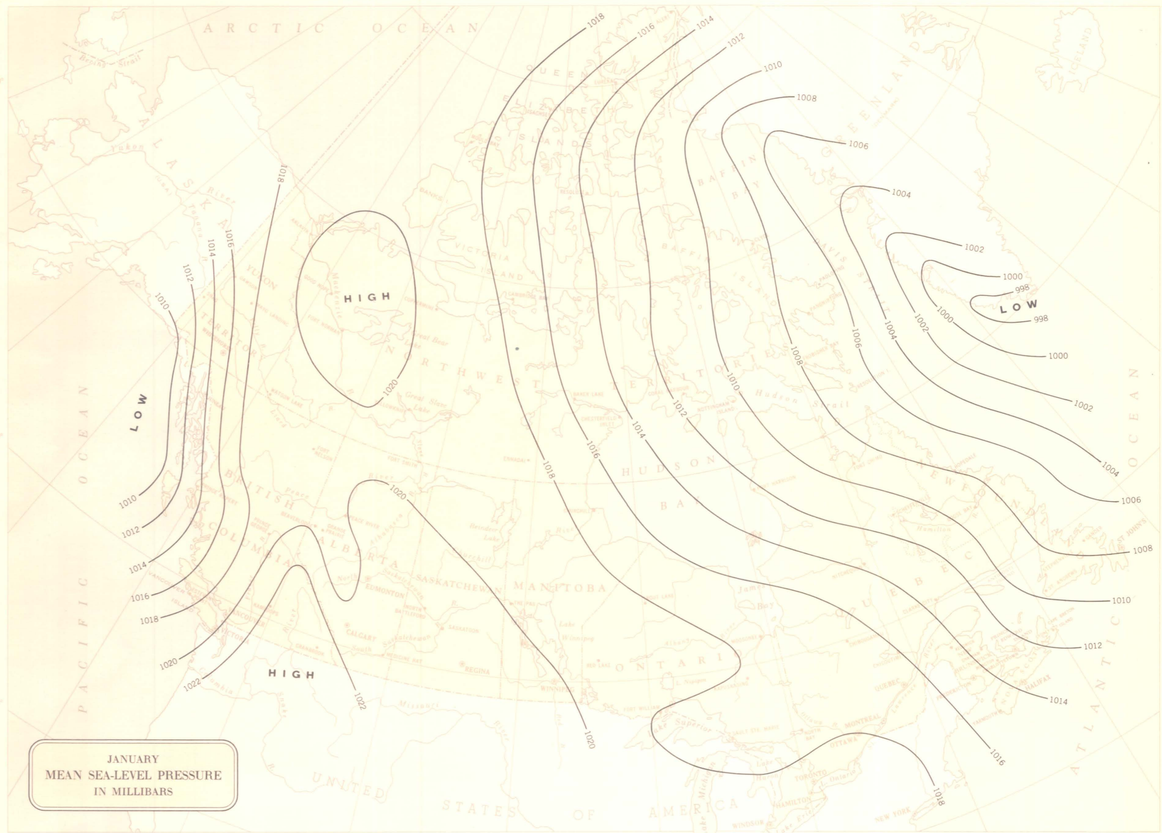


JANUARY
MEAN SEA-LEVEL PRESSURE
IN MILLIBARS

APRIL
MEAN SEA-LEVEL PRESSURE
IN MILLIBARS

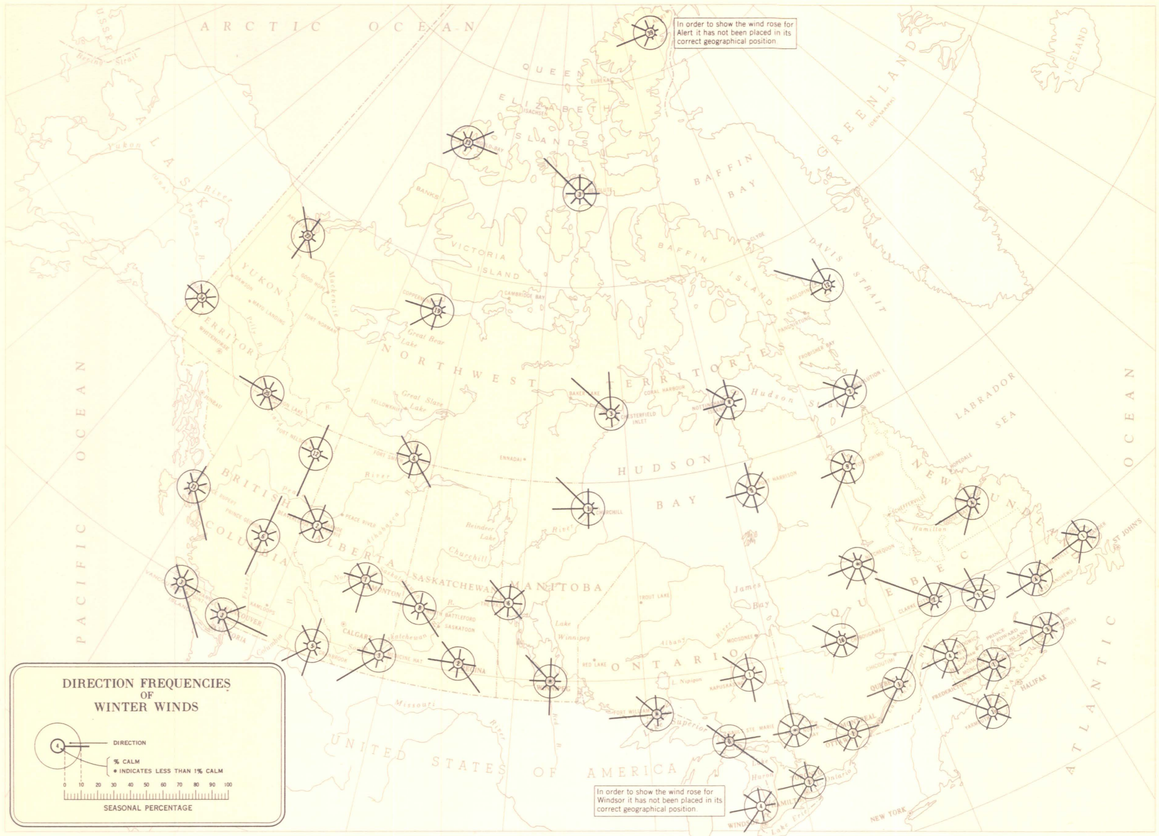
JULY
MEAN SEA-LEVEL PRESSURE
IN MILLIBARS

