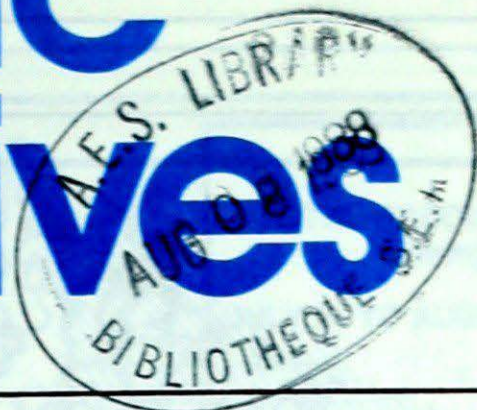


# Climatic Perspectives



July 26 to August 1st, 1988

A weekly review of Canadian climate

Vol. 10 No. 31



Environment  
Canada

Environnement  
Canada

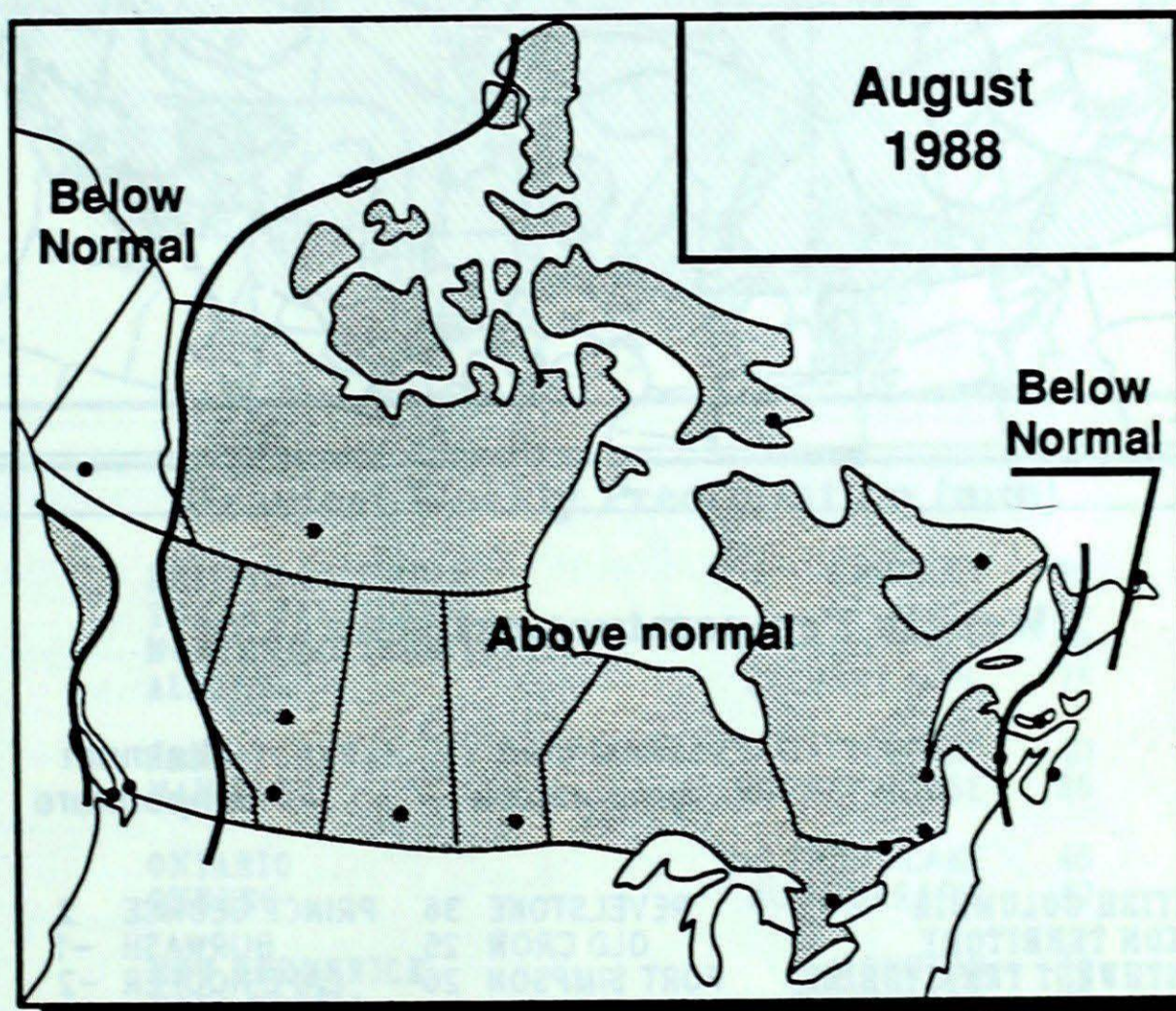
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## MONTHLY TEMPERATURE FORECAST

*Normal temperatures for the month of August, °C*

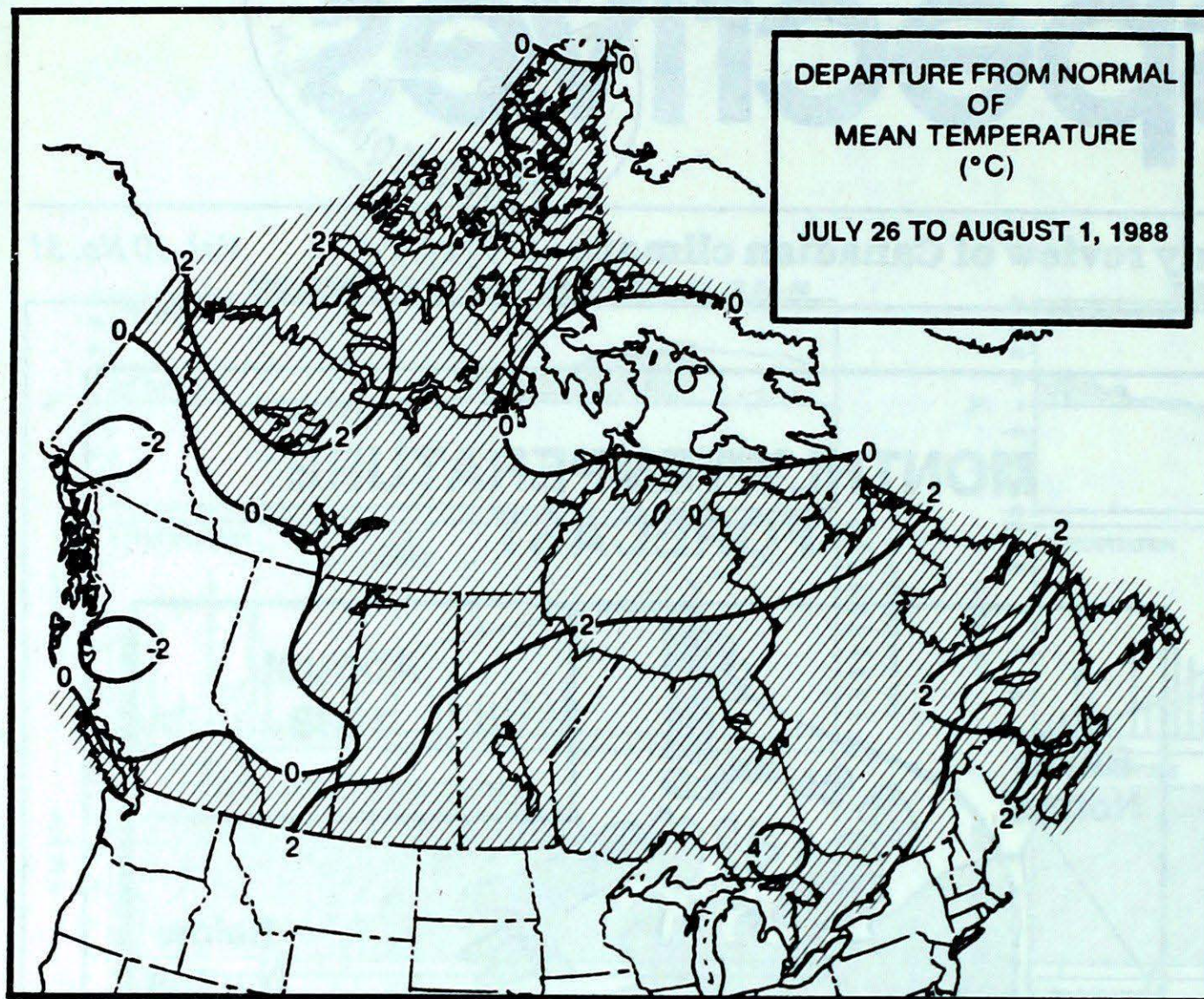
Whitehorse	13	Toronto	20
Yellowknife	14	Ottawa	19
Iqaluit	7	Montreal	20
Vancouver	17	Quebec	18
Victoria	16	Fredericton	18
Calgary	15	Halifax	18
Edmonton	16	Charlottetown	18
Regina	18	Goose Bay	14
Winnipeg	18	St. John's	15



