



Environment
Canada

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Canada

Climatic Perspectives

MONTHLY SUPPLEMENT

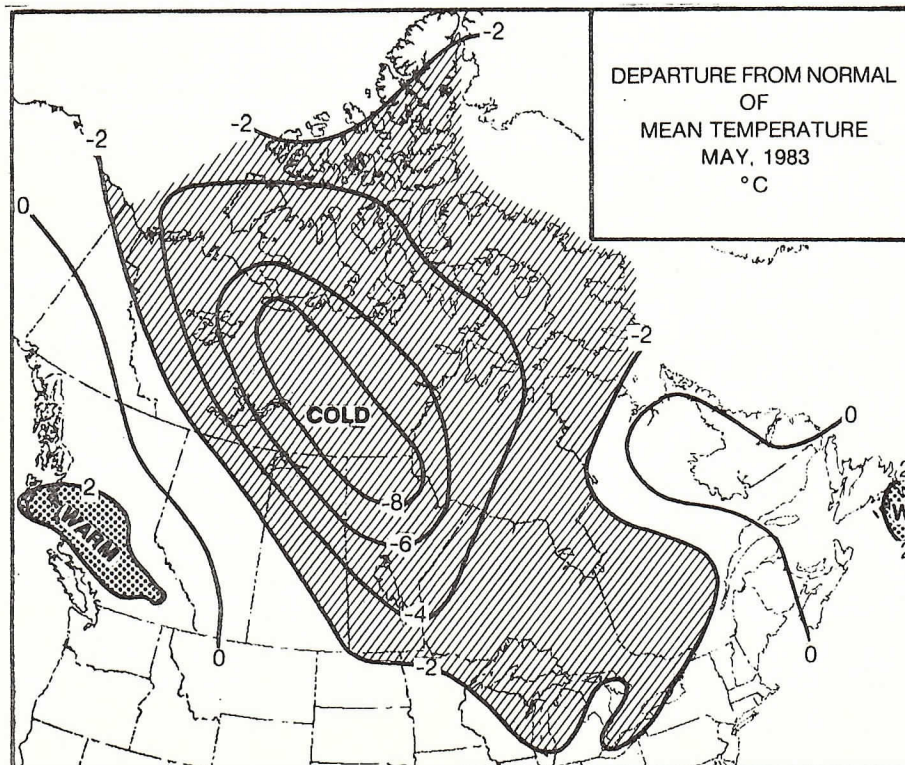
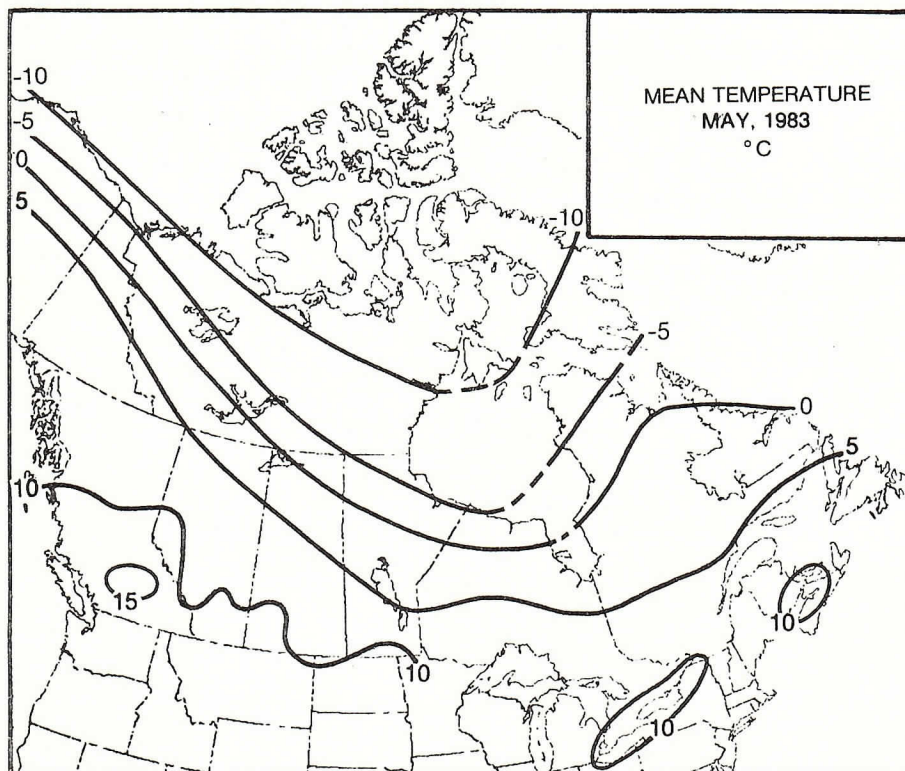
Canadian Climate Centre