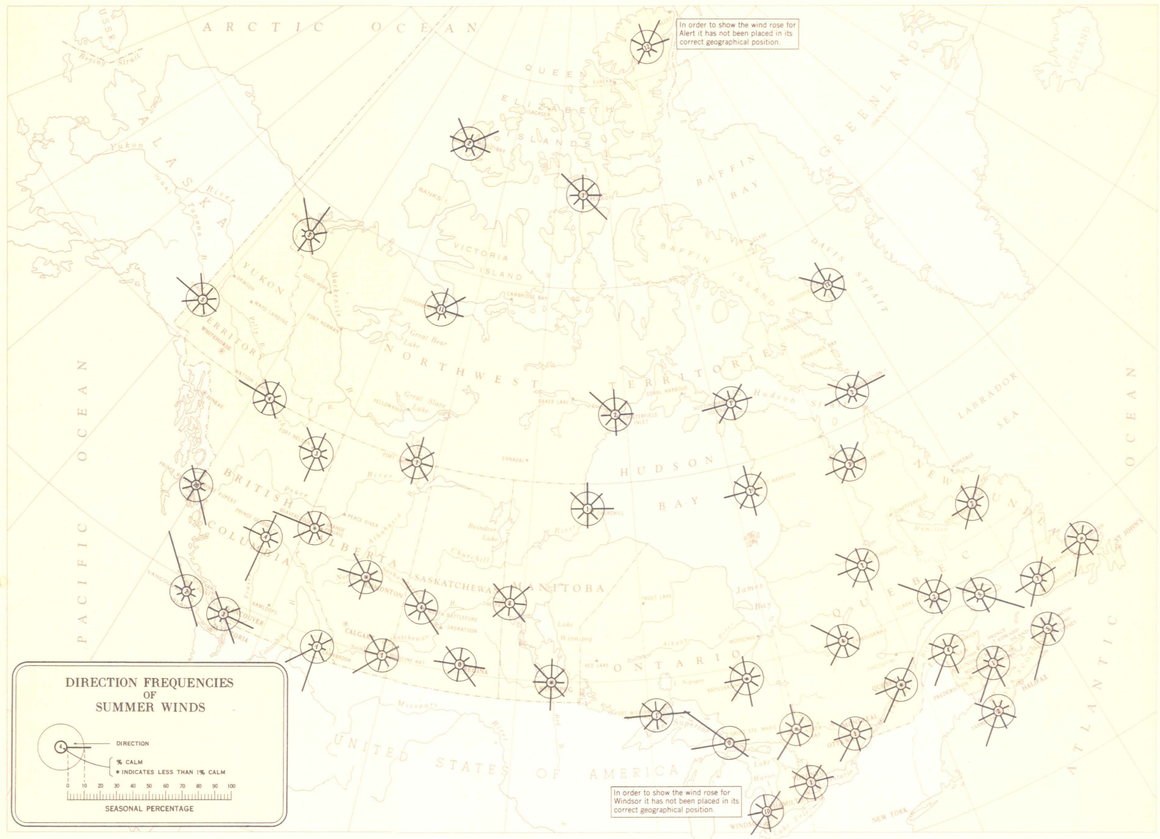
OCTOBER
MEAN SEA-LEVEL PRESSURE
IN MILLIBARS

LAMBERT CONFORMAL CONIC PROJECTION STANDARD PARALLELS 49°N. AND 77°N.