Canada

Official monthly temperature forecasts are available on the 1st and 16th day of each month at all A.E.S. weather centres and offices in a map version transmitted on the national facsimile network, and a text version on the national telecommunications network.

- **Hot with isolated severe thunderstorms across most of southern Canada**
- **Record downpour at Calgary**



### Across the country...

#### Yukon and Northwest Territories

Cloudy, cool and wet conditions prevailed over the southern and central Yukon. The most precipitation for the week was recorded at Mayo and Beaver Creek, each receiving 34 mm. As an aside, Whitehorse received 109.6 mm of precipitation during the month of July, 42% of the yearly average and 323% of the normal for July. A record low minimum of 2.4°C was recorded at Whitehorse on the 30th. On the 26th, hail accompanied thunderstorm activity at Yellowknife.

Temperatures were near normal in the eastern Arctic while the western Arctic experienced above normal temperatures.

#### British Columbia

Warm, dry conditions with varying amounts of sunshine prevailed over most of the province this week, especially in the southern interior and coastal regions. No precipitation occurred south of the Thompson River Valley this week with spotty rains to the north. The Victoria area has been dry for the last 6 weeks and forest fire hazards are now high to extreme.

#### Prairie Provinces

There was no significant change in the overall drought situation in southern Alberta this week, particularly in the Medicine Hat area. However, on Monday Aug. 1st, a rainstorm in Calgary produced a daily record 65 mm and washed out Heritage Day celebrations. Also on Monday, Lethbridge experienced some drought relief when 24 mm of rain fell on the city, more rain than what was recorded for the entire month of July. Record daily maximums were recorded on the 26th for Rocky Mountain House with 31°C and Cold Lake tied the record maximum of 30°C.

Manitoba and Saskatchewan also experienced generally hot and dry conditions for the week. Precipitation amounts in the range of 15 to 20 mm were recorded at some of the central and

### Weekly Temperature extreme (°C)

	Maximum temperature	Minimum temperature
BRITISH COLUMBIA	REVELSTOKE 36	PRINCE GEORGE 2
YUKON TERRITORY	OLD CROW 25	BURWASH -1
NORTHWEST TERRITORIES	FORT SIMPSON 26	CAPE HOOPER -2
ALBERTA	MEDICINE HAT 35	BANFF 2
SASKATCHEWAN	ESTEVAN 39	HUDSON BAY 5
MANITOBA	GRETNA 37	THOMPSON 3
ONTARIO	PETAWAWA 36	MOOSONEE 5
QUEBEC	BAGOTVILLE 34	SHERBROOKE 2
NEW BRUNSWICK	CHATHAM 32	CHARLO 10
NOVA SCOTIA	GREENWOOD 30	WESTERN HEAD 11
PRINCE EDWARD ISLAND	CHARLOTTETOWN 28	CHARLOTTETOWN 14
NEWFOUNDLAND	GOOSE 34	CARTWRIGHT 5

#### Across the nation

WARMEST MEAN TEMPERATURE	26	WINDSOR	ONT
COOLEST MEAN TEMPERATURE	3	CLYDE	NWT

northern stations. An exception to this was a heavy downpour on the 31st at Winnipeg which dumped 33.8 mm. Severe weather into the weekend in southern Manitoba produced wind gusts to 90 km/h accompanied by 1 cm diameter hail 8 to 10 cm deep at Rosa, Manitoba on the 28th. East Braintree, Manitoba recorded 95 km/h winds on the 29th, felling trees and causing some structural damage. On the 30th, Russell, Manitoba saw 8 mm diameter hail with a possible tornado sighting.

