

With increasingly warmer spring time temperatures, lower levels of the atmosphere become drier, as relative humidities decrease. This results in large areas of clear skies between individual weather systems, as seen in this NOAA 9 photo of March 26, 1986.

- Avalanches kill four in British Columbia
- Record warmth from Ontario to the Maritimes
- Storm force winds whip Newfoundland



TEMPERATURE



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WEEKLY TEMPERATURE EXTREME (C)

	MAXIMUM		MINIMUM				
BRITISH COLUMBIA	KAMLOOPS	20	FORT NELSON	-16			
YUKON TERRITORY	ROSS RIVER	8	OGILVIE	-35			
NORTHWEST TERRITORIES	FORT SMITH	10	EUREKA	-47			
ALBERTA	MEDICINE HAT	23	HIGH LEVEL	-23			
SASKATCHEWAN	ESTEVAN	22	URANIUM CITY	-25			
MANITOBA	GRETNA	17	LYNN LAKE	-30			
ONTARIO	WINDSOR	27	MOOSONEE	-29			
QUEBEC	SUTTON JUNCTION	23	KUUJJUARAPIK	-32			
NEW BRUNSWICK	FREDERICTON	19	CHARLO	-13			
NOVA SCOTIA	GREENWOOD	24	SYDNEY	-12			
PRINCE EDWARD ISLAND	SUMMERSIDE	13	CHARLOTTETOWN	-10			

ACROSS THE COUNTRY ...

Yukon and Northwest Territories

In the Yukon, the week was primarily cloudy and cold, with scattered flurries or periods of light snow. In the Mackenzie District, snowfalls ranged between 5 and 15 centimetres, mostly falling towards the end of the period Blizzards and blowing snow were common in the Keewatin District and coastal areas of Hudson Bay. On March 29-30, Cape Dyer, on the east coast of Baffin Island, was buried under more than 50 cm of fresh snow, increasing their depth of snow on the ground to 170 cm. It was primarily clear and cold in the high Arctic, where temperatures plunged to the minus forties.

British Columbia

A series of disturbances produced heavy rains along the coast, and gave above normal precipitation further inland. Mild temperatures and a heavy snow pack in the southern interior were conducive to avalanches. Six snowmobilers were caught in a snowslide near Valemont in southern B.C.; four of them perished. Trees were beginning to bloom in the southern valleys, while good spring skiing was still available on the higher slopes.

Prairie Provinces

Record warm weather was experienced in Alberta during the early part of the week, but strong winds, frequently gusting to over 100 km/h, created serious soil erosion problems in the south due to the lack of soil moisture. In some open areas, blowing dust reduced visibilities to only a few kilometres. Warm weather moved into the eastern prairies over the weekend, but only after fresh snow blanketed central Saskatchewan and Manitoba earlier in the week. Locations in the interlake district received 15 cm of new snow on March 25. Over the weekend, under mainly sunny skies, daily high temperature records were broken in the east, when readings climbed to the low twenties.

DEER LAKE 12 WABUSH LAKE -33 ST JOHN'S

NEWFOUNDLAND

ACROSS THE NATION

WARMEST MEAN TEMPERATURE11WINDSORONTCOOLEST MEAN TEMPERATURE-41EUREKANWT

PRECIPITATION

Ontario

Weatherwise it was a perfect Easter weekend in the southern half of the province. The weather was unusually warm, with plenty of sunshine. In fact, this was the mildest spell of warm weather in southern Ontario during March since 1946. A northward shift in the storm track steered low pressure systems across the upper Great Lakes, where the heaviest precipitation was recorded, some of it falling as snow. Associated strong southerly winds allowed very warm air to surge northward from the American south, breaking many daily temperature records. Over the weekend readings in southern Ontario climbed into the twenties. The mercury at Windsor registered 27°C on Easter Sunday. In contrast, maximum temperatures in northwestern Ontario reached 8°C - still significantly above normal.

Quebec

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Warm and sunny weather conditions infiltrated the southern half of the province, as weather systems tracked further to the north. The unseasonably mild weather caused rapid snow melt, swelling streams and rivers. In the Eastern Townships, several rivers overflowed their banks, flooding many low lying areas. Eighteen daily maximum temperature records were broken. As a result of the unusually warm maple syrup production weather, yields have been poor. Spring skiing continues in the Eastern Townships.

