTEMS

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

# ORGANIZATION: FIELD SERVICES DIRECTORATE - ATLANTIC REGION

Sub-Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
810 Management					
811 Departmental Management		1			
820 Management Support					i i
810 TOTAL (SA-2)					
830 Common Support Services					
831 Personnel Services			38.0		38.0
840 Financial Services		1			
850 General Administration		1			ĺ
860 Public Information					İ
870 Publications		1			İ
880 Library Services		1			İ
890 Grants/Contributions	1				i
830 TOTAL (SA-2)			38.0		38.0
800 TOTAL (SA-1)			38.0		38.0

1981-82 Budget by Sub-Sub-Activity (SA-2)ard Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: FIELD SERVICES DIRECTORATE - QUEBEC REGION

Sub-Sub-Sub-Activity	PY	SALARY	O&M	CAPITAL	TOTAL
110 Public Weather Services					
111 Forecast Operations	31	991.1	1.5		992.6
112 Provision of Services	29	855.8	134.1		989.9
110 TOTAL(SA-2)	60	1846.9	135.6		1982.5
120 Marine Weather Services		<u>-</u>			
121 Forecast Operations		ĺ			
122 Provision of Services		1		1	
120 TOTAL(SA-2)		T		I	
130 Aviation Weather Services					
131 Forecast Operations	5	149.1			149.1
132 Provision of Services	17	438.1	61.2		499.3
138 Aviation Observations	5	88.8	13.4		102.2
130 TOTAL(SA-2)	27	676.0	74.6		750.6
140 Economic Weather Services		T			
141 Forecast Operations	6	132.0	4.0		136.0
142 Provision of Services			1		
140 TOTAL(SA-2)	6	132.0	4.0		136.0
150 Canadian Forces Wx Services					
151 Forecasting and Briefing		1			
160 Data		1	1	1	
170 Consultation and Coord.	1	1		1	
180 CFWS Support Systems					
150 TOTAL(SA-2)					
200 Data					
210 Surface Wx Observations	29	721.0	525.8		1246.8
220 Upper Air Stations	24	749.5	750.9		1500.4
230 Other Observations			83.2		83.2
200 TOTAL(SA-2)	53	1470.5	1359.9		2830.4
300 Wx. Services Support Systems					
301 CMC	İ	j			
310 Forecast Operations Suppor	t 8	217.9	159.4	3.0	380.3
320 Forecast Production Research					
330 Data Acquisition Research		ĺ			
340 Planning and Consultation	3	88.4	12.1	6.0	106.5
350 Communications	12	273.1	4.6		277.7
360 EDP Services	3		1.5		96.9
370 Training	i		34.0		34.0
380 Data Acquisition Services	18	506.4	564.0		1222.9
390 Management	2	63.5	2.5		66.0
395 Management Support	9	224.8	370.3		595.1
300 TOTAL(SA-2)	55	1469.5	1148.4		2779.4
	1				
100 TOTAL (SA-1)	201	5594.9	2722.5	161.5	8478.9

## SUB-ACTIVITY: 400 CLIMATE SERVICES

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3)
. (Nearest \$000)

# ORGANIZATION: FIELD SERVICES DIRECTORATE - QUEBEC REGION

Sub-Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services					
411 Climate Services	1	27.1	440.5		467.6
420 Reg. Consultation/Appl.	4	132.9	4.5	3.5	140.9
430 Nat. Consultation/Dev.					1
410 TOTAL(SA-2)	5	160.0	445.0	3.5	608.5
450 Climate Research					
451 Numerical Modelling					
452 Diagnostics					
453 Processes					
450 TOTAL(SA-2)					
460 Climate Prog. Support System					
461 EDP Services					
462 Management	1	36.8	0.8		37.6
463 Management Support					1
460 TOTAL(SA-2)	1	36.8	0.8		37.6
400 TOTAL (SA-1)	6	196.8	445.8	3.5	646.1

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

# ORGANIZATION: FIELD SERVICES DIRECTORATE - ONTARIO REGION

Sub-Sub-Sub-Activity	PY	SALARY	O&M	CAPITAL	TOTAL
110 Public Weather Services					
111 Forecast Operations	8	273.7			273.7
112 Provision of Services	68	1202.2	8.0		1210.2
110 TOTAL(SA-2)	76	1475.9	8.0		1483.9
120 Marine Weather Services					1403.7
121 Forecast Operations	4	137.0			137.0
122 Provision of Services					
120 TOTAL(SA-2)	4	137.0			137.0
130 Aviation Weather Services	<u> </u>	137101			137.0
131 Forecast Operations	10	324.0	-		324.0
132 Provision of Services	7	519.6			519.6
138 Aviation Observations	i :	519.6			519.6
130 TOTAL(SA-2)	17	843.6			
140 Economic Weather Services	1 1/	043.01			843.6
141 Forecast Operations	4	125.0			105.0
142 Provision of Services	1 4	1 125.01			125.0
140 TOTAL(SA-2)	1	125 0			105.0
150 Canadian Forces Wx Service	4	125.0			125.0
	1				
151 Forecasting and Briefing					
200 5000					
170 Consultation and Coord.		!			
180 CFWS Support Systems					
150 TOTAL(SA-2)					
200 Data					
210 Surface Wx Observations	12	272.3	148.3		420.6
220 Upper Air Stations	3	166.1	66.7	9.0	241.8
230 Other Observations					
200 TOTAL(SA-2)	15	438.4	215.0	9.0	662.4
300 Wx. Services Support Systems					
301 CMC			1		
310 Forecast Operations Support	t 6	207.0	144.4	15.0	366.4
320 Forecast Production Research	ch		1		
330 Data Acquisition Research				1	
340 Planning and Consultation	4	90.8	100.5	30.0	221.3
350 Communications	7	174.7			174.7
360 EDP Services	3	81.2			81.2
370 Training			İ	İ	
380 Data Acquisition Services	15	365.0	201.0	78.0	644.0
390 Management	4	63.8	6.5		87.3
395 Management Support	9	215.4	255.6		471.0
300 TOTAL(SA-2)	48	1197.9	708.0	140.0	2045.9
500 TOTAL (Dr. 2)	1 -10	117/09	700.01	1-10.01	2043.5
100 TOTAL (SA-1)	164	4217.8	931.0	149.0	5297.8
100 IOIUU (DV-I)	1 10-1	721/00	221.01	147.01	5257.0

# SUB-ACTIVITY: 400 CLIMATE SERVICES

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

### ORGANIZATION: FIELD SERVICES DIRECTORATE - ONTARIO REGION

Sub-Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services				,	
411 Climate Services	5	116.2	34.8	3.0	154.0
420 Reg. Consultation/Appl.	4	125.8	7.8		133.6
430 Nat. Consultation/Dev.					
410 TOTAL(SA-2)	9	242.0	42.6	3.0	287.6
450 Climate Research					
451 Numerical Modelling					
452 Diagnostics					
453 Processes					
450 TOTAL(SA-2)					
460 Climate Prog. Support System					
461 EDP Services					
462 Management	2	60.2	6.4	8.0	74.6
463 Management Support					
460 TOTAL(SA-2)	2	60.2	6.4	8.0	74.6
400 TOTAL (SA-1)	11	302.2	49.0	11.0	362.2

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: FIELD SERVICES DIRECTORATE - CENTRAL REGION

Sub-Sub-Activity	PY	SALARY	O&M	CAPITAL	TOTAL
110 Public Weather Services					
111 Forecast Operations	42	1062.8			1062.8
112 Provision of Services	36	1134.5	206.8		1341.3
110 TOTAL(SA-2)	78	2197.3	206.8		2404.1
120 Marine Weather Services					210111
121 Forecast Operations	i i	į	i		
122 Provision of Services	i i	į	i	i	
120 TOTAL(SA-2)	İ	<del>-</del>	i		
130 Aviation Weather Services	İ	i	i	·	
131 Forecast Operations	10	289.0	2.0	i	291.0
132 Provision of Services	1	20000	2,01	i	271.0
138 Aviation Observations	i i	i	ļ		
130 TOTAL(SA-2)	10	289.0	2.0		291.0
140 Economic Weather Services	1 10	209.01	2.01		291.0
141 Forecast Operations			i		
142 Provision of Services	1	1		1	
	-				
140 TOTAL(SA-2)					
150 Canadian Forces Wx Services				1	
151 Forecasting and Briefing			!		
160 Data					
170 Consultation and Coord.		!			
180 CFWS Support Systems					
150 TOTAL(SA-2)					
200 Data					
210 Surface Wx Observations	31	802.0	940.0		1742.0
220 Upper Air Stations	55	1874.1	2193.5		4067.6
230 Other Observations					
200 TOTAL(SA-2)	86	2676.1	3133.5		5809.6
300 Wx. Services Support Systems					
301 CMC					
310 Forecast Operations Suppor	t 6	156.5	76.8		233.3
320 Forecast Production Resear					
330 Data Acquisition Research					
340 Planning and Consultation	5	163.2	9.5		172.7
350 Communications	13	282.1			282.1
360 EDP Services	3	94.3	38.7		133.0
370 Training	i _		60.5		60.5
380 Data Acquisition Services	41	1038.7	1008.3		2047.0
390 Management	2	59.9	6.0		65.9
395 Management Support	14	282.3	430.3		1032.6
300 TOTAL(SA-2)	84	2077.0	1630.1	320.0	4027.1
300 TOTAL (SA-2)	1 04	2077.01	1030.1	320.01	1027.1
100 TOTAL (SA-1)	258	7239.4	4972.4	320.0	12531.8
TOO TOTIME (M. T.)	, 200				

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## SUB-ACTIVITY: 400 CLIMATE SERVICES

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

# ORGANIZATION: FIELD SERVICES DIRECTORATE - CENTRAL REGION

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services					
411 Climate Services	3	57.9	48.8		106.7
420 Reg. Consultation/Appl.	7	220.9	14.1		235.0
430 Nat. Consultation/Dev.					
410 TOTAL(SA-2)	10	278.8	62.9		341.7
450 Climate Research					
451 Numerical Modelling					
452 Diagnostics					.
453 Processes					
450 TOTAL(SA-2)					
460 Climate Prog. Support System					
461 EDP Services					
462 Management	2	58.8	5.0		63.8
463 Management Support					
460 TOTAL(SA-2)	2	58.8	5.0		63.8
400 TOTAL (SA-1)	12	337.6	67.9		405.5

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) . (Nearest \$000)

# ORGANIZATION: FIELD SERVICES DIRECTORATE - WESTERN REGION

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
lll Forecast Operations	29	832.8			832.8
112 Provision of Services	57	1929.2	166.8		2096.0
110 TOTAL(SA-2)	86	2762.0	166.8		2928.8
120 Marine Weather Services					2,720.0
121 Forecast Operations	3	100.0			100.0
122 Provision of Services					
120 TOTAL(SA-2)	3	100.0			100.0
130 Aviation Weather Services	Ť				100.0
131 Forecast Operations	16	430.0			430.0
132 Provision of Services	19	97.5	37.0		134.5
138 Aviation Observations	2	39.0			39.0
130 TOTAL(SA-2)	37	566.5	37.0		603.5
140 Economic Weather Services	1	1 300.31	37.01		003.3
141 Forecast Operations	5	190.4			190.4
142 Provision of Services		150.4	i		150.4
140 TOTAL(SA-2)	<del> </del> 5	190.4			190.4
150 Canadian Forces Wx Services	1	170.4			190.4
151 Forecasting and Briefing	İ	i i	i		
160 Data	i	i			
170 Consultation and Coord.	İ	i			
180 CFVS Support Systems	İ	i i	i	i	
150 TOTAL(SA-2)	<del> </del>				
200 Data					
210 Surface Wx Observations	29	818.7	122.0		940.7
220 Upper Air Stations	32	1128.2	934.1		2062.3
230 Other Observations		1120.21			2002.5
200 TOTAL(SA-2)	61	1946.9	1056.1		3003.0
300 Wx. Services Support Systems		1540.51	1030.11		3003.0
301 CMC	1		i		
310 Forecast Operations Support	t 17	515.8	291.6	20.0	827.4
320 Forecast Production Research		1 313.01	201.01	20.01	02/64
330 Data Acquisition Research	1				
340 Planning and Consultation	2	92.5	6.0		98.5
350 Communications	12	329.0	51.5		
360 EDP Services	4	75.0	31.3		380.5 75.0
370 Training	1 4	1 75.01	FO F		
380 Data Acquisition Services	29	757.7	52.5 205.8	291.5	52.5 1255.0
390 Management	3	65.0	624.2	291.5	689.2
395 Management Support	1 12	194.9	643.3	0 5	
300 TOTAL(SA-2)	79			8.5	846.7
300 TOTAL(5A-2)	19	2029.9	1874.9	320.0	4224.8
100 TOTAL (SA-1)	271	7595.7	3134.8	320.0	11050.5
100 1014F (2V-T)	1 2/1	1595./	3134.8	320.01	11020.5

## SUB-ACTIVITY: 400 CLIMATE SERVICES

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

## ORGANIZATION: FIELD SERVICES DIRECTORATE - WESTERN REGION

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services					
411 Climate Services	4	78.2	59.5		137.7
420 Reg. Consultation/Appl.	2	67.6	1.0		68.6
430 Nat. Consultation/Dev.	1	22.0	4.7		26.7
410 TOTAL(SA-2)	7	167.8	65.2		233.0
450 Climate Research					
451 Numerical Modelling					
452 Diagnostics					
453 Processes					
450 TOTAL(SA-2)					
460 Climate Prog. Support System					
461 EDP Services					
462 Management	3	62.5	10.8		73.3
463 Management Support					
460 TOTAL(SA-2)	3	62.5	10.8		73.3
400 TOTAL (SA-1)	10	230.3	76.0		306.3

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: FIELD SERVICES DIRECTORATE - PACIFIC REGION

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					1011111
111 Forecast Operations	23	755.2	16.4		771.6
112 Provision of Services	38	872.8	48.7		921.5
110 TOTAL(SA-2)	61	1628.0	65.1		1693.1
120 Marine Weather Services	<u> </u>	1020.0	03.11		1093.1
121 Forecast Operations	i	i i	i	i	
122 Provision of Services	i	i i	i		
120 TOTAL(SA-2)	<del></del>	ii			
130 Aviation Weather Services	<u> </u>	<del> </del>			
131 Forecast Operations	5	150.0			150.0
132 Provision of Services	7	166.8	12.1	,	178.9
138 Aviation Observations	8	171.2	443.8		615.0
130 TOTAL(SA-2)	20	488.0	455.9		943.9
140 Economic Weather Services	1 20	700.01	700.01		943.9
141 Forecast Operations	1 1	35.0			35.0
142 Provision of Services			20.4		20.4
140 TOTAL(SA-2)	1	35.0	20.4		
150 Canadian Forces Wx Services		33.01	20.41		55.4
151 Forecasting and Briefing				ļ	
160 Data		i i		1	
170 Consultation and Coord.	i			!	
180 CFWS Support Systems				1	
150 TOTAL(SA-2)					
200 Data		-			
210 Surface Wx Observations	28	378.5	136.8		515.3
220 Upper Air Stations	19	588.1	5059.8		5647.9
230 Other Observations	5	185.0		20.0	205.0
200 TOTAL(SA-2)	52	1151.6	5196.6	20.0	6368.2
300 Wx. Services Support Systems		1131.01	3130.01	20.01	0300.2
301 CMC		i	í	i	
310 Forecast Operations Support	5	171.2	25.8		197.0
320 Forecast Production Research		171.2			157.0
330 Data Acquisition Research					
340 Planning and Consultation	3	82.3	9.5		91.8
350 Communications	9	239.6	- 115.1		354.7
360 EDP Services	2	57.6	48.1		105.7
370 Training		37.61	15.0		15.0
380 Data Acquisition Services	18	517.7	414.0	157.0	1088.7
390 Management	2	58.5	5.5	6.0	70.0
395 Management Support	9	169.1	176.0	2.0	347.1
300 TOTAL(SA-2)	48	1296.0			2270.0
300 TOTAL(3A-2)	48	1290.0	809.0	165.0	22/0.01
100 TOTAL (SA-1)	182	4598.6	6547.0	185.0	11330.6

# SUB-ACTIVITY: 400 CLIMATE SERVICES

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

## ORGANIZATION: FIELD SERVICES DIRECTORATE - PACIFIC REGION

Sub-Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services					
411 Climate Services	5	80.1	62.5		142.6
420 Reg. Consultation/Appl.	4	115.4	8.0		123.4
430 Nat. Consultation/Dev.					
410 TOTAL(SA-2)	9	195.5	70.5		266.0
450 Climate Research					
451 Numerical Modelling					
452 Diagnostics					
453 Processes					
450 TOTAL(SA-2)					
460 Climate Prog. Support System					
461 EDP Services					
462 Management	2	46.9	4.8		51.7
463 Management Support					
460 TOTAL(SA-2)	2	46.9	4.8		51.7
400 TOTAL (SA-1)	11	242.4	75.3		317.7