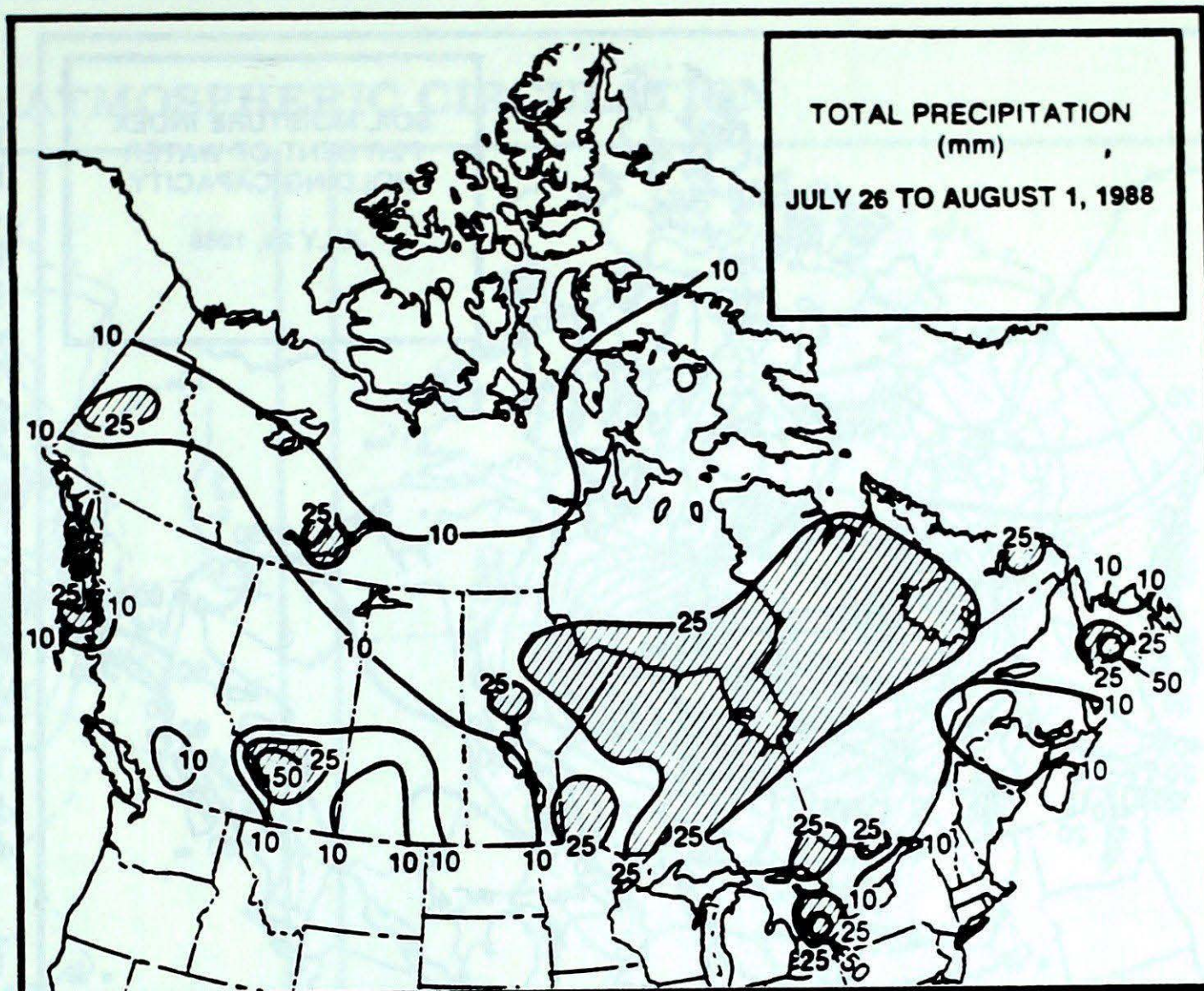
**Ontario**

Drought conditions in southern and central Ontario have abated for the time being. Monthly rainfall totals climbed to near normal this week as showers and thundershowers dumped amounts up to 90 mm around the province. In northwestern Ontario, on the 29th, strong winds in thunderstorms uprooted trees killing a 5-year old boy in Luther Village while 80 km/h winds at Atikokan overturned aircraft. On the 30th, the Kitchener area was deluged with 88 mm of rain in afternoon thunderstorms, while a small tornado near Norwich, 15 km southeast of Woodstock, caused property and livestock losses.

There was also welcome rain relief in the northern and northwestern parts of the province, particularly in the Thunder Bay area where forest fires have raged on.

**Quebec**

Generally sunny, warm and humid weather prevailed over the province last week with little precipitation. Local thunderstorms did, however, push weekly totals above 30 mm at several locations across the province. On the 26th, a local thunderstorm east of Nicolet produced winds gusting as high as 80-100 km/h which tore off tree limbs and uprooted some trees. On the 30th, similar thunderstorm wind damage was reported at Rosemère and at Saint-Eustache, to the north of Montreal and at Saint-Gabriel-de-Brandon, north of Joliette. On the evening of the 30th, a thunderstorm caused \$20,000 damage in the Magog region, southwest of Sherbrooke.