SCALE 1:20,000,000 or ONE INCH to 315.8 MILES

COMPILED FROM INFORMATION SUPPLIED BY THE METEOROLOGICAL DIVISION, DEPARTMENT OF TRANSPORT

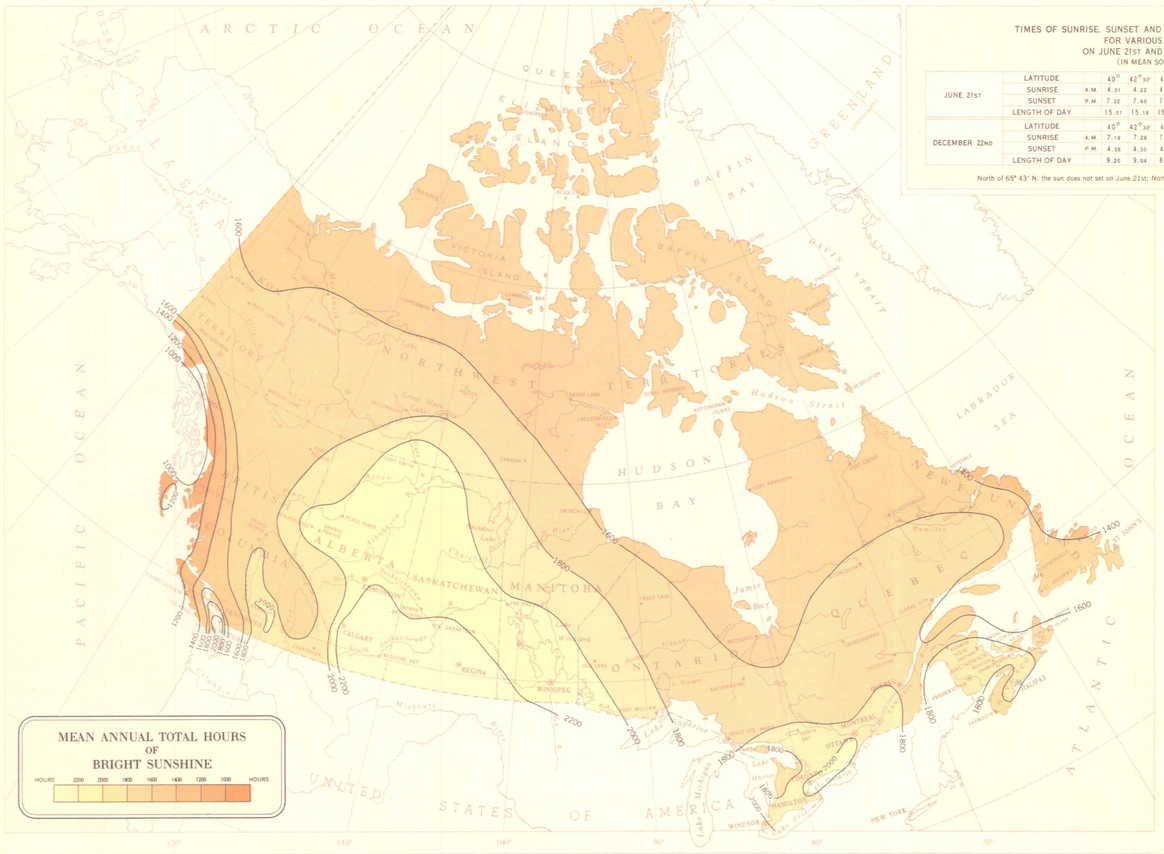


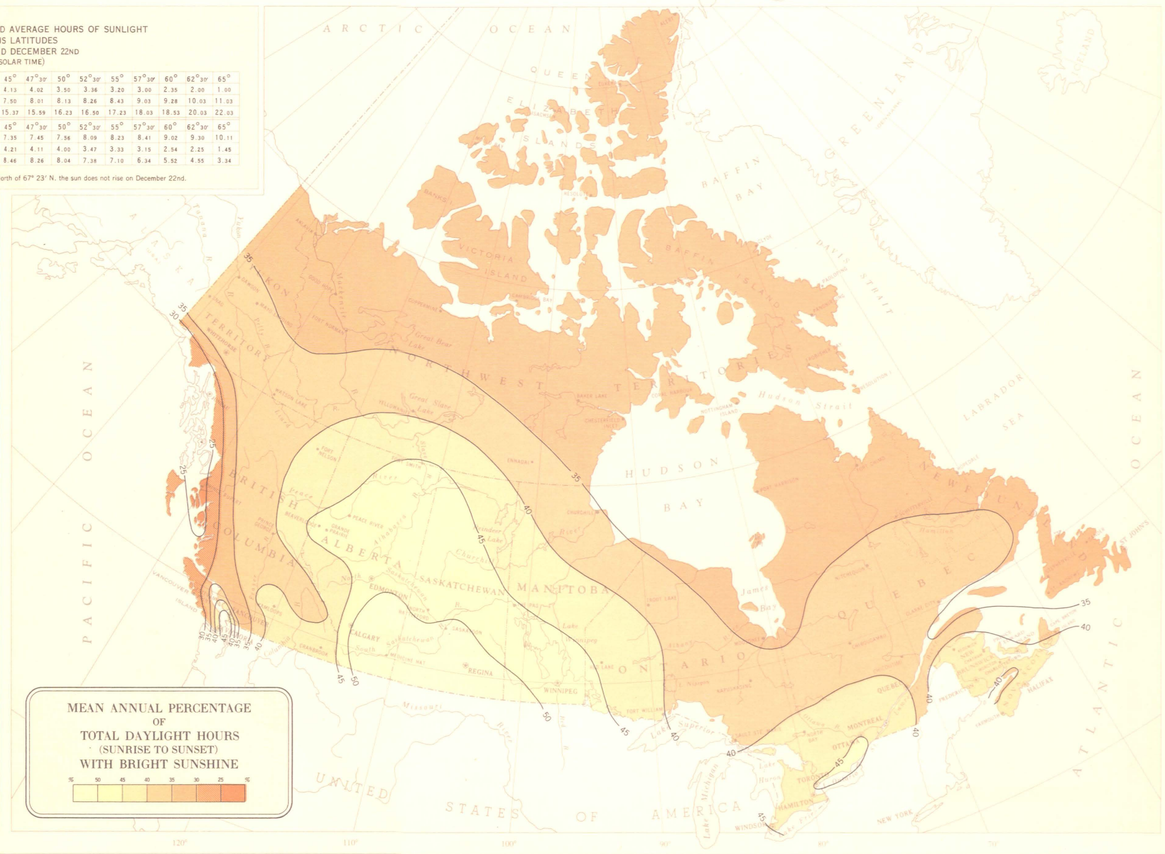


TIMES OF SUNRISE, SUNSET AND AVERAGE HOURS OF SUNLIGHT
FOR VARIOUS LATITUDES
ON JUNE 21ST AND DECEMBER 22ND
(IN MEAN SOLAR TIME)

			40°	42°30′	45°	47°30′	50°	52°30′	55°	57°30′	60°	62°30′	65°
JUNE 21ST	LATITUDE												
	SUNRISE	A.M.	4.31	4.22	4.13	4.02	3.50	3.36	3.20	3.00	2.35	2.00	1.00
	SUNSET	P.M.	7.32	7.40	7.50	8.01	8.13	8.26	8.43	9.03	9.28	10.03	11.03
	LENGTH OF DAY		15.01	15.18	15.37	15.59	16.23	16.50	17.23	18.03	18.53	20.03	22.03
DECEMBER 22ND	LATITUDE		40°	42°30′	45°	47°30′	50°	52°30′	55°	57°30′	60°	62°30′	65°
	SUNRISE	A.M.	7.18	7.26	7.35	7.45	7.56	8.09	8.23	8.41	9.02	9.30	10.11
	SUNSET	P.M.	4.38	4.30	4.21	4.11	4.00	3.47	3.33	3.15	2.54	2.25	1.45
	LENGTH OF DAY		9.20	9.04	8.46	8.26	8.04	7.38	7.10	6.34	5.52	4.55	3.34

North of 65° 43′ N. the sun does not set on June 21st; North of 67° 23′ N. the sun does not rise on December 22nd.