## SUB-ACTIVITY: 800 MANAGEMENT AND COMMON SUPPORT SYSTEMS

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) . (Nearest \$000) . ;

ORGANIZATION: FIELD SERVICES DIRECTORATE - PACIFIC REGION

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
810 Management					
811 Departmental Management					
820 Management Support					i i
810 TOTAL (SA-2)					
830 Common Support Services					
831 Personnel Services			3.0		3.0
840 Financial Services					
850 General Administration					
860 Public Information			4.0		4.0
870 Publications					
880 Library Services					
890 Grants/Contributions					
830 TOTAL (SA-2)			7.0		7.0
800 TOTAL (SA-1)	0	0.0	7.0		7.0

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3)\* (Nearest \$000)

### ORGANIZATION: ATMOSPHERIC RESEARCH DIRECTORATE

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
lll Forecast Operations					
112 Provision of Services		1		1	
110 TOTAL(SA-2)					
120 Marine Weather Services					
121 Forecast Operations				1	
122 Provision of Services		1		!	
120 TOTAL(SA-2)					
130 Aviation Weather Services					
131 Forecast Operations					
132 Provision of Services			1		
138 Aviation Observations	1	1			
130 TOTAL(SA-2)					
140 Economic Weather Services					
141 Forecast Operations			- 1		
142 Provision of Services					
140 TOTAL(SA-2)					
150 Canadian Forces Wx Services					
151 Forecasting and Briefing	ĺ				
160 Data		ĺ			
170 Consultation and Coord.					
180 CFWS Support Systems		ĺ			
150 TOTAL(SA-2)					
200 Data					
210 Surface Wx Observations		İ			
220 Upper Air Stations		İ			-
230 Other Observations		İ			
200 TOTAL(SA-2)					
300 Wx. Services Support Systems					
301 CMC					
310 Forecast Operations Support					
320 Forecast Production Research		1425.8	299.5	85.0	1810.3
330 Data Acquisition Research		711.6	338.3	291.0	1340.9
340 Planning and Consultation					
350 Communications		i i			
360 EDP Services		į į			
370 Training		į i			
380 Data Acquisition Services		į i		İ	
390 Management	2	70.8	32.2		103.0
395 Management Support	2	50.8			60.0
300 TOTAL(SA-2)	66	2259.0			
	1	2233.01	3,3.2	3,330	
100 TOTAL (SA-1)	66	2259.0	679.2	376.0	3314.2

## SUB-ACTIVITY: 600 AIR QUALITY SERVICES AND ATMOSPHERIC RESEARCH

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

# ORGANIZATION: ATMOSPHERIC RESEARCH DIRECTORATE

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
610 Air Quality Services					
610 Air Quality Services				1	
610 TOTAL (SA-2)					
630 Air Quality Research					
631 Dynamics	20	604.0	211.2	103.0	918.2
635 Air Quality Monitoring	5	119.5	1.9		121.4
640 Impacts and Criteria	12	293.1	105.2	64.0	462.3
650 Processes	22	831.8	217.9	79.0	1128.7
630 TOTAL (SA-2)	59	1848.4	536.2	246.0	2630.6
660 Research - Other					
661 Stratospheric Pollution	6	215.9	363.4	128.0	707.3
662 Atmospheric Radiation	4	142.0	10.0	5.0	157.0
663 Ozone Monitoring	7	227.9	40.0	35.0	302.9
664 Solar Energy			200.0	100.0	300.0
665 Wind Energy	2	72.0	65.8	6.0	143.8
666 Cloud/Precip. Physics	3	104.8	31.8	55.0	191.6
667 Weather Modification	6	174.7	118.0	33.0	325.7
660 TOTAL (SA-2)	28	937.3	829.0	362.0	2128.3
670 Air Quality and Research Supp	∞rt				
671 Management	1 12	393.0	203.6	43.4	640.0
672 Management Support	1				
673 Instrument Support to Res.	1				
674 PhD Leave	3	48.0	2.5		50.5
675 EDP Services					
676 Visiting Fellowships			105.4		105.4
670 TOTALS (SA-2)	15	441.0	311.5	43.4	795.9
600 TOTAL (SA-1)	102	3226.7	1676.7	651.4	5554.8

# SUB-ACTIVITY: 700 DEPARTMENTAL INTEGRATED PROGRAMS

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

### ORGANIZATION: ATMOSPHERIC RESEARCH DIRECTORATE

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
710 EARP					
710 EARP					
710 TOTALS(SA-2)					
720 LRTAP					
720 LRTAP	2	50.0	727.0	94.0	871.0
720 TOTALS (SA-2)					
730 Toxic Chemicals					
730 Toxic Chemicals	-				
730 TOTALS (SA-2)					
740 Great Lakes Water Quality					
740 Great Lakes Water Quality					
740 TOTALS(SA-2)					
750 Baseline Studies					
750 Baseline Studies					
750 TOTALS(SA-2)					
700 TOTAL (SA-1)	2	50.0	727.0	94.0	871.0

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3)
. (Nearest \$000) '

ORGANIZATION: ATMOSPHERIC RESEARCH DIRECTORATE - METEOROLOGICAL SERVICES RESEARCH BRANCH

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
111 Forecast Operations					
112 Provision of Services		1		-	
110 TOTAL(SA-2)					
120 Marine Weather Services					
121 Forecast Operations		İ			
122 Provision of Services		İ			
120 TOTAL(SA-2)					
130 Aviation Weather Services					
131 Forecast Operations		i i			
132 Provision of Services		i			
138 Aviation Observations		i			
130 TOTAL(SA-2)					
140 Economic Weather Services					
141 Forecast Operations					
142 Provision of Services					
140 TOTAL(SA-2) 150 Canadian Forces Wx Services					
151 Forecasting and Briefing				l.	
160 Data		!			
170 Consultation and Coord.					
180 CFWS Support Systems	,				
150 TOTAL(SA-2)					
200 Data					
210 Surface Wx Observations					
220 Upper Air Stations					
230 Other Observations					
200 TOTAL(SA-2)					
300 Wx. Services Support Systems					
301 CMC					
310 Forecast Operations Support	_				
320 Forecast Production Research		1425.8	299.5	85.0	1810.3
330 Data Acquisition Research	18	564.9			
340 Planning and Consultation	1	3010	132.0	2710	102,10
350 Communications					
360 EDP Services	l I				
	1				
370 Training	[				
380 Data Acquisition Services	1 2	70.0	22.2		102 0
390 Management	2	70.8			103.0
395 Management Support	2	50.8		25.5	60.0
300 TOTAL(SA-2)	63	2112.3	532.9	356.0	3001.2
100 momat (CA 1)	62	2112.3	532.9	356.0	3001.2
100 TOTAL (SA-1)	63	2112.3	532.9	330.0	3001.2

## SUB-ACTIVITY: 600 AIR QUALITY SERVICES AND ATMOSPHERIC RESEARCH

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: ATMOSPHERIC RESEARCH DIRECTORATE
METEOROLOGICAL SERVICES RESEARCH BRANCH

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
610 Air Quality Services					
610 Air Quality Services			25		
610 TOTAL (SA-2)					
630 Air Quality Research	_				
631 Dynamics					
635 Air Quality Monitoring			l		
640 Impacts and Criteria					
650 Processes					
630 TOTAL (SA-2)					
660 Research - Other					
661 Stratospheric Pollution					
662 Atmospheric Radiation					
663 Ozone Monitoring					
664 Solar Energy					
665 Wind Energy	2	72.0	65.8	6.0	143.8
666 Cloud/Precip. Physics					
667 Weather Modification					
660 TOTAL (SA-2)	2	72.0	65.8	6.0	143.8
670 Air Quality and Research Supp	port				
671 Management					
672 Management Support			/		
673 Instrument Support to Res.					
674 PhD Leave					
675 EDP Services					
676 Visiting Fellowships	1				
670 TOTALS (SA-2)					
600 TOTAL (SA-1)	2	72.0	65.8	6.0	143.8

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: ATMOSPHERIC RESEARCH DIRECTORATE
ATMOSPHERIC PROCESSES RESEARCH BRANCH

Sub-Sub-Sub-Activity	PY	SALARY	O&M	CAPITAL	TOTAL
110 Public Weather Services				<u> </u>	10111
111 Forecast Operations		ĺ			i
112 Provision of Services		i			i
110 TOTAL(SA-2)	i	<del>-</del>			
120 Marine Weather Services					
121 Forecast Operations	i	i	i		
122 Provision of Services		i			i
120 TOTAL(SA-2)					
130 Aviation Weather Services	i				
131 Forecast Operations	ı İ	i			
132 Provision of Services	i				
138 Aviation Observations		i			
130 TOTAL(SA-2)		·			
140 Economic Weather Services					
141 Forecast Operations					
142 Provision of Services					
140 TOTAL(SA-2)					
150 Canadian Forces Wx Services					
151 Forecasting and Briefing					
160 Data					
170 Consultation and Coord.	! 				
180 CFWS Support Systems			9		
150 TOTAL(SA-2)					
200 Data					
210 Surface Wx Observations		i			
220 Upper Air Stations					
230 Other Observations	i				İ
200 TOTAL (SA-2)	<u> </u>				
300 Wx. Services Support Systems					
301 CMC					
310 Forecast Operations Suppor	-				İ
320 Forecast Production Research					ĺ
330 Data Acquisition Research	3	146.7	146.3	20.0	313.0
340 Planning and Consultation	1	1 100 /		2000	
350 Communications	1				İ
360 EDP Services					
370 Training	i	ĺ	l		1
380 Data Acquisition Services	1		İ		İ
390 Management			İ		İ
395 Management Support	i	1			
300 TOTAL(SA-2)	3	146.7	146.3	20.0	313.0
300 101AL(3A-2)	<del>                                     </del>	140.7	11000	2000	
100 TOTAL (SA-1)	3	146.7	146.3	20.0	313.0

# SUB-ACTIVITY: 600 AIR QUALITY SERVICES AND ATMOSPHERIC RESEARCH

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: ATMOSPHEPIC RESEARCH DIRECTORATE
ATMOSPHERIC PROCESSES RESEARCH BRANCH

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
610 Air Quality Services					
610 Air Quality Services		! !			ĺ
610 TOTAL (SA-2)					
630 Air Quality Research			-		
631 Dynamics					ĺ
635 Air Quality Monitoring			1		1
640 Impacts and Criteria					i
650 Processes					i
630 TOTAL (SA-2)					
660 Research - Other					
661 Stratospheric Pollution	6	215.9	363.4	128.0	707.3
662 Atmospheric Radiation	4	142.0	10.0	5.01	157.0
663 Ozone Monitoring	7	227.9	40.0	35.0	302.9
664 Solar Energy			200.0	100.0	300.0
665 Wind Energy					
666 Cloud/Precip. Physics	3	104.8	31.8	55.0	191.6
667 Weather Modification	6	174.7	118.0	33.0	325.7
660 TOTAL (SA-2)	26	865.3	763.2	356.0	1984.5
670 Air Quality and Research Supp	port				
671 Management	2	70.4	25.5	4.0	99.9
672 Management Support					
673 Instrument Support to Res.					1
674 PhD Leave			1		
675 EDP Services			İ		ĺ
676 Visiting Fellowships				İ	i
670 TOTALS (SA-2)	2	70.4	25.5	4.0	99.9
600 TOTAL (SA-1)	28	935.7	788.7	360.0	2084.4

# SUB-ACTIVITY: 600 AIR QUALITY SERVICES AND ATMOSPHERIC RESEARCH

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: ATMOSPHERIC RESEARCH DIRECTORATE
AIR QUALITY AND INTER-ENVIRONMENTAL RESEARCH BRANCH

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
610 Air Quality Services					
610 Air Quality Services		1 1	I		i
610 TOTAL (SA-2)					
630 Air Quality Research					
631 Dynamics	20	604.0	211.2	103.0	918.2
635 Air Quality Monitoring	5	119.5	1.9		121.4
640 Impacts and Criteria	12	293.1	105.2	64.0	462.3
650 Processes	22	831.8	217.9	79.0	1128.7
630 TOTAL (SA-2)	59	1848.4	536.2	246.0	2630.6
660 Research - Other					
661 Stratospheric Pollution	1				
662 Atmospheric Radiation				i	
663 Ozone Monitoring	1		I		
664 Solar Energy	!				
665 Wind Energy					
666 Cloud/Precip. Physics		,			
667 Weather Modification					
660 TOTAL (SA-2)					
670 Air Quality and Research Supp	port				
671 Management	6	179.0	122.2	24.0	325.2
672 Management Support				1	
673 Instrument Support to Res.				1	
674 PhD Leave				ļ	
675 EDP Services		,	I	1	
676 Visiting Fellowships					
670 TOTALS (SA-2)	6	179.0	122.2	24.0	325.2
600 momas /ga 1)					
600 TOTAL (SA-1)	65	2027.4	658.4	270.0	2955.8

# SUB-ACTIVITY: 700 DEPARTMENTAL INTEGRATED PROGRAMS

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: ATMOSPHERIC RESEARCH DIRECTORATE - AIR QUALITY AND INTER-ENVIRONMENTAL RESEARCH BRANCH

Sub-Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
710 EARP					
710 EARP					
710 TOTALS(SA-2)					
720 LRTAP					
720 LRTAP	2	50.0	727.0	94.0	871.0
720 TOTALS (SA-2)					
730 Toxic Chemicals					
730 Toxic Chemicals					
730 TOTALS (SA-2)					
740 Great Lakes Water Quality					
740 Great Lakes Water Quality					
740 TOTALS(SA-2)					
750 Baseline Studies					
750 Baseline Studies					
750 TOTALS(SA-2)					
700 TOTAL (SA-1)	2	50.0	727.0	94.0	871.0

#### SUB-ACTIVITY: 600 AIR QUALITY SERVICES AND ATMOSPHERIC RESEARCH

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: ATMOSPHERIC RESEARCH DIRECTORATE - DIRECTOR GENERAL'S OFFICE

Sub-Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
610 Air Quality Services					
610 Air Quality Services					
610 TOTAL (SA-2)					
630 Air Quality Research					
631 Dynamics		1			
635 Air Quality Monitoring			]		
640 Impacts and Criteria					l
650 Processes					
630 TOTAL (SA-2)					
660 Research - Other					ļ
661 Stratospheric Pollution					
662 Atmospheric Radiation					
663 Ozone Monitoring					
664 Solar Energy					
665 Wind Energy					
666 Cloud/Precip. Physics					
667 Weather Modification					
660 TOTAL (SA-2)					
670 Air Quality and Research Supp					
671 Management	7*	143.6	55.9	15.4	214.9
672 Management Support					
673 Instrument Support to Res.					
674 PhD Leave	_	48.0	2.5		50.5
675 EDP Services					
676 Visiting Fellowships			105.4		105.4
670 TOTALS (SA-2)	7*	191.6	163.8	15.4	370.8
		101 6	162.0	15.4	270.0
600 TOTAL (SA-1)	7*	191.6	163.8	15.4	370.8

<sup>\*</sup> Three PY's are for post M.Sc. project meteorologists. PY's are held in the DG's office but salaries are distributed among Branches.