Maritimes



HEAVIEST WEEKLY PRECIPITATION (mm)

BRITISH COLUMBIA	MCINNES ISLAND	97
NADTUWEGT TEDDITADIEC		13
ALBERTA	JASPER	26
SASKATCHEWAN	URANIUM CITY	13
MANITOBA	GIMLI	18
ONTARIO	MOOSONEE	42
QUEBEC	BLANC SABLON	25
NEW BRUNSWICK	FREDERICTON	44
NOVA SCOTIA	SABLE ISLAND	23
PRINCE EDWARD ISLAND	CHARLOTTETOWN	35
NEWFOUNDLAND	ARGENTIA	68

weather conditions improved.

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Except for brief intrusions of bouts of freezing precipitation longed power outages, especially on cold air, it was a mild spring and snow until the weekend, when the Connaigre Peninsula. St. John's established a new daily rainfall record of 23 mm, while northern areas of the Island received significant amounts of snow, ranging up to 15 cm. Over the holiday weekend, temperatures climbed to above normal values, but the mild weather was also accompanied by coastal fog. Considerable sunshine was experienced in Labrador, with gradually moderating temperatures through the period

week. On March 26, a southerly flow brought record breaking maximum temperatures to Nova Scotia. On March 30, a new monthly temperature record of 23.9°C was established at Monthly temperature Greenwood. records were also set at Halifax and Shearwater on March 31, 16.4 and 18.8°C, respectively. Several weather systems brought inclement weather to the Maritimes. Despite the overall warm temperatures, New Brunswick and P.E.I. still incurred

Newfoundland

In Newfoundland and Labrador, the week started out on the cold side. On March 25, winds were gusting to 104 and 111 km/h at Port aux Basques and St. John's, respectively. Low temperature records were also broken the same day. On March 28, a weather system brought freezing rain and snow. There were pro-

FORECAST



CLIMATIC PERSPECTIVES VOLUME 8

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Climatic Perspectives is a weekly bilingual publication of the Canadian Climate Centre, Atmospheric Environment Service, 4905 Dufferin St., Downsview, Ont. Canada M3H 5T4. Phone (416)667-4906/4711.

The purpose of the publication is to make topical information available to the public concerning the Canadian Climate and its socioeconomic impact.

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The data shown in this publication are based on unverified reports from approximately 225 Canadian synoptic weather stations. Information concerning climatic impacts is gathered from AES contacts with the public and from the media. Articles



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

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.

Temperature Anomaly Forecast

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Annual Subscriptions Weekly issue including monthly supplement: \$35.00 Monthly issue only: \$10.00 Subscription enquiries: Supply and Services Canada, Publishing Centre, Ottawa, Ontario, Canada, KIA 059. Phone (613)994-1495





ACID RAIN



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 SO₂ and NO_x emissions are greatest. The table below gives the weekly report summarizing the acidity (or pH) of the 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 less than 4.7, while pH readings less than 4.0 are serious. For more information concerning the acid rain report, see Climatic Perspectives, Vol. 5 No. 50 p. 6.

MARCH 23 TO MARCH 29, 1986									
SITE	DAY	pH	AHOUNT	AIR PATH TO SITE					
Longroods	26	4.8	3(r)	Tennessee, Kentucky, Indiana, Southern Ontario					
Dorset	23	4.3	1(m)	Indiana, Ohio, Southern Ontario					
	24	4.2	3(m)	Wisconsin, Michigan, Southern Ontario					
	25	3.9	1(r)	Illinois, Michigan, Southern Ontario					
	26	4.4	3(r)	West Virginia, Chio, Southern Ontario					
	29	6.5	2(r)	Indiana, Michigan, Southern Ontario					
Chalk River	24	4.4	6(s)	Wisconsin, Michigan, Central Ontario					
	25	4.1	3(m)	Illinois, Indiana, Michigan, Central Ontairo					
	26	4.0	2(r)	West Virginia, Michigan, Southern Ontario					
Sutton	23	4.1	5(m)	Pennsylvania, New York					
	01	20	7(-)	Vincinia Now Jonany Fastern Penneylvenia, Fastern New York					

26 3.9 /(r) Virginia, New Jersey, Eastern Pennsylvania, Eastern New York 29 4.4 3(r) Ohio, Pennsylvania, New York

