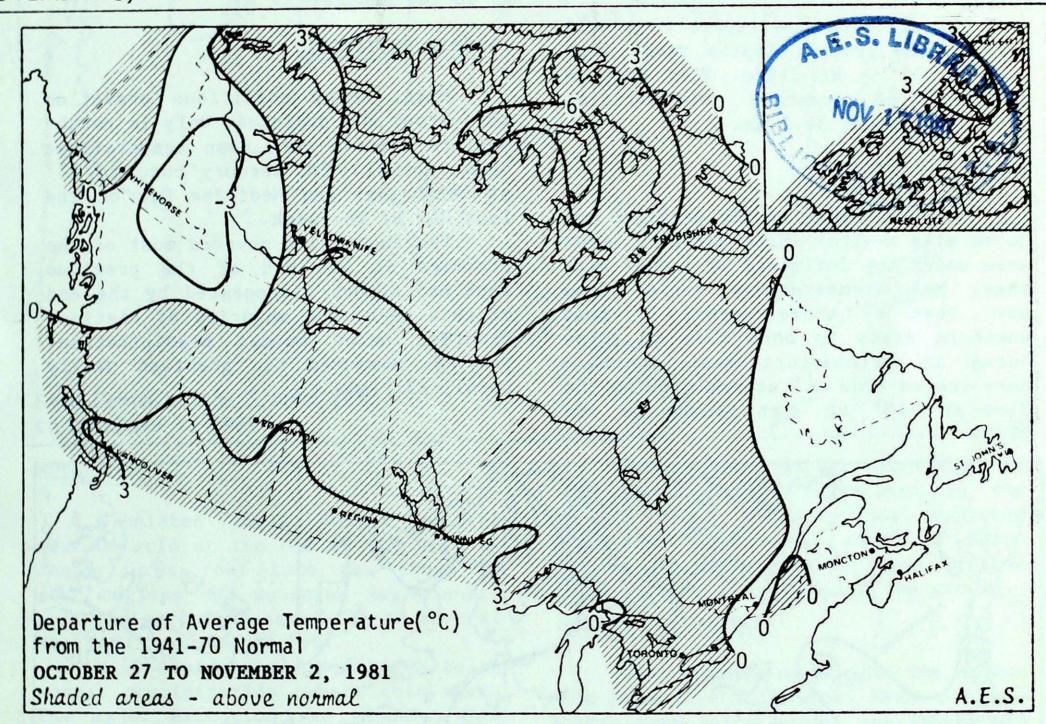
Canadä

THE CANADIAN CLIMATE CENTRE,
ATMOSPHERIC ENVIRONMENT SERVICE,
4905 DUFFERIN ST., DOWNSVIEW, ONTARIO M3H 5T4

NOVEMBER 6, 1981

(Aussi disponible en français)

VOL.3 NO.44



WEATHER HIGHLIGHTS FOR THE PERIOD - OCTOBER 27 TO NOVEMBER 2, 1981

Most of Canada enjoys mild weather

In a reversal from the previous week, mean temperatures throughout most of the country were above normal this week. Mean temperatures remained above normal in the Arctic and were more than 7° above normal in some areas of the Melville Penninsula.

Temperatures across Canada varied from a maximum of 23° at Lethbridge and Medicine Hat, Alberta to a minimum of -32° at Eureka, Northwest Territories. Cape Scott, British Columbia measured the highest weekly precipitation total, 229.5 mm.

YUKON AND NORTHWEST TERRITORIES

Mean temperatures were below normal along the Mackenzie Valley and in southeastern Yukon. Elsewhere mean temperatures were above normal and exceeded 7° above normal in some areas of the Melville Penninsula. The mercury rose to near the freezing point at many stations.

All stations now report continued snow on the ground. Depths range from 2 cm to 73 cm at Clyde. Fort Simpson reported the greatest precipitation total this week, 31.2 mm.

BRITISH COLUMBIA

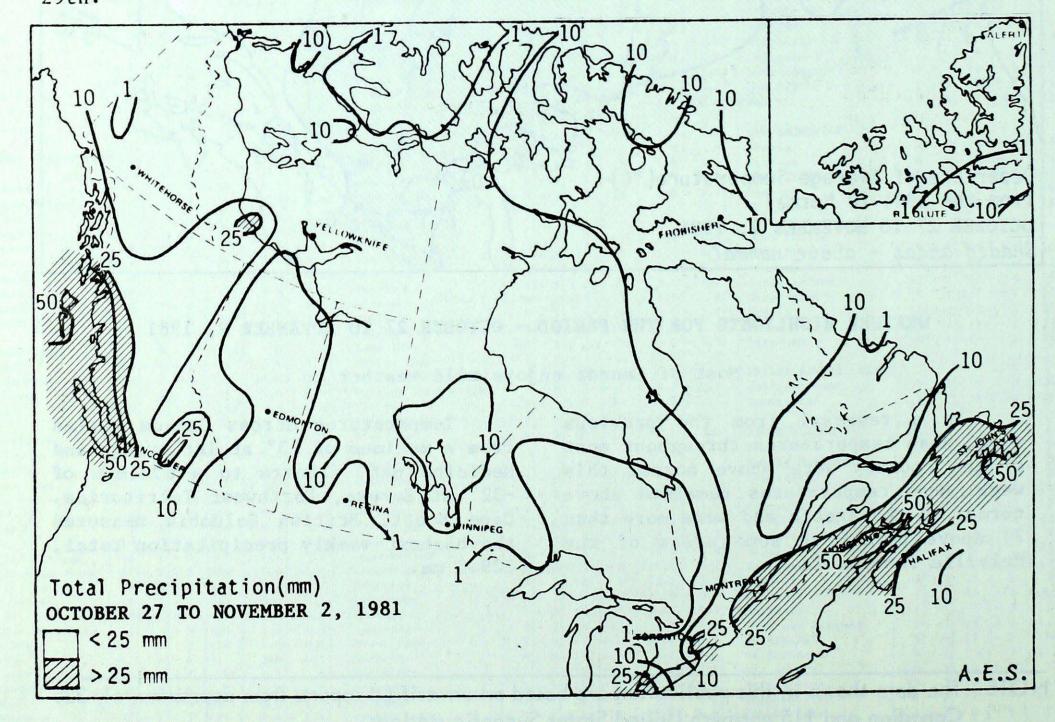
Southern areas of the province enjoyed mild weather while northern areas were under the influence of a cool airmass. Mean temperatures varied from more than 6° above normal in some southern areas to more than 4° below normal in northeastern areas. The mercury varied from 21° at Kamloops on the 31st to -19° at Fort Nelson on the 29th.