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VOL.5

MAY, 1983



ACROSS THE COUNTRY

Yukon and the Northwest Territories

Oppressively hot weather west of the Mackenzie Mountains established numerous record high temperatures across the Yukon. A few all-time records were also set; for example 34° at Watson Lake. Apart from the above normal precipitation in extreme southern Baffin Island, the Arctic was generally dry. Eureka, NWT received 485 hours of bright sunshine - the most for any station in Canada this May.

British Columbia

A changeable weather regime resulted in sunny and hot conditions by the end of the month. During the last week-end of May, a strong southerly flow allowed temperatures to rise into the mid to high thirties, breaking numerous temperature records. No less than seven all-time high temperatures were set at various locations. The dry hot weather allowed the fire index to reach extreme; by the end of the month many new forest fires, including large ones were burning in central and northern districts.

Prairies

Mean monthly temperature ranged from near normal in the west to more than 5° below normal in the east. Parts of central and southern Alberta had one of their driest months on record and rain was urgently needed for newly seeded crops.

Two major snow storms struck central and eastern portions giving heavy snow and blizzard-like conditions. The first storm on the 10th dropped 15 to 20 cm of snow over a large area of southern Saskatchewan and northern Manitoba. On the 12th a second storm produced additional snowfalls of 25-35 cm in southeast-

Canada

SURFACE WEATHER RECORD

WATERLOO-WELLINGTON 'A' (YKF)

AT

PROVINCE

ONTARIO

FROM

2 1983

19 MAY

TO

OBSERVED DATA AND COMPUTATIONS

NOTES AND INSTRUMENT DEFECTS AND CHANGES

PK WND 1839 Z 240° Q64

RAIN 1830 - 2100 Z = 1/8" 2 MM

TORNADO SIGHTING BY MR.

SCOTT SUTHERLAND OF CKO-

RADIO AT APPROXIMATELY

1835 Z. RPTS XTNSU DAMAGE

OVER A 7 MILE STRETCH

BEGINNING 4 MILES EAST OF

QUELUP ALONG #7. 100+

LARGE TREES UPROOTED,

STRUCTURAL DAMAGE TO

BUILDINGS + QUELUP AIRPARK.

EST. FORCE 9 WINDS.

II HOURLY OBSERVATIONS

OBSERVED DATA AND COMPUTATIONS									
NOTES AND INSTRUMENT DEFECTS AND CHANGES									
PK WIND 1839 Z 240° Q 64									
RAIN 1830 - 2100 Z = 1/8" 2 MM.									
TORNADO SIGHTING 8 1/2 MR.									
SCOTT SUTHERLAND OF CKO -									
RADIO AT APPROXIMATELY									
1830 Z. RPTS XTNSU DAMAGE									
OVR A 7 MILE STRETCH									
BEGINNING 4 MILES EAST OF									
GUELPH ALONG #7. 100+									
LARGE TREES UPROOTED,									
STRUCTURAL DAMAGE TO									
BUILDINGS + GUELPH AIRPARK.									
EST. FORCE 9 WINDS.									
Duration of Weather and/or Obstruction to Vision									
Type 2	Bgn 3	End 4	Type 2	Bgn 3	End 4				
PW -	→	QUNT	T	LATE LATE LATE	LATE LATE LATE				
P -	QUNT	QUNT	RW -	LATE LATE LATE	LATE LATE LATE				
P -	QUNT	1043	T	EARLY EARLY EARLY	EARLY EARLY EARLY				
P -	1043	1051	RW +	EARLY EARLY EARLY	EARLY EARLY EARLY				
T	1802	2022	A	EARLY EARLY EARLY	EARLY EARLY EARLY				
PW -	1831	1853							
PW +	1853	1946							
A	1946	1946							
PW -	1946	1955							
PW -	1955	2000							
A	2000	2000							
PW -	2000	2000							
A	2000	2000							

