Environment Canada

March 29 to April 4, 1988

Environnement Canada

A weekly review of Canadian climate

Perspectives

Climatic

Vol. 10 No. 14



The above new temperature forecast format is the one currently proposed for the official public product to be released effective May 15, 1988. Please forward any comments to the Canadian Climate Centre at the address listed on page 4.

Winter month an angiata in the Austi

Wintry weather persists in the Arctic Mild spring weather for Easter Much needed precipitation B.C. southern interior



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ACROSS THE COUNTRY...

Yukon and Northwest Territories

A broad ridge of high pressure prevailed over the Arctic, producing fair but cold weather conditions. Disturbances tracked eastwards towards Hudson Bay along a line south of the Northwest Territories. Blizzards occurred near northern Hudson Bay, while temperatures in the more southern portions of the north managed to climb above the freezing mark. Snowfalls in the order of 10 to 50 centimetres fell in the Yukon. Falls of 10 to 15 centimetres were common on Baffin Island, where temperatures remained below freezing throughout the period. Record cold weather was in evidence in the high Arctic, with readings dipping down to the minus forties.

British Columbia

For the most part it was a dull and wet week as Pacific weather systems affected the province. The drought stricken areas of southern B.C. received 5 to 20 millimetres of precipitation, while coastal districts had amounts approaching 100 mm. Fresh snow fell at higher elevations, increasing the snow pack, and resulting in slippery road conditions through the mountain passes. The northern parts of the province received 20 cm of snow. Apricots are in bloom in the Okanagan.

Prairie Provinces

A mild Pacific air mass gradually made its way across the Rockies accompanied by scattered showers. This is a big improvement from last week's snowstorm, which is blamed for the deaths of new born calves. Sizable drifts are still evident in many areas.

ACROSS THE NATION

WARMEST MEAN TEMPERATURE COOLEST MEAN TEMPERATURE

Canada

10 WINDSOR -36 EUREKA ONT

NWT

In Saskatchewan and Manitoba, it was an Easter weekend to remember after a cold, wintry start to the period. In the north many locations picked up 10 cm of new snow earlier in the week. By the middle of the week high pressure produced sunny but cool weather. The weather over the long Easter weekend turned out to be near perfect. Temperatures in both provinces soared to the low twenties under sunny skies, break-

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ing many long standing daily temperature records.

Ontario

It was a changeable spring week as disturbances from the American southwest tracked towards the Great Lakes. The whole province, except the extreme northwest, experienced a mostly cloudy and wet Easter. Thunderstorms were prevalent, producing 10 to 45 millimetres of rain. Dense fog on Easter Sunday closed Pearson International Airport for most of the evening, delaying both incoming and outgoing flights by several hours. In northwestern Ontario it was a different story, as sunny record warm weather prevailed during the holidays. Daytime temperatures on April 2 and 3 climbed to the mid-teens, breaking many daily temperature records. The southern half of the province is snow-free, while snow depths across the north range from 20 to 50 centimetres.

Quebec

Last week's mild weather continued, and many daily high temperature records were broken after the middle of the week. Weather systems, approaching from the southwest, produced unsettled conditions during the early and latter part of the period, but for the most part, the Easter weekend turned out pleasant and balmy. The ski season is drawing to a close, except in the ski centres near Quebec City, where there still is an ample snow cover. The spring thaw is well under way. The lack of heavy rain has prevented any significant flooding. The mild weather has slowed logging.



Heaviest Weekly Precipitation (mm)

BRITISH COLUMBIA	CAPE ST.JAMES	127	
YUKON TERRITORY	SWIFT RIVER	35	
NORTHWEST TERRITORIES	FROBISHER BAY	15	
ALBERTA	FORT CHIPEWYAN	19	
SASKATCHEWAN	CREE LAKE	24	
MANITOBA	THOMPSON	19	
ONTARIO	GORE BAY	53	
QUEBEC	VAL D'OR	32	
NEW BRUNSWICK	CHARLO	13	
NOVA SCOTIA	GREENWOOD	25	
PRINCE EDWARD ISLAND	SUMMERSIDE	4	
NEWFOUNDLAND	PORT-AUX-BASQUES	33	

significant increase in the sap flow. A dis- weekend, with cloud and precipitation turbance brought showers towards the end of the Easter weekend. Heaviest amounts of rain, 20 to 30 millimetres, fell in western Nova Scotia.

season until this week, when there was a produced fair weather during the Easter returning to most areas by the end of the period. Northern districts received 10 to 15 centimetres of fresh snow, while significant rainfalls fell in the south. In Labrador, the early part of the week was unsettled, with an area of high pressure dominating the weather picture over the holiday weekend. Fresh snowfalls, of 5 to 10 centimetres, fell the final day of the period. Snow depths along the coast ranged as high as 168 cm.