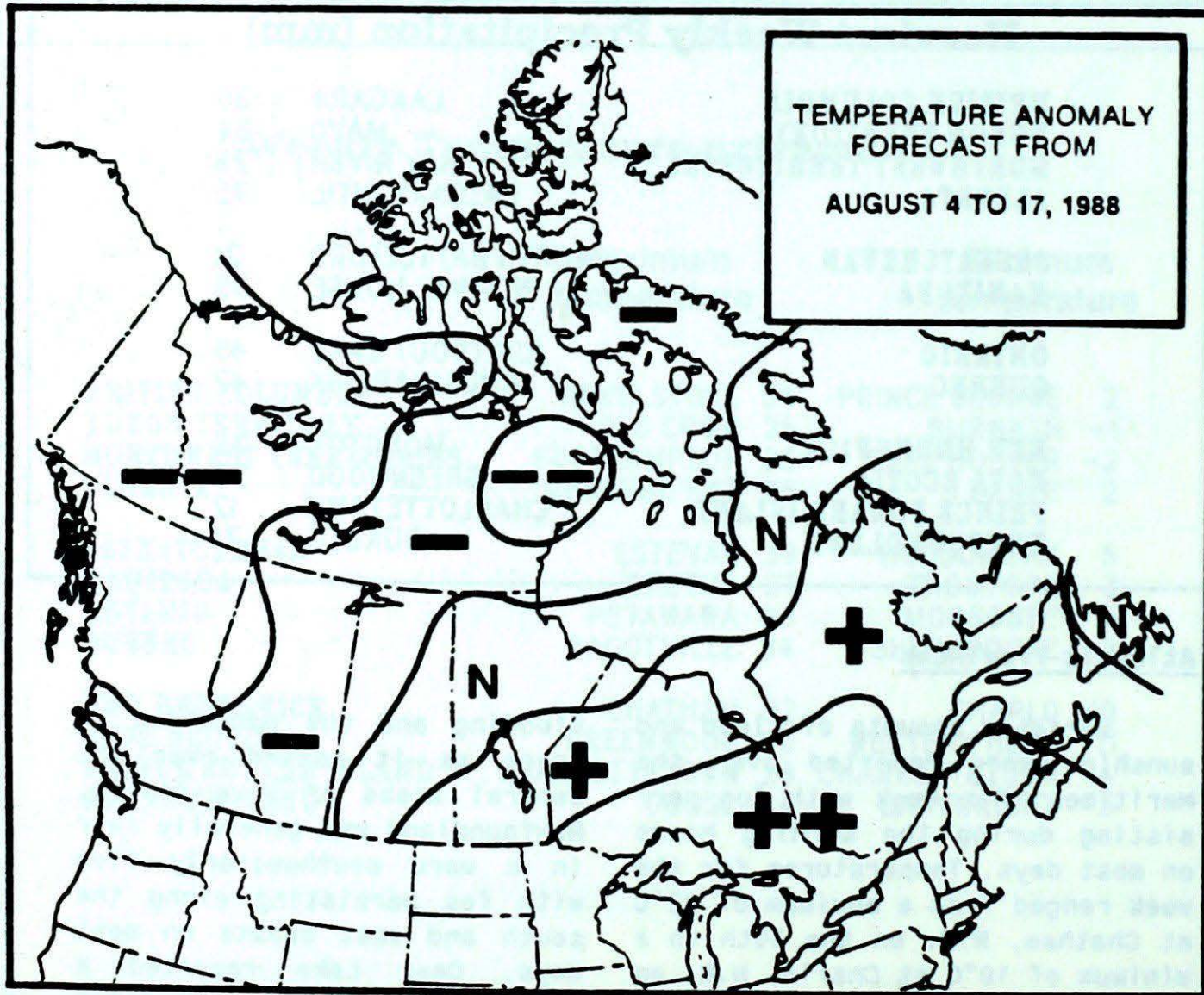
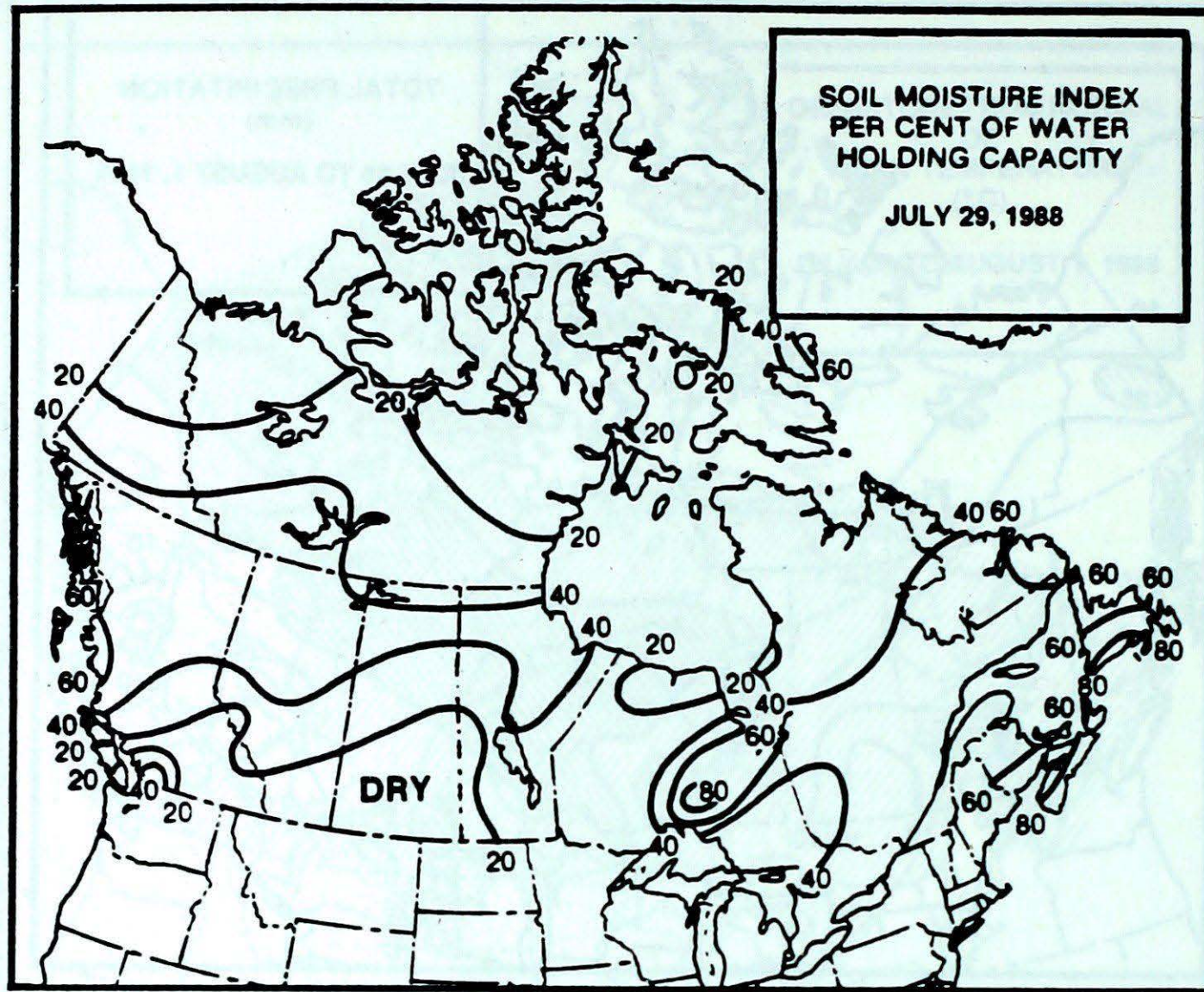
**Heaviest Weekly Precipitation (mm)**

BRITISH COLUMBIA	LANGARA	30
YUKON TERRITORY	MAYO	34
NORTHWEST TERRITORIES	HAY RIVER	28
ALBERTA	CALGARY INT'L	75
SASKATCHEWAN	NORTH BATTLEFORD	21
MANITOBA	NORWAY HOUSE	35
ONTARIO	BIG TROUT LAKE	45
QUEBEC	KUUJUARAPIK	42
NEW BRUNSWICK	MONCTON	39
NOVA SCOTIA	GREENWOOD	23
PRINCE EDWARD ISLAND	CHARLOTTETOWN	12
NEWFOUNDLAND	BURGEO	71

**Atlantic Provinces**

Variable amounts of cloud and sunshine were reported over the Maritimes this week with fog persisting during the morning hours on most days. Temperatures for the week ranged from a maximum of 32°C at Chatham, N.B. on the 30th to a minimum of 10°C at Charlo, N.B. on Aug. 1st. The week was highlighted by thunderstorms on Friday, the 29th, accompanied by heavy rain and hail. On Sunday, the 31st, a severe thunderstorm with heavy rain, hail and strong winds caused

flooding and the uprooting of trees as it passed over the central areas of Nova Scotia. Newfoundland was generally fair in a warm southwesterly flow with fog persisting along the south and west coasts on most days. Deer Lake reported a maximum of 29.8°C. Labrador experienced a mixture of sun, cloud and occasional showers or thunderstorms on most days. On Saturday, the 30th, Goose Bay reported a maximum of 33.5°C.



++ much above normal  
 + above normal  
 N normal  
 - below normal  
 -- much below normal

**Temperature Anomaly Forecast**  
 This forecast is prepared by searching historical weather maps to find cases similar to the present. the historical outcome during the 15 days subsequent to the chosen analogues is assumed to be a forecast for the next 15 days from now.