New York, Southern Quebec 3(s) Montmorency 23 4.1 Michigan, Central Ontario, Central Quebec 6(s) 25 4.4 Eastern Pennsylvania, New York, Eastern Ontario, Central Quebec $l(\mathbf{r})$ 26 4.0 North Western Quebec, Central Quebec 28 4.5 2(s)

Kejimkujik274.410(r)Atlantic Ocean284.42(m)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 APRIL 1,1986											28						
STATION	TEMPERATURE PR		PRE	PRECIP. WIND MX		DMX	STATION	TEMPER		RATURE		PRECIP.		WIND MX			
Pression and a p	AV	DP	MX	MN	TP	SOG	DIR	SPD	1 Colorest Street	AV	DP	MX	MN	TP	SOG	DIR	SPD
BRITISH COLUMBIA	=1/			-	-		2770	100	THE PAS	2	*	14	-13	15	0	270	59
CAPE ST.JAMES	07	1	10	3	42	0	2/0	109		-2	9 7	12	-28	1	2	300	44
FORT NELSON	0	5	13	-16	0	14	310	40	ONTARIO	3	'	12	-10		0	300	01
FORT ST.JOHN	3	6	10	-10	0	0	270	72	ATIKOKAN	3	6	15	-14	6	18	270	50
KAMLOOPS	9P	3P	20P	-3P	0	0	190	61	BIG TROUT LAKE	-5	*	8	-23	25	39	290	69
PENTICTON	IOP	4P	18P	-3	1	0	170	59	GORE BAY	4	6	13	-4	18	2	210	56
PORT HARDY	74	20	14	1P _4	52	0	120	63	KAPUSKASING	1	4	13	-10	6	19	250	63
PRINCE BUPERT	6	2	10	1	48	o	120	69	KINGSTON	8P	6P	16P	1P	0	ó	210	X
REVELSTOKE	5	3	10	-2	19	8	300	48	LONDON	9	8	24	-3	5	Õ	240	76
SMITHERS	3	2	10	-3	8	0	180	56	MOOSONEE	-5	5	8	-29	42	40	290	57
VANCOUVER INT'L	8	1	12	1	44	0	270	65	NORTH BAY	4	7	15	-6	28	10	250	46
WILLIAMS LAKE	8	4	13	-6	22	0	140	39 Y	DETAWA INT'L	60	OP OP	230	-4 -5P	5	0		×
YUKON TERRITORY	T	T	2		1	v		^	PICKLE LAKE	-2P	SP	10P	-16P	23	46	290	61
DAWSON	-9	*	4	-30	1	30	260	43	RED LAKE	1	6	10	-9	29	18	320	50
MAYO	-6	0	5	-28	3	28		X	SUDBURY	3	6	13	-6	28	8		X
SHINGLE POINT A	-27	-3	-21	-33	3	51	-	*	THUNDER BAY	2	5	17	-12	6	6	290	91
WAI SUN LAKE	-3	4	6	-23	0	35	250	50		2	1	12	-13	9	53	1/0	40
NORTHWEST TERRITORI	ES		2	-25	0	10	100	33	TRENTON	8	7	20	-2	3	0	230	X
ALERT	-32P	OP	-23P	-39P	1P	22	240	31	WIARTON	8	8	19	-3	7	0		X
BAKER LAKE	-25	0	-16	-34	3	37	310	93	WINDSOR	11	8	27	-1	8	0	240	80
CAMBRIDGE BAY	-31	-2	-25	-38	1	19	210	50	RACOTVILLE	110 110	F	10	16	16	14	770	5
CAPEDIER	-23	-4	-16	-34	43	32	310	63	BLANC SARI ON	-7	э *	3	-10	25	27	2/0	X
COPPERMINE	-27	*	-21	-34	2	22	510	*	NUKJUAK	-17	1	-6	-30	6	26	170	65
CORAL HARBOUR	-26P	-4P	-18P	-34P	4	26		X	KUUJJUAQ	-15P	-1P	-1P	-27P	7	82	270	69
EUREKA	-41P	-5P	-32P	-47P	1	21		*	KUUJJUARAPIK	-12	2	1	-32	5	63	160	67
FORT SMITH	-5	6	10	-23	5	28	240	X	MANIWAKI	5	8	22	-5	12	0	210	50
HALL BEACH	-24 -30P	-4 -3P	-17P	-33	20	20	290	63	MONTREAL INTI	7	47	23	-12	2	0	240	50
INUVIK	-25	-3	-17	-35	4	39	230	X	NATASHQUAN	-7	-3	2	-21	10	28	310	65
