



CANADIAN Climate Summary

August 1996

Monthly review of Canadian climate and water

vol. 1

CLIMATIC HIGHLIGHTS

August 1996

August 31st - As the month comes to a close, this month's coldest temperature, -13° , is recorded at Mould Bay.

August 9th - The mercury at Osoyoos hits 41° , the highest temperature in the country this August, and the fifth month in a row that this Okanagan location has been Canada's hot spot.

August 5th-8th - The lower Great Lakes and St. Lawrence valley experience one of their few hot and humid periods of the summer. Daytime highs reach into the mid-thirties and humidex values exceed 40. For many locations, this is the only time this summer that temperatures top 30° . The hot and humid air mass that settles over the area also brings with it an increase in air pollution, prompting the issuance of summer's only air quality advisories.

August 2nd - Severe weather blows through north-central Alberta. In areas to the west and south of Edmonton, heavy rains flood campgrounds, hail smashes windshields, and strong winds snap trees. Funnel clouds are reported east of Leduc.

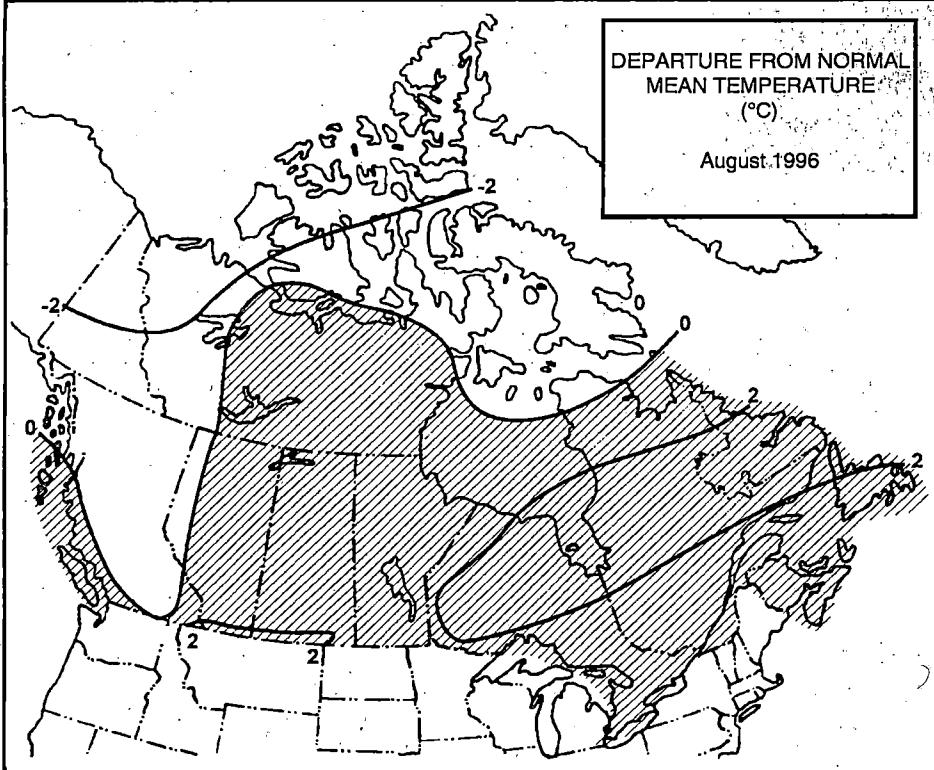
August 30th - An unusually long heat wave comes to an end in southern Alberta. Calgary's five consecutive days with temperatures exceeding 30° is the longest such streak since July 1979. At Lethbridge, the string is longer, lasting from the 23rd to the 30th, but somewhat short of an eleven day heat wave in July 1985.

August 2nd - Heavy thunderstorms pound the areas near Lake Winnipegosis. At Duck Bay a tornado is suspected. Several buildings are damaged and hydro service is disrupted. The same storm system drops golfball-sized hail and more than 100 mm of rain at Swan River, flooding fields and ruining crops.

The sunniest August on record at Gander. A little over 280 hours of bright sunshine are recorded, almost 100 more than normal.

August 8th - A brief heat wave comes to an end when a cold front sweeps through southern parts of Ontario and Quebec spawning thunderstorms with exceptionally heavy rainfalls. In the Ottawa area, over 75 mm of rain falls in just a few hours. Sewer systems are unable to handle the sudden load, forcing the release of untreated sewage into the Ottawa River. In several places rescuers have to swim to cars that are submerged in flooded underpasses. Widespread basement flooding and power outages are reported on both sides of the Ottawa River. More flooding occurs in Quebec's Eastern Townships, where rising waters result in the evacuation of 400 people living east of Sherbrooke.