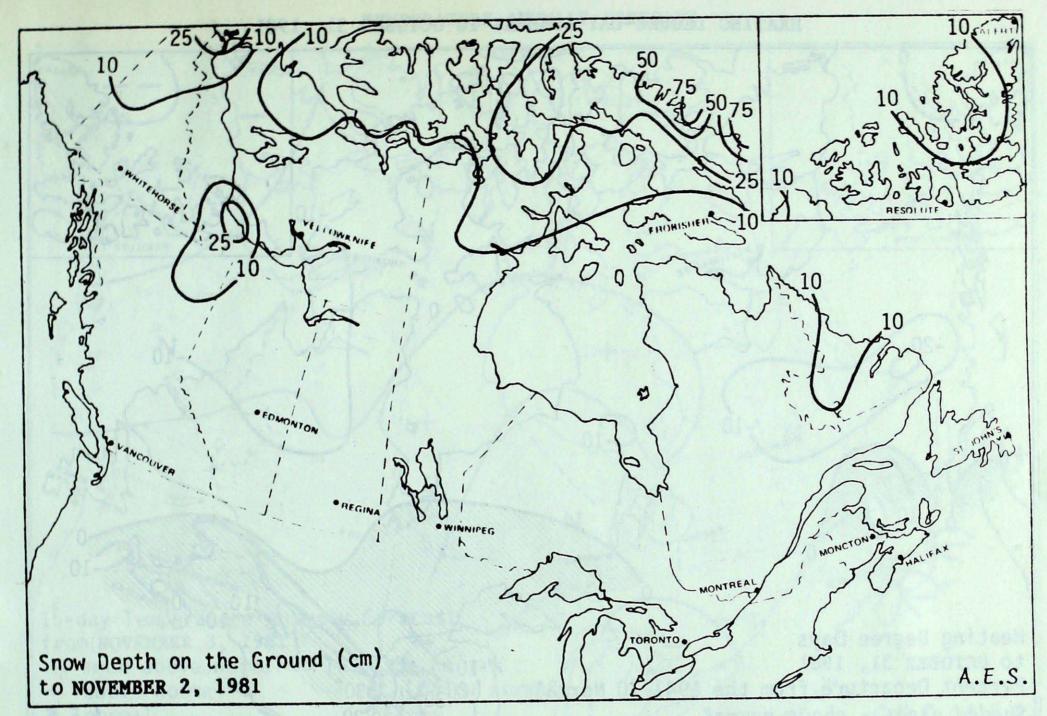
Large amounts of rain fell on the coastal areas and Cape Scott recorded a weekly total of 229.4 mm. Flooding, road washouts and the destruction of a bridge were reported at Howe Sound and Squamish north of Vancouver. Although the precipitation amounts were large, they were not record amounts and other factors, such as debris in the water, appear to have contributed significantly to the damage.

PRAIRIE PROVINCES

Mild, sunny conditions prevailed throughout the prairies. Only in north-western Alberta were mean temperatures below normal. The mercury rose to 23° at Lethbridge and Medicine Hat on the last day of the week.

The snow which covered most of the prairies at the end of the previous week had almost disappeared by the end of this week. The majority of stations recorded below normal precipitation. The Pas measured the greatest weekly total, 23.1 mm.





ONTARIO

A belated "Indian Summer" settled over Ontario at the end of the week as temperatures rose into the teens in most regions and sunshine was plentiful. The mercury reached 18° at several stations on November 1st.

Many stations recorded much below normal precipitation totals this week. The major exception was Windsor with 48.1 mm. September and October saw a total of 236 mm of rainfall in Toronto making this the wettest "autumn" of this century. A wetter beginning to the fall season was last seen in 1899 (246 mm).

The corn season harvest was delayed by this wet period due to soggy fields and high moisture content in the corn itself.

QUÉBEC

Mean temperatures were close to normal throughout most of the province. The mercury varied from 14° at Sherbrooke on the 27th to -13° at Fort Chimo on the 31st.

Greater than normal quantities of precipitation were registered in the south. Minor flooding was reported along the St-François river at Sherbrooke as 64.3 mm fell from October 26th to 28th and saturated the ground.