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 VOLUME 10**

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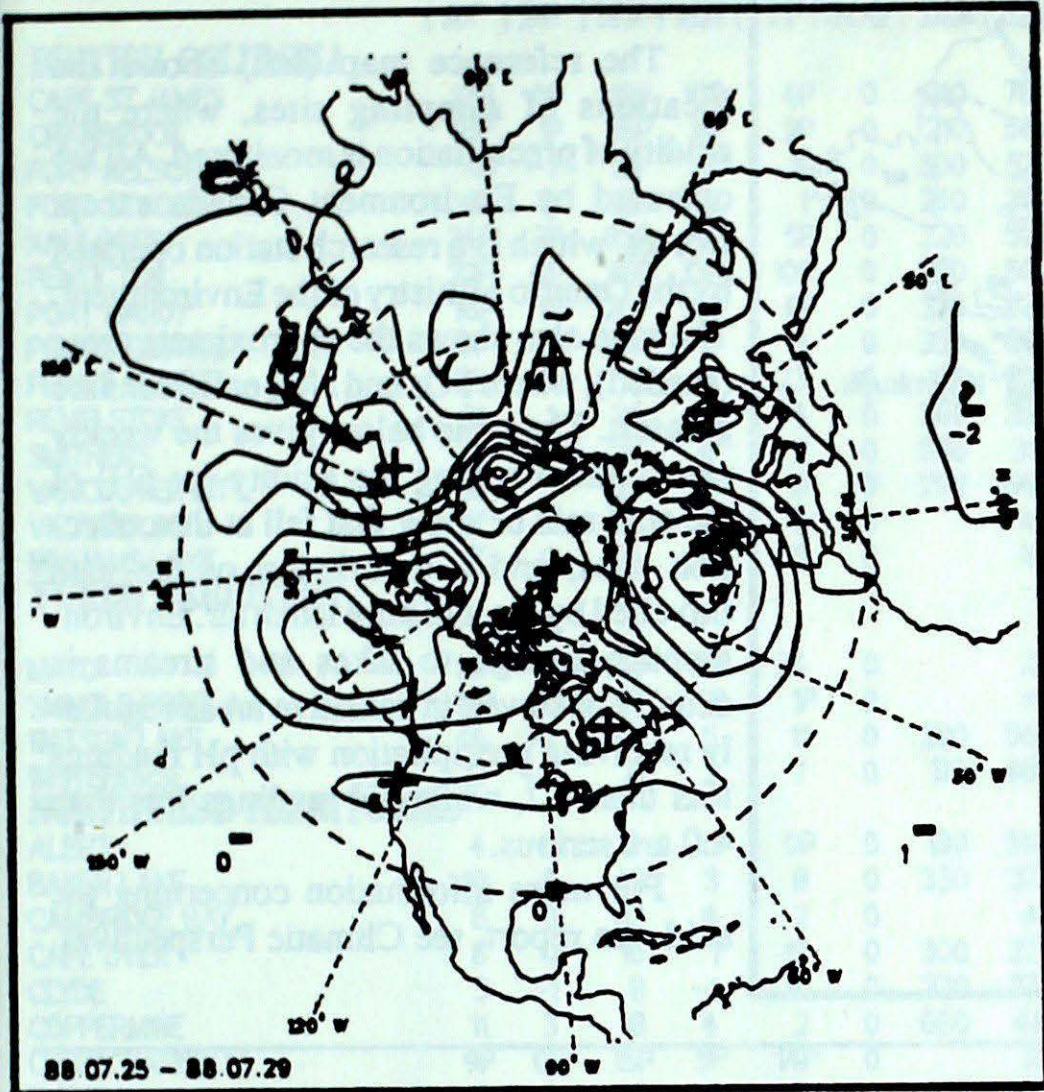
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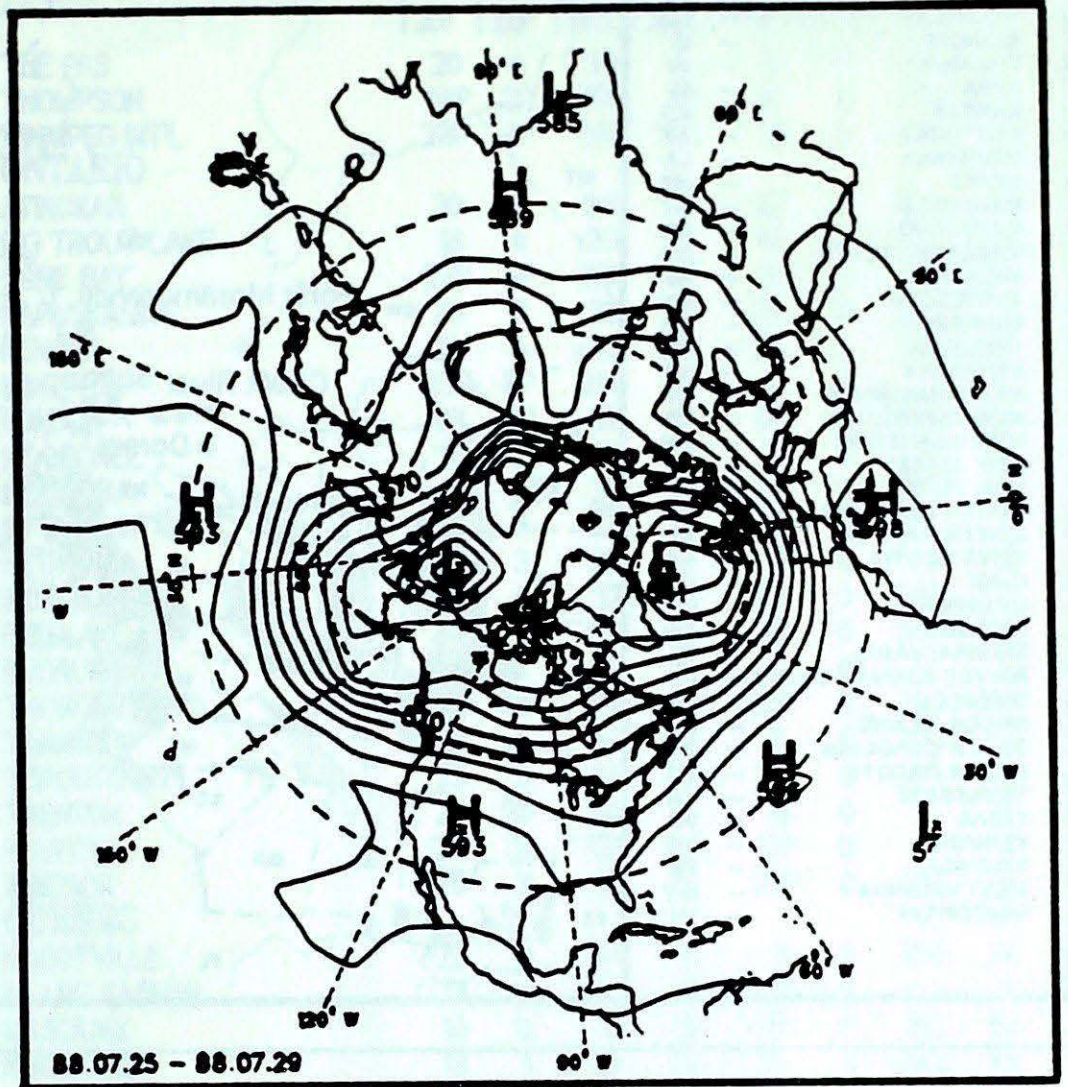
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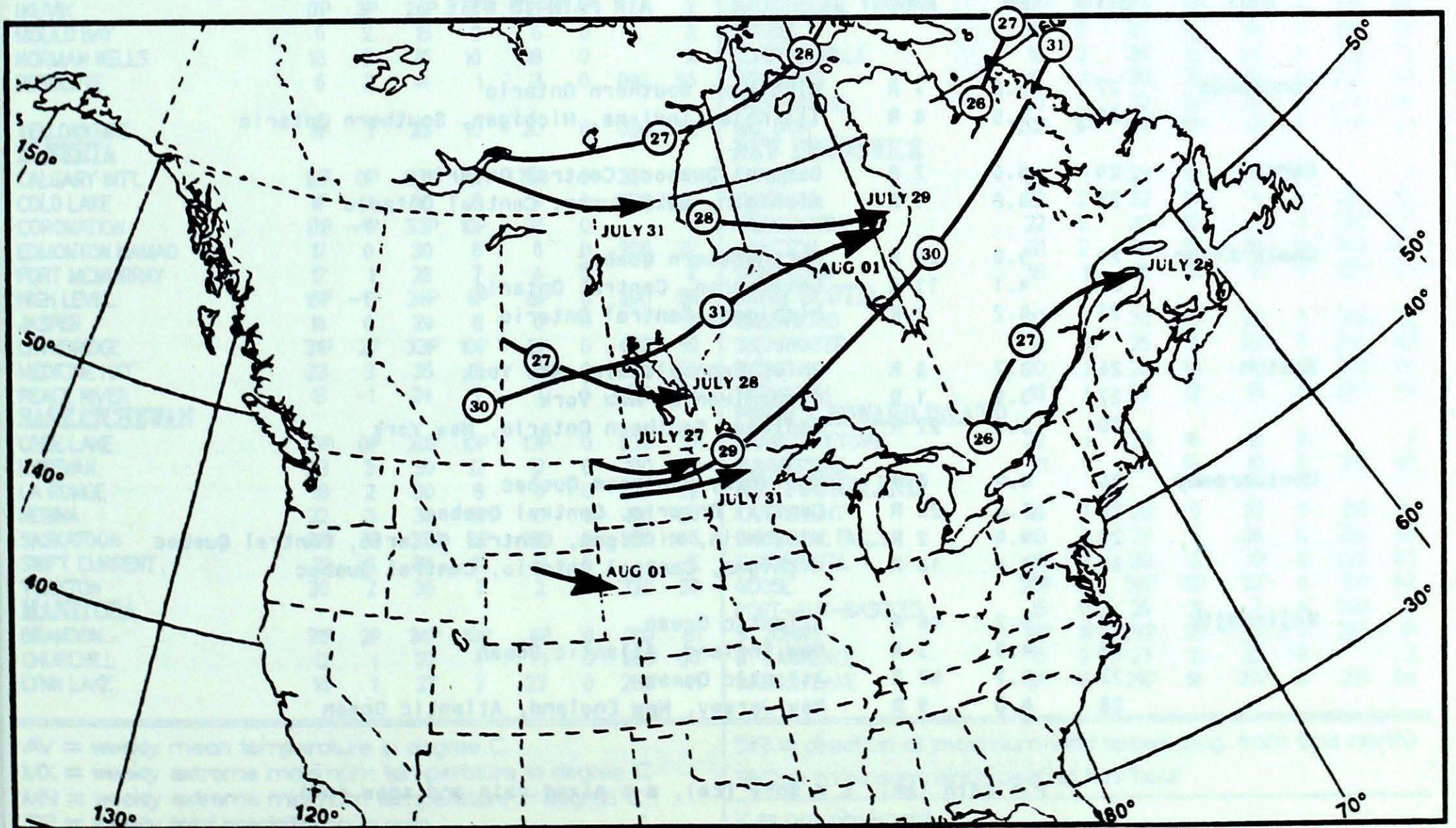
### 50 kPa ATMOSPHERIC CIRCULATION