CANADIAN CLIMATE SUMMARY VOLUME 1



DEPARTURE FROM NORMAL
MEAN TEMPERATURE
(°C)

August 1996

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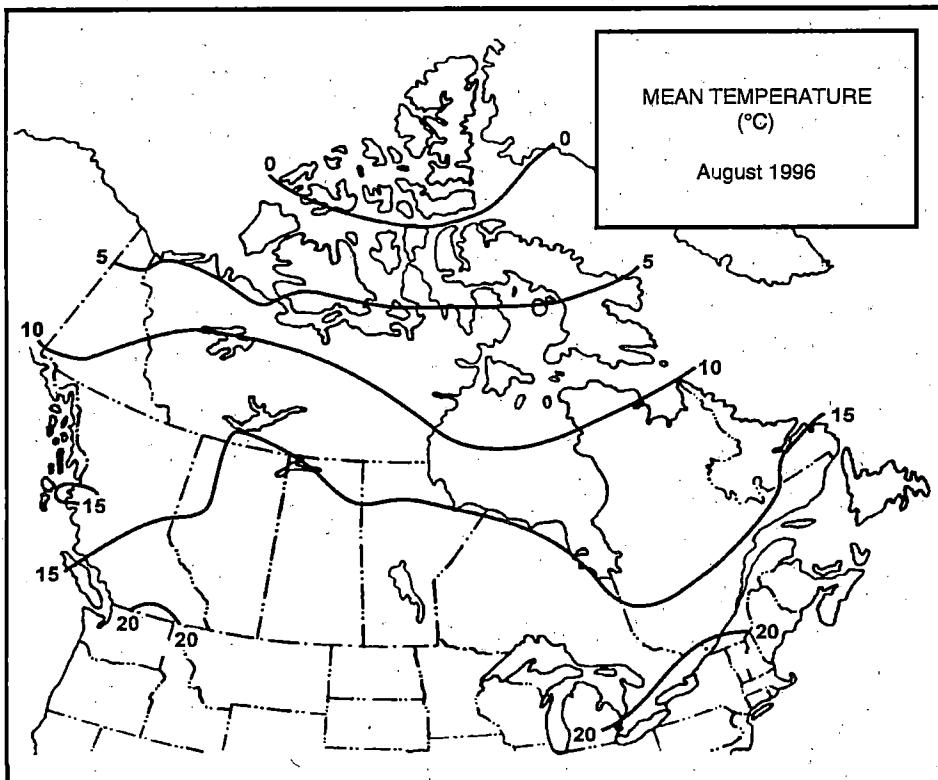
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MEAN TEMPERATURE
(°C)

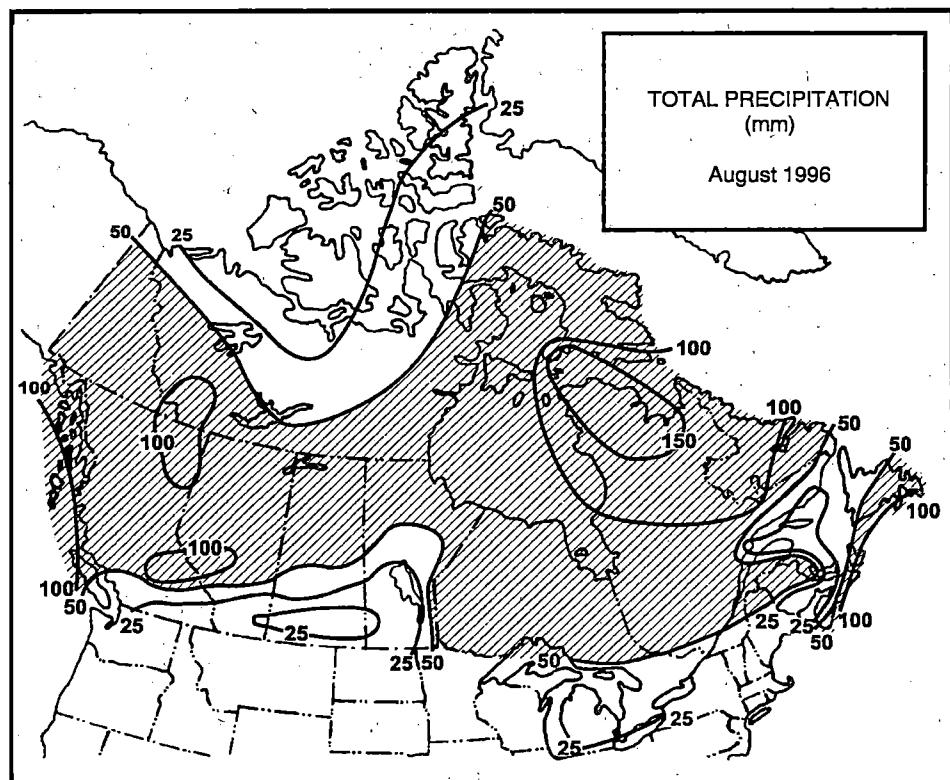
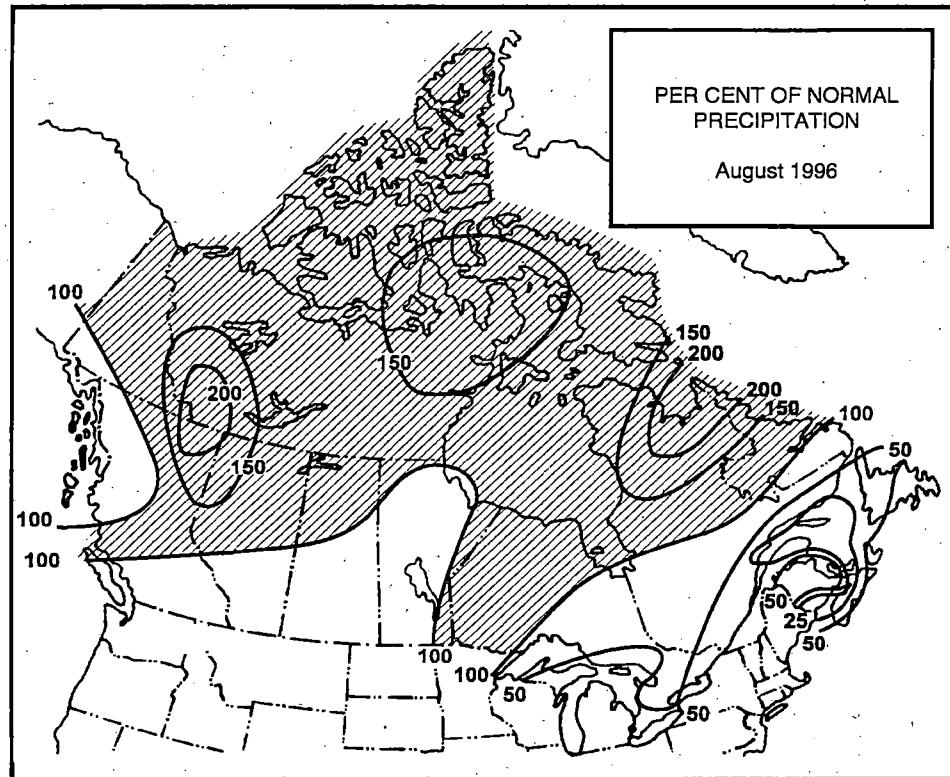
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Weather Extremes, August 1996