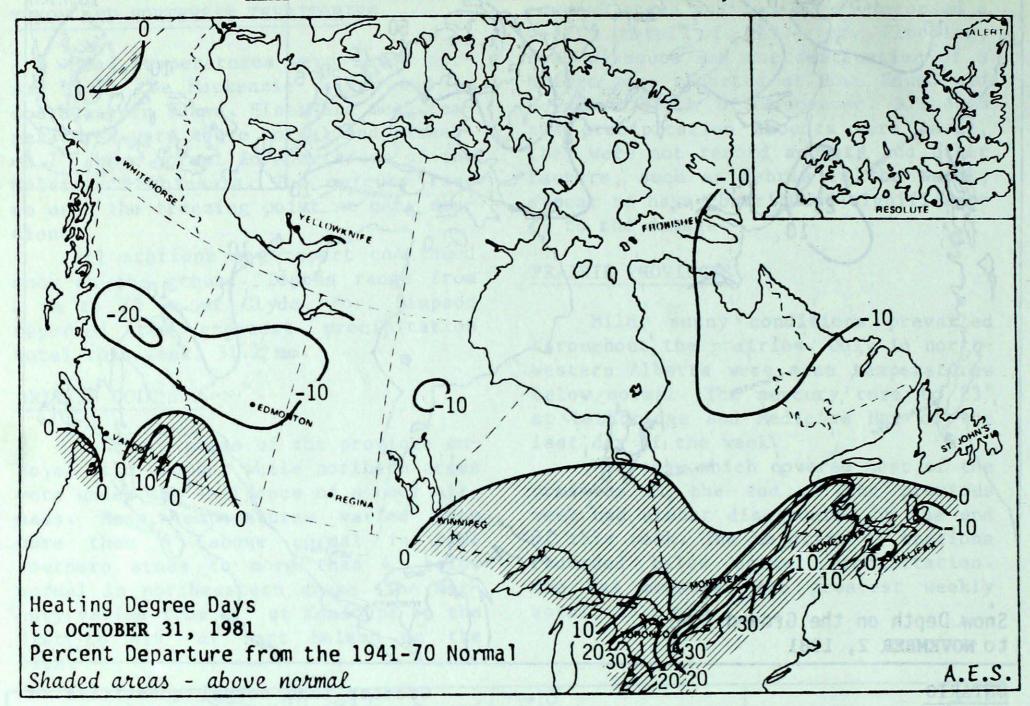
ATLANTIC PROVINCES

Cool weather moved into the Atlantic Provinces this week. Mean temperatures were below normal everywhere although the mercury reached 17° at several stations on October 28th.

Most stations in the Maritimes and southern Newfoundland reported above normal precipitation totals. Moncton recorded 79.7 mm.

Monthly precipitation records for October were established at several stations. Gander set an all time record for any month with 208.7 mm (previous record 187.2 mm in August 1951). St. John's recorded 322.2 mm in October, breaking the old record of 226.6 mm set in 1942. In unusual contrast, St. John's was also within 2 hours of the previous record total sunshine hours for October.