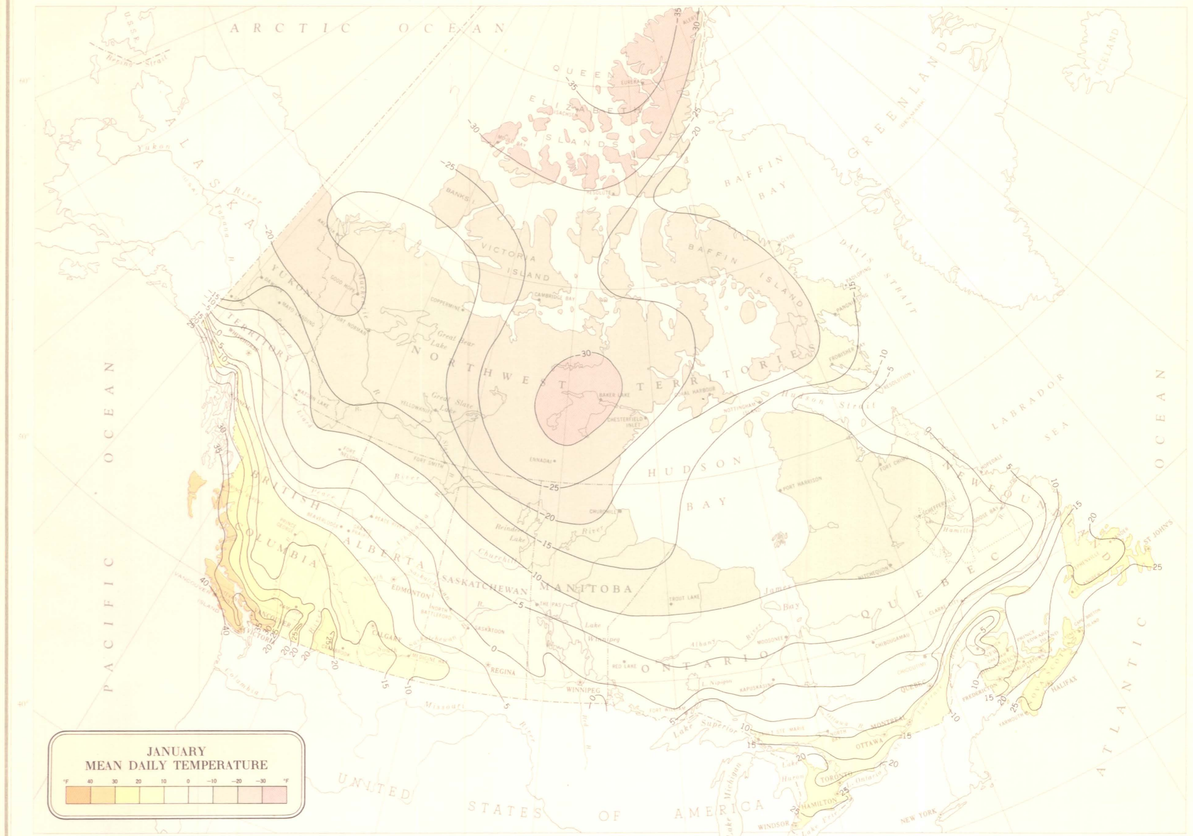


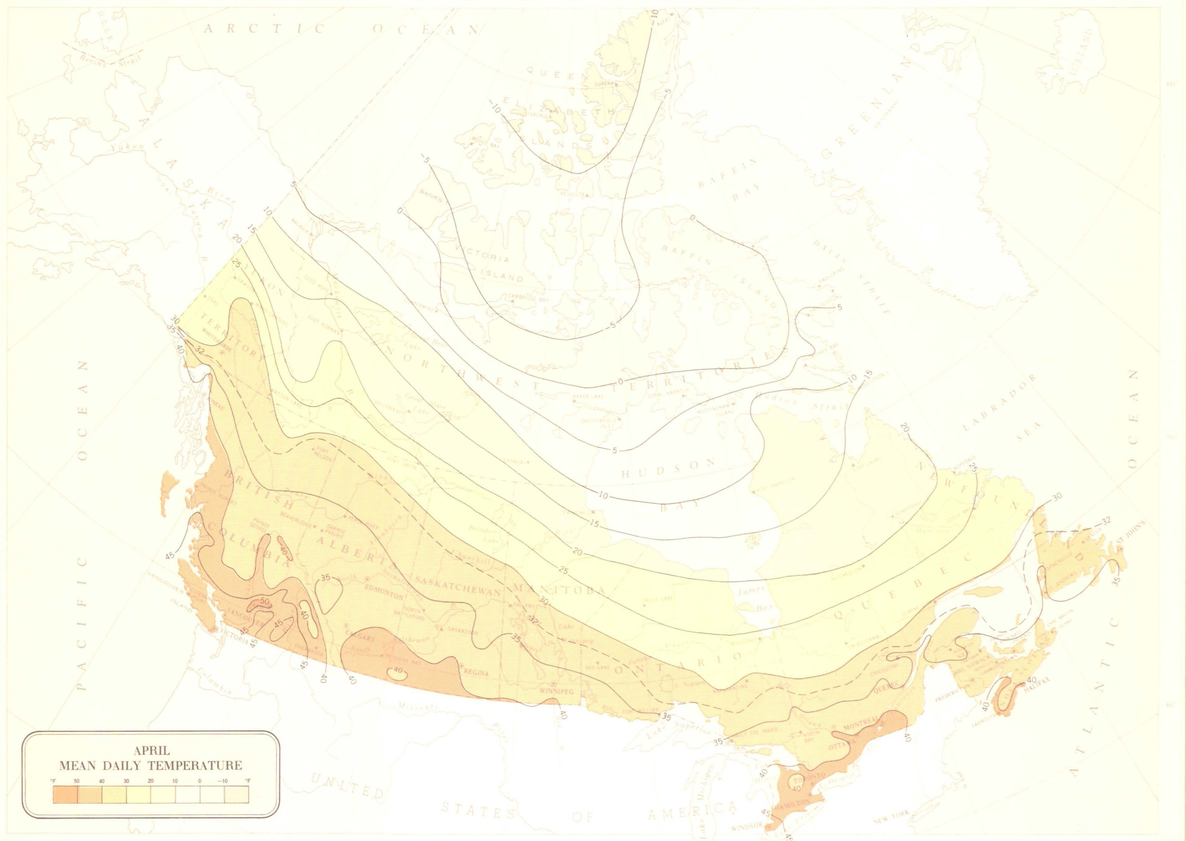
LAMBERT CONFORMAL CONIC PROJECTION STANDARD PARALLELS 49°N AND 77°N.