		Maximum temperature (°C)		Minimum temperature (°C)		Greatest precipitation (mm)
British Columbia	OSOYOOS CS	40.8	BIG CREEK	-3.2	MCINNES ISLAND	166.0
Yukon Territory	HAINES JUNCTION	23.5	OLD CROW	-9.1	WATSON LAKE A	50.0
Northwest Territories	FORT SMITH A	28.3	MOULD BAY CAMP	-13.4	CAPE DORSET A	154.0
Alberta	LETHBRIDGE A	36.8	WILLOW CREEK 1	-3.2	WHITECOURT A	141.7
Saskatchewan	PENNANT	38.0	STONY RAPIDS A	-0.6	LA RONGE A	81.3
Manitoba	MCCREARY	36.0	THOMPSON A	-0.8	SWAN RIVER	210.6
Ontario	BELLE RIVER	34.1	TIMMINS A	-0.4	KENORA A	173.6
Quebec	BAGOTVILLE A	33.2	KUJJUAQ	-1.3	KUJJUAQ A	151.6
New Brunswick	CHARLO A	32.7	ST LEONARD A	3.8	ST LEONARD A	85.6
Nova Scotia	GREENWOOD A	31.6	WILLIAMSDALE	4.5	SYDNEY A	106.4
Prince Edward Island	CHARLOTTETOWN A	30.4	CHARLOTTETOWN A	9.2	CHARLOTTETOWN A	8.6
Newfoundland	GOOSE A	35.3	CAPE KAKKIVIAK	-4.2	WABUSH LAKE A	117.6

Across The Country...

Highest Monthly Mean Temperature	WINDSOR	ONT	22.4	°C
Lowest Monthly Mean Temperature	MOULD BAY CAMP	NWT	-1.7	°C
Highest Temperature	OSOYOOS CS	BC	40.8	°C
Lowest Temperature	MOULD BAY CAMP	NWT	-13.4	°C
Heaviest Monthly Precipitation	SWAN RIVER	MAN	210.6	mm
Greatest Number of Bright Sunshine Hours	YORKTON A	SASK	355.6	hrs