HEATING DEGREE-DAY SUMMARY TO OCTOBER 31, 1981

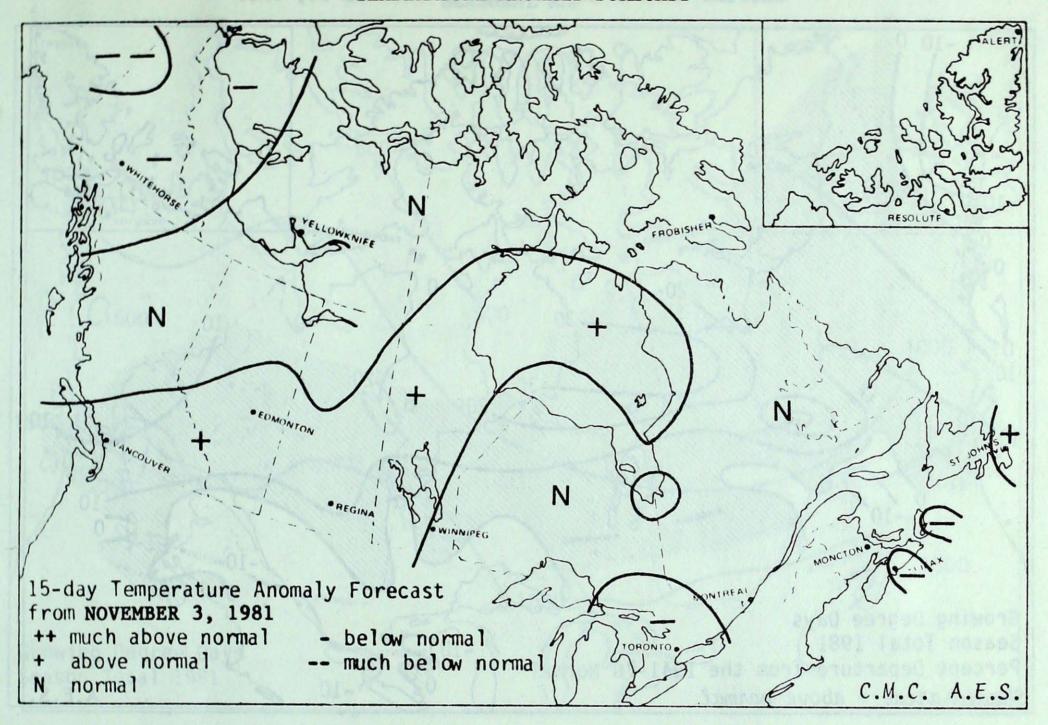


STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Resolute	946.5	-69.5	2577.0	-25.0	99
Inuvik	738.5	-62.5	1622.0	-15.0	99
Whitehorse	505.5	-31.5	1108.5	-36.5	97
Vancouver	267.0	22.0	416.0	-18.0	96
Edmonton Mun	402.5	14.5	616.5	-115.5	84
Calgary	394.0	11.0	717.5	-48.5	94
Regina	439.0	45.0	622.0	-45.0	93
Winnipeg	393.5	37.5	592.0	2.0	100
Thunder Bay	439.0	68.0	733.5	40.5	106
Windsor	282.5	78.5	367.5	88.5	132
Toronto	357.5	103.5	509.0	128.0	134
Ottawa	382.0	92.0	551.5	100.5	122
Montreal	375.5	106.5	543.5	141.5	135
Quebec	408.0	76.0	643.5	89.5	116
Saint John, N.B.	339.5	26.5	594.5	8.5	101
Halifax	277.0	26.0	448.5	25.5	106
Charlottetown	302.0	12.0	504.5	20.5	104
St. John's, Nfld.	304.5	-32.5	703.0	-7.0	99