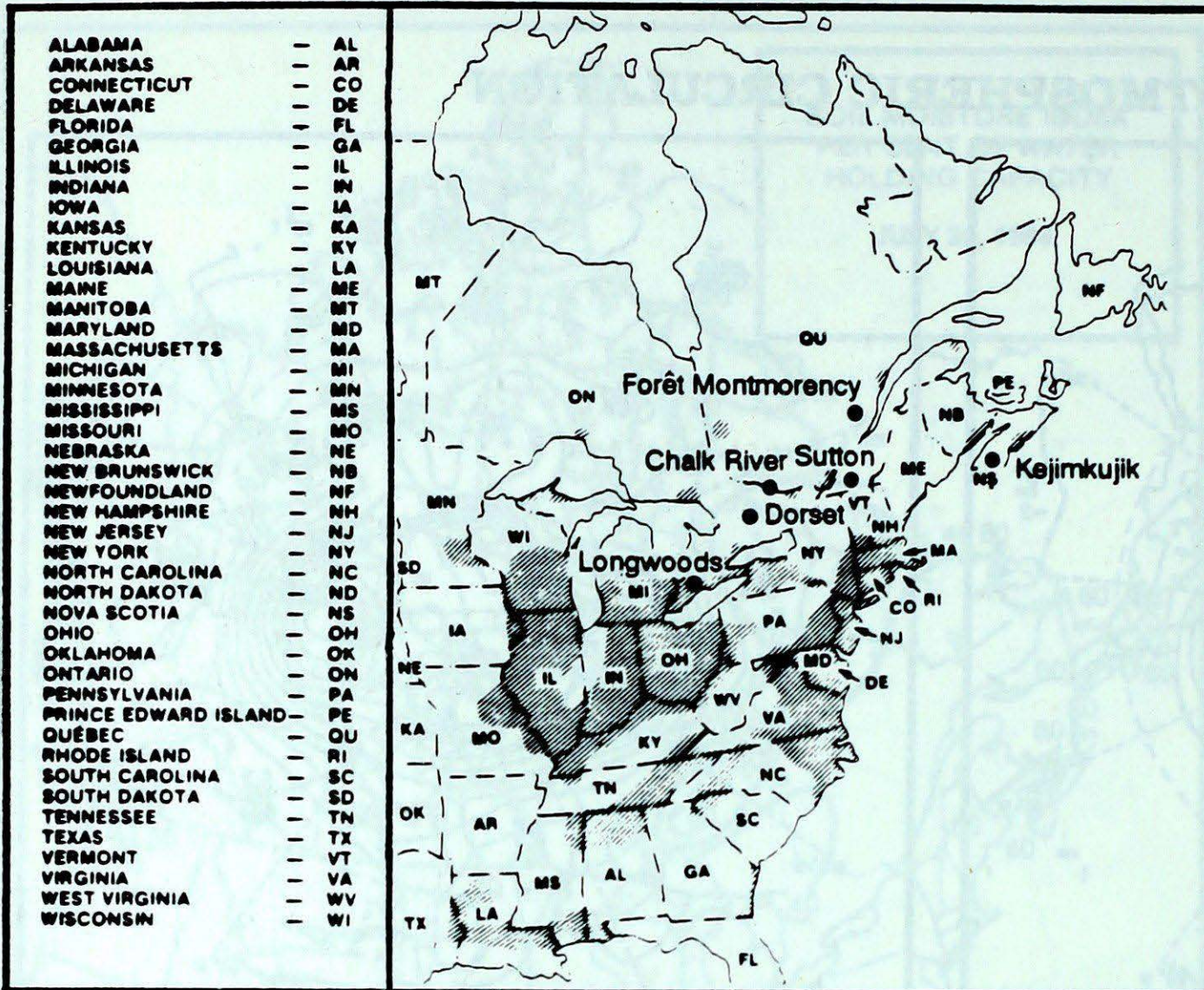
Mean geopotential height anomaly  
50 kPa level (5 decameter intervals)