Maritimes

A strong ridge of high pressure deflected weather systems north of the region. Partly sunny and cool conditions at the beginning of the period gave way to a sunny and mild Easter weekend. Maximum temperatures soared to daily record values on March 31, April 1 and 3. Cool nights and sunny warm days, with readings climbing to the mid-teens, benefited Maple syrup producers. It had been a slow

Newfoundland

On the Island, the week started off cloudy, with extensive fog and periods of rain or drizzle. Temperatures were on the mild side. A ridge of high pressure

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CLIMATIC PERSPECTIVES VOLUME 10

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

Unsolicited articles are welcome but should be at maximum about 1500 words in length. They will be subject to editorial change without notice due to publishing time constraints. The contents may be reprinted freely with proper credit.

The data 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 do not necessarily reflect the views of the Atmospheric Environment Service.

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++ much above normal

Temperature Anomaly Forecast

+ 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 choosen analogues is assumed to be a forecast for the next 15 days from now.

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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 emis sions 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, Volume 5, Number 50, page 6.

MARCH 27 TO APRIL 2, 1988

SITE	DAY	PH	AMOUNT	AIR PATH TO SITE
Longwoods	2	4.2	8(r)	Georgia, Tennessee, Kentucky, Ohio
Dorset	28	4.4	1(r)	Ohio, Southern Ontario
	30	4.1	2(r)	West Virginia, Pennsylvania, New York, Southern Ontario
	2	4.1	10(r)	Georgia, West Virginia, Ohio, Southern Ontario
Chalk River	2	3.7	4(r)	Ohio, Pennsylvania, New York, Eastern Ontario
Sutton	27	4.3	8(m)	Atlantic Ocean, New England, New York
Montmorency		Data	not availa	able