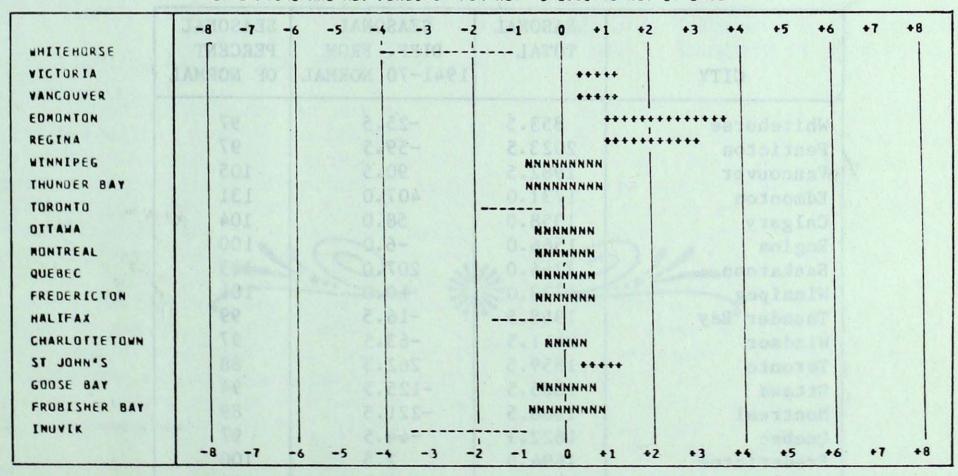
president sense Islan broom election

broaks on the 21th to -12th Legist

TEMPERATURE ANOMALY FORECAST



TEMPERATURE ANOMALY FORECAST FOR NOV 3 1981 TO NOV 17 1981

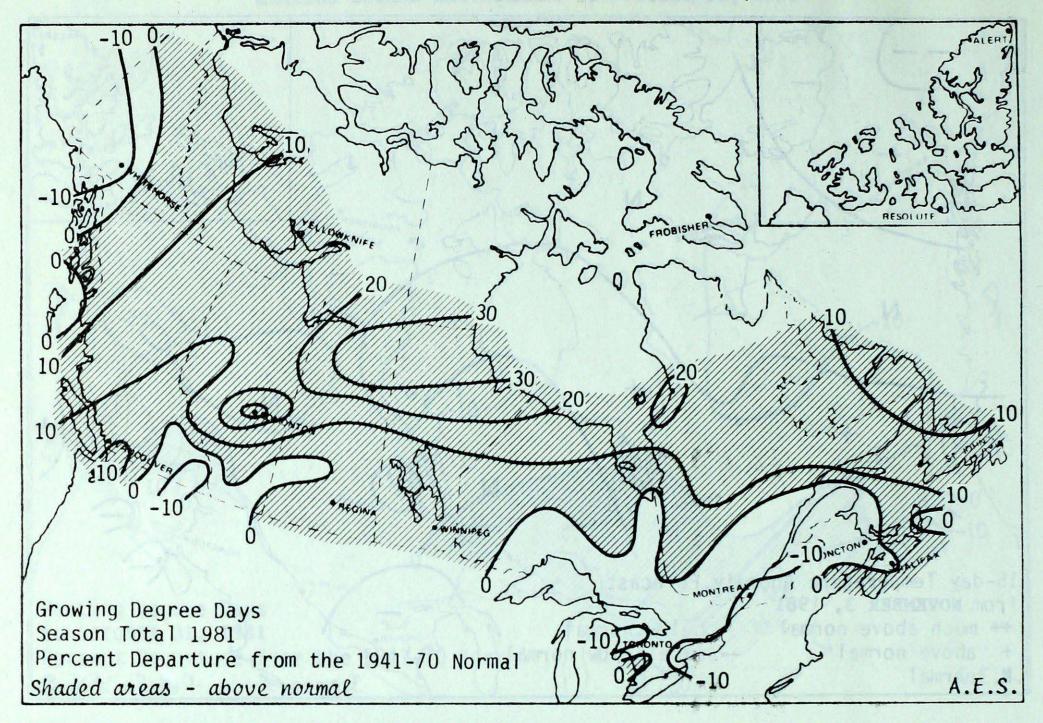


CCC MUCH BELOW NORMAL BELOW NORMAL

NNNN NEAR NORMAL

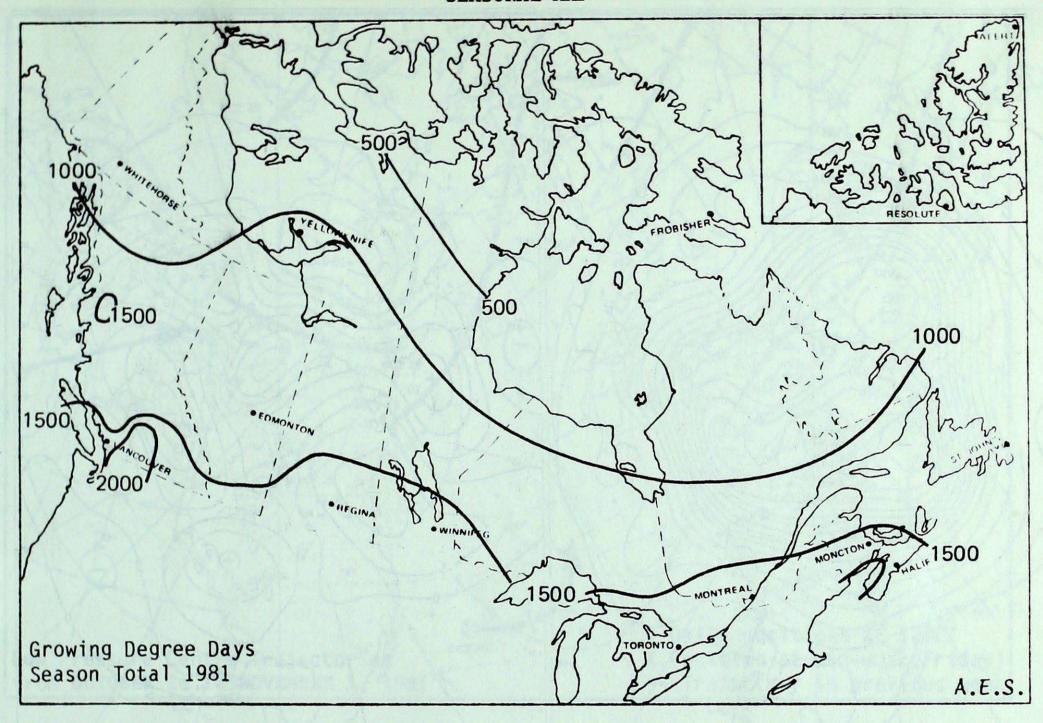
>>>> MUCH ABOVE NORMAL ABOVE NORMAL

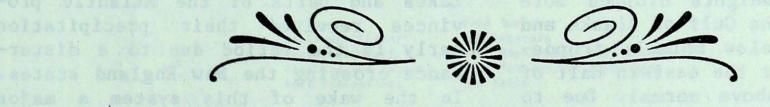
GROWING DEGREE-DAY SUMMARY TO OCTOBER 31, 1981



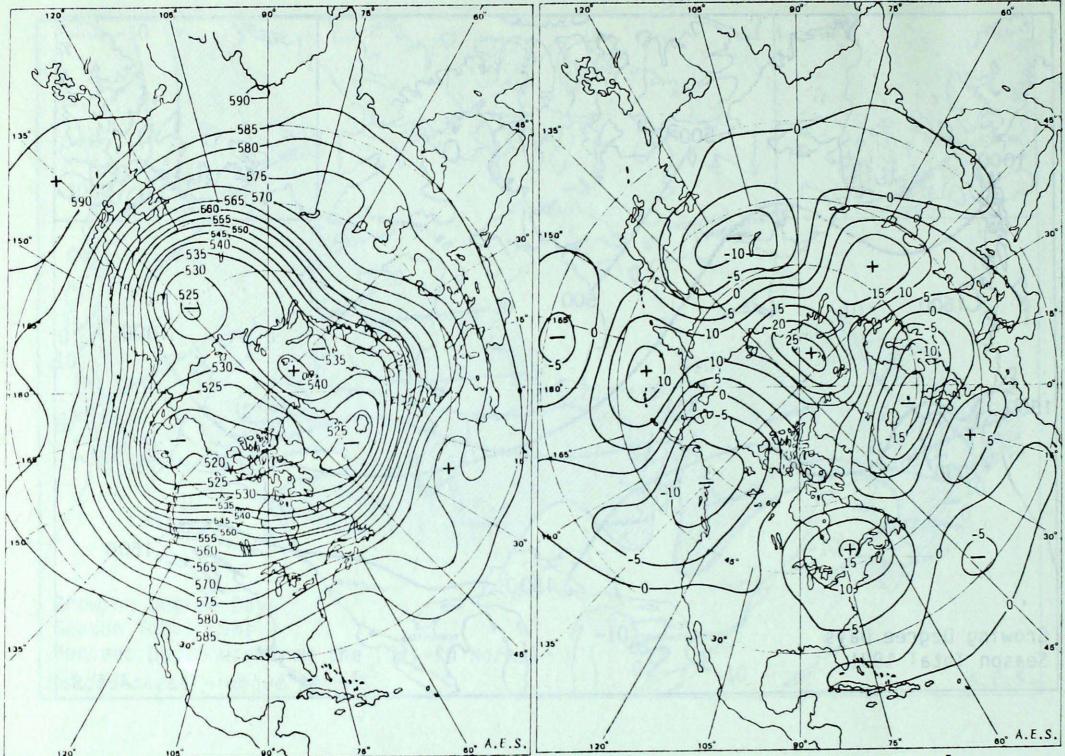
CITY	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Whitehorse	853.5	-25.5	97
Penticton	2023.5	-59.5	97
Vancouver	1982.5	90.5	105
Edmonton	1731.0	407.0	131
Calgary	1358.0	58.0	104
Regina	1566.0	-6.0	100
Saskatoon	1764.0	207.0	113
Winnipeg	1733.0	10.0	101
Thunder Bay	1358.5	-16.5	99
Windsor	2411.5	-63.5	97
Toronto	1859.5	262.5	88
Ottawa	1885.5	-125.5	94
Montreal	1868.5	-221.5	89
Quebec	1622.5	-44.5	97
Fredericton	1694.5	2.5	100
Halifax	1628.5	-1.5	100
Charlottetown	1653.0	82.0	105
St John's	1244.5	122.5	111