Mean geopotential height  
50 kPa level (5 decameter intervals)



Storm track - Position of storm at 12 GMT during the period: July 26 to August 1st, 1988



**ACID RAIN REPORT**

The reference map (left) shows the locations of sampling sites, where the acidity of precipitation is monitored. All are operated by Environment Canada except Dorset, which is a research station operated by the Ontario Ministry of the Environment. The map also shows the approximate areas (shaded), where SO<sub>2</sub> and NO<sub>x</sub> emissions are greatest. The table below gives the weekly report summarizing the acidity (or pH) of the acid rain or snow that fell at the collection sites, and a description of the path travelled by the moisture laden air. Environmental damage to lakes and streams is usually observed in sensitive areas regularly receiving precipitation with pH readings less than 4.7, while pH readings less than 4.0 are serious.

For more information concerning the acid rain report, see Climatic Perspectives,

**JULY 24 TO JULY 30, 1988**

SITE	DAY	pH	AMOUNT	AIR PATH TO SITE
Longwoods	27	3.8	7 R	Michigan, Southern Ontario
	30	5.5	8 R	Illinois, Indiana, Michigan, Southern Ontario
Dorset	24	4.6	7 R	Central Quebec, Central Ontario
	25	4.0	1 R	Michigan, Lake Huron, Central Ontario
Chalk River	24	5.0	26 R	Northwestern Quebec
	24	4.1	11 R	Lake Huron, Central Ontario
	26	4.2	2 R	Michigan, Central Ontario
Sutton	26	3.7	8 R	Ohio, Pennsylvania, New York
	27	3.9	1 R	Pennsylvania, New York
	30	3.7	22 R	Indiana, Southern Ontario, New York
Montmorency	26	4.2	6 R	New York, Southern Quebec
	28	5.6	23 R	Central Ontario, Central Quebec
	29	4.4	2 R	Wisconsin, Michigan, Central Ontario, Central Quebec
	30	3.4	16 R	Michigan, Central Ontario, Central Quebec
Kejimikujik	24	5.2	46 R	Atlantic Ocean
	26	4.0	3 R	New England, Atlantic Ocean
	27	4.7	47 R	Atlantic Ocean
	28	4.0	9 R	New Jersey, New England, Atlantic Ocean

r = rain (mm), s = snow (cm), m = mixed rain and snow (mm)

TEMPERATURE, PRECIPITATION AND MAXIMUM WIND DATA FOR THE WEEK ENDING 0600 GMT AUGUST 2, 1988

STATION	TEMPERATURE				PRECIP.		WIND MX		STATION	TEMPERATURE				PRECIP.		WIND MX	
	AV	DP	MX	MN	TP	SOG	DIR	SPD		AV	DP	MX	MN	TP	SOG	DIR	SPD
<b>BRITISH COLUMBIA</b>									THE PAS	20	*	30	8	19	0	060	83
CAPE ST. JAMES	13P	0P	18P	10P	4P	0	310	78	THOMPSON	18P	3P	29P	3P	10	0	320	57
CRANBROOK	21P	1P	35P	6P	9P	0	210	56	WINNIPEG INT'L	23P	4P	36P	10P	35	0	360	57
FORT NELSON	16	-1	26	6	8	0	300	52	<b>ONTARIO</b>								
FORT ST. JOHN	15	0	22	8	1	0	250	76	ATIKOKAN	20	4	34	9	22	0	270	67
KAMLOOPS	24P	2P	35P	14P	5P	0	220	59	BIG TROUT LAKE	18	*	30	9	45	0	300	74
PENTICTON	22P	0P	36P	13P	10P	0	280	50	GORE BAY	23P	4P	35P	16P	9P	0	200	52
PORT HARDY	16P	1P	20P	10P	4P	0	320	43	KAPUSKASING	20	3	32	11	24	0	290	41
PRINCE GEORGE	14	-2	24	2	3	0	350	35	KENORA	23	4	33	14	34	0	310	52
PRINCE RUPERT	13	-1	16	6	23	0	170	50	KINGSTON	23P	2P	29P	17P	*	0		X
REVELSTOKE	21	1	36	11	4	0	360	35	LONDON	23	3P	32	15	56	0	220	56
SMITHERS	13	-3	24	4	2	0	330	31	MOOSONEE	18	2	32	5	21	0	310	41
VANCOUVER INT'L	19	1	27	13	0	0	290	56	NORTH BAY	21	3	32	13	27	0	240	39
VICTORIA INT'L	17	0	28	8	0	0		*	OTTAWA INT'L	24	3	33	16	37	0		X
WILLIAMS LAKE	17	0	24	8	3	0		X	PETAWAWA	22	3	36	12	10	0		X
<b>YUKON TERRITORY</b>									PICKLE LAKE	20	4	32	12	23	0	300	54
MAYO	14P	-1P	22P	5P	34	0		X	RED LAKE	20	3	31	11	18	0	340	59
SHINGLE POINT A	14P	3P	25P	4P	1P	0		*	SUDBURY	23	4	35	14	0	0		X
WATSON LAKE	14	-1	25	5	11	0	290	56	THUNDER BAY	21P	3P	35P	9P	25P	0	290	74
WHITEHORSE	12	-3	21	2	7	0	170	46	TIMMINS	21	4	34	10	6	0	310	43
<b>NORTHWEST TERRITORIES</b>									TORONTO INT'L	23	3	35	15	36	0	300	70
ALERT	4	0	14	-1	0P	0	180	56	TRENTON	23	3P	34	15	8	0		X
BAKER LAKE	10	0	18	3	8	0	330	37	WIARTON	22P	3P	32P	14P	10P	0		X
CAMBRIDGE BAY	8	0	13	4	2	0		*	WINDSOR	26	3	35	17	20P	0	310	61
CAPE DYER	6	0	16	1	16	0	300	37	<b>QUEBEC</b>								
CLYDE	3	-1	8	-1	15	0	320	37	BAGOTVILLE	22	3	34	11	9	0	250	41
COPPERMINE	11	3	18	4	2	0	080	41	BLANC SABLON	13	*	20	7	6	0		X
CORAL HARBOUR	9P	0P	15P	5P	14P	0		X	INUKJUAK	10	0	15	5	18	0	210	52
EUREKA	8	2	15	3	0	0	300	57	KULUJUAQ	13	1	25	6	37	0	330	56
FORT SMITH	16	1	24	4	18	0		X	KULUJUARAPIK	14	3	32	6	42	0	160	74
FROBISHER BAY	9	1	19	4	12	0	200	33	MANIWAKI	21P	3P	32P	11P	7P	0	190	33
HALL BEACH	5P	-1P	10P	2P	22P	0	170	33	MONT JOLI	21	3	34	12	2	0	220	59
INUVIK	17P	3P	26P	8P	2P	0		X	MONTREAL INT'L	24	3	34	15	8	0	230	50
MOULD BAY	6	2	15	0	6	0		X	NATASHQUAN	17P	2P	25P	8P	4P	0	180	44
NORMAN WELLS	18	2	26	10	18	0		X	QUEBEC	23	3	33	13	16	0	260	67
RESOLUTE	6	2	14	1	3	0	090	56	SCHIEFFERVILLE	16	3	26	6	28	0	200	74
<b>YELLOWKNIFE</b>									SEPT-ILES	17	1	26	11	17	0	300	43
<b>ALBERTA</b>									SHERBROOKE	20	2	32	2	32	0	240	46
CALGARY INT'L	17P	0P	33P	6P	75P	0	350	61	VAL D'OR	20P	3P	33P	11P	0P	0	340	43
COLD LAKE	17	1	30	8	5	0	270	50	<b>NEW BRUNSWICK</b>								
CORONATION	17P	-1P	33P	10P	31	0		*	CHARLO	20	1	28	10	3	0		*
EDMONTON NAMAQ	17	0	30	8	6	0	300	37	CHATHAM	22	2	32	13	4	0	220	35
FORT MCMURRAY	17	1	28	7	4	0		X	FREDERICTON	22	2	30	16	3	0	200	37
HIGH LEVEL	15P	-1P	24P	6P	8P	0	290	59	MONCTON	21	2	30	13	39	0	300	44
JASPER	16	0	29	8	6	0		X	SAINT JOHN	18	1	25	11	17	0	220	33
LETHBRIDGE	21P	2P	33P	10P	2P	0	020	59	<b>NOVA SCOTIA</b>								
MEDICINE HAT	23	3	35	12	0	0	060	56	GREENWOOD	22	2	30	15	23	0	280	52
PEACE RIVER	15	-1	24	7	7	0	270	54	SHEARWATER	19	1	25	15	18P	0	290	43
<b>SASKATCHEWAN</b>									SYDNEY	20	1	28	13	10	0	270	65
CREE LAKE	15P	0P	20P	10P	13P	0	330	57	YARMOUTH	18	1	24	12	18	0	280	70
ESTEVAN	23	3	39	12	12	0	150	89	<b>PRINCE EDWARD ISLAND</b>								
LA RONGE	18	2	30	8	6	0	290	52	CHARLOTTETOWN	20	1	28	14	12	0		*
REGINA	22	3	38	12	11	0	160	56	SUMMERSIDE	21	1	27	14	10	0	210	43
SASKATOON	21P	3P	37P	8P	10P	0	350	46	<b>NEWFOUNDLAND</b>								
SWIFT CURRENT	21	3	36	11	8	0		X	CARTWRIGHT	16	3	29	5	32	0	210	46
YORKTON	20	2	36	7	2	0	330	50	CHURCHILL FALLS	18	3	29	6	26	0	250	65
<b>MANITOBA</b>									GANDER INT'L	19	1	28	8	10	0	220	63
BRANDON	21P	2P	34P	10P	4P	0	310	81	GOOSE	20P	4P	34P	11P	12P	0	190	44
CHURCHILL	12	1	27	4	1	0	260	50	PORT-AUX-BASQUES	15	0	25	11	7	*	090	37
LYNN LAKE	16	1	27	7	23	0	280	41	ST JOHN'S	18P	1P	26P	9P	21P	0	240	61
									ST LAWRENCE	15	2	23	11	22	0		X
									WABUSH LAKE	17P	4P	29P	6P	39P	0	210	54