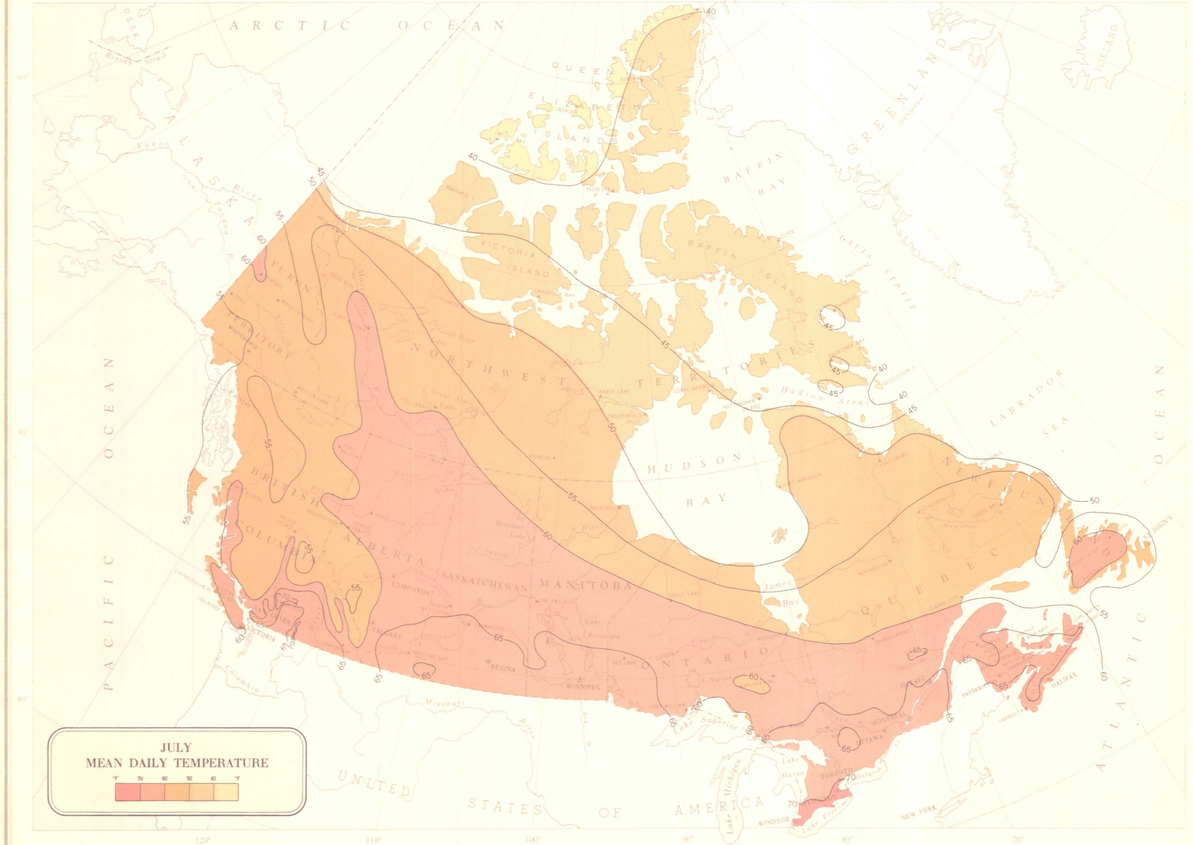
SCALE 1:20,000,000 or ONE INCH to 315.6 MILES

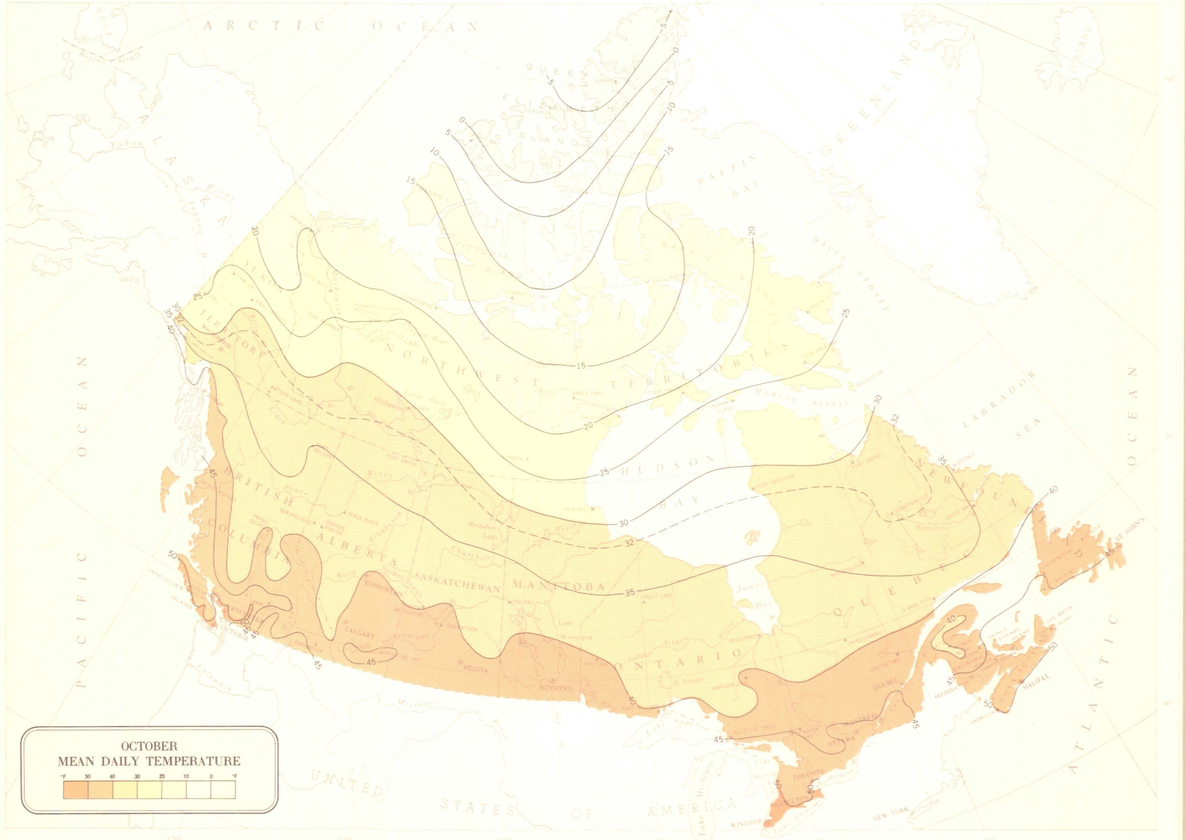
200 100 0 200 400 600 MILES
200 100 0 200 400 600 800 1000 KILOMETRES

COMPILED FROM INFORMATION SUPPLIED BY THE METEOROLOGICAL DIVISION, DEPARTMENT OF TRANSPORT AND DOMINION OBSERVATORIES, DEPARTMENT OF MINES AND TECHNICAL SURVEYS.