SEASONAL MAP





ATMOSPHEREIC CIRCULATION



7-day Mean 50 kPa Height Map(in dam) OCTOBER 26 TO NOVEMBER 1, 1981

7-day Mean 50 kPa Height Anomaly (in 5 dam intervals)
OCTOBER 26 TO NOVEMBER 1, 1981

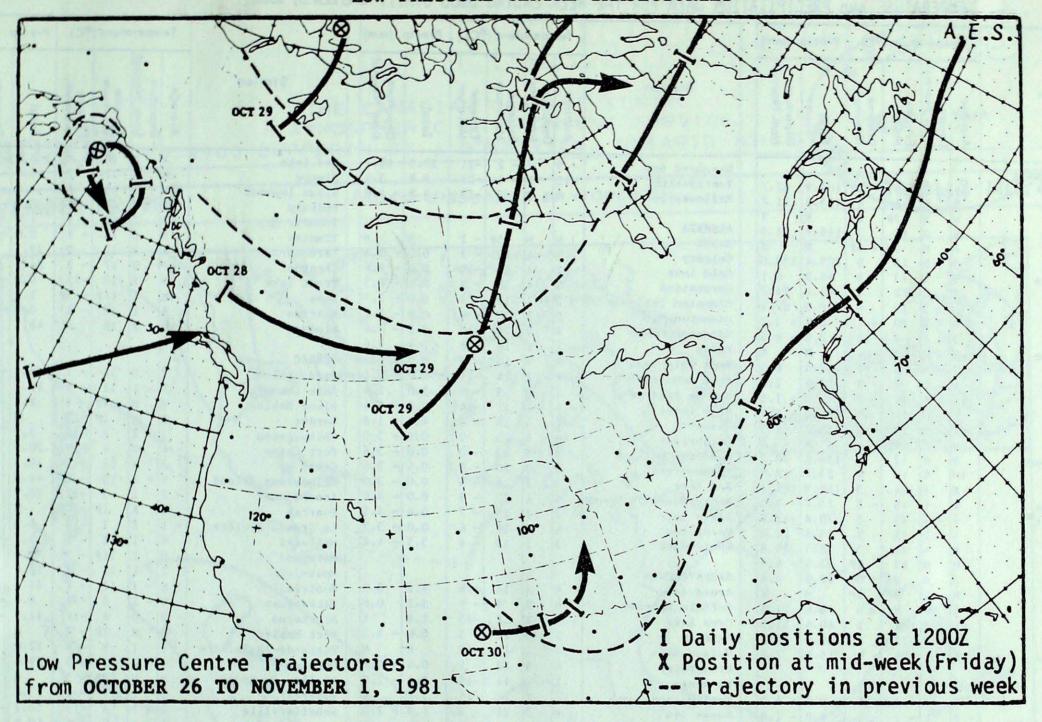
The upper circulation pattern reversed itself from last week. A 50 kPa trough moved inland from the Pacific, while a tropospheric ridge dominated the central and eastern portions of the country. 50 kPa heights dropped more than 45 dam over the Gulf of Alaska and are now 15 dam below normal; tropospheric heights over the eastern half of the country are above normal. Due to the movement of the tropospheric wave patterns and the effect of 7 day averaging, wave amplitudes are not depicted very well on the 50 kPa maps this week.

At the surface there were relatively fewer weather systems crossing the country, but the ones that did develop were well organized and mostly in the western and northern portions of the country.

As can be expected with this type of circultion pattern, significantly higher precipitation amounts occurred over British Columbia, especially along the coastal areas. The lower Great Lakes and parts of the Atlantic protheir precipitation vinces received early in the period due to a disturbance crossing the New England states. In the wake of this system a major upper ridge and associated higher surface pressure dominated the weather regime across most of the country resulting in fair "Indian Summer" weather.

Andy Radomski

LOW PRESSURE CENTRE TRAJECTORIES



CLIMATIC PERSPECTIVES

Staff

Editor: Assistant Editor: Technical Staff: Graphics and Layout: Word Processing: Yves Durocher
Bob Paterson
Fred Richardson, Andy Radomski
Bill Johnson, J. Rautenberg
Una Ellis

Correspondents

Terry Mullane, (Ice Forecasting Central)
H.E. Wahl, (Whitehorse)
Bill Prusak, (Western Region)
Fred Luciow, (Central Region)
Bryan Smith, (Ontario Region)
Jacques Miron, (Quebec Region)
Frank Amirault (Atlantic Region)
Staff of Prince George, Kamloops, Castlegar, Fort Nelson, Penticton and Kelowna weather office (Pacific Region)