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
lll Forecast Operations		1	1	1	2
112 Provision of Services					
110 TOTAL(SA-2)					
120 Marine Weather Services					
121 Forecast Operations				1	
122 Provision of Services		1	1	1	
120 TOTAL(SA-2)					
130 Aviation Weather Services					
131 Forecast Operations					1
132 Provision of Services				1	
138 Aviation Observations		1			1
130 TOTAL(SA-2)			T		
140 Economic Weather Services					
141 Forecast Operations					
142 Provision of Services			I	1	
140 TOTAL(SA-2)					
150 Canadian Forces Wx Services					
151 Forecasting and Briefing			1		
160 Data					
170 Consultation and Coord.				1	
180 CFWS Support Systems			1		
150 TOTAL(SA-2)					
200 Data					
210 Surface Wx Observations	1				1
220 Upper Air Stations					
230 Other Observations		į į			
200 TOTAL(SA-2)					
300 Wx. Services Support Systems					
301 CMC		İ	İ		
310 Forecast Operations Suppor	t				
320 Forecast Production Research					
330 Data Acquisition Research	1	17.2			17.2
340 Planning and Consultation					
350 Communications					
360 EDP Services	44	1180.3	1635.7	109.0	2925.0
370 Training	76	2268.5	417.7		2736.2
380 Data Acquisition Services	100	2863.3	619.2		3824.4
390 Management	1	40.0	5.0		45.0
395 Management Support	3	54.1	10.0		64.1
300 TOTAL(SA-2)	225	6423.4	2687.6	500.9	9611.9
100 TOTAL (SA-1)	225	6423.4	2687.6	500.9	9611.9

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

Sub-Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services					
411 Climate Services					
420 Reg. Consultation/Appl.					1
430 Nat. Consultation/Dev.			1		
410 TOTAL(SA-2)					
450 Climate Research					
451 Numerical Modelling					
452 Diagnostics	1				
453 Processes					
450 TOTAL(SA-2)					
460 Climate Prog. Support System					
461 EDP Services	40	882.7	1040.4		1923.1
462 Management					
463 Management Support					
460 TOTAL(SA-2)	40	882.7	1040.4		1923.1
400 TOTAL (SA-1)	40	882.7	1040.4		1923.1

## SUB-ACTIVITY: 500 ICE SERVICES

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
510 Ice Reconnaissance					
510 Ice Reconnaissance	28	902.2	7751.6		8653.8
510 TOTAL(SA-2)	28	902.2	7751.6		8653.8
520 Ice Forecasting					
521 Ice Forecasting Centre	13	401.5	50.1		451.6
522 Forecast Development	1	31.0	4.8		35.8
520 TOTAL(SA-2)	14	432.5	54.9		487.4
530 Ice Climate Services					
530 Ice Climate Services	4	140.9	19.5		160.4
530 TOTAL(SA-2)	4	140.9	19.5		160.4
540 Ice Services Support Systems					
541 Communication/Computers			145.1		145.1
542 Data System Dev./Maint.	1	40.0	390.4	#3000m0	430.4
543 Research	1	47.0	250.0	-	297.0
544 Management	2	58.0	18.5	10.0	86.5
545 Management Support	1	36.0	2.0		38.0
540 TOTAL(SA-2)	5	181.0	806.0	10.0	997.0
500 TOTAL (SA-1)	51	1656.6	8632.0	10.0	10298.6

# SUB-ACTIVITY: 600 AIR QUALITY SERVICES AND ATMOSPHERIC RESEARCH

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

Sub-Sub-Activity	PY	Salary	O&M	Capital	Total
610 Air Quality Services					
610 Air Quality Services					
610 TOTAL (SA-2)					
630 Air Quality Research					
631 Dynamics					1
635 Air Quality Monitoring				1	1
640 Impacts and Criteria					
650 Processes					1
630 TOTAL (SA-2)					
660 Research - Other					
661 Stratospheric Pollution					
662 Atmospheric Radiation					
663 Ozone Monitoring					
664 Solar Energy					
665 Wind Energy					
666 Cloud/Precip. Physics					
667 Weather Modification					1
660 TOTAL (SA-2)					
670 Air Quality and Research Supp	port				
671 Management					
672 Management Support					
673 Instrument Support to Res.					
674 PhD Leave					1
675 EDP Services	4	82.6		1	82.6
676 Visiting Fellowships					
670 TOTALS (SA-2)	4	82.6			82.6
600 TOTAL (SA-1)	4	82.6			82.6

#### SUB-ACTIVITY: 800 MANAGEMENT AND COMMON SUPPORT SYSTEMS

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

Sub-Sub-Activity	PY	Salary	O&M	Capital	Total
810 Management					
811 Departmental Management	-	,			
820 Management Support	4	101.3	39.5		140.8
810 TOTAL (SA-2)	4	101.3	39.5		140.8
830 Common Support Services					
831 Personnel Services					
840 Financial Services					
850 General Administration			1.0		1.0
860 Public Information					
870 Publications	3	14.9	27.3		42.2
880 Library Services	1				!!!
890 Grants/Contributions					
830 TOTAL (SA-2)	3	14.9	28.3		43.2
800 TOTAL (SA-1)	7	116.2	67.8		184.0

## SUB-ACTIVITY: 500 ICE SERVICËS

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: CENTRAL SERVICES DIRECTORATE - ICE BRANCH

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
510 Ice Reconnaissance					
510 Ice Reconnaissance	28	902.2	7751.6		8653.8
510 TOTAL(SA-2)	28	902.2	7751.6		8653.8
520 Ice Forecasting					
521 Ice Forecasting Centre	13	401.5	50.1		451.6
522 Forecast Development	1	31.0	4.8		35.8
520 TOTAL(SA-2)	14	432.5	54.9		487.4
530 Ice Climate Services					
530 Ice Climate Services	4	140.9	19.5		160.4
530 TOTAL(SA-2)	4	140.9	19.5		160.4
540 Ice Services Support Systems					
541 Communication/Computers			145.1		145.1
542 Data System Dev./Maint.	1	40.0	390.4		
543 Research	1	47.0	150.0	1	197.0
544 Management	2	58.0	18.5	10.0	86.5
545 Management Support	1	36.0	2.0		38.0
540 TOTAL(SA-2)	5	181.0	706.0	10.0	466.6
500 TOTAL (SA-1)	51	1656.6	8532.0	10.0	10198.6

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

# ORGANIZATION: CENTRAL SERVICES DIRECTORATE - TRAINING BRANCH

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
lll Forecast Operations					1
112 Provision of Services					
110 TOTAL(SA-2)				-	
120 Marine Weather Services					
121 Forecast Operations					İ
122 Provision of Services					İ
120 TOTAL(SA-2)					
130 Aviation Weather Services					i
131 Forecast Operations					i
132 Provision of Services					i
138 Aviation Observations					İ
130 TOTAL(SA-2)					
140 Economic Weather Services					
141 Forecast Operations		i			ĺ
142 Provision of Services					i i
140 TOTAL(SA-2)					
150 Canadian Forces Wx Service					
151 Forecasting and Briefing					ĺ
160 Data					i
170 Consultation and Coord.					i
180 CFWS Support Systems					i
150 TOTAL(SA-2)					·
200 Data					
210 Surface Wx Observations	ĺ				i
220 Upper Air Stations	i				i
230 Other Observations					
200 TOTAL(SA-2)					
300 Wx. Services Support Systems					
301 CMC	i	i		i	İ
310 Forecast Operations Support	- i			i	i
320 Forecast Production Research		i			i
330 Data Acquisition Research					i
340 Planning and Consultation	ĺ	i			i
350 Communications		i		i	i
360 EDP Services					
370 Training	76	2268.5	417.7	50.0	2736.2
380 Data Acquisition Services	/01	2200.5	<del>1</del> 1.°/	50.01	2/30.2
390 Management		1			
395 Management Support		l			
300 TOTAL(SA-2)	76	2268.5	417.7	50.0	2736.2
300 TOTAL(DA-2)	761	2200.5	41/•/	50.01	2/30.2
100 TOTAL (SA-1)	76	2268.5	417.7	50.0	2736.2

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: CENTRAL SERVICES DIRECTORATE - DATA ACQUISITION SERVICES BRANCH

Cub Cub Cub Activitus	D37	CALADIA	0014	G1 D T T 1	
Sub-Sub-Sub-Activity 110 Public Weather Services	PY	SALARY	O&M	CAPITAL	TOTAL
		1		1	
111 Forecast Operations	!	!			
112 Provision of Services					
110 TOTAL(SA-2)					
120 Marine Weather Services					
121 Forecast Operations					]
122 Provision of Services					
120 TOTAL(SA-2)					
130 Aviation Weather Services					
131 Forecast Operations					
132 Provision of Services					
138 Aviation Observations					
130 TOTAL(SA-2)					
140 Economic Weather Services					
141 Forecast Operations					
142 Provision of Services	i i	İ			İ
140 TOTAL(SA-2)	i i				
150 Canadian Forces Wx Service					
151 Forecasting and Briefing					i
160 Data	i i				
170 Consultation and Coord.	1 1				i
	! ! ! !				
180 CFWS Support Systems 150 TOTAL(SA-2)					
	<u> </u>				
200 Data	! ! ! !	-			
210 Surface Wx Observations	1 1				
220 Upper Air Stations	!!!				1
230 Other Observations					
200 TOTAL(SA-2)					
300 Wx. Services Support Systems	[				
301 CMC	!				
310 Forecast Operations Support					
320 Forecast Production Research	ch				
330 Data Acquisition Research					
340 Planning and Consultation				2 1	
350 Communications					
360 EDP Services					
370 Training					
380 Data Acquisition Services	100	2863.3	619.2	341.9	
390 Management	1	40.0	5.0		45.0
395 Management Support	3	54.1	10.0		64.1
300 TOTAL(SA-2)	104	2957.4	634.2	341.9	3933.5
100 TOTAL (SA-1)	104	2957.4	634.2	341.9	3933.5

# SUB-ACTIVITY: 800 MANAGEMENT AND COMMON SUPPORT SYSTEMS

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

# ORGANIZATION: CENTRAL SERVICES DIRECTORATE - DATA ACQUISITION SERVICES BRANCH

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
810 Management					
811 Departmental Management					
820 Management Support					
810 TOTAL (SA-2)					
830 Common Support Services		,			
831 Personnel Services					
840 Financial Services					
850 General Administration			1.0		1.0
860 Public Information					
870 Publications	3	14.9	27.3		42.2
880 Library Services					
890 Grants/Contributions					
830 TOTAL (SA-2)	3	14.9	28.3		43.2
				- "	
800 TOTAL (SA-1)	3	14.9	28.3		43.2

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: CENTRAL SERVICES DIRECTORATE - COMPUTING SERVICES BRANCH

Sub-Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
lll Forecast Operations	1		I		
112 Provision of Services	i	i	i	i	
110 TOTAL(SA-2)					
120 Marine Weather Services	i				
121 Forecast Operations	i	i	i	i	
122 Provision of Services	i	İ	i	İ	
120 TOTAL(SA-2)		i			
130 Aviation Weather Services					
131 Forecast Operations	i	İ	į	İ	
132 Provision of Services	i	i	i	İ	
138 Aviation Observations	i	i	i	i	
130 TOTAL(SA-2)					
140 Economic Weather Services					
141 Forecast Operations	i	i	i	İ	
142 Provision of Services	i	į	i	i	
140 TOTAL(SA-2)	T T				
150 Canadian Forces Wx Service		i			
151 Forecasting and Briefing	i			i	
160 Data				i	
170 Consultation and Coord.	i	i	i	i	
180 CFWS Support Systems		i			
150 TOTAL(SA-2)		i			
200 Data		i			
210 Surface Wx Observations		i	i		
220 Upper Air Stations	12	i		i	
230 Other Observations	i	i		i	
200 TOTAL(SA-2)	<u> </u>				
300 Wx. Services Support Systems					
301 CMC		i			
310 Forecast Operations Support	-				
320 Forecast Production Research		i			
330 Data Acquisition Research		i			
340 Planning and Consultation	1				
350 Communications					
	44	1180.3	1635.7	109.0	2925.0
360 EDP Services	( <del>1/1</del>	1100.3	1022.	109.0	2,2,5.0
370 Training 380 Data Acquisition Services					
390 Management	1				
395 Management Support 300 TOTAL(SA-2)	44	1180.3	1635.7	109.0	2925.0
300 TOTAL(SA-2)	44	1100.3	1055.7	100.0	2,23,0
100 TOTAL (SA-1)	44	1180.3	1635.7	109.0	2925.0

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

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# ORGANIZATION: CENTRAL SERVICES DIRECTORATE - COMPUTING SERVICES BRANCH

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services					
411 Climate Services					
420 Reg. Consultation/Appl.					
430 Nat. Consultation/Dev.					
410 TOTAL(SA-2)					
450 Climate Research					
451 Numerical Modelling					
452 Diagnostics					
453 Processes					
450 TOTAL(SA-2)					
460 Climate Prog. Support System					
461 EDP Services	40	882.7	1040.4		1923.1
462 Management					
463 Management Support					
460 TOTAL(SA-2)	40	882.7	1040.4		1923.1
400 TOTAL (SA-1)	40	882.7	1040.4		1923.1

# SUB-ACTIVITY: 600 AIR QUALITY SERVICES AND ATMOSPHERIC RESEARCH

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: CENTRAL SERVICES DIRECTORATE - COMPUTING SERVICES BRANCH

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
610 Air Quality Services					
610 Air Quality Services					
610 TOTAL (SA-2)					
630 Air Quality Research					
631 Dynamics					
635 Air Quality Monitoring					
640 Impacts and Criteria					
650 Processes					
630 TOTAL (SA-2)					
660 Research - Other					
661 Stratospheric Pollution					
662 Atmospheric Radiation					
663 Ozone Monitoring					
664 Solar Energy					
665 Wind Energy					
666 Cloud/Precip. Physics					
667 Weather Modification					
660 TOTAL (SA-2)					
670 Air Quality and Research Supp	port				
671 Management					
672 Management Support					
673 Instrument Support to Res.					
674 PhD Leave					
675 EDP Services	4	82.6			82.6
676 Visiting Fellowships					
670 TOTALS (SA-2)	4	82.6	-		82.6
400 momar (a) 1)					
600 TOTAL (SA-1)	4	82.6			82.6

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest, \$000)

## ORGANIZATION: CENTRAL SERVICES DIRECTORATE - DIRECTOR GENERAL'S OFFICE

Sub-Sub-Sub-Activity	PY	SALARY	M3O	CAPITAL	TOTAL
110 Public Weather Services	!				
. 111 Forecast Operations	!			1	l i
112 Provision of Services					
110 TOTAL(SA-2)					
120 Marine Weather Services					
121 Forecast Operations					
122 Provision of Services					
120 TOTAL(SA-2)					
130 Aviation Weather Services					
131 Forecast Operations					
132 Provision of Services	1				
138 Aviation Observations					
130 TOTAL(SA-2)					
140 Economic Weather Services	T				
141 Forecast Operations				1	
142 Provision of Services					
140 TOTAL(SA-2)	T				
150 Canadian Forces Wx Service					
151 Forecasting and Briefing					
160 Data				1	
170 Consultation and Coord.	1			1	
180 CFWS Support Systems	1			İ	İ
150 TOTAL(SA-2)					
200 Data	T				
210 Surface Wx Observations					
220 Upper Air Stations					
230 Other Observations	İ			1	İ
200 TOTAL(SA-2)	<u> </u>				
300 Wx. Services Support Systems	T				
301 QMC	1	İ		į i	İ
310 Forecast Operations Suppor	t	i i		İ	i i
320 Forecast Production Resear		İ			İ
330 Data Acquisition Research	1	17.2	-	supposes semp	17.2
340 Planning and Consultation	_				
350 Communications	İ	i i		l	
360 EDP Services	İ			İ	
370 Training	i			İ	i
380 Data Acquisition Services	i	į į		j	i
390 Management	İ	i		i	
395 Management Support	i	i		i	i
300 TOTAL(SA-2)	1	17.2	One one one	020-000 CE	17.2
	<del>                                     </del>	1/02			1/02
100 TOTAL (SA-1)	1	17.2			17.2

## SUB-ACTIVITY: 500 ICE SERVICES

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: CENTRAL SERVICES DIRECTORATE - DIRECTOR GENERAL'S OFFICE

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
510 Ice Reconnaissance					
510 Ice Reconnaissance					
510 TOTAL(SA-2)					
520 Ice Forecasting					
521 Ice Forecasting Centre					
522 Forecast Development					
520 TOTAL(SA-2)					
530 Ice Climate Services					
530 Ice Climate Services					
530 TOTAL(SA-2)					
540 Ice Services Support Systems					
541 Communication/Computers					
542 Data System Dev./Maint.					
543 Research			100.0		100.0
544 Management					
545 Management Support					
540 TOTAL(SA-2)			100.0		100.0
500 TOTAL (SA-1)			100.0		100.0

# SUB-ACTIVITY: 800 MANAGEMENT AND COMMON SUPPORT SYSTEMS

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

# ORGANIZATION: CENTRAL SERVICES DIRECTORATE - DIRECTOR GENERAL'S OFFICE

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
810 Management					
811 Departmental Management					
820 Management Support	4	101.3	39.5	-	140.8
810 TOTAL (SA-2)	4	101.3	39.5		140.8
830 Common Support Services					
831 Personnel Services					
840 Financial Services					
850 General Administration					
860 Public Information					
870 Publications			1		
880 Library Services					
890 Grants/Contributions					
830 TOTAL (SA-2)					
800 TOTAL (SA-1)	4	101.3	39.5		140.8