AV = weekly mean temperature in degree C  
 MX = weekly extreme maximum temperature in degree C  
 MN = weekly extreme minimum temperature in degree C  
 TP = weekly total precipitation in mm  
 DP = departure of mean temperature from normal in degree C  
 SOG = snow depth on ground in cm, last day of the period

DIR = direction of maximum wind speed (deg. from true north)  
 SPD = maximum wind speed in km/hour

X = not observed  
 P = value based on less than 7 days  
 \* = missing

STATION		MOISTURE			TEMPERATURE AND HUMIDITY		WIND DIRECTION AND VELOCITY		WIND SPEED AND VELOCITY	
STATION NO.	STATION NAME	REL. HUM.	W. WIND	W. VELOCITY	W. DIRECTION	W. VELOCITY	W. DIRECTION	W. VELOCITY	W. DIRECTION	W. VELOCITY
1	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001
2	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002
3	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003
4	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004
5	1005	1005	1005	1005	1005	1005	1005	1005	1005	1005
6	1006	1006	1006	1006	1006	1006	1006	1006	1006	1006
7	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007
8	1008	1008	1008	1008	1008	1008	1008	1008	1008	1008
9	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009
10	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010
11	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011
12	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012
13	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013
14	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014
15	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015
16	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016
17	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017
18	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018
19	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019
20	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020
21	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021
22	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022
23	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023
24	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024
25	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025
26	1026	1026	1026	1026	1026	1026	1026	1026	1026	1026
27	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027
28	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028
29	1029	1029	1029	1029	1029	1029	1029	1029	1029	1029
30	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
31	1031	1031	1031	1031	1031	1031	1031	1031	1031	1031
32	1032	1032	1032	1032	1032	1032	1032	1032	1032	1032
33	1033	1033	1033	1033	1033	1033	1033	1033	1033	1033
34	1034	1034	1034	1034	1034	1034	1034	1034	1034	1034
35	1035	1035	1035	1035	1035	1035	1035	1035	1035	1035
36	1036	1036	1036	1036	1036	1036	1036	1036	1036	1036
37	1037	1037	1037	1037	1037	1037	1037	1037	1037	1037
38	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038
39	1039	1039	1039	1039	1039	1039	1039	1039	1039	1039
40	1040	1040	1040	1040	1040	1040	1040	1040	1040	1040
41	1041	1041	1041	1041	1041	1041	1041	1041	1041	1041
42	1042	1042	1042	1042	1042	1042	1042	1042	1042	1042
43	1043	1043	1043	1043	1043	1043	1043	1043	1043	1043
44	1044	1044	1044	1044	1044	1044	1044	1044	1044	1044
45	1045	1045	1045	1045	1045	1045	1045	1045	1045	1045
46	1046	1046	1046	1046	1046	1046	1046	1046	1046	1046
47	1047	1047	1047	1047	1047	1047	1047	1047	1047	1047
48	1048	1048	1048	1048	1048	1048	1048	1048	1048	1048
49	1049	1049	1049	1049	1049	1049	1049	1049	1049	1049
50	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050

AV = weekly mean temperature in degree C  
 MX = weekly extreme maximum temperature in degree C  
 MI = weekly extreme minimum temperature in degree C  
 TP = weekly total precipitation in mm  
 DP = difference of mean temperature from normal in degree C  
 DP = value based on less than 7 days  
 X = not observed