Telephone Inquiries (416) 667-4711/4906

TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. NOVEMBER 3, 1981

	Ter	nperc	ature (°C)	Precip		
Station	Average	Departure from Normal	Extreme	Extreme Minimum	Total	Departure from Normal	
BRITISH COLUMBIA Abbotaford Alert Bay Blue River Bull Harbour Burns Lake 'Cape Scott Cape St James Castlegar Comox Cranbrook Dease Lake Estevan Point Fort Nelson Fort St John Kamloops Langara Lytton Mackenzie McInnen Island Penticton Port Hardy Prince George Prince Rupert Quesnel Revelstoke Sandapit Smithers Stewart Terrace Vancouver Victoria Williams Lake	1	0 X X 0 1 2 3 7 1 M 4 0 0 6 0 0 5 5 X 0 0 4 4 1 1 1 2 2 4 M M 0 0 3 3 2 2 4 1 2 2 2 4 1 2 2 2 4 1 2 2 2 2	9 21 11 18 8P 12 16 14 15 13 15 11 13 8 9P 8 17	2 4 2 3 - 4P 5 6 1 4 -1 -12 4 -19 - 8 - 2 5 6 - 4P 6 4 3 - 3 2 P - 5 3P 0 5 3 - 4	156.8 23.6 158.9 23.7 70.8 23.8 38.3 33.5 22.6	- 3.7 - 6.5 M 6.1 2.0 - 1.5 - 5.7 2.5 X 78.2 18.5 107.2 9.3 -12.8 10.4 20.4 - 6.6 4.4 X 11.3 51.5 31.2	SASK Broa Buff Cree Eate
YUKON Burwash Dawson Komakuk Beach Mayo Shingle Point Watson lake Whitehorse	- ! -1: -1: -1:	7 1 6 0 5 - 1 9 - 4	- 1 - 6 2 - 6 4	-14 -13 -24 -13 -27 -19 - 7	0.0 6.0 10.6 2.6 9.3 6.1 4.0	7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	Mead Moos NLpa Nort Prin
NORTHWEST TERRITORIA Alert Baker Lake Broughton Island Byron Bay Cambridge Bay Cape Dorset Cape Dorset Cape Dyer Cape Hooper Cape Parry Cape Young Clinton Point Clyde Contwoyto Lake Coppermine Coral Harbour Dewar Lakes Ennadai Eureka Fort Reliance Fort Simpson Fort Smith Frobisher Bay Gladman Point Hall Beach Hay River Inuvik Jenny Lind Island Lady Franklin Point Longstaff Bluff Mackar Inlet Mould Bay Nicholson Peninsula Norman Wells Pelly Bay Pond Inlet Port Burwell Resolute Sacha Harbour	-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -	7 50 50 60 60 60 60 60 60 60 60 60 60 60 60 60	5 1 - 2 5 - 1 - 2 5 - 1 - 2 6 - 2 7 - 2 7 - 2 8 - 3 1 - 3 1 - 4 3 - 1 3 - 1 3 - 3 1 - 3 1 - 3	- 12F -21 -16 -16 -22 -18 -19 -18 -18 -18 -20 -71 -32 -13 -21 -10 -14 -18 -22 -11 -22 -22 -29 -19 -21 -20	2.6 0.7 21.6 18.8 8.4 1.6 7.9 24.9 9.4 31.1 10.1 6.6 23.6 6.6 15.1 17.6 17.6 17.6 17.6	2	Swill Urail Wyn; Yor MAN Biss Brail Chui Dnuj Gil Gim Isl Lyn; Nor Pil Por The Tho Win ONT Arm Ati Ear Gor Kap Kea Kin, Ian Ion Moo Mou Mus Nor Ott Pet