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: CANADIAN CLIMATE CENTRE

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services 411 Climate Services	l l 47	1056.8	<b>65</b> 01	25.0	
420 Reg. Consultation/Appl.	1 4/	1026.8	65.0	25.0	1146.8
430 Nat. Consultation/Dev.	46	1313.8	617.8	110.5	2042.1
410 TOTAL(SA-2)	93	2370.6	682.8	135.5	3188.9
450 Climate Research					
451 Numerical Modelling	8	288.3	15.7	3.0	307.0
452 Diagnostics	6	232.5	16.6		249.1
453 Processes	3	98.01	27.4	10.0	
450 TOTAL(SA-2)	17	618.8	59.7	13.0	691.5
460 Climate Prog. Support System					33113
461 EDP Services		l	i	i	i
462 Management	3	140.0	18.9		158.9
463 Management Support	6	107.4	200.1	8.2	315.7
460 TOTAL(SA-2)	9	247.4	219.0	8.2	474.6
400 TOTAL (SA-1)	119	3236.8	961.5	156.7	4355.0

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: CANADIAN CLIMATE CENTRE
CLIMATOLOGICAL APPLICATIONS BRANCH

Sub-Sub-Activity	PY	Salary	M3O	Capital	Total
410 Climate Services					
411 Climate Services	47	1056.8	65.0	25.0	1146.8
420 Reg. Consultation/Appl.				1	1
430 Nat. Consultation/Dev.	41	1189.8	610.8	100.5	1901.1
410 TOTAL(SA-2)	88	2246.6	675.8	125.5	3047.9
450 Climate Research					
451 Numerical Modelling			1		1
452 Diagnostics			1		
453 Processes	2	71.9	23.7	10.0	105.6
450 TOTAL(SA-2)	2	71.9	23.7	10.0	105.6
460 Climate Prog. Support System					
461 EDP Services					1
462 Management	1	46.0	8.0		54.0
463 Management Support	1	17.6	1.5		19.1
460 TOTAL(SA-2)	2	63.6	9.5		73.1
400 TOTAL (SA-1)	92	2382.1	709.0	135.5	3226.6

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: CANADIAN CLIMATE CENTRE - DIRECTOR GENERAL'S OFFICE

Sub-Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services					
411 Climate Services			1		1
420 Reg. Consultation/Appl.				1	i
430 Nat. Consultation/Dev.	5	124.0	7.0	10.0	141.0
410 TOTAL(SA-2)	5	124.0	7.0	10.0	141.0
450 Climate Research					
451 Numerical Modelling	8	288.3	15.7	3.0	307.0
452 Diagnostics	6	232.5	16.6		249.1
453 Processes	1	26.1	3.7		29.8
450 TOTAL(SA-2)	15	546.9	36.0	3.0	585.9
460 Climate Prog. Support System					
461 EDP Services		1		1	Ī
462 Management	2	94.01	10.9		104.9
463 Management Support	5	89.8	198.6	8.21	296.6
460 TOTAL(SA-2)	7	183.8	209.5	8.2	401.5
400 TOTAL (SA-1)	27	854.7	252.5	21.2	1128.4

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

## ORGANIZATION: CANADIAN FORCES WEATHER SERVICE

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
lll Forecast Operations			1		
112 Provision of Services					
110 TOTAL(SA-2)					
120 Marine Weather Services					
121 Forecast Operations			1		
122 Provision of Services					
120 TOTAL(SA-2)					
130 Aviation Weather Services					
131 Forecast Operations					
132 Provision of Services					
138 Aviation Observations			ĺ		
130 TOTAL(SA-2)		T T			
140 Economic Weather Services					
141 Forecast Operations			ĺ		
142 Provision of Services		İ	İ		
140 TOTAL(SA-2)		i i			
150 Canadian Forces Wx Service		T			
151 Forecasting and Briefing	57	1799.5	222.4	900-000 40E	2021.9
160 Data	3	79.6	254.5		334.1
170 Consultation and Coord.	21	776.3	40.2		816.5
180 CFWS Support Systems	20	751.6	822.9		1574.5
150 TOTAL(SA-2)	101	3407.0	1340.0		4747.0
200 Data					
210 Surface Wx Observations	İ	i i			1
220 Upper Air Stations	İ	İ	i		1
230 Other Observations	1	i i			
200 TOTAL(SA-2)	I	·			
300 Wx. Services Support Systems					
301 CMC		i i			1
310 Forecast Operations Support	-	i			
320 Forecast Production Research		i			I
330 Data Acquisition Research		i i			1
340 Planning and Consultation					
350 Communications					
360 EDP Services		i i	i		
370 Training	ĺ		i		
380 Data Acquisition Services		1			i
390 Management			1		1
395 Management Support		1	1		
300 TOTAL(SA-2)		<u> </u>			
		+			
100 TOTAL (SA-1)	101	3407.0	1340.0		4747.0
TOO TOTTE (OL) T/	I TOT	J-101.01	10.01		1/1/00

## APPENDIX J

ATMOSPHERIC ENVIRONMENT SERVICE

ORGANIZATIONAL UNITS AND THEIR 1981-82 BUDGETS

CONTRIBUTING TO THE

H

WEATHER SERVICES

SUB-ACTIVITY

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

## ORGANIZATION: ATMOSPHERIC ENVIRONMENT SERVICE

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services .					
111 Forecast Operations	172	4983.4	51.0		5034.4
112 Provision of Services	292	7517.3	681.6		8198.9
110 TOTAL(SA-2)	464	12500.7	732.6		13233.3
120 Marine Weather Services					
121 Forecast Operations	9	316.0			316.0
_ 122 Provision of Services	2	46.0			46.0
120 TOTAL(SA-2)	11	362.0			362.0
130 Aviation Weather Services					
131 Forecast Operations	56	1658.1	2.0		1660.1
132 Provision of Services	56	1360.0	110.3		1470.3
138 Aviation Observations	15	299.0	457.2		756.2
130 TOTAL(SA-2)	127	3317.1	569.5		3886.6
140 Economic Weather Services					
141 Forecast Operations	16	482.4	4.0		486.4
142 Provision of Services		1	20.4		20.4
140 TOTAL(SA-2)	16	482.4	24.4		506.8
150 Canadian Forces Wx Service					
151 Forecasting and Briefing	57	1799.5	222.4		2021.9
160 Data	3	79.6	254.5		334.1
170 Consultation and Coord.	21	776.3	40.2		816.5
180 CFWS Support Systems	201	751.6	822.9		1574.5
150 TOTAL(SA-2)	101	3407.0	1340.0		4747.0
200 Data					
210 Surface Wx Observations	140	3224.3	2136.3		5360.6
220 Upper Air Stations	160	5200.9	9561.6	9.0	14771.5
230 Other Observations	5	185.0	174.0	20.0	379.0
200 TOTAL(SA-2)	305	8610.2	11871.9	29.0	20511.1
300 Wx. Services Support Systems					
301 QMC	67	2264.6	112.2	9.0	2385.8
310 Forecast Operations Suppor	t 571	1668.6	721.2	38.0	
320 Forecast Production Research	ch 41	1425.8	299.5	85.0	
330 Data Acquisition Research	22	728.8	338.3		
340 Planning and Consultation	29	976.3	173.2	40.0	1189.5
350 Communications	97	2372.4	4202.6		6575.0
360 EDP Services	68	1859.1	1793.9	484.0	4137.0
370 Training	94	3228.0	634.3		
380 Data Acquisition Services	253	6866.9	3516.1		
390 Management	24	670.1	742.0	and the same of	
395 Management Support	77	1689.6	3199.5		5471.6
300 TOTAL(SA-2)	829	23750.2	15732.8	9355.4	48838.4
100 TOTAL (SA-1)	1853	52429.6	30271.2	9384.4	92085.2

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

#### ORGANIZATION: ADMINISTRATION BRANCH

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
111 Forecast Operations			1		
112 Provision of Services					
110 TOTAL(SA-2)					
120 Marine Weather Services		*			T
121 Forecast Operations			1		
122 Provision of Services					
120 TOTAL(SA-2)					
130 Aviation Weather Services			1		
131 Forecast Operations			1		
132 Provision of Services			1		
138 Aviation Observations			1		
130 TOTAL(SA-2)					
140 Economic Weather Services					
141 Forecast Operations		!			
142 Provision of Services		1			
140 TOTAL(SA-2)					
150 Canadian Forces Wx Service					
151 Forecasting and Briefing			1		
160 Data					
170 Consultation and Coord.	1	i !			
180 CFWS Support Systems					
150 TOTAL(SA-2)	T				
200 Data					
210 Surface Wx Observations	İ	İ			ĺ
220 Upper Air Stations					
230 Other Observations	1	İ			
200 TOTAL(SA-2)	<u> </u>				
300 Wx. Services Support Systems					
301 CMC	1				
310 Forecast Operations Support	t				
320 Forecast Production Research					
330 Data Acquisition Research					
340 Planning and Consultation	1	į į			
350 Communications	1	l i			ĺ
360 EDP Services	1	i i			1
370 Training	17	939.8	53.0		992.8
380 Data Acquisition Services	1				
390 Management	Ì			1	į
395 Management Support	i	į į	i		
300 TOTAL(SA-2)	T	939.8	53.0		992.8
	Ī				
100 TOTAL (SA-1)	17	939.8	53.0		992.8

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: FIELD SERVICES DIRECTORATE-(HEADQUARTERS + REGIONS)\*

Sub-Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services				Q II II II	TOTAL
111 Forecast Operations	172	4983.4	51.0		5034.4
112 Provision of Services	292	7517.3	681.6		8198.9
110 TOTAL(SA-2)	464	12500.7	732.6		13233.3
120 Marine Weather Services	101	12300.71	732.01		13233.3
121 Forecast Operations	9	316.0			316.0
122 Provision of Services	2	46.0			46.0
120 TOTAL(SA-2)	11	362.0			362.0
130 Aviation Weather Services	1	302.01			302.0
131 Forecast Operations	56	1658.1	2.0		1660.1
132 Provision of Services	56	1360.0	110.3		1470.3
138 Aviation Observations	15	299.0	457.2		756.2
130 TOTAL(SA-2)	127	3317.1	569.5		3886.6
140 Economic Weather Services	12/1	3317.11	309.31		3000.0
141 Forecast Operations	16	482.4	24.4		F06 0
141 Profession of Services	10	482.4	24.41		506.8
140 TOTAL(SA-2)	16	482.4	24.4		506.8
150 Canadian Forces Wx Service	101	402.4	24.4		300.0
151 Forecasting and Briefing	1 1		ļ		
160 Data		i	ļ	i	
170 Consultation and Coord.	! ! ! !	i	1		
180 CFWS Support Systems				-	
150 TOTAL(SA-2)	<del>                                     </del>				
200 Data	<del>                                     </del>				
210 Surface Wx Observations	140	3224.3	2136.3		5360.6
220 Upper Air Stations	160	5200.9	9561.6	9.0	14771.5
230 Other Observations	5	185.0	174.0	20.0	379.0
200 TOTAL(SA-2)	305	8610.2	11871.9	29.0	20511.1
300 Wx. Services Support Systems		0010.21	110/1.9	29.01	20511.1
301 CMC	67	2264.6	112 2	0 0	2385.8
310 Forecast Operations Support		1668.6	112.2 721.2	9.0  38.0	2427.8
320 Forecast Production Research		1000.0	/21.21	30.01	2427.0
	11				
330 Data Acquisition Research	29	976.3	173.2	40.0	1189.5
340 Planning and Consultation 350 Communications		2372.4	4202.6	40.01	6575.0
	97	The second secon		275 0	
360 EDP Services	24	678.8	158.2 163.6	375.0	1212.0 183.3
370 Training	1 1	19.7		7410 0	
380 Data Acquisition Services	153	4003.6	2896.9	7410.0 24.0	14310.5
390 Management	21     72	559.3	704.8		1288.1 5347.5
395 Management Support		1584.7	3180.3	582.5	
300 TOTAL(SA-2)	521	14128.0	12313.0	8478.5	34919.5
100 momat /ca 1	1 1 1 1 1	39400.4	25511 4	8507.5	73419.3
100 TOTAL (SA-1)	1444		25511.4	0007.51	/3417.3
* Does not include Canadian Force	es wedt	Tier Servic	E		

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: FIELD SERVICES DIRECTORATE-HEADQUARTERS

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
lll Forecast Operations					
112 Provision of Services					
110 TOTAL(SA-2)					
120 Marine Weather Services		=			
121 Forecast Operations			,		
122 Provision of Services	1	,			
120 TOTAL(SA-2)					
130 Aviation Weather Services					
131 Forecast Operations					
132 Provision of Services					
138 Aviation Observations					
130 TOTAL(SA-2)	T				
140 Economic Weather Services	1				
141 Forecast Operations					
142 Provision of Services					
140 TOTAL(SA-2)	T				
150 Canadian Forces Wx Service	T				
151 Forecasting and Briefing					
160 Data					
170 Consultation and Coord.	1				
180 CFWS Support Systems	1			i	i
150 TOTAL(SA-2)	T				
200 Data	T				
210 Surface Wx Observations				İ	
220 Upper Air Stations				i	i
230 Other Observations	1	İ		İ	
200 TOTAL(SA-2)	<u> </u>				
300 Wx. Services Support Systems					
301 CMC		İ	İ	i	
310 Forecast Operations Suppor	t 6	184.9	13.0		197.9
320 Forecast Production Resear				i	
330 Data Acquisition Research		i		i	i
340 Planning and Consultation	8	351.0	18.4	4.0	373.4
350 Communications	23	615.1	3839.7	E000000	4454.8
360 EDP Services	5	173.2	67.0	375.0	615.2
370 Training		1,012	0,10	3,300	01002
380 Data Acquisition Services	19	471.4	226.9	6731.0	7429.3
390 Management	6	180.8	56.0	1.0	237.8
395 Management Support	1 12	294.0	943.6	10.0	1247.6
300 TOTAL(SA-2)	79	2270.4	5164.6	7121.0	14556.0
			0101101		
100 TOTAL (SA-1)	79	2270.4	5164.6	7121.0	14556.0

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

# ORGANIZATION: FIELD SERVICES DIRECTORATE - CANADIAN METEOROLOGICAL CENTRE

Sub-Sub-Sub-Activity	PY	SALARY	O&M	CADIMAI	momar I
110 Public Weather Services	FI	SALARI	Oavi	CAPITAL	TOTAL
111 Forecast Operations	i i	i			·
112 Provision of Services	1	! !			! !
110 TOTAL(SA-2)					
120 Marine Weather Services				Γ	
121 Forecast Operations	1 1				! ! ! !
122 Provision of Services	! !				
120 TOTAL(SA-2)					
130 Aviation Weather Services					
131 Forecast Operations					
132 Provision of Services		,			
138 Aviation Observations	l				! !
130 TOTAL(SA-2)					
140 Economic Weather Services					ļ
141 Forecast Operations	1				
141 Profession of Services	l				1
140 TOTAL(SA-2)					
150 Canadian Forces Wx Service					,
151 Forecasting and Briefing					 
160 Data					
170 Consultation and Coord.	l 1				!!!!
	! !				l
180 CFWS Support Systems 150 TOTAL(SA-2)					
200 Data					
210 Surface Wx Observations	1 I				
220 Upper Air Stations					
230 Other Observations					
200 TOTAL(SA-2)					
300 Wx. Services Support Systems					
301 CMC	67	2264.6	112.2	9.0	2385.8
310 Forecast Operations Support		2204.01	112.2	9.0	2303.0
320 Forecast Production Research		1			
330 Data Acquisition Research	-11 I	i			i
340 Planning and Consultation					
350 Communications					i
360 EDP Services	1 I				
370 Training	! ! ! !				
380 Data Acquisition Services		i			
390 Management					i
390 Management Support					
300 TOTAL(SA-2)	67	2264.6	112.2	9.0	2385.8
300 TOTALI(3A-2)	0/	2204.0	112.2	9.01	2303.0
100 TOTAL (SA-1)	67	2264.6	112.2	9.0	2385.8