LAMBERT CONFORMAL CONIC PROJECTION STANDARD PARALLELS 49°N AND 77°N.

SCALE 1:20,000,000 or ONE INCH to 315.6 MILES

COMPILED FROM INFORMATION SUPPLIED BY THE METEOROLOGICAL DIVISION, DEPARTMENT OF TRANSPORT.

MEAN ANNUAL NUMBER OF DAYS WITH A MINIMUM TEMPERATURE OF 0°F. OR LOWER
SCALE: 1:50 M.

MEAN ANNUAL MINIMUM TEMPERATURE
°F 20 0 -20 -40 -60 °F

EXTREME LOWEST RECORDED TEMPERATURE
°F 0 -20 -40 -60 -80 °F

MEAN ANNUAL NUMBER OF DAYS WITH A MAXIMUM TEMPERATURE OF 90°F. OR HIGHER
SCALE: 1:50 M.

MEAN ANNUAL MAXIMUM TEMPERATURE
°F 60 80 100 °F

EXTREME HIGHEST RECORDED TEMPERATURE
°F 60 80 100 °F

LAMBERT CONFORMAL CONIC PROJECTION. STANDARD PARALLELS 49°N. AND 77°N.

SCALE 1:20,000,000 or ONE INCH to 315.6 MILES

COMPILED FROM INFORMATION SUPPLIED BY THE METEOROLOGICAL DIVISION, DEPARTMENT OF TRANSPORT.

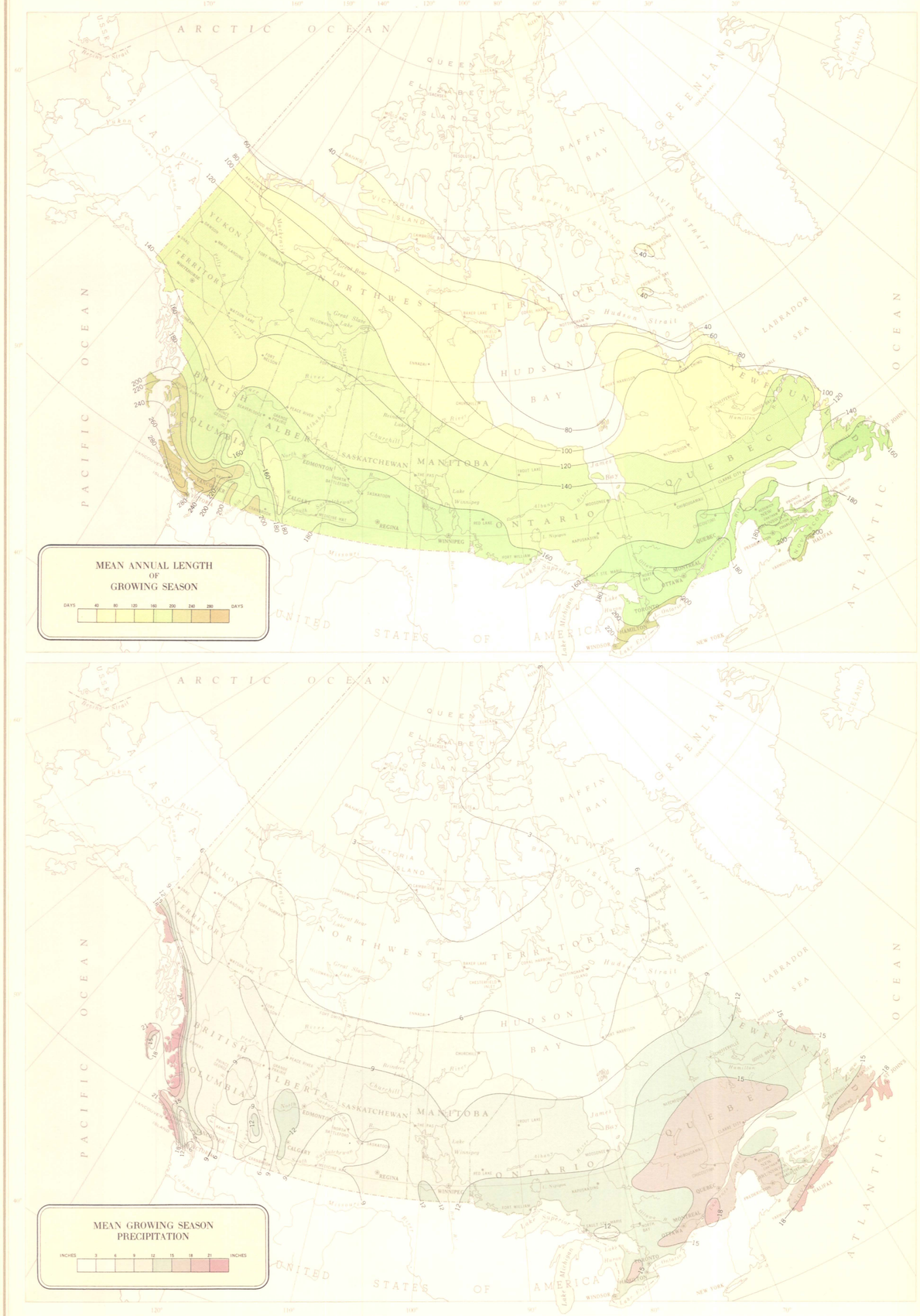
MEAN DATE
OF THE
FIRST OCCURRENCE
OF A
TEMPERATURE OF 32° FAHRENHEIT
IN FALL
SCALE 1:20,000,000
or
ONE INCH to 315.6 MILES