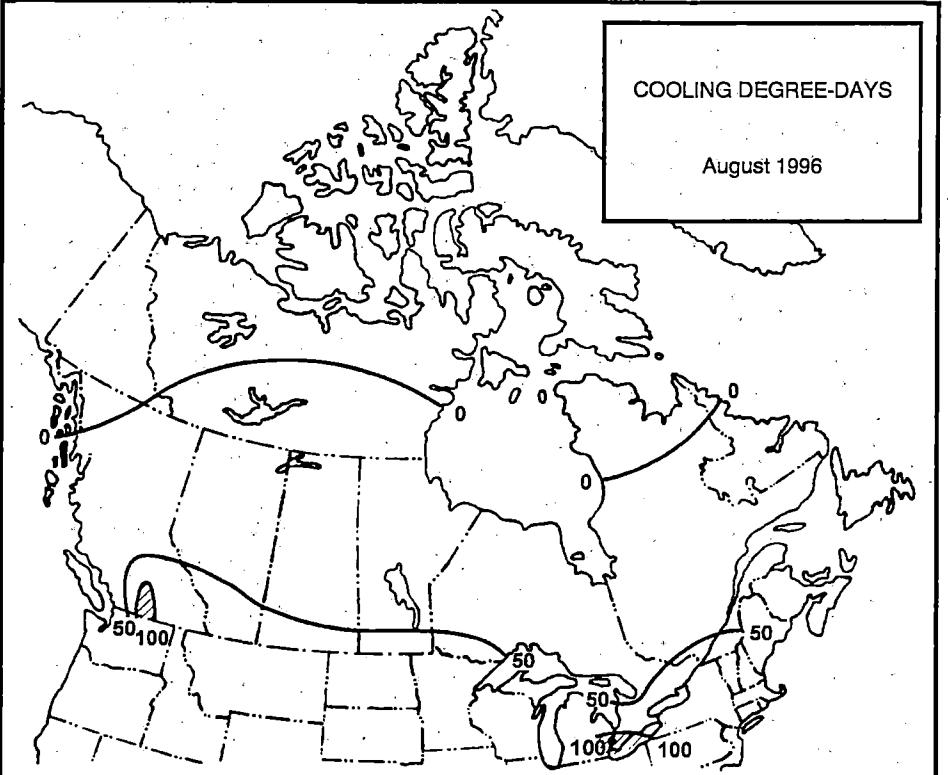


SEASONAL TOTAL OF COOLING
DEGREE-DAYS TO END OF AUGUST

	1996	1995	Normal
British Columbia			
VICTORIA INT'L A	40	32	20
PRINCE GEORGE A	9	*	19
VANCOUVER INT'L A	57	52	36
PENTICTON A	190	174	197
KAMLOOPS A	243	217	238
Yukon Territory			
WATSON LAKE A	*	*	11
North West Territories			
INUVIK A	*	*	18
YELLOWKNIFE A	46	13	32
IQALUIT A	0	0	0
RESOLUTE A	0	0	0
Alberta			
EDMONTON INT'L A	18	13	32
CALGARY INT'L A	35	9	42
MEDICINE HAT A	183	*	188
PEACE RIVER A	14	*	26
Saskatchewan			
MOOSE JAW A	159	163	177
REGINA A	*	142	148
PRINCE ALBERT A	69	68	72
SASKATOON A	95	85	121
Manitoba			
BRANDON A	116	*	124
WINNIPEG INT'L A	*	258	180
CHURCHILL A	26	16	14
LYNN LAKE A	46	*	40
THOMPSON A	45	57	40
Ontario			
KENORA A	162	239	158
THUNDER BAY A	*	*	66
SUDSBURY A	86	202	125
KAPUSKASING A	88	154	76
NORTH BAY A	76	182	105
OTTAWA INT'L A	206	297	217
WINDSOR A	362	463	349
LONDON A	*	313	204
TORONTO INT'L A	194	335	209
Quebec			
MONTREAL INT'L A	197	*	220
SHERBROOKE A	*	*	92
SEPT-ILES A	15	29	9
MONT JOLI A	72	119	67
BAGOTVILLE A	100	172	90
VAL D'OR A	62	147	79
New Brunswick			
FREDERICTON A	86	174	133
MONCTON A	70	121	91
SAINT JOHN A	14	40	31
Nova Scotia			
GREENWOOD A	103	147	122
YARMOUTH A	2	32	15
Prince Edward Island			
CHARLOTTETOWN A	70	*	89
Newfoundland			
GANDER INT'L A	55	35	46
ST JOHN'S A	34	29	31
GOOSE A	54	45	40