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

# ORGANIZATION: FIELD SERVICES DIRECTORATE - ATLANTIC REGION

Sub-Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
111 Forecast Operations	39	1067.8	33.1		1100.9
112 Provision of Services	64	1522.8	117.2		1640.0
110 TOTAL(SA-2)	103	2590.6	150.3		2740.9
120 Marine Weather Services					
121 Forecast Operations	2	79.01			79.0
122 Provision of Services	2	46.0			46.0
120 TOTAL(SA-2)	4	125.0			125.0
130 Aviation Weather Services					
131 Forecast Operations	10	316.0			316.0
132 Provision of Services	6	138.0	-		318.0
138 Aviation Observations			-		
130 TOTAL(SA-2)	16	454.0	05 00 00		454.0
140 Economic Weather Services					
141 Forecast Operations					
142 Provision of Services	İ	İ			
140 TOTAL(SA-2)	T				
150 Canadian Forces Wx Service					
151 Forecasting and Briefing					
160 Data					
170 Consultation and Coord.		1			
180 CFWS Support Systems	İ	i i			
150 TOTAL(SA-2)	<u> </u>	İ			
200 Data	<u> </u>	i i			
210 Surface Wx Observations	11	231.8	263.4		495.2
220 Upper Air Stations	27	694.9	556.6		1251.5
230 Other Observations			90.8		90.8
200 TOTAL(SA-2)	38	926.7	910.8		1837.5
300 Wx. Services Support Systems					
301 CMC	1	i i		İ	
310 Forecast Operations Suppor	t 9	215.3	10.2		225.5
320 Forecast Production Research		i		1	
330 Data Acquisition Research		i i		i	
340 Planning and Consultation	4	108.1	17.2		125.3
350 Communications	21	458.8	191.7		650.5
360 EDP Services	4	102.1	2.9		105.0
370 Training	1	19.7			21.3
380 Data Acquisition Services	13	346.7			623.6
390 Management	2	67.8			71.9
395 Management Support	7	204.2			
300 TOTAL(SA-2)	61	1522.7			
	1 01	1 1322 • /	303.0	2-12.0	200000
100 TOTAL (SA-1)	222	5619.0	1926.9	242.0	7787.9
101111 (011 1)	1 222	1 2012.01	1720.7		

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: FIELD SERVICES DIRECTORATE - QUEBEC REGION

Sub-Sub-Activity	PY	SALARY	O&M	CAPITAL	TOTAL
110 Public Weather Services		i i			1011111
111 Forecast Operations	31	991.1	1.5		992.6
112 Provision of Services	29	855.8	134.1		989.9
110 TOTAL(SA-2)	60	1846.9	135.6		1982.5
120 Marine Weather Services					1302.3
121 Forecast Operations	İ	i i	i		, 
122 Provision of Services		i i	i		İ
120 TOTAL(SA-2)					
130 Aviation Weather Services					
131 Forecast Operations	5	149.1			149.1
132 Provision of Services	17	438.1	61.2		499.3
138 Aviation Observations	5	88.8	13.4		102.2
130 TOTAL(SA-2)	27	676.0	74.6		750.6
140 Economic Weather Services					73010
141 Forecast Operations	6	132.0	4.0		136.0
142 Provision of Services	ĺ		1.01		130.0
140 TOTAL(SA-2)	6	132.0	4.0		136.0
150 Canadian Forces Wx Service					13010
151 Forecasting and Briefing		i i	i		
160 Data	1	i i	i		
170 Consultation and Coord.	1	i i	i		i
180 CFWS Support Systems	İ	i i	i		i
150 TOTAL(SA-2)					i
200 Data				·	
210 Surface Wx Observations	29	721.0	525.8		1246.8
220 Upper Air Stations	24	749.5	750.9		1500.4
230 Other Observations			83.2		83.2
200 TOTAL(SA-2)	53	1470.5	1359.9		2830.4
300 Wx. Services Support Systems		T			
301 CMC		İ	i	į	i
310 Forecast Operations Support	. 8	217.9	159.4	3.0	380.3
320 Forecast Production Research					
330 Data Acquisition Research		i	i	i	i
340 Planning and Consultation	3	88.4	12.1	6.0	106.5
350 Communications	12	273.1	4.6		277.7
360 EDP Services	3	95.4	1.5	i	96.9
370 Training	İ	,	34.0		34.0
380 Data Acquisition Services	18	506.4	564.0	152.5	1222.9
390 Management	2	63.5	2.5		66.0
395 Management Support	9	224.8	370.3		595.1
300 TOTAL(SA-2)	55	1469.5	1148.4	161.5	2779.4
100 TOTAL (SA-1)	201	5594.9	2722.5	161.5	8478.9

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

#### ORGANIZATION: FIELD SERVICES DIRECTORATE - ONTARIO REGION

Sub-Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
Ill Forecast Operations	8	273.7			273.7
112 Provision of Services	68	1202.2	8.01		1210.2
110 TOTAL(SA-2)	76	1475.9	8.0		1483.9
120 Marine Weather Services					
121 Forecast Operations	4	137.0			137.0
122 Provision of Services					
120 TOTAL(SA-2)	4	137.0			137.0
130 Aviation Weather Services					
131 Forecast Operations	10	324.0			324.0
132 Provision of Services	1 7	519.6			519.6
138 Aviation Observations					
130 TOTAL(SA-2)	17	843.6	-		843.6
140 Economic Weather Services					
141 Forecast Operations	4	125.0			125.0
142 Provision of Services					123131
140 TOTAL(SA-2)	4	125.0			125.0
150 Canadian Forces Wx Service					
151 Forecasting and Briefing	İ	i i	i		
160 Data	İ	i i			
170 Consultation and Coord.	İ	i i	i	i	i
180 CFWS Support Systems	i	i i			i
150 TOTAL(SA-2)	†				
200 Data					·
210 Surface Wx Observations	12	272.3	148.3		420.6
220 Upper Air Stations	3	166.1	66.7	9.0	241.8
230 Other Observations			-		
200 TOTAL(SA-2)	15	438.4	215.0	9.0	662.4
300 Wx. Services Support Systems					
301 CMC	Ì	i i	i	i	i
310 Forecast Operations Support	t 6	207.0	144.4	15.0	366.4
320 Forecast Production Research					İ
330 Data Acquisition Research		i i	i	i	i
340 Planning and Consultation	4	90.8	100.5	30.0	221.3
350 Communications	7	174.7			174.7
360 EDP Services	3	81.2			81.2
370 Training		01.21	i	i	01.21
380 Data Acquisition Services	15	365.0	201.0	78.0	644.0
390 Management	4	63.8	6.5	17.0	87.3
395 Management Support	9	215.4	255.6		471.0
300 TOTAL(SA-2)	48	1197.9	708.0	140.0	2045.9
2011111(141.2)	1 10	1177.07	700.01	1-10.01	2043.7
100 TOTAL (SA-1)	164	4217.8	931.0	149.0	5297.8
TOTTH (MT T)	1 10-1	721/•01	201.00	147.01	3271.01

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1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: FIELD SERVICES DIRECTORATE - CENTRAL REGION

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
lll Forecast Operations	42	1062.8			1062.8
112 Provision of Services	36	1134.5	206.8		1341.3
110 TOTAL(SA-2)	78	2197.3	206.8		2404.1
120 Marine Weather Services					
121 Forecast Operations		1			
122 Provision of Services		1	1		ĺ
120 TOTAL(SA-2)					
130 Aviation Weather Services					
131 Forecast Operations	10	289.0	2.0		291.0
132 Provision of Services		1	1		
138 Aviation Observations		1	1		ĺ
130 TOTAL(SA-2)	10	289.0	2.0		291.0
140 Economic Weather Services					
141 Forecast Operations			ĺ		
142 Provision of Services					
140 TOTAL(SA-2)			T		
150 Canadian Forces Wx Service					
151 Forecasting and Briefing	1		1		
160 Data	1		1		
170 Consultation and Coord.			1		
180 CFWS Support Systems					
150 TOTAL(SA-2)					
200 Data					
210 Surface Wx Observations	31	802.0	940.0		1742.0
220 Upper Air Stations	55	1874.1	2193.5		4067.6
230 Other Observations					
200 TOTAL(SA-2)	86	2676.1	3133.5		5809.6
300 Wx. Services Support Systems					
301 CMC					
310 Forecast Operations Suppor		156.5	76.8		233.3
320 Forecast Production Research	ch				
330 Data Acquisition Research					
340 Planning and Consultation	5	163.2	9.5		172.7
350 Communications	13	282.1			282.1
360 EDP Services	3	94.3	38.7		133.0
370 Training	-		60.5		60.5
380 Data Acquisition Services	41	1038.7	1008.3		2047.0
390 Management	2	59.9	6.0		65.9
395 Management Support	14	282.3	430.3	320.0	1032.6
300 TOTAL(SA-2)	84	2077.0	1630.1	320.0	4027.1
100 TOTAL (SA-1)	258	7239.4	4972.4	320.0	12531.8

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

## ORGANIZATION: FIELD SERVICES DIRECTORATE - WESTERN REGION

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
111 Forecast Operations	29	832.8			832.8
112 Provision of Services	57	1929.2	166.8		2096.0
110 TOTAL(SA-2)	86	2762.0	166.8		2928.8
120 Marine Weather Services					
121 Forecast Operations	3	100.0	!		100.0
122 Provision of Services					
120 TOTAL(SA-2)	3	100.0			100.0
130 Aviation Weather Services					
131 Forecast Operations	16	430.0			430.0
132 Provision of Services	19	97.5	37.0		134.5
138 Aviation Observations	2	39.0			39.0
130 TOTAL(SA-2)	37	566.5	37.0		603.5
140 Economic Weather Services					
141 Forecast Operations	5	190.4			190.4
142 Provision of Services					
140 TOTAL(SA-2)	5	190.4			190.4
150 Canadian Forces Wx Services					
151 Forecasting and Briefing					
160 Data				1	
170 Consultation and Coord.					I
180 CFWS Support Systems					
150 TOTAL(SA-2)					
200 Data					
210 Surface Wx Observations	29	818.7	122.0		940.7
220 Upper Air Stations	32	1128.2	934.1		2062.3
230 Other Observations		00-400-400			
200 TOTAL(SA-2)	61	1946.9	1056.1		3003.0
300 Wx. Services Support Systems					
301 CMC					1
310 Forecast Operations Suppor		515.8	291.6	20.0	827.4
320 Forecast Production Research	ch			1	!
330 Data Acquisition Research			1		1
340 Planning and Consultation	2	92.5	6.0		98.5
350 Communications	12	329.0	51.5		380.5
360 EDP Services	4	75.0			75.0
370 Training			52.5		52.5
380 Data Acquisition Services	29	757.7	205.8	291.5	1255.0
390 Management	3	65.0	624.2		689.2
395 Management Support	12	194.9	643.3	8.5	846.7
300 TOTAL(SA-2)	79	2029.9	1874.9	320.0	4224.8
				- 1	
100 TOTAL (SA-1)	271	7595.7	3134.8	320.01	11050.5

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: FIELD SERVICES DIRECTORATE - PACIFIC REGION

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
lll Forecast Operations	23	755.2	16.4		771.6
112 Provision of Services	38	872.8	48.7		921.5
110 TOTAL(SA-2)	61	1628.0	65.1		1693.1
120 Marine Weather Services					
121 Forecast Operations		1		ĺ	ĺ
122 Provision of Services		1		ĺ	İ
120 TOTAL(SA-2)	T	T			
130 Aviation Weather Services					
131 Forecast Operations	5	150.0			150.0
132 Provision of Services	7	166.8	12.1		178.9
138 Aviation Observations	1 8 1	171.2	443.8		615.0
130 TOTAL(SA-2)	20	488.0	455.9		943.9
140 Economic Weather Services	T				
141 Forecast Operations	1 1	35.0			35.0
142 Provision of Services			20.4		20.4
140 TOTAL(SA-2)	1	35.0	20.4		55.4
150 Canadian Forces Wx Services	T				
151 Forecasting and Briefing		İ	1		
160 Data	1		1		1
170 Consultation and Coord.			!		
180 CFWS Support Systems	į į		İ		
150 TOTAL(SA-2)	1				
200 Data	1				
210 Surface Wx Observations	28	378.5	136.8		515.3
220 Upper Air Stations	19	588.1	5059.8		5647.9
230 Other Observations	1 5	185.0		20.0	205.0
200 TOTAL(SA-2)	52	1151.6	5196.6	20.0	6368.2
300 Wx. Services Support Systems	3				
301 CMC					
310 Forecast Operations Suppor	t 5	171.2	25.8		197.0
320 Forecast Production Resear					
330 Data Acquisition Research					
340 Planning and Consultation		82.3	9.5		91.8
350 Communications	1 9	239.6	115.1		354.7
360 EDP Services	2	57.6	48.1		105.7
370 Training	_		15.0		15.0
380 Data Acquisition Services	18	517.7	414.0		1088.7
390 Management	2	58.5	5.5		70.0
395 Management Support	9	169.1	176.0		347.1
300 TOTAL(SA-2)	48	1296.0	809.0		2270.0
	1				
	1	1		1	

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

#### ORGANIZATION: ATMOSPHERIC RESEARCH DIRECTORATE

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
111 Forecast Operations					1
112 Provision of Services					
110 TOTAL(SA-2)					
120 Marine Weather Services					
121 Forecast Operations					
122 Provision of Services					
120 TOTAL(SA-2)					
130 Aviation Weather Services					
131 Forecast Operations					
132 Provision of Services					
138 Aviation Observations		İ			
130 TOTAL(SA-2)					
140 Economic Weather Services					
141 Forecast Operations					Ì
142 Provision of Services	ĺ	İ			
140 TOTAL(SA-2)				<u> </u>	
150 Canadian Forces Wx Services					
151 Forecasting and Briefing					
160 Data		İ			ĺ
170 Consultation and Coord.		İ			İ
180 CFWS Support Systems		j i		İ	
150 TOTAL(SA-2)					
200 Data	<u> </u>				
210 Surface Wx Observations		İ			1
220 Upper Air Stations		İ			
230 Other Observations	i	i i			
200 TOTAL(SA-2)					
300 Wx. Services Support Systems					
301 CMC	1	ĺ			
310 Forecast Operations Support	-	İ			
320 Forecast Production Research		1425.8	299.5	85.0	1810.3
330 Data Acquisition Research	21	711.6			
340 Planning and Consultation	21	1 /11.01	330.31	201.0	1540.5
350 Communications		İ			
360 EDP Services					
370 Training					
380 Data Acquisition Services					
390 Management	2	70.8	32.2		103.0
395 Management Support	2	50.8	9.2		60.0
300 TOTAL(SA-2)	66	2259.0	679.2	376.0	3314.2
300 TOTAL(DA-2)	00	2239.01	0/9.2	3/0.01	3314.2
100 TOTAL (SA-1)	66	2259.0	679.2	376.0	3314.2

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: ATMOSPHERIC RESEARCH DIRECTORATE - METEOROLOGICAL SERVICES RESEARCH BRANCH

Sub-Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
111 Forecast Operations					
112 Provision of Services				İ	İ
110 TOTAL(SA-2)					
120 Marine Weather Services				<u> </u>	
121 Forecast Operations				İ	
122 Provision of Services		İ			
120 TOTAL(SA-2)					
130 Aviation Weather Services				1	
131 Forecast Operations					
132 Provision of Services					
138 Aviation Observations	i	i			! !
130 TOTAL(SA-2)					
140 Economic Weather Services					
141 Forecast Operations		i			
142 Provision of Services					
140 TOTAL(SA-2)					
150 Canadian Forces Wx Services					<u> </u>
151 Forecasting and Briefing					
160 Data					
170 Consultation and Coord.		i			
180 CFWS Support Systems					i
150 TOTAL(SA-2)					
200 Data					i
210 Surface Wx Observations					
220 Upper Air Stations		i			i
230 Other Observations		i			i
200 TOTAL(SA-2)					
300 Wx. Services Support Systems					
301 CMC		i			i
310 Forecast Operations Support		i			i
320 Forecast Production Research		1425.8	299.5	85.0	1810.3
330 Data Acquisition Research	18	564.9			
340 Planning and Consultation	10	504.9	192.0	2/1.0	1027.91
350 Communications		i i			
360 EDP Services					i
370 Training					
380 Data Acquisition Services					
390 Management	2	70.8	32.2		103.0
395 Management Support	2	50.8			60.0
300 TOTAL(SA-2)	63	2112.3	532.9	356.0	3001.2
500 TOTALI(UA-2)	0.5	2112.3	332.9	330.0	3001.2
100 TOTAL (SA-1)	63	2112.3	532.9	356.0	3001.2

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: ATMOSPHERIC RESEARCH DIRECTORATE
ATMOSPHERIC PROCESSES RESEARCH BRANCH

Sub-Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services	1			QH III	TOTAL
111 Forecast Operations	į į				
112 Provision of Services	i i				
110 TOTAL(SA-2)					
120 Marine Weather Services					
121 Forecast Operations	i i	i			
122 Provision of Services	i i				
120 TOTAL(SA-2)	<u> </u>				
130 Aviation Weather Services	j i				
131 Forecast Operations	i i				
132 Provision of Services	i i				
138 Aviation Observations	i i				
130 TOTAL(SA-2)					
140 Economic Weather Services					
141 Forecast Operations	i i				
142 Provision of Services	i i			-	
140 TOTAL(SA-2)	i i				
150 Canadian Forces Wx Service					
151 Forecasting and Briefing	i i				
160 Data	i i				
170 Consultation and Coord.	i i				
180 CFWS Support Systems	i i				
150 TOTAL(SA-2)					
200 Data	, i				
210 Surface Wx Observations	i i		-		
220 Upper Air Stations	İ				
230 Other Observations	i i				
200 TOTAL(SA-2)					
300 Wx. Services Support Systems					
301 CMC	i i				
310 Forecast Operations Support	Ė				
320 Forecast Production Research				i	
330 Data Acquisition Research		146.7	146.3	20.0	313.0
340 Planning and Consultation		11007	11000	20.0	313.0
350 Communications	i i			i	
360 EDP Services	į i	i			
370 Training	į į			i	
380 Data Acquisition Services	i i	i			
390 Management		İ			
395 Management Support	i i	i		i	
300 TOTAL(SA-2)	3	146.7	146.3	20.0	313.0
			_ 10.0	20.0	320.0
100 TOTAL (SA-1)	3	146.7	146.3	20.0	313.0