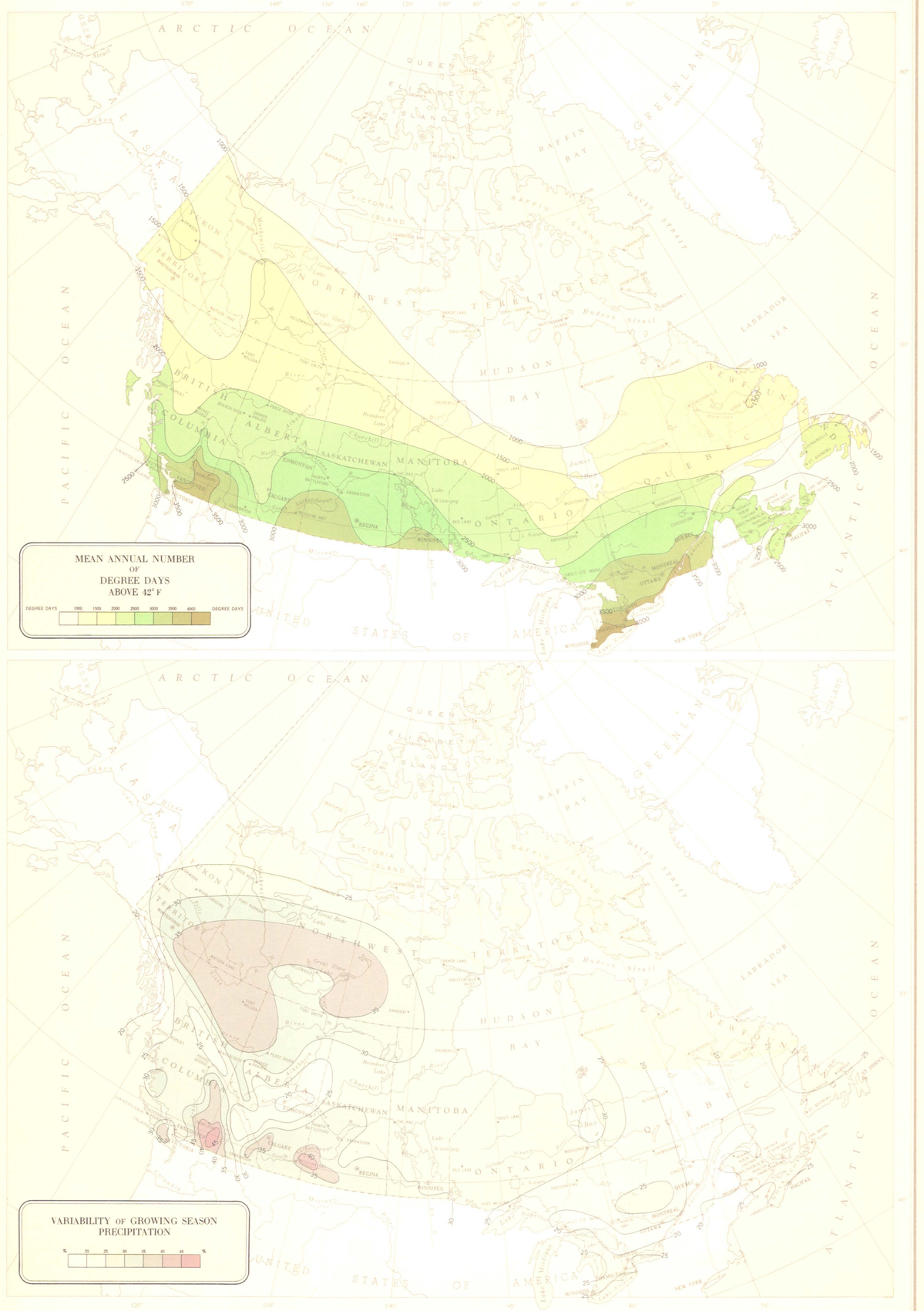
MEAN DATE
OF THE
LAST OCCURRENCE
OF A
TEMPERATURE OF 32° FAHRENHEIT
IN SPRING
SCALE 1:20,000,000
or
ONE INCH to 315.6 MILES

MEAN ANNUAL
FROST - FREE PERIOD
SCALE 1:10,000,000
or
ONE INCH to 157.8 MILES
DAYS 40 80 120 160 200 240 DAYS

LAMBERT CONFORMAL CONIC PROJECTION STANDARD PARALLELS 49°N AND 77°N

COMPILED FROM INFORMATION SUPPLIED BY THE METEOROLOGICAL DIVISION, DEPARTMENT OF TRANSPORT