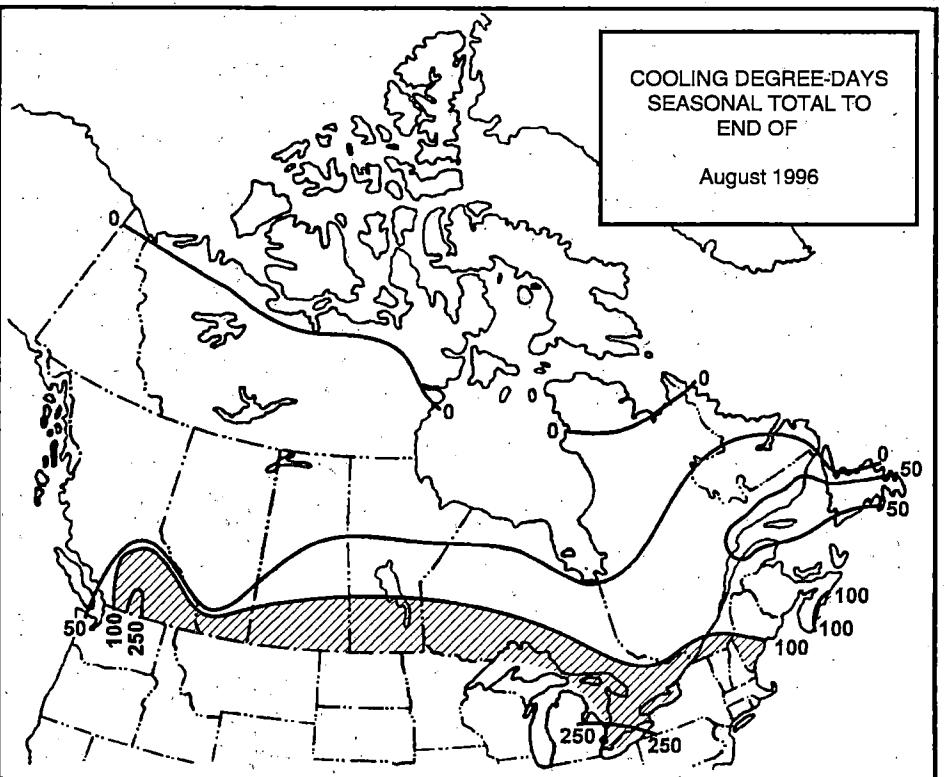
COOLING DEGREE-DAYS

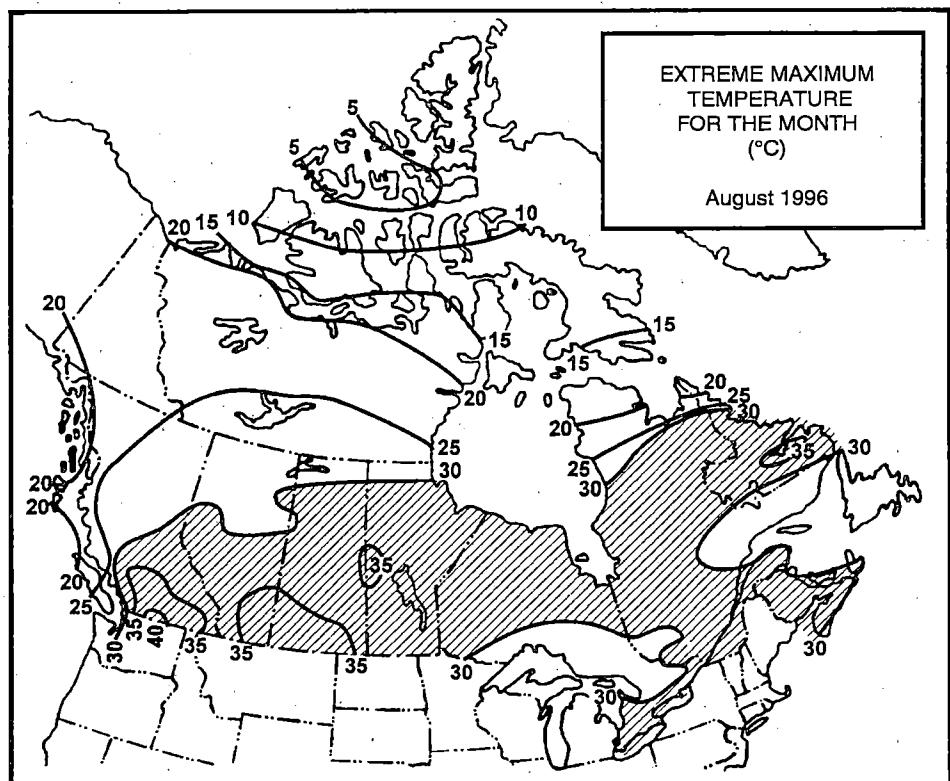
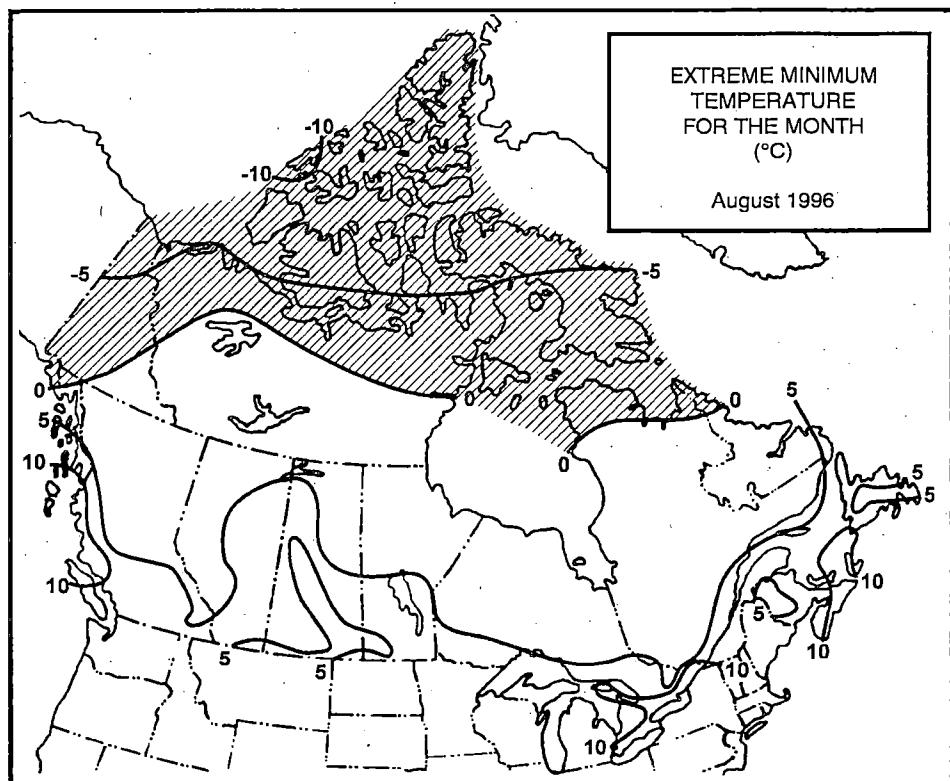
August 1996