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

### ORGANIZATION: CENTRAL SERVICES DIRECTORATE

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
lll Forecast Operations					İ
112 Provision of Services		! !			İ
110 TOTAL(SA-2)					
120 Marine Weather Services					
121 Forecast Operations		1		i	i
122 Provision of Services				i	i
120 TOTAL(SA-2)					
130 Aviation Weather Services					
131 Forecast Operations	1	i i			i
132 Provision of Services	İ	i i			i
138 Aviation Observations	i	i i		i	i
130 TOTAL(SA-2)	<u> </u>				
140 Economic Weather Services	<u> </u>			<del></del>	
141 Forecast Operations	i	i i		i	,
142 Provision of Services	i	i i		i	
140 TOTAL(SA-2)	<del> </del>	<u> </u>		<del>-</del>	
150 Canadian Forces Wx Services		<del> </del>			
151 Forecasting and Briefing	1			i	
160 Data		İ		i	1
170 Consultation and Coord.	1	, , 	i	i	1
180 CFWS Support Systems				ì	
150 TOTAL(SA-2)					
200 Data					
210 Surface Wx Observations		i	1	i	
220 Upper Air Stations			i	İ	i
230 Other Observations		1		i	i
200 TOTAL(SA-2)					
300 Wx. Services Support Systems					
301 CMC		i	1		i
310 Forecast Operations Support	-	i			
320 Forecast Production Research		i		i	i
330 Data Acquisition Research	1	17.2	1	i	17.2
340 Planning and Consultation		1/02			17.21
350 Communications		i			1
360 EDP Services	44	1180.3	1635.7	109.0	2925.0
370 Training		2268.5	417.7	50.0	2736.2
380 Data Acquisition Services	76 100	2863.3	619.2	341.9	3824.4
390 Management		40.0	5.0	341.9	45.0
395 Management Support	1 3	54.1	10.0		
300 TOTAL(SA-2)	225	6423.4	2687.6	500.9	9611.9
500 101AL(GA-2)	445	0-23.41	2007.01	500.91	9011.91
100 TOTAL (SA-1)	225	6423.4	2687.6	500.9	9611.9

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

## ORGANIZATION: CENTRAL SERVICES DIRECTORATE - TRAINING BRANCH

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
111 Forecast Operations					l
112 Provision of Services				ĺ	i i
110 TOTAL(SA-2)					
120 Marine Weather Services					
121 Forecast Operations					ĺ
122 Provision of Services				ĺ	İ
120 TOTAL(SA-2)					
130 Aviation Weather Services					
131 Forecast Operations				İ	İ
132 Provision of Services					İ
138 Aviation Observations	İ				
130 TOTAL(SA-2)					
140 Economic Weather Services					
141 Forecast Operations	İ	i		İ	İ
142 Provision of Services	İ		i		İ
140 TOTAL(SA-2)					
150 Canadian Forces Wx Service	T				
151 Forecasting and Briefing	i				
160 Data	i				
170 Consultation and Coord.	i	i		1	İ
180 CFWS Support Systems	i				
150 TOTAL(SA-2)	i				
200 Data					
210 Surface Wx Observations					
220 Upper Air Stations	i				
230 Other Observations	i				
200 TOTAL(SA-2)					
300 Wx. Services Support Systems	i				
301 CMC	i	i			i
310 Forecast Operations Support	. i				
320 Forecast Production Research					
330 Data Acquisition Research		i		1	,
340 Planning and Consultation	i	i			
350 Communications	i	i		i	
360 EDP Services	1	i			
370 Training	76	2268.5	417.7	50.0	2736.2
380 Data Acquisition Services	, 51	2200.51	-T1 / • /	50.0	2/30.21
390 Management	i	1			
395 Management Support	1				
300 TOTAL (SA-2)	76	2268.5	417.7	50.0	2736.2
2.5 201122 (2.1.2.)	701	2200.3		30.01	2730.2
100 TOTAL (SA-1)	76	2268.5	417.7	50.0	2736.2
(Ott 1)	701	2200.51		50.01	2/30.2

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: CENTRAL SERVICES DIRECTORATE - DATA ACQUISITION SERVICES BRANCH

Sub-Sub-Sub-Activity					
110 Public Weather Services	PY	SALARY	M&O	CAPITAL	TOTAL
111 Forecast Operations	1				
	1	!	!	1	
112 Provision of Services 110 TOTAL(SA-2)					
120 Marine Weather Services					
	1				
121 Forecast Operations 122 Provision of Services	1				
120 TOTAL(SA-2)					
130 Aviation Weather Services	<u> </u>				
131 Forecast Operations	1				
132 Provision of Services	1				
138 Aviation Observations 130 TOTAL(SA-2)					
140 Economic Weather Services					
141 Forecast Operations 142 Provision of Services	1				
140 TOTAL(SA-2)	1				
150 Canadian Forces Wx Service					
151 Forecasting and Briefing 160 Data	1				
170 Consultation and Coord.					
180 CFWS Support Systems 150 TOTAL(SA-2)					
200 Data					
210 Surface Wx Observations					
220 Upper Air Stations					
230 Other Observations					
200 TOTAL (SA-2)					
300 Wx. Services Support Systems		I		!	1
301 CMC					ļ
310 Forecast Operations Support 320 Forecast Production Research				!	
	en j		ļ	1	1
330 Data Acquisition Research					
340 Planning and Consultation		1	ļ		
350 Communications				!	
360 EDP Services	!				
370 Training	100	20.55		l	
380 Data Acquisition Services	100	2863.3	619.2	341.9	3824.4
390 Management	1	40.0	5.0	!	45.0
395 Management Support	3	54.1	10.0		64.1
300 TOTAL(SA-2)	104	2957.4	634.2	341.9	3933.5
100 TOTAL (SA-1)	104	2957.4	624 2	247	3033 5
100 101AL (3A-1)	1041	2957.41	634.2	341.9	3933.5

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: CENTRAL SERVICES DIRECTORATE - COMPUTING SERVICES BRANCH

Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services					
lll Forecast Operations		1			
112 Provision of Services					1
110 TOTAL(SA-2)					
120 Marine Weather Services		,			
121 Forecast Operations					1
122 Provision of Services					
120 TOTAL(SA-2)					
130 Aviation Weather Services					
131 Forecast Operations			,		1
132 Provision of Services					
138 Aviation Observations					1
130 TOTAL(SA-2)					
140 Economic Weather Services					
141 Forecast Operations					
142 Provision of Services					1
140 TOTAL(SA-2)					
150 Canadian Forces Wx Service					
151 Forecasting and Briefing					1
160 Data					
170 Consultation and Coord.					1
180 CFWS Support Systems					
150 TOTAL(SA-2)					
200 Data					
210 Surface Wx Observations					
220 Upper Air Stations					
230 Other Observations					
200 TOTAL(SA-2)	T				
300 Wx. Services Support Systems					
301 CMC					
310 Forecast Operations Suppor	t				1
320 Forecast Production Research	ch				
330 Data Acquisition Research					1
340 Planning and Consultation					
350 Communications	1				
360 EDP Services	44	1180.3	1635.7	109.0	2925.0
370 Training					
380 Data Acquisition Services					1
390 Management					
395 Management Support					
300 TOTAL(SA-2)	44	1180.3	1635.7	109.0	2925.0
				-	
100 TOTAL (SA-1)	44	1180.3	1635.7	109.0	2925.0

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3)
(Nearest \$000)

ORGANIZATION: CENTRAL SERVICES DIRECTORATE - DIRECTOR GENERAL'S OFFICE

Sub-Sub-Sub-Activity	PY	SALARY	M&O	CAPITAL	TOTAL
110 Public Weather Services				T CALLET	101711
111 Forecast Operations		i		i	
112 Provision of Services				1	
110 TOTAL(SA-2)					
120 Marine Weather Services				1	
121 Forecast Operations			•	1	i !
122 Provision of Services	i			!	
120 TOTAL(SA-2)					
130 Aviation Weather Services				1	
	1			1	
131 Forecast Operations		1		1	l i
132 Provision of Services				1	] 
138 Aviation Observations					
130 TOTAL(SA-2)				1	
140 Economic Weather Services				1	
141 Forecast Operations					
142 Provision of Services					
140 TOTAL(SA-2)					
150 Canadian Forces Wx Service					
151 Forecasting and Briefing					
160 Data					
170 Consultation and Coord.					
180 CFWS Support Systems					
150 TOTAL(SA-2)					
200 Data					
210 Surface Wx Observations					
220 Upper Air Stations					
230 Other Observations					
200 TOTAL(SA-2)					
300 Wx. Services Support Systems					
301 CMC				1	
310 Forecast Operations Support					
320 Forecast Production Research					
330 Data Acquisition Research	1	17.2			17.2
340 Planning and Consultation	_			İ	
350 Communications		,			
360 EDP Services				İ	
370 Training				İ	
380 Data Acquisition Services				İ	
390 Management				İ	
395 Management Support					
300 TOTAL(SA-2)	1	17.2			17.2
300 TOTALI(3A-2)		11.2			17.2
100 TOTAL (SA-1)	1	17.2			17.2
TOO TOTAL (SA-I)		1/02		1	11.2

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

### ORGANIZATION: CAMADIAN FORCES WEATHER SERVICE

Sub-Sub-Activity	PY	SALARY	M30	CAPITAL	TOTAL
110 Public Weather Services					
lll Forecast Operations	1		1		1
112 Provision of Services					ĺ
110 TOTAL(SA-2)					
120 Marine Weather Services					i
121 Forecast Operations	1		ĺ	i	i
122 Provision of Services		i i	İ	į	i
120 TOTAL(SA-2)			i		
130 Aviation Weather Services		i	i		
131 Forecast Operations	ĺ	i i	i	i	
132 Provision of Services		i i	i		i
138 Aviation Observations	1	i i	i	i	i
130 TOTAL(SA-2)	i -				
140 Economic Weather Services	i				
141 Forecast Operations	İ	i i	í		
142 Provision of Services	i	i	i		
140 TOTAL(SA-2)	<u> </u>	<del>                                     </del>			
150 Canadian Forces Wx Service	·				
151 Forecasting and Briefing	57	1799.5	222.4	-	2021.9
160 Data	3	79.6	254.5		334.1
170 Consultation and Coord.	21	776.3	40.2		
180 CFWS Support Systems	20	751.6	822.9		816.5
150 TOTAL(SA-2)	101	3407.0	1340.0		1574.5 4747.0
200 Data	101	3407.01	1340.01		4/4/.0
210 Surface Wx Observations	1		1		
220 Upper Air Stations	1	I I		1	
230 Other Observations	1	l !	1	ı	
200 TOTAL(SA-2)					
300 Wx. Services Support Systems					
301 CMC	1		1		I
	1				
310 Forecast Operations Support 320 Forecast Production Research	-7-	!	I		
	cn	! !	I	1	
330 Data Acquisition Research					
340 Planning and Consultation					I
350 Communications					
360 EDP Services				!	1
370 Training			!	ļ	!
380 Data Acquisition Services				!	
390 Management					. !
395 Management Support					
300 TOTAL(SA-2)					
100					
100 TOTAL (SA-1)	101	3407.0	1340.0		4747.0

#### APPENDIX K

ATMOSPHERIC ENVIRONMENT SERVICE

ORGANIZATIONAL UNITS AND THEIR 1981-82 BUDGETS

CONTRIBUTING TO THE

CLIMATE SERVICES

SUB-ACTIVITY

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) . (Nearest \$900)

### ORGANIZATION: ATMOSPHERIC ENVIRONMENT SERVICE

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services					
411 Climate Services	68	1476.8	740.2	28.0	2245.0
420 Reg. Consultation/Appl.	29	912.2	66.5	3.5	982.2
430 Nat. Consultation/Dev.	47	1335.8	622.5	110.5	2068.8
410 TOTAL(SA-2)	144	3724.8	1429.2	142.0	5296.0
450 Climate Research					
451 Numerical Modelling	8	288.3	15.7	3.0	307.0
452 Diagnostics	6	232.5	16.6		249.1
453 Processes	3	98.0	27.4	10.0	135.4
450 TOTAL(SA-2)	17	618.8	59.7	13.0	691.5
460 Climate Prog. Support System			,		
461 EDP Services	40	882.7	1040.4		1923.1
462 Management	15	464.1	48.8	8.0	520.9
463 Management Support	6	107.4	200.1	8.2	315.7
460 TOTAL(SA-2)	61	1454.2	1289.3	16.2	2759.7
400 TOTAL (SA-1)	222	5797.8	2778.2	171.2	8747.2

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: FIELD SERVICES DIRECTORATE (HEADQUARTERS + REGIONS)\*

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services					
411 Climate Services	21	420.0	675.2	3.0	1098.2
420 Reg. Consultation/Appl.	29	912.2	66.5	3.5	982.2
430 Nat. Consultation/Dev.	1	22.0	4.7		26.7
410 TOTAL(SA-2)	51	1354.2	746.4	6.5	2107.1
450 Climate Research					
451 Numerical Modelling					
452 Diagnostics					
453 Processes					
450 TOTAL(SA-2)					
460 Climate Prog. Support System					
461 EDP Services					
462 Management	12	324.1	29.9	8.0	362.0
463 Management Support					
460 TOTAL(SA-2)	12	324.1	29.9	8.0	362.0
400 TOTAL (SA-1)	63	1678.3	776.3	14.5	2469.1

<sup>\*</sup> Does not include Canadian Forces Weather Service

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000) . ;

## ORGANIZATION: FIELD SERVICES DIRECTORATE - ATLANTIC REGION

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services					
411 Climate Services	3	60.5	29.1		89.6
420 Reg. Consultation/Appl.	8	249.6	31.1		280.7
430 Nat. Consultation/Dev.		l	0212		200.71
410 TOTAL(SA-2)	11	310.1	60.2		370.3
450 Climate Research					370.3
451 Numerical Modelling		i i	i		i i
452 Diagnostics	1	i i	i		i
453 Processes	1	i i	i		i i
450 TOTAL(SA-2)					
460 Climate Prog. Support System		i	i		<u> </u>
461 EDP Services		İ			i i
462 Management	2	58.9	2.1	-	61.0
463 Management Support					
460 TOTAL(SA-2)	2	58.9	2.1		61.0
400 TOTAL (SA-1)	13	369.0	62.3		431.3

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

## ORGANIZATION: FIELD SERVICES DIRECTORATE - QUEBEC REGION

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services					
411 Climate Services	1	27.1	440.5		467.6
420 Reg. Consultation/Appl.	4	132.9	4.5	3.5	140.9
430 Nat. Consultation/Dev.					
410 TOTAL(SA-2)	5	160.0	445.0	3.5	608.5
450 Climate Research					
451 Numerical Modelling					
452 Diagnostics					
453 Processes					
450 TOTAL(SA-2)					
460 Climate Prog. Support System					
461 EDP Services					
462 Management	1	36.8	0.8		37.6
463 Management Support					
460 TOTAL(SA-2)	1	36.8	0.8	~~~	37.6
400 TOTAL (SA-1)	1 6	196.8	445.8	3.5	646.1

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3)
. (Nearest \$000)

ORGANIZATION: FIELD SERVICES DIRECTORATE - ONTARIO REGION

Sub-Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services					
411 Climate Services	5	116.2	34.8	3.0	154.0
420 Reg. Consultation/Appl.	4	125.8	7.8		133.6
430 Nat. Consultation/Dev.	_				
410 TOTAL(SA-2)	9	242.0	42.6	3.0	287.6
450 Climate Research				313	207.0
451 Numerical Modelling		İ			
452 Diagnostics	1	ĺ	i		
453 Processes	1		i		i
450 TOTAL(SA-2)					
460 Climate Prog. Support System					
461 EDP Services					
462 Management	2	60.2	6.4	8.0	74.6
463 Management Support					
460 TOTAL(SA-2)	2	60.2	6.4	8.0	74.6
400 TOTAL (SA-1)	11	302.2	49.0	11.0	362.2