CHANGES AND NEW IN

SURFACE WEATHER RECORD AT SARNIA (A) (YER) PROVINCE ONTARIO FROM 0945 02 MAY 1983 TO 20

II HOURLY OBSERVATIONS										WIND		Temperature °C (TENTHS)		Sea-level Pressure (mb)	Thunder and Lightning by Volume	Visibility (MI)	Sky Condition	Clouds and/or Obscuring Phenomena Type/Opacity	
Corrected Wet-Bulb °C	Relative Humidity %	Total Opacity	Total Amount	Type	Date (GMT)	Hour (GMT)	Direction	Speed (kt)	Character	Altimeter Setting (in.)	AT 08Z	Dry-Bulb	Dew-Point						
23	24	25	26	27	28	29		36	37	38	39		34	35	33	32	30		40
					02 0100	02 0100		16	19	G27									
					02 0900	02 0900		20	18										
					02 0900	02 0900		18	17	G22			13.8						
12.7	82	9	9	SA	02 1000	02 1000		19	14	G20	950		14.4	11.4	99.1		145 SCT E 100 BKN		
2.0	50	7	4	SA	02 1100	02 1100		19	20	G25	950		14.0	10.5	99.2		45 SCT 100 SCT 250 - SCT		
12.0	52	2	2	SA	02 1200	02 1200		15	17	G22	942		15.5	12.5	99.8		100 SCT		
12.8	73	1	1	SA	02 1300	02 1300		20	25	G31	949		15.6	10.7	98.9		100 SCT		
14.5	77	1	1	SA	02 1400	02 1400		20	22	G31	948		17.5	12.6	98.5		100 SCT		
15.1	71	7	7	SA	02 1500	02 1500		20	22	G28	946		18.2	12.8	97.8		E 20 BKN		
16.2	77	9	9	SA	02 1600	02 1600		20	26	G35	942		18.8	14.9	96.4		20 SCT E 100 BKN 250 BKN		
		9	9	SP	02 1605	02 1605		20	25	G34							20 SCT E 45 BKN 250 BKN		
		9	9	SP	02 1625	02 1625		19	28	G40							20 SCT E 45 BKN		
		10	10	SP	02 1645	02 1645		31	27	G54							-X E 20 OVC		
		9	9	SP	02 1648	02 1648		20	19	G47							15 SCT E 40 BKN		
13.7	80	9	9	SA	02 1700	02 1700		21	22	G30	941		15.7	12.2	96.0		15 SCT E 40 BKN		
14.8	71	9	9	SA	02 1730	02 1730		21	16	G23							15 SCT E 40 BKN		
14.8	71	9	9	SA	02 1800	02 1800		21	15		941		17.8	12.7	95.5		15 SCT E 40 BKN		
		9	9	SP	02 1810	02 1810		21	22								E 40 BKN		
		8	8	SP	02 1840	02 1840		21	16								E 40 BKN		
15.6	72	5	5	SA	02 1900	02 1900		21	15				18.6	13.3	95.8		40 SCT		
14.6	48	8	8	SA	02 2000	02 2000		22	25		941		20.8	15.7	95.6		E 40 BKN		
					02 2100	02 2100		MM	MM				16.0						
					02 2200	02 2200		MM	MM										
					02 2300	02 2300		MM	MM										
					03 0000	03 0000		25	20				13.0						
					03 0100	03 0100		24	18										

I OBSERVED DATA AND COMPUTATIONS				NOTES AND INSTRUMENT DEFECTS AND CHANGES	
PAWCS ALT: 157					
#1: 29.46					
#2: 30.46					
PKWIND 1631Z					
POWEE OFF 1658Z - 2300Z					
DUE TSTMS & TURNING					
UNVENTILATED TANKS USED AT 18Z - 20Z					
TORNADO REPORTED BY FARMER					
3 MILES W OF WYOMING - 1700Z					
2ND REPORT NE REESES CORNER					
Duration of Weather and/or Obstruction to Vision (GMT)					
Type 2	Bgn 3	Type 2	End 4	Bgn 3	End 4
RW - 1602	1605				
RW - 1605	1645				
T 1625	1645				
FT 1645	1646				
RW + 1645	1646				
RW 1648	1655				
RW - 1655	1720				

NOTES AND INSTRUMENT DEFECTS AND CHANGES

PAWRS ALT: 15 Z
#1: 29.46
#2: 30.46

PKWIND 1631Z
POWER OFF 1658Z-2300Z
DUE TSTM & TORNADO
UNVENTILATED TUNNEL USED AT 18Z-20Z
TORNADO REPORTED BY FARMER
3 MILES W OF WYOMING-1700Z
2ND REPORT NE REESES CORNER

Duration of Weather and/or Obstruction to Vision (GMT)

Type 2 Bgn 3 End 4
RW- 1602 1605
RW- 1605 1645
T 1625 1645
F 1645 1648
RW+ 1645 1648
RW 1648 1655
RW- 1655 1720