COOLING DEGREE-DAYS
SEASONAL TOTAL TO
END OF

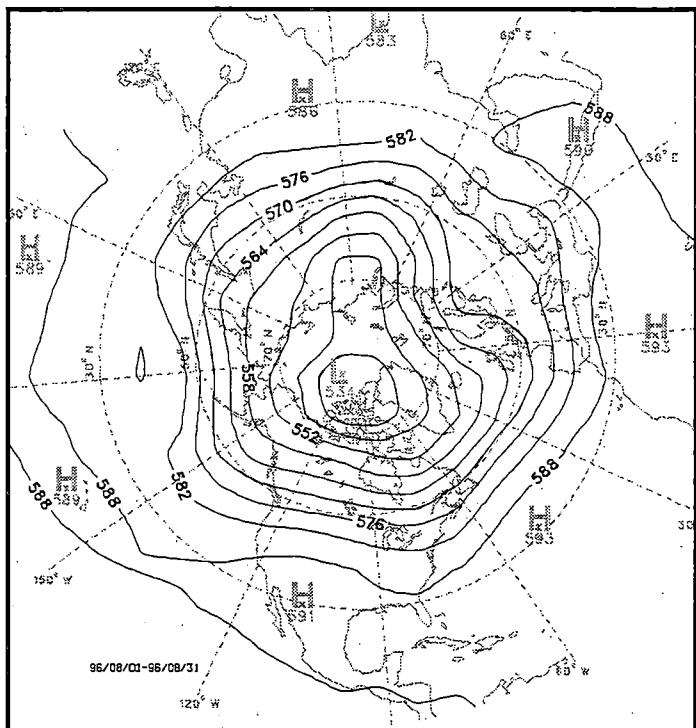
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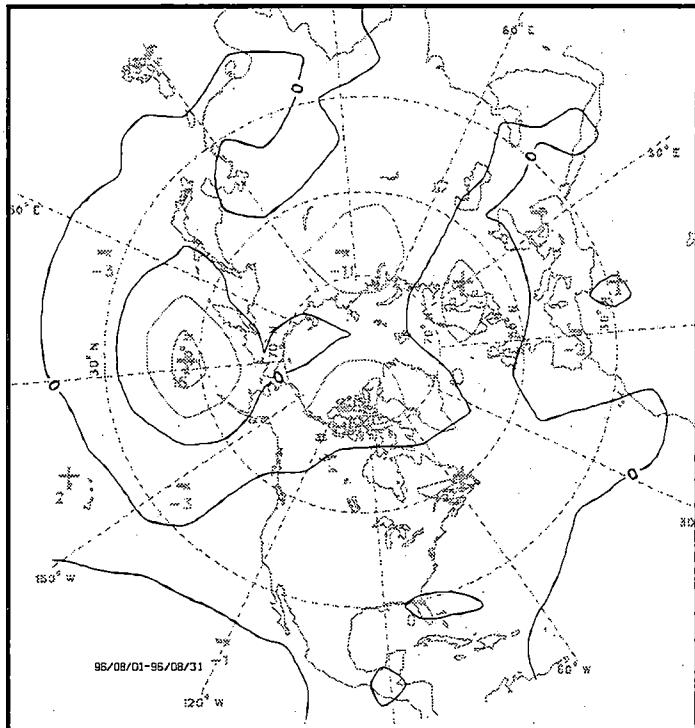


50-kPa ATMOSPHERIC CIRCULATION

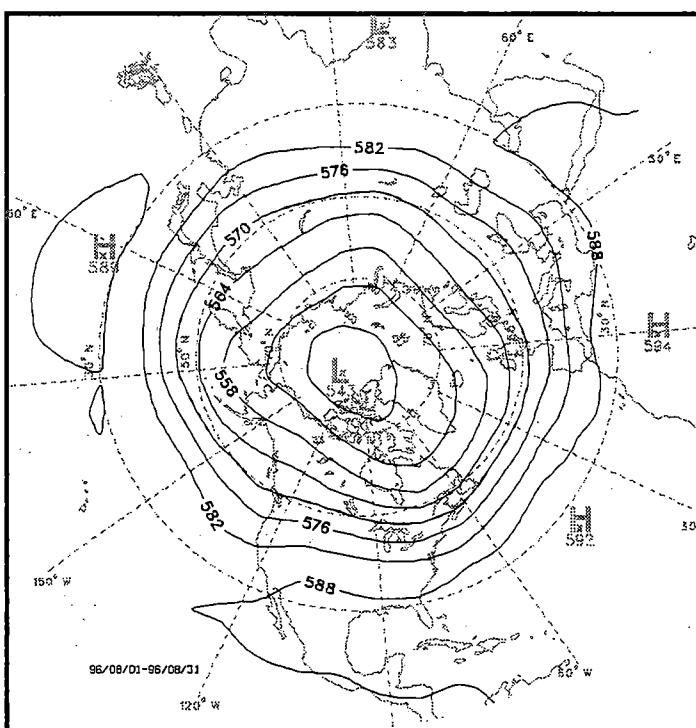
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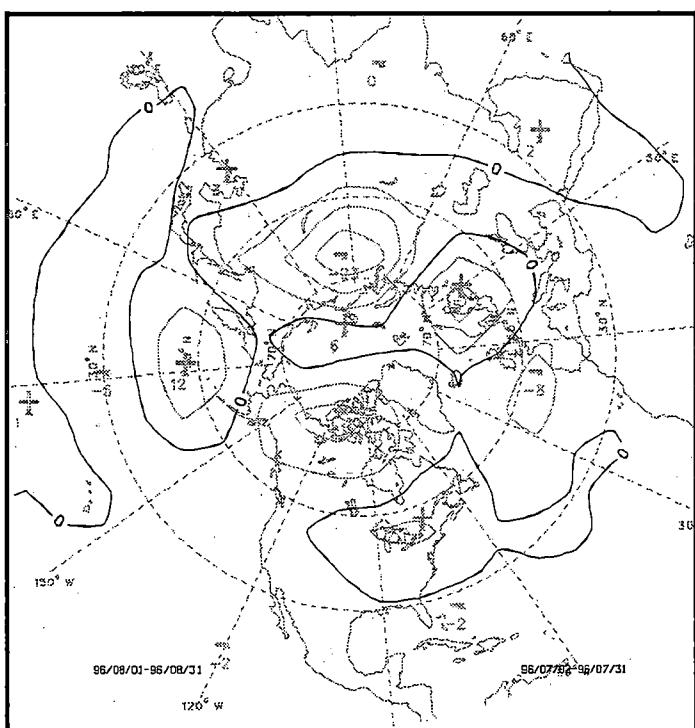
Mean geopotential heights
6-decametre interval