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

#### ORGANIZATION: FIELD SERVICES DIRECTORATE - CENTRAL REGION

Sub-Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services					
411 Climate Services	3	57.9	48.8	-	106.7
420 Reg. Consultation/Appl.	1 7	220.9	14.1	*****	235.0
430 Nat. Consultation/Dev.					
410 TOTAL(SA-2)	10	278.8	62.9	CT - CT - CT - CT - CT - CT - CT - CT -	341.7
450 Climate Research					
451 Numerical Modelling					
452 Diagnostics	1				
453 Processes	!	1 1			
450 TOTAL(SA-2)					
460 Climate Prog. Support System					
461 EDP Services					
462 Management	2	58.8	5.0		63.8
463 Management Support					
460 TOTAL(SA-2)	2	58.8	5.0		63.8
400 TOTAL (SA-1)	12	337.6	67.9		405.5

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$900)

## ORGANIZATION: FIELD SERVICES DIRECTORATE - WESTERN REGION

Sub-Sub-Activity	PY	Salary	O&M	Capital	Total
410 Climate Services					
411 Climate Services	4	78.2	59.5		137.7
420 Reg. Consultation/Appl.	2	67.6	1.0		68.6
430 Nat. Consultation/Dev.	1	22.0	4.7		26.7
410 TOTAL(SA-2)	7	167.8	65.2		233.0
450 Climate Research					
451 Numerical Modelling					İ
452 Diagnostics		1			i i
453 Processes					İ
450 TOTAL(SA-2)					
460 Climate Prog. Support System					
461 EDP Services		1 1			İ
462 Management	3	62.5	10.8		73.3
463 Management Support					
460 TOTAL(SA-2)	3	62.5	10.8		73.3
400 TOTAL (SA-1)	10	230.3	76.0		306.3

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

#### ORGANIZATION: FIELD SERVICES DIRECTORATE - PACIFIC REGION

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services					
411 Climate Services	5	80.1	62.5	-	142.6
420 Reg. Consultation/Appl.	4	115.4	8.0		123.4
430 Nat. Consultation/Dev.					
410 TOTAL(SA-2)	9	195.5	70.5		266.0
450 Climate Research					
451 Numerical Modelling					
452 Diagnostics					
453 Processes					
450 TOTAL(SA-2)					
460 Climate Prog. Support System					
461 EDP Services					
462 Management	2	46.9	4.8	GEO-900 440	51.7
463 Management Support			-		
460 TOTAL(SA-2)	2	46.9	4.8		51.7
400 TOTAL (SA-1)	11	242.4	75.3		317.7

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3)
(Nearest \$000)

## ORGANIZATION: CENTRAL SERVICES DIRECTORATE

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services					1000
411 Climate Services		l			i i
420 Reg. Consultation/Appl.			i		i i
430 Nat. Consultation/Dev.		i i			i i
410 TOTAL(SA-2)					
450 Climate Research					
451 Numerical Modelling		ĺ			i i
452 Diagnostics					i i
453 Processes					i i
450 TOTAL(SA-2)					
460 Climate Prog. Support System					
461 EDP Services	40	882.7	1040.4		1923.1
462 Management					
463 Management Support					
460 TOTAL(SA-2)	40	882.7	1040.4		1923.1
400 TOTAL (SA-1)	40	882.7	1040.4		1923.1

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: CENTRAL SERVICES DIRECTORATE - COMPUTING SERVICES BRANCH

Sub-Sub-Activity	PY	Salary	M3O	Capital	Total
410 Climate Services					
411 Climate Services					
420 Reg. Consultation/Appl.					
430 Nat. Consultation/Dev.					
410 TOTAL(SA-2)					
450 Climate Research					
451 Numerical Modelling					
452 Diagnostics					
453 Processes					
450 TOTAL(SA-2)					
460 Climate Prog. Support System					
461 EDP Services	40	882.7	1040.4		1923.1
462 Management					
463 Management Support					
460 TOTAL(SA-2)	40	882.7	1040.4		1923.1
400 TOTAL (SA-1)	40	882.7	1040.4		1923.1

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

## ORGANIZATION: CANADIAN CLIMATE CENTRE

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services					
411 Climate Services	47	1056.8	65.0	25.0	1146.8
420 Reg. Consultation/Appl.			1		
430 Nat. Consultation/Dev.	46	1313.8	617.8	110.5	2042.1
410 TOTAL(SA-2)	93	2370.6	682.8	135.5	3188.9
450 Climate Research					
451 Numerical Modelling	8	288.3	15.7	3.0	307.0
452 Diagnostics	6	232.5	16.6		249.1
453 Processes	3	98.01	27.4	10.0	135.4
450 TOTAL(SA-2)	17	618.8	59.7	13.0	691.5
460 Climate Prog. Support System					
461 EDP Services					
462 Management	3	140.0	18.9		158.9
463 Management Support	6	107.4	200.1	8.2	315.7
460 TOTAL(SA-2)	9	247.4	219.0	8.2	474.6
400 TOTAL (SA-1)	119	3236.8	961.5	156.7	4355.0

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORCANIZATION: CANADIAN CLIMATE CENTRE
CLIMATOLOGICAL APPLICATIONS BRANCH

Sub-Sub-Activity	PY	Salary	M30	Capital	Total
410 Climate Services					
411 Climate Services	47	1056.8	65.0	25.0	1146.8
420 Reg. Consultation/Appl.					
430 Nat. Consultation/Dev.	41	1189.8	610.8	100.5	1901.1
410 TOTAL(SA-2)	88	2246.6	675.8	125.5	3047.9
450 Climate Research					
451 Numerical Modelling					1
452 Diagnostics	1				1
453 Processes	2	71.9	23.7	10.0	105.6
450 TOTAL(SA-2)	2	71.9	23.7	10.0	105.6
460 Climate Prog. Support System					
461 EDP Services					
462 Management	1	46.0	8.0		54.0
463 Management Support	1	17.6	1.5		19.1
460 TOTAL(SA-2)	2	63.6	9.5		73.1
400 TOTAL (SA-1)	92	2382.1	709.0	135.5	3226.6

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: CANADIAN CLIMATE CENTRE - DIRECTOR GENERAL'S OFFICE

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
410 Climate Services					
411 Climate Services			1		
420 Reg. Consultation/Appl.					1
430 Nat. Consultation/Dev.	5	124.0	7.0	10.0	141.0
410 TOTAL(SA-2)	5	124.0	7.0	10.0	141.0
450 Climate Research					
451 Numerical Modelling	8	288.3	15.7	3.0	307.0
452 Diagnostics	6	232.5	16.6		249.1
- 453 Processes	1	26.1	3.7		29.8
450 TOTAL(SA-2)	15	546.9	36.0	3.0	585.9
460 Climate Prog. Support System					
461 EDP Services					
462 Management	2	94.0	10.9		104.9
463 Management Support	5	89.8	198.6	8.2	296.6
460 TOTAL(SA-2)	7	183.8	209.5	8.2	401.5
400 TOTAL (SA-1)	27	854.7	252.5	21.2	1128.4

#### APPENDIX L

ATMOSPHERIC ENVIRONMENT SERVICE

ORGANIZATIONAL UNITS AND THEIR 1981-82 BUDGETS

CONTRIBUTING TO THE

ICE SERVICES

SUB-ACTIVITY

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

## ORGANIZATION: ATMOSPHERIC ENVIRONMENT SERVICE

Sub-Sub-Activity	PY	Salary	M30	Capital	Total
510 Ice Reconnaissance					
510 Ice Reconnaissance	28	902.2	7751.6		8653.8
510 TOTAL(SA-2)	28	902.2	7751.6		8653.8
520 Ice Forecasting					000015
521 Ice Forecasting Centre	13	401.5	50.1		451.6
522 Forecast Development	1	31.0	4.8	i	35.8
520 TOTAL(SA-2)	14	432.5	54.9		487.4
530 Ice Climate Services					
530 Ice Climate Services	4	140.9	19.5		160.4
530 TOTAL(SA-2)	4	140.9	19.5		160.4
540 Ice Services Support Systems					
541 Communication/Computers			145.1		145.1
542 Data System Dev./Maint.	1	40.0	390.4		430.4
543 Research	1	47.0	250.0	l l	297.0
544 Management	2	58.0	18.5	10.0	86.5
545 Management Support	1	36.0	2.0		38.0
540 TOTAL(SA-2)	5	181.0	806.0	10.0	997.0
500 TOTAL (SA-1)	51	1656.6	8632.0	10.0	10298.6

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

#### ORGANIZATION: CENTRAL SERVICES DIRECTORATE

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
510 Ice Reconnaissance					
510 Ice Reconnaissance	28	902.2	7751.6		8653.8
510 TOTAL(SA-2)	28	902.2	7751.6		8653.8
520 Ice Forecasting					
521 Ice Forecasting Centre	13	401.5	50.1		451.6
522 Forecast Development	1	31.0	4.8		35.8
520 TOTAL(SA-2)	14	432.5	54.9		487.4
530 Ice Climate Services					
530 Ice Climate Services	4	140.9	19.5		160.4
530 TOTAL(SA-2)	4	140.9	19.5		160.4
540 Ice Services Support Systems					
541 Communication/Computers			145.1		145.1
542 Data System Dev./Maint.	1	40.0	390.4		430.4
543 Research	1	47.0	250.0		297.0
544 Management	2	58.0	18.5	10.0	86.5
545 Management Support	1	36.0	2.0		38.0
540 TOTAL(SA-2)	5	181.0	806.0	10.0	997.0
500 TOTAL (SA-1)	51	1656.6	8632.0	10.0	10298.6

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

## ORGANIZATION: CENTRAL SERVICES DIRECTORATE - ICE BRANCH

Sub-Sub-Activity	PY	Salary	O&M	Capital	Total
510 Ice Reconnaissance				Japian	10001
510 Ice Reconnaissance	28	902.2	7751.6		8653.8
510 TOTAL(SA-2)	28	902.2	7751.6		8653.8
520 Ice Forecasting			7,31,0		0033.0
521 Ice Forecasting Centre	13	401.5	50.1		451.6
522 Forecast Development	1	31.0	4.8	İ	35.8
520 TOTAL(SA-2)	14	432.5	54.9		487.4
530 Ice Climate Services					707.4
530 Ice Climate Services	4	140.9	19.5		160.4
530 TOTAL(SA-2)	4	140.9	19.5	i	160.4
540 Ice Services Support Systems				i	100.4
541 Communication/Computers		i	145.1	i	145.1
542 Data System Dev./Maint.	1	40.0	390.4		430.4
543 Research	1	47.0	150.0	i	197.0
544 Management	2	58.0	18.5	10.0	86.5
545 Management Support	1	36.0	2.0		38.0
540 TOTAL(SA-2)	5	181.0	706.0	10.0	897.0
			Ī		
500 TOTAL (SA-1)	51	1656.6	8532.0	10.0	10198.6

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: CENTRAL SERVICES DIRECTORATE - DIRECTOR GENERAL'S OFFICE

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
510 Ice Reconnaissance		0			
510 Ice Reconnaissance					
510 TOTAL(SA-2)					
520 Ice Forecasting		1			
521 Ice Forecasting Centre					[
522 Forecast Development					
520 TOTAL(SA-2)					
530 Ice Climate Services					
530 Ice Climate Services					
530 TOTAL(SA-2)					
540 Ice Services Support Systems					!
541 Communication/Computers				!	]
542 Data System Dev./Maint.					!
543 Research			100.0		100.0
544 Management	1				]
545 Management Support					
540 TOTAL(SA-2)			100.0		100.0
500 TOTAL (SA-1)			100.0	0000000000	100.0

#### APPENDIX M

ATMOSPHERIC ENVIRONMENT SERVICE

ORGANIZATIONAL UNITS AND THEIR 1981-82 BUDGETS

CONTRIBUTING TO THE

AIR QUALITY SERVICES AND ATMOSPHERIC RESEARCH

SUB-ACTIVITY

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

#### ORGANIZATION: ATMOSPHERIC ENVIRONMENT SERVICE

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
610 Air Quality Services					
610 Air Quality Services			1		
610 TOTAL (SA-2)					
630 Air Quality Research					
631 Dynamics	20	604.0	211.2	103.0	918.2
635 Air Quality Monitoring	5	119.5	1.9		121.4
640 Impacts and Criteria	12	293.1	105.2	64.0	462.3
650 Processes	22	831.8	217.9	79.0	1128.7
630 TOTAL (SA-2)	59	1848.4	536.2	246.0	2630.6
660 Research - Other					
661 Stratospheric Pollution	6	215.9	363.4	128.0	707.3
662 Atmospheric Radiation	4	142.0	10.0	5.0	157.0
663 Ozone Monitoring	7	227.9	40.0	35.0	302.9
664 Solar Energy			200.0	100.0	300.0
665 Wind Energy	2	72.0	65.8	6.0	143.8
666 Cloud/Precip. Physics	3	104.8	31.8	55.0	191.6
667 Weather Modification	6	174.7	118.0	33.0	325.7
660 TOTAL (SA-2)	28	937.3	829.0	362.0	2128.3
670 Air Quality and Research Supp	port				
671 Management	12	393.0	203.6	43.4	640.0
672 Management Support					
673 Instrument Support to Res.	1				
674 PhD Leave	3	48.0	2.5		50.5
675 EDP Services	4	82.6			82.6
676 Visiting Fellowships			105.4		105.4
670 TOTALS (SA-2)	19	523.6	311.5	43.4	878.5
600 TOTAL (SA-1)	106	3309.3	1676.7	651.4	5637.4

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

#### ORGANIZATION: ATMOSPHERIC RESEARCH DIRECTORATE

Sub-Sub-Activity	PY	Salary	M.3O	Capital	Total
610 Air Quality Services					
610 Air Quality Services		1			
610 TOTAL (SA-2)					
630 Air Quality Research					
631 Dynamics	20	604.0	211.2	103.0	918.2
635 Air Quality Monitoring	5	119.5	1.9		121.4
640 Impacts and Criteria	12	293.1	105.2		462.3
650 Processes	22	831.8	217.9		
630 TOTAL (SA-2)	59	1848.4	536.2	246.0	2630.6
660 Research - Other					
661 Stratospheric Pollution	6	215.9	363.4	128.0	
662 Atmospheric Radiation	4	142.0	10.0	5.0	500 200 2
663 Ozone Monitoring	7	227.9	40.0	35.0	302.9
664 Solar Energy			200.0	100.0	300.0
665 Wind Energy	2	72.0	65.8	6.0	
666 Cloud/Precip. Physics	3	104.8	31.8	55.0	191.6
667 Weather Modification	6	174.7	118.0	33.0	
660 TOTAL (SA-2)	28	937.3	829.0	362.0	2128.3
670 Air Quality and Research Supp	port				
671 Management	12	393.0	203.6	43.4	640.0
672 Management Support					
673 Instrument Support to Res.					
674 PhD Leave	3	48.0	2.5		50.5
675 EDP Services					
676 Visiting Fellowships	1		105.4		105.4
670 TOTALS (SA-2)	15	441.0	311.5	43.4	795.9
600 TOTAL (SA-1)	102	3226.7	1676.7	651.4	5554.8

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: ATMOSPHERIC RESEARCH DIRECTORATE
METEOROLOGICAL SERVICES RESEARCH BRANCH

Sub-Sub-Sub-Activity	PY	Salary	M30	Capital	Total
610 Air Quality Services					
610 Air Quality Services					
610 TOTAL (SA-2)					
630 Air Quality Research				I	1
631 Dynamics					
635 Air Quality Monitoring					
640 Impacts and Criteria				ļ	
650 Processes					
630 TOTAL (SA-2)					
660 Research - Other					
661 Stratospheric Pollution					
662 Atmospheric Radiation					
663 Ozone Monitoring		[			
664 Solar Energy					1 1 1 0 0
665 Wind Energy	2	72.0	65.8	6.0	143.8
666 Cloud/Precip. Physics		1		-	
667 Weather Modification					142.0
660 TOTAL (SA-2)	2	72.0	65.8	6.0	143.8
670 Air Quality and Research Supp	port			 	
671 Management	!			1	1
672 Management Support		!		1	1 1
673 Instrument Support to Res.				1	! ! ! !
674 PhD Leave	!			1	1 1
675 EDP Services		ļ			1 1
676 Visiting Fellowships				1	
670 TOTALS (SA-2)				1	
		70.0	65.8	6.0	143.8
600 TOTAL (SA-1)	2	72.0	1 65.8	1 0.0	143.01

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3)
(Nearest \$000)