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TEMPERATURE,	TEMPERATURE, PRECIPITATION AND MAXIMUM WIND DATA FOR THE WEEK ENDING 0600 GMT APRIL 5,19								988								
STATION	TE	MPE	RATU	RE	PRE	CIP.	WIN	DMX	STATION	TE	MPE	RATU	RE	PRECIP.		WINI) MX
BRITISH COLUMBIA CAPE ST.JAMES CRANBROOK FORT NEL SON	6F 5	OP 2	10P 14 8P	1P -3 -12P	TP 127P 9	SOG 0 0	300 250 320	104 69 37	THE PAS THOMPSON WINNIPEG INTIL ONTARIO	AV -2 -6P 3	DP * 5P 5	12 7P 17	-20 -27P -12	TP 4 19P 1	SOG 1 8 0	DIR 140 010 180	SPD 48 50 61
FORT ST.JOHN KAMLOOPS PENTICTON PORT HARDY	2886	3 1 1 0	13 18 16 11	4400	7 2 4 77	1 0 0 0	240 230 180 110	83 56 63 56	ATIKOKAN BIG TROUT LAKE GORE BAY KAPUSKASING	-2 -3 3 1	2 * 4 5	15 7 14 14	-18 -16 -5 -12	8 9 53 16	22 27 1 41	250 220 290 120	31 74 65 50
PRINCE GEORGE PRINCE RUPERT REVELSTOKE SMITHERS VANCOUVER INT'L	35538	* 1 2 1 0	10 9 11 13 11	-3 0 -2 6 2	14 88 29 11P 37	0 1 0 0 0	180 210 160 250 130	56 76 33 81 54	KENORA KINGSTON LONDON MOOSONEE NORTH BAY	-1 5P 8 -1 5	2 3P 6 6 6	12 11P 18 14 15	-15 -4P -3 -16 -5	1 0 14P 8 21	16 0 33 2	210 240 270 190	50 X 72 44 72
VICTORIA INT'L WILLIAMS LAKE YUKON TERRITORY DAWSON	8 2 -3P	0 * 3P	12 10	2 -6	17 19 2P	0 1 51	200	50 X X	OTTAWA INT'L PETAWAWA PICKLE LAKE RED LAKE	7 4P -2 0P	6 5P 4 4P 6	17 14P 15 15P	-2 -6P -18 -18P	19 13P 11 3P	0 1 52 52	250 190	X X 57 59 Y
SHINGLE POINT A WATSON LAKE WHITEHORSE NORTHWEST TERRITORII	-26P -3P -1 ES	-4P 2P 2	-21P 4P 7	-34P -13P -8	2P 10P 1	37 * 28	090 160	* 46 43	THUNDER BAY TIMMINS TORONTO INT'L TRENTON	0267	2644	9 14 13 14	-10 -7 -3 -4	8 33 19P 24P	0 41 0 0	290 220	37 * 80 X
BAKER LAKE CAMBRIDGE BAY CAPE DYER CLYDE	-23P -28 -19 -27	120 -1 -4	-18P -12 -12 -18	-30P -37 -28 -36	1P 2P 2 1P	78 35 72 25	310 310 320	35 41 * 65 35	WINDSOR QUEBEC BAGOTVILLE BLANC SABLON	/ 10 2 -1P	6 5 4 *	18 18 13 4P	-4 0 -8 -7P	49 22 12 6P	0 0 9 1	260 270	X 81 54 X
COPPERMINE CORAL HARBOUR EUREKA FORT SMITH	-28 -18 -36 -3	* 3 - 5 - 5 - 5 - 19	-19 -13 -23 6	-38 -26 -42 -20 -31P	3P 2 2P 4	55 31 14 31	170	* X 39 X	INUKJUAK KUUJJUAQ KUUJJUARAPIK MANIWAKI MONT JOLI	-12P -10P -7P 5	4P 3P 5P 6	-3P -1P 3P 15	-21P -20P -24P -8	7P 14P 9P 17	57 46 31 1	100 270 130 230	70 74 65 61
HALL BEACH INUVIK MOULD BAY NORMAN WELLS RESOLUTE	-26 -26P -32 -17 -31		-15 -16P -26 -10 -25	-35 -35P -38 -24 -38	2 5P 1 6 0P	35 * 13 13 13 13	050	43 X X 50	MONTREAL INT'L NATASHQUAN QUEBEC SCHEFFERVILLE SEPT-ILES	7 -1P 3 -8 -2	562P332	17 3P 11 2 6	-3 -8P -7 -19 -8	6 3P 16 8 4	0 31 47 71 6	240 010 080 290 080	+3 52 43 33 76 43
YELLOWKNIFE ALBERTA CALGARY INTIL	-9 3	4	2	-24	1	35	070	Х 57 67	SHERBROOKE VAL D'OR NEW BRUNSWICK CHARLO	5 2P	6 6P	17 12P	-9 -8P	6 32P	1 13 19	270 220	41 44 41
COLD LAKE CORONATION EDMONTON NAMAO FORT MCMURRAY	1 1 3 0 7	33433	11 13 16 10 7	-17 -15 -11 -19	30190	1 0 19 79	280 190 120	56 39 48 X	CHATHAM FREDERICTON MONCTON SAINT JOHN NOVA SCOTTA	4 5 4 5	4444	17 16 16 16	-5 -5 -4 -4	7 2 3 1	1 1 0 0	320 330 320 340	41 43 50 50
JASPER LETHBRIDGE MEDICINE HAT PEACE RIVER SASKATCHEWAN	2P 3P 6P 3	2P 1P 4P 5	10P 17P 17P 13	-4P -12P -12P -6	6P 0P 1P 11	1 0 0 1	240 230 240	+3 X 104 74 52	GREENWOOD SHEARWATER SYDNEY YARMOUTH DEINICE EDWARD ISLAND	5 5 2P 5	3 3 3P 2	16 14 10P 12	-3 -1 -6P -4	25 11 7P 20P	* 0 0 0	020 340 020 330	48 54 54 52
CREE LAKE ESTEVAN LA RONGE REGINA	-5 4 -3 7	4 5 4 5	6 22 12 20	-24 -11 -17	24 4 2P	43 0 41	180 260 280	46 70 56	CHARLOTTETOWN SUMMERSIDE NEWFOUNDLAND	222	22	11 11	-5 -4	1 4	4 6	350 010	46 57
SASKATOON SWIFT CURRENT YORKTON MANTTOBA	1 2 -1	3 3 4	18 18 15	-14 -16 -15 -17	5 0 4 2	0000	210 210 300	59 48 X 44	CHURCHILL FALLS GANDER INTEL GOOSE PORT-AUX-BASQUES	6 1 2 2	23333	5 4 11 10 8	-12 -18 -7 -13 -4	8 4 6 33	99 10 52 1	270 160 280 300	* 57 46 43 41
GRANDON CHURCHILL LYNN LAKE	1 -11P -8P	5 4P 2P	22 4 2 -47 2P	-17 -21P -21P	2 5P 1P	0 30 50	300 060 020	65 61 44	ST JOHN'S ST LAWRENCE WABUSH LAKE	1 3 -5P	1 4 5P	9 11 6P	-5 -4 -18P	13 14 6P	0 * 50	160 250	65 X 56
AV = weekly mean temp MX = weekly extreme mi MN = weekly extreme mi TP = weekly total precipit DP = departure of mean	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 = departs m at maximum temperature (in degree C TP = weekly total precipitation in mm										th)						
SOG = snow depth on gr	oth on ground in cm, last day of the period *= missing																

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