Mean geopotential height anomaly
6-decametre interval



Normal geopotential heights for the month
6-decametre interval



Mean height difference w/r to previous month
6-decametre interval

August 1996

STATION	Temperature C					Snowfall (cm)	% of Normal Snowfall	Total Precipitation (mm)	% of Normal Precipitation	Snow on ground at end of month (cm)	No. of days with Precip 1.0 mm or more	Bright Sunshine (hours)	% of Normal Bright Sunshine	Degree Days below 18 C
	Mean	Difference from Normal	Maximum	Minimum										
BRITISH COLUMBIA														
ABBOTSFORD A	18.7	1.4	34.7	8.2	0.0			30.6	58		5	253	99	23.9
AGASSIZ CS	18.5		34.3	7.3				75.8			7			29.8
CLINTON	15.1		33.4	1.5				143.4			21			98.8
COMOX A	17.8	0.5	28.4	9.3	0.0			14.2	39		4			31.6
CRANBROOK A	18.5	0.8	34.6	3.3										
DEASE LAKE CAMPBELL	11.1		20.6	-0.3				38.8			14	321	111	44.7
ESTEVAN POINT	15.1		22.0	9.4				109.0			12			213.4
FORT NELSON A	14.4	-0.5	25.2	3.8	0.0		0	137.4	217		10	235		89.9
FORT ST JOHN A	14.5	-0.2	27.2	4.0	0.0		0	94.2	164		10			111.4
HOPE	18.4		33.2	8.6				63.2			5			27.5
KAMLOOPS A	20.9	0.6	35.0	8.5	0.0			10.0	33		3	289	102	8.0
KELOWNA A	17.7	-0.8	33.2	2.4				21.5	63		7			37.9
LANGARA	13.3	0.1	20.9	9.3				129.9	116		19			146.5
LYTTON	21.3		37.3	11.2				25.6			3			
MACKENZIE A	14.2	0.2	27.0	2.6				68.0	133		10			118.2
MALAHAT BEACH	18.2		29.8	10.0										38.3
MCINNES ISLAND	14.5	0.2	21.8	9.8				166.0	121		14			107.3
NELSON	19.1		35.3	8.4				16.0			2			19.2
PENTICTON A	19.8	-0.1	35.2	4.9	0.0			15.6	55		2			12.6
PORT ALBERNI	18.0		34.7	7.3										
PORT HARDY A	14.0	0.1	23.9	6.3	0.0			86.3	137		13	159	84	125.1
PRINCE GEORGE A	14.5	-0.1	28.0	4.1	0.0			69.3	113		10	212	82	110.5
PRINCETON	17.8		36.2	2.3										52.4
QUESNEL A	15.5	-0.6	30.2	2.8				70.5	125		12			
REVELSTOKE	17.2		30.6	7.3										
SANDSPIT A	15.3	0.4	22.6	11.4				36.7	68		10			84.7
SHERINGHAM POINT	14.9		28.3	6.5										100.7
SMITHERS A	13.6	-0.8	26.0	2.5				29.6	70		11			135.9
SPARWOOD	15.5		32.4	1.1				12.4			4			85.4
SQUAMISH	18.3		34.2	7.3				39.0			5			28.7
SUMMERLAND CS	20.6		34.9	8.2										13.2
TERRACE A	15.1	-1.1	25.6	6.5	0.0			56.0	96		14	132		94.6
VANCOUVER INT'L A	18.2	0.8	26.3	10.6	0.0			33.8	89		3			19.7
VICTORIA INT'L A	17.2	1.0	31.1	8.2	0.0			9.0	38		2	313	108	37.6
WILLIAMS LAKE A	15.0	-0.1	28.8	3.8	0.0			81.6	183		10	247	69	100.3