ORGANIZATION: ATMOSPHERIC RESEARCH DIRECTORATE
ATMOSPHERIC PROCESSES RESFARCH BRANCH

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
610 Air Quality Services					
610 Air Quality Services				1	1
610 TOTAL (SA-2)					
630 Air Quality Research		,			
631 Dynamics					
635 Air Quality Monitoring			1		1
640 Impacts and Criteria				1	
650 Processes					
630 TOTAL (SA-2)					
660 Research - Other					
661 Stratospheric Pollution	6	215.9	363.4	128.0	707.3
662 Atmospheric Radiation	4	142.0	10.0	5.0	157.0
663 Ozone Monitoring	7	227.9	40.0	35.0	302.9
664 Solar Energy			200.0	100.0	300.0
665 Wind Energy					
666 Cloud/Precip. Physics	3	104.8	31.8	55.0	191.6
667 Weather Modification	6	174.7	118.0	33.0	325.7
660 TOTAL (SA-2)	26	865.3	763.2	356.0	1984.5
670 Air Quality and Research Supp	port				
671 Management	2	70.4	25.5	4.0	99.9
672 Management Support					
673 Instrument Support to Res.					
674 PhD Leave					
675 EDP Services	1	1			
676 Visiting Fellowships	1				
670 TOTALS (SA-2)	2	70.4	25.5	4.0	99.9
600 TOTAL (SA-1)	28	935.7	788.7	360.0	2084.4

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: ATMOSPHERIC RESEARCH DIRECTORATE

AIR QUALITY AND INTER-ENVIRONMENTAL RESEARCH BRANCH

Sub-Sub-Sub-Activity	PY	Salary	M30	Capital	Total
610 Air Quality Services					
610 Air Quality Services					
610 TOTAL (SA-2)					
630 Air Quality Research					
631 Dynamics	20	604.0	211.2		
635 Air Quality Monitoring	5	119.5			121.4
640 Impacts and Criteria	12	293.1			
650 Processes	22	831.8			
630 TOTAL (SA-2)	59	1848.4	536.2	246.0	2630.6
660 Research - Other					
661 Stratospheric Pollution					!!!
662 Atmospheric Radiation					
663 Ozone Monitoring					
664 Solar Energy		1	!	1	!!!
665 Wind Energy				!	
666 Cloud/Precip. Physics		1		1	
667 Weather Modification					
660 TOTAL (SA-2)					
670 Air Quality and Research Sup			1 200 0	04.0	225 2
671 Management	6	179.0	122.2	24.0	325.2
672 Management Support	!	1		1	
673 Instrument Support to Res.	1	ļ.			
674 PhD Leave	!			1	1 1
675 EDP Services	ļ	1		1	
676 Visiting Fellowships			100.0	1 24 0	325.2
670 TOTALS (SA-2)	6	179.0	122.2	24.0	325.2
		1 2007 1	(50.4	270.0	2955.8
600 TOTAL (SA-1)	65	2027.4	658.4	270.0	2955.0

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$900)

ORGANIZATION: AIMOSPHERIC RESEARCH DIRECTORATE - DIRECTOR GENERAL'S OFFICE

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
610 Air Quality Services					
610 Air Quality Services					1
610 TOTAL (SA-2)					
630 Air Quality Research					
631 Dynamics					
635 Air Quality Monitoring					
640 Impacts and Criteria					
650 Processes					
630 TOTAL (SA-2)					
660 Research - Other					
661 Stratospheric Pollution					
662 Atmospheric Radiation					
663 Ozone Monitoring					
664 Solar Energy					
665 Wind Energy					
666 Cloud/Precip. Physics					
667 Weather Modification					
660 TOTAL (SA-2)					
670 Air Quality and Research Supp	ort				
671 Management	7*	143.6	55.9	15.4	214.9
672 Management Support					
673 Instrument Support to Res.					
674 PhD Leave	-	48.0	2.5		50.5
675 EDP Services	1			ĺ	
676 Visiting Fellowships			105.4		105.4
670 TOTALS (SA-2)	7*	191.6	163.8	15.4	370.8
	1				
600 TOTAL (SA-1)	7*	191.6	163.8	15.4	370.8

<sup>\*</sup> Three PY's are for post M.Sc. project meteorologists. PY's are held in the DG's office but salaries are distributed among Branches.

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

### ORGANIZATION: CENTRAL SERVICES DIRECTORATE

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
610 Air Quality Services					
610 Air Quality Services					
610 TOTAL (SA-2)					
630 Air Quality Research					
631 Dynamics					
635 Air Quality Monitoring					
640 Impacts and Criteria				!	
650 Processes					
630 TOTAL (SA-2)					
660 Research - Other					
661 Stratospheric Pollution					
662 Atmospheric Radiation				ļ	
663 Ozone Monitoring					
664 Solar Energy					
665 Wind Energy		]			[ [
666 Cloud/Precip. Physics		!!!		1	. !
667 Weather Modification					[
660 TOTAL (SA-2)					
670 Air Quality and Research Supp	ort.				
671 Management		. !			
672 Management Support					
673 Instrument Support to Res.					1 1
674 PhD Leave	1				
675 EDP Services	4	82.6			82.6
676 Visiting Fellowships				+	00 6
670 TOTALS (SA-2)	4	82.6		-	82.6
COO MOMAT (CA 1)	1 1	02.6		-	82.6
600 TOTAL (SA-1)	4	82.6			02.0

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: CENTRAL SERVICES DIRECTORATE - COMPUTING SERVICES BRANCH

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
610 Air Quality Services					
610 Air Quality Services	1				
610 TOTAL (SA-2)					
630 Air Quality Research					1
631 Dynamics				1	
635 Air Quality Monitoring			1	1	1
640 Impacts and Criteria			1	1	i
650 Processes			1	+	
630 TOTAL (SA-2)	ļ		<u> </u>	-	i
660 Research - Other		1	1	i	i i
661 Stratospheric Pollution	1	1	1	i	1
662 Atmospheric Radiation	1	1		i	1
663 Ozone Monitoring	1		1	i	į 1
664 Solar Energy		1	1	İ	
665 Wind Energy	1		i	i	
666 Cloud/Precip. Physics	1	1	i	i	
667 Weather Modification		+	<del>-</del>		
660 TOTAL (SA-2)	1	+	+		
670 Air Quality and Research Sup	port			i	
671 Management	i	1	ì	İ	
672 Management Support	1	1	i		
673 Instrument Support to Res.	• !		i	İ	
674 PhD Leave	1	4 82.	6		82.6
675 EDP Services		41 02.		į	
676 Visiting Fellowships	+	4 82.	6		82.6
670 TOTALS (SA-2)	-	1 02.			
600 moral (C3 1)	-	4 82.	6	~~-	82.6
600 TOTAL (SA-1)		-1			

#### APPENDIX N

ATMOSPHERIC ENVIRONMENT SERVICE

ORGANIZATIONAL UNITS AND THEIR 1981-82 BUDGETS

CONTRIBUTING TO THE

DEPARIMENTAL INTEGRATED PROGRAMS

SUB-ACTIVITY

## SUB-ACTIVITY: 700 DEPARTMENTAL INTEGRATED PROGRAMS

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: Atmospheric Environment Service

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
710 EARP					
710 EARP				1	
710 TOTALS(SA-2)					
720 LRTAP					
720 LRTAP	4	110.0	752.0	94.0	956.0
720 TOTALS (SA-2)	4	110.0	752.0	94.0	956.0
730 Toxic Chemicals					
730 Toxic Chemicals					
730 TOTALS (SA-2)					
740 Great Lakes Water Quality					
740 Great Lakes Water Quality					
740 TOTALS(SA-2)					
750 Baseline Studies					
750 Baseline Studies					
750 TOTALS(SA-2)					
700 TOTAL (SA-1)	4	110.0	752.0	94.0	956.0

# SUB-ACTIVITY: 700 DEPARTMENTAL INTEGRATED PROGRAMS

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: ASSISTANT DEPUTY MINISTER

Sub-Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
710 EARP					
710 EARP					İ
710 TOTALS(SA-2)	T				
720 LRTAP	T				
720 LRTAP	2	60.0	25.0		85.0
J20 TOTALS (SA-2)	2	60.0	25.0		85.0
730 Toxic Chemicals					
730 Toxic Chemicals					i i
730 TOTALS (SA-2)					
740 Great Lakes Water Quality					
740 Great Lakes Water Quality		i i	i		i
740 TOTALS(SA-2)					
750 Baseline Studies					
750 Baseline Studies		l i	i		İ
750 TOTALS(SA-2)			i		
700 TOTAL (SA-1)	2	60.0	25.0		85.0

# SUB-ACTIVITY: 700 DEPARIMENTAL INTEGRATED PROGRAMS

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

#### ORGANIZATION: ATMOSPHERIC RESEARCH DIRECTORATE

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
710 EARP					
710 EARP					
710 TOTALS(SA-2)					
710 TOTALS (SA-2) 720 LRTAP					
720 LRTAP	2	50.0	727.0	94.0	871.0
720 TOTALS (SA-2)					
730 Toxic Chemicals					
730 Toxic Chemicals					
730 TOTALS (SA-2)					
740 Great Lakes Water Quality					
740 Great Lakes Water Quality					
740 TOTALS(SA-2)					
750 Baseline Studies					
750 Baseline Studies				1	<u> </u>
750 TOTALS(SA-2)					
700 TOTAL (SA-1)	2	50.0	727.0	94.0	871.0

# SUB-ACTIVITY: 700 DEPARTMENTAL INTEGRATED PROGRAMS

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: ATMOSPHERIC RESEARCH DIRECTORATE - AIR QUALITY AND INTER-ENVIRONMENTAL RESEARCH BRANCH

Sub-Sub-Sub-Activity	PY	Salary	M30	Capital	Total
710 EARP				1	
710 EARP					
710 TOTALS(SA-2)					
720 LRTAP			707.0	04.0	871.0
720 LRTAP	2	50.0	727.0	94.0	8/1.0
720 TOTALS (SA-2)					
730 Toxic Chemicals				1	
730 Toxic Chemicals					
730 TOTALS (SA-2)	1				
740 Great Lakes Water Quality				1	1
740 Great Lakes Water Quality				<u> </u>	
740 TOTALS(SA-2)					
750 Baseline Studies					1
750 Baseline Studies				<u> </u>	
750 TOTALS(SA-2)					
	1	1 50 0	707.0	94.0	871.0
700 TOTAL (SA-1)	2	50.0	727.0	94.0	0/1.01

#### APPENDIX O

ATMOSPHERIC ENVIRONMENT SERVICE

ORGANIZATIONAL UNITS AND THEIR 1981-82 BUDGETS

CONTRIBUTING TO THE

MANAGEMENT AND COMMON SUPPORT SYSTEMS

SUB-ACTIVITY

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: ATMOSPHERIC ENVIRONMENT SERVICE

Sub-Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
810 Management					
811 Departmental Management	5	148.0	13.2		161.2
820 Management Support	17	774.8	231.4		1006.2
810 TOTAL (SA-2)	22	922.8	244.6		1167.4
830 Common Support Services					
831 Personnel Services			131.0		131.0
840 Financial Services	18	4616.6	1804.0	49.6	6470.2
850 General Administration	45	897.0	1600.8	66.4	2564.2
860 Public Information			144.0		144.0
870 Publications	6	75.5	136.8		212.3
880 Library Services	9	189.1	85.0	5.0	279.1
890 Grants/Contributions	1		965.2		965.2
830 TOTAL (SA-2)	78	5778.2	4866.8	121.0	10766.0
800 TOTAL (SA-1)	100	6701.0	5111.4	121.0	11933.4

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

#### ORGANIZATION: ASSISTANT DEPUTY MINISTER

Sub-Sub-Activity	PY	Salary	M30	Capital	Total
810 Management					
811 Departmental Management	5	148.0	13.2		161.2
820 Management Support	10	585.4	136.9		722.3
810 TOTAL (SA-2)	15	733.4	150.1		883.5
830 Cammon Support Services					
831 Personnel Services				8	
840 Financial Services					
850 General Administration					
860 Public Information					
870 Publications					
880 Library Services		1			
890 Grants/Contributions		1 1			
830 TOTAL (SA-2)					
800 TOTAL (SA-1)	15	733.4	150.1		883.5

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORCANIZATION: ADMINISTRATION BRANCH

Sub-Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
810 Management					
811 Departmental Management		00.1	FF 0		143.1
820 Management Support	3	88.1	55.0		143.1
810 TOTAL (SA-2)	3	88.1	55.0		143.1
830 Common Support Services 831 Personnel Services 840 Financial Services 850 General Administration 860 Public Information 870 Publications 880 Library Services	   18   45   3   9	4616.6   897.0       60.6   189.1	90.0 1804.0 1599.8 140.0 109.5 85.0 965.2	66.4       5.0	140.0 170.1
890 Grants/Contributions 830 TOTAL (SA-2)	75	5763.3	4793.5	121.0	10677.8
- 650 TOTAL (0.1.2)	Ť	T			
800 TOTAL (SA-1)	78	5851.4	4848.5	121.0	10820.9

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: FIELD SERVICES DIRECTORATE (HEADQUARTERS + REGIONS)\*

Sub-Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
810 Management			-		
811 Departmental Management		!	-	 	
820 Management Support				1	
810 TOTAL (SA-2)					
830 Common Support Services	1		   41.0	1	41.0
831 Personnel Services			1 41.0		11.01
840 Financial Services	1		1		i i
850 General Administration	1		4.0	i	4.0
860 Public Information	1	1	1 4.0	İ	
870 Publications	1			Ì	i i
880 Library Services	1	1	1	İ	1
890 Grants/Contributions	-		45.0	)	45.0
830 TOTAL (SA-2)			1		
	-		45.0	)	45.0
800 TOTAL (SA-1)			1300	1	

<sup>\*</sup> Does not include Canadian Forces Weather Service

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORCANIZATION: FIELD SERVICES DIRECTORATE - ATLANTIC REGION

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
810 Management					İ
811 Departmental Management					
820 Management Support					
810 TOTAL (SA-2)					
830 Common Support Services					20.01
831 Personnel Services			38.0		38.0
840 Financial Services	!	1		1	1
850 General Administration					
860 Public Information	!				
870 Publications			1		
880 Library Services		1	!	1	1
890 Grants/Contributions					1
830 TOTAL (SA-2)			38.0		38.0
					20.0
800 TOTAL (SA-1)			38.0		38.0

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

ORGANIZATION: FIELD SERVICES DIRECTORATE - PACIFIC REGION

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
810 Management					
811 Departmental Management					
820 Management Support					
810 TOTAL (SA-2)					
830 Common Support Services					
831 Personnel Services			3.0		3.0
840 Financial Services				!	
850 General Administration					
860 Public Information			4.0		4.0
870 Publications					
880 Library Services					
890 Grants/Contributions					
830 TOTAL (SA-2)			7.0		7.0
800 TOTAL (SA-1)	0	0.0	7.0		7.0

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

#### ORGANIZATION: CENTRAL SERVICES DIRECTORATE

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
810 Management					
811 Departmental Management					
820 Management Support	4	101.3	39.5		140.8
810 TOTAL (SA-2)	4	101.3	39.5		140.8
830 Common Support Services					
831 Personnel Services	!				!!!
840 Financial Services					!
850 General Administration	1		1.0		1.0
860 Public Information					
870 Publications	3	14.9	27.3		42.2
880 Library Services					
890 Grants/Contributions					
830 TOTAL (SA-2)	3	14.9	28.3		43.2
800 TOTAL (SA-1)	7	116.2	67.8		184.0

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

## ORGANIZATION: CENTRAL SERVICES DIRECTORATE - DATA ACQUISITION SERVICES BRANCH

Sub-Sub-Activity	PY	Salary	M30	Capital	Total
810 Management					
811 Departmental Management	1	ĺ			
820 Management Support					
810 TOTAL (SA-2)					
830 Common Support Services					
831 Personnel Services					
840 Financial Services					
850 General Administration			1.0		1.0
860 Public Information					1
870 Publications	3	14.9	27.3		42.2
880 Library Services					
890 Grants/Contributions				1	
830 TOTAL (SA-2)	3	14.9	28.3		43.2
800 TOTAL (SA-1)	3	14.9	28.3		43.2

1981-82 Budget by Sub-Sub-Activity (SA-2) and Sub-Sub-Sub-Activity (SA-3) (Nearest \$000)

## ORGANIZATION: CENTRAL SERVICES DIRECTORATE - DIRECTOR GENERAL'S OFFICE

Sub-Sub-Activity	PY	Salary	M&O	Capital	Total
810 Management					
811 Departmental Management					
820 Management Support	4	101.3	39.5		140.8
810 TOTAL (SA-2)	4	101.3	39.5		140.8
830 Common Support Services	,				
831 Personnel Services	!				
840 Financial Services					
850 General Administration					1
860 Public Information					1
870 Publications					
880 Library Services					1
890 Grants/Contributions		1			1
830 TOTAL (SA-2)					
800 TOTAL (SA-1)	4	101.3	39.5		140.8

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