MOULD BAY	-32	-2	-26	-39	3	30		X	QUEBEC	2	4	13	-10	8	58	280	50
NORMAN WELLS	-18	-2	-9	-26	3	25		X	SCHEFFERVILLE	-13	-1	1	-27	19	60	300	57
RESOLUTE	-32	-3	-23	-38	1	31	040	46	SEPT-ILES	-5	-2	6	-20	7	47	310	69
YELLOWKNIEF	-12	-5	-24	-30	2	40	300	46		2	7	13	-10	23	38	200	70
ALBERTA				2.0	-				NEW BRUNSWICK	-		10	10	20	50	200	10
CALGARY INT'L	5	7	19	-7	0	0	250	106	CHARLO	0	3	9	-13	3	11	290	67
COLD LAKE	3	7	14	-9	1	0	270	65	CHATHAM	2	3	18	-12	25	0	280	63
EDMONTON NAMAO	4	60	130	-9 -0P	13	0	300	65	FREDERICTON MONCTON	4	2	19	-12	44	27	290	24 70
FORT MCMURRAY	3	8	12	-13	1	õ	290	x	SAINT JOHN	3P	3P	13P	-10P	23	ó	210	59
HIGH LEVEL	-1	6	11	-23	0	20	340	46	NOVA SCOTIA								
JASPER	4	4	11	-4	26	0		X	GREENWOOD	6	5	24	-7	8	0	230	109
LE INBRIDGE	9	8	22	0	6	0	280	94	SHEARWATER	5P	4P	19P	-7P	3	0	210	61
PEACE RIVER	8	5	23	-15	0	3	250	60	YARMOLTH	TP	5P	14P	-12 -3P	5	13	210	69
SASKATCHEWAN				10		9	200		PRINCE EDWARD ISLAND	"	51	111	G	,	v	210	
CREE LAKE	-1	10	9	-17	1	19	300	67	CHARLOTTETOWN	1	2	12	-10	35	6	230	52
ESTEVAN	7	8	22	-7	2	0	280	106	SUMMERSIDE	1	2	13	-10	21	14	210	87
REGINA	2	10	10	-18	2	0	330	5/ B1	CAPTWRICHT	-0	-4	2	-21	17	105	370	87
SASKATOON	3	8	17	-11	4	0	290	72	CHURCHILL FALLS	-12	-3	0	-29	18	89	300	52
SWIFT CURRENT	5	8	19	-8	1	0		X	GANDER INT'L	-1	0	11	-14	28	18	270	72
YORKTON	2	8	13	-10	7	0	300	89	GOOSE	-10	-5	4	-24	16	43	320	59
REANDON	No.		15	. 0	0	0	220	76	PORT-AUX-BASQUES	-3P	-1P	5P	-11P	17P	4	290	102
CHURCHILI	-13	4	-7	-26	P	22	330	63	ST LAWRENCE	-2	-1	4	-12	20	6	200	94 X
LYNN LAKE	-2	10	10	-30	1	6	260	37	WABUSH LAKE	-11	-2	1	-33	24	0	270	48
i contra												-					
AV = weekly mean tem	perati	ine in	dea	ree C	AT Y				DIR = direction of maximu		vind s	speed	dec	, from	n tr	e nor	-th)
MX = weekly extreme maximum temperature in degree C SPD = maximum wind speed in km /hour																	
MN = weekly extreme minimum temperature in degree C										VIIO							
IP = weekly total precipitation in mm						X = not observed											
UP = departure of mean	n tern	pera	ture f	mon	norn	nal in	degr	ee C	P = value based on less than / days								
SUG = snow depth on g	such a snow depth on ground in cm, last day of the period							d	* = missing								25.4
	-	-	-	-		10000					-	Contraction of			-	1	

7

CIRCULATION

50 KPa ATHOSPHERIC CIRCULATION



MEAN 50 KPa HEIGHT ANOMALY (dam) March 22 to March 26, 1986

MEAN 50 KPa HEIGHTS (dam) March 22 to March 26, 1986

90

50 - KPA HEIGHTS

22.03.86 TO 26.03.86 CONTOUR INTERVAL 5 (DAM)

SO' C

5 - DAY MEAN



8