STATION	Temperature C					Snowfall (cm)	% of Normal Snowfall	Total Precipitation (mm)	% of Normal Precipitation	Snow on ground at end of month (cm)	No. of days with Precip 1.0 mm or more	Bright Sunshine (hours)	% of Normal Bright Sunshine	Degree Days below 18 C
	Mean	Difference from Normal	Maximum	Minimum										
YUKON TERRITORY														
BURWASH	9.3		20.3	-2.9										270.7
DAWSON	10.8		22.7	-2.5										223.8
FARO	10.2		19.9	-0.1										
KOMAKUK BEACH	2.9		17.4	-5.9										
TESLIN	10.4		20.0	0.2										
WATSON LAKE A	12.1	-0.9	22.5	1.4				50.0	113		9			182.3
NORTHWEST TERRITORIES														
BAKER LAKE A	9.9	0.5	20.0	-2.0				80.3	199		8			252.4
BROUGHTON ISLAND	2.5	-0.8	11.4	-5.1										
CAMBRIDGE BAY A	5.6	-0.6	14.9	-2.1										383.9
CAPE DORSET A	6.1		13.5	-1.4				154.0			10			369.4
CAPE DYER	0.9		9.4	-5.7										
CAPE HOOPER	2.7	-0.3	12.6	-4.5										
CAPE PARRY A	2.5	-2.9	12.2	-6.6										
CLYDE A	3.8	-0.1	16.2	-3.0										
COPPERMINE A	7.4		22.8	-1.6	0.0			20.1						327.6
CORAL HARBOUR A	6.7	-0.4	16.1	-2.2				39.4	77		7			351.5
ENNADAILLAKE	11.9		24.9	2.2										
EUREKA	1.0	-2.0	9.0	-5.8				7.7	66	0	3	202	84	528.5
FORT RELIANCE	14.3		25.5	4.7										
FORT SIMPSON A	13.7	-0.6	26.3	-0.7	0.0	0	0	114.4	226		10	211		135.4
FORT SMITH A	15.2	0.9	28.3	3.6	0.0	0	0	50.4	103		11	204		89.6
HALL BEACH A	4.3	-0.2	11.5	-3.1										
HAY RIVER A	15.0	0.6	26.8	2.7	0.0			52.8	121		10			97.8
INUVIK A	7.9	-2.6	21.8	-3.6										312.4
IQALUIT A	6.2	-0.6	15.7	-2.5				89.2	140		11			367.2
LADY FRANKLIN POINT	6.4	0.1	15.4	-0.2										
LONGSTAFF BLUFF	4.2	-1.1	12.4	-3.6										
MOULD BAY CAMP	-1.7		4.6	-13.4										
NORMAN WELLS A	11.1	-2.4	22.7	1.3	0.0	0	0	52.8	108		15			215.3
PANGNIRTUNG	7.0		25.3	-0.2										340.7
RANKIN INLET A	9.9		21.1	3.2	0.0			50.2						249.8
RESOLUTE A	-0.6	-2.5	4.0	-6.7	31.2	303		45.8	145	3	6			577.9
SHEPHERD BAY A	5.8	0.0	17.0	-2.2										
TUKTOYAKTUK	6.5		18.9	-1.3										357.9
YELLOWKNIFE A	14.7	0.6	25.5	3.8	0.0			47.6	114		10			106.9

August 1996

STATION	Temperature C					% of Normal Snowfall	Total Precipitation (mm)	% of Normal Precipitation	Snow on ground at end of month (cm)	No. of days with Precip 1.0 mm or more	Bright Sunshine (hours)	% of Normal Bright Sunshine	Degree Days below 18 C	Temperature C													
	Mean	Difference from Normal		Maximum	Minimum										Mean	Difference from Normal											
																Mean	Maximum	Minimum	Snowfall (cm)								
ALBERTA																											
BROOKS	19.7		34.5	5.7	0.0		38.0																				
CALGARY INT'L A	16.8	1.1	32.4	3.0	0.0		21.0	43		2																	
CARDSTON	18.3		34.7	5.6																							
CLARESHOLM	18.1		34.0	1.8																							
COLD LAKE A	16.9	1.2	31.4	6.2	0.0		59.2	86		4																	
CORONATION	16.9		33.2	4.5																							
EDMONTON INT'L A	16.1	1.1	29.0	3.6			82.1	118		10	322	115	70.6														
EDMONTON MUNICIPAL	17.5	0.9	30.6	6.7																							
EDMONTON STONY PLA	16.7	1.2	29.1	5.8			62.2	80		9																	
EDSON	14.6		29.3	2.0																							
FORT CHIPEWYAN A	15.3	0.6	27.2	4.1			66.5	142		9																	
FORT McMURRAY A	16.0	0.8	33.1	4.8																							
HIGH LEVEL A	14.5	0.5	26.3	2.6	0.0		43.3																				
LAC LA BICHE	15.7		29.0	4.7																							
LACOMBE CDA 2	15.9		32.5	1.4																							
LETHBRIDGE A	20.3	2.5	36.8	4.5																							
LETHBRIDGE CDA	19.5	2.1	34.6	6.3																							
LLOYDMINSTER A	17.1		32.8	5.5	0.0		57.6																				
MEDICINE HAT A	20.3	1.1	36.5	5.8	0.0		11.8	39		5																	
PEACE RIVER A	14.9	0.3	28.5	2.7	0.0	0	75.4	148		3																	
PINCHER CREEK	17.5		32.2	5.8			6.9			1																	
RED DEER A	15.8	0.8	32.3	1.2			37.4	58		6																	
ROCKY MTN HOUSE	14.9		29.4	0.9																							
SLAVE LAKE	15.5		28.5	5.6																							
VEGREVILLE AEC	15.5		31.4	3.2			62.0			5																	
WHITECOURT A	15.3		28.4	1.7	0.0		141.7			12																	
SASKATCHEWAN																											
BROADVIEW	18.8	2.0	31.8	7.3			41.0	76		6																	
COLLINS BAY	14.6		30.3	3.5																							
CORONACH SPC	19.3		35.0	3.0																							
ESTEVAN A	19.2	0.4	33.1	5.3	0.0		12.0	23		4	351	115	22.7														
HUDSON BAY	17.3		32.9	5.2			24.2			4																	
INDIAN HEAD CDA	18.0	0.2	33.8	3.5																							
KINDERSLEY A	18.9		34.0	5.3	0.0		13.8			5	353																
LA RONGE A	16.7	1.3	30.2	4.1	0.0		81.3	135		9																	
MEADOW LAKE A	16.6		32.0	1.9	0.0		31.2			5																	
MOOSE JAW A	20.0	1.3	35.0	6.4	0.0		11.4	33		3																	
NIPAWIN A	17.9		34.8	4.8																							
NORTH BATTLEFORD A	17.7	0.7	34.4	2.4	0.0		36.4	74		2																	

August 1996



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