ON DATA FOR THE V	VEEK	EN	DING	060	J G.M.	, , NO	VEI (IS
	Ten	perc	iture (^c	PC)	Precip		
Station	Average	Departure from Normal	Extreme	Extreme Minimum	Total	Departure from Normal	
Shepherd Bay Tuktoyaktuk Yellowkulfe	- 9 -12 - 4	7 1 2	- 2 - 4 2	-21 -23 -13	20.5 6.8 4.8	18.7 3.4 - 1.0	R S S
ALBERTA Banff Calgary Cold Lake Coronation Edmonton Inti Edmonton Mun Edmonton Namao Edaon Fort Chipewyan Fort McMurray Grande Prairie High Level Jasper Lethbridge Medicine Hat Peace River Red Deer Rocky Mountain House Slave Lake Vermilion Whitecourt	M 7 2 5 3 5 4 1 1 1 1 - 4 6 10 9 0 4	M 4 4 4 1 1 3 2 2 1 1 M 1 1 0 0 - 1 1 4 4 5 5 5 0 0 2 2 1 1 2 2 3 3	15P 20 13 18 19 20 20 18 10P 14 9 11 16 23 23 10 16 20 16 20 17	- 2 - 3 -10 - 5 - 6 - 9 -11 - 6 -14 - 3 0 - 3 - 9 - 4 - 5 - 7 - 6 - 4	M 0.0 0.0 0.0 0.0 0.0 7.4 0.0 0.0 9.0 0.0 4.6 0.0 0.4 0.0 0.4	- 1.8 - 5.0 - 3.6 - 3.6 - 3.0 - 4.0 - 4.5 - 3.3	F F F F F F F F F F F F F F F F F F F
SASKATCHEWAN Broadview Buffalo Narrows Cree Lake Estevan Hudson Bay Kindersley La Ronge Meadow Lake Moose Jaw Nipawin North Battleford Prince Albert Regina Rockgien Saskatoon Swift Current Uranium City Wynyard Yorkton		55555555555555555555555555555555555555	(8	- 8	4.6 5.2 1.8 0.6 M 0.4 2.6 1.4 1.0 5.8 3.6 17.3 0.6 M 19.3	0.6 x - 3.3 M - 0.7 - 2.9 x - 2.0 x - 0.3 13.4 16.5 1 - 5.0 - 4.4	
MANITOBA Bissett Brandon Churchill Dauphin Gillam Gillam Gimli Island Lake Lynn Lake Norway House Pilot Mound Portage is Prairie The Pas Thompson Winnipeg		5 2 2 4 4 2 2 1 1 1 1 6 6 6 6 2 1	2 13 4 15 3 5 2 14 X 8 2 14 X 10 2 8 X 10 3 17 4 15 2 11 2 9 4 15	- 5 - 5 - 14 - 4 - 20 - 5 - 11 - 20 - 22 - 4 - 3 - 14 - 25 - 5	9.2 7.4 7.7 5.8 20.5 11.4 20.0 1.5 13.6 6.9 12.3 23.1 7.0	4.8 - 0.7 1.4 5 5 - 5.8 6 - 5.8 6 - 6.6 14.7	3 7 4 4 X 2 2 X 8 8 X 7 7 7 7
ONTARIO Armstrong Atikokan Earlton Geraldton Gore Bay Kapuskasing Kenora Kingston Lansdowne London Moosonee Mount Forest Muskoka North Bay Ottawa Petawawa Pickle Lake		4 4 6 6 2 5 7 7 8 8 M 7 M 5 6 6 4	3 16 2 16 1 16 M 15 0 13 1 12 3 13 0 12 2 15 1 18 M 12 I 15 M 15 I 15 M 15 I 15 M 15 I 16 I 18 M 12 I 18 I 18 I 18 I 18 I 18 I 18 I 18 I 18	- 1 - 6 - 2 - 1 -14 1 -11	0.2 0.6 0.0 0.0 0.0 0.3 3.5 29.3 0.0 8.8 0.0 7.8 0.0 28.6 1.2	5 -19.5 0 -14.1 0 -15.1 1 -15.2 1 -15.6 1 -	5 1 1 1 3 3 5 5 5 5 5 5 5 5 7 7 7

BER 3, 1901	Temperature (°C) Precip. (. (mm)	
		- "						
Station'	Average	Departure	from Norma	Extreme	Extreme Minimum	Total	Departure from Norma	
Red Lake Simcoe Sioux Lookout Sudbury Thunder Bay Timmins Toronto Trenton Trout Lake Wawa Wiarton Windsor	3 M 4 5 5 3 8 7 0 M 8		2 M 3 1 2 1 0 0 2 X 1 2	10 14P 18	- 9 2 - 5 - 5 - 6 - 7 0 - 3 -13 - 5P - 1 4	5.5 16.0 4.6 0.7 1.0 0.0 29.7 24.6 0.0 1.0 0.0 48.1	X	
QUÉBEC Bagotville Baie Comeau Blanc Sablon Border Chibougamau Fort Chimo Gaspé Grindstone Island Inoucdjouac Koartak La Grande Rivière Maniwaki Matagami Mont-Joli Montréal Natashquan Nitchecun Port Menier Poste-de-la-Baleine Québec Rivière du Loup Roberval Schefferville Sept-Iles Sherbrooke Ste Agathe des Monts Val d'Or		2 1 1 1 1 1 4 4 3 3 5 5 5 2 2 4 4 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 7F 18 8 4 13 13 3 17 12 12 11 11	-10 -10 -13 - 5 - 2 -12 - 7F -10 - 7 - 9 - 7 - 2 - 9 -11 - 7 - 6 - 3 P - 5 - 8 - 13 - 9 - 6 - 5	1.2 0.6 13.6 41.6 8.6 11.9 12.0 29.6 13.4 10.2 10.9 35.1 28.8	2.9 - 6.5 M X 29.3 13.5 X -12.3 X - 0.8 26.1 -16.4 - 3.2 M 1.0 15.4 M 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	
NEW BRUNSWICK Charlo Chatham Fredericton Moncton Saint John		3		0 12 1 14 0 15 1 16		63.5	36.4 59.6	
NOVA SCOTIA Eddy Point Greenwood Sable Island Shearwater Sydney Truro Yarmouth	1	6 5 0 6 5 5 8	-	X 17 1 17 0 17 1 16 2 16 1 16 0 17	- 2 - 6 4 - 2 - 5 - 6 - 2	22.2 39.7 9.5 14.0 41.8	19.3 -18.2 -11.3 10.4	
PRINCE EDWARD ISLAND Charlottetown Summerside		5	10000	1 15		58.0		
NEWFOUNDLAND Argentia Battle Harbour Bonavista Burgeo Cartwright Churchill Falls Comfort Cove Daniel's Harbour Deer Lake Gander Goose Hopedale Port aux Basques St Albans St Anthony St John's St Lawrence Stephenville Wabush Lake	-	5034M42222114M03544	N	X 144 2 7 2 12 1 12 M 6 0 3 2 11 2 8 1 11 1 3 1 3 1 5 1 1 13 1 7 2 15 0 14 1 13 1 3 1 3 1 3 1 3 1 3 1 1 3 1 3	- 6 - 2 - 5 - 7 - 10 - 5 - 2 - 8 - 4 - 9 - 5 - 3	18.0 35.0 8.5 5.7	3 -12.6 -1.8 3.2 -9.6 -5.8 -4.5 -0.6 0.5 6.1 -19.5 -14.9 17.1 -12.4 X 9.9 17.0 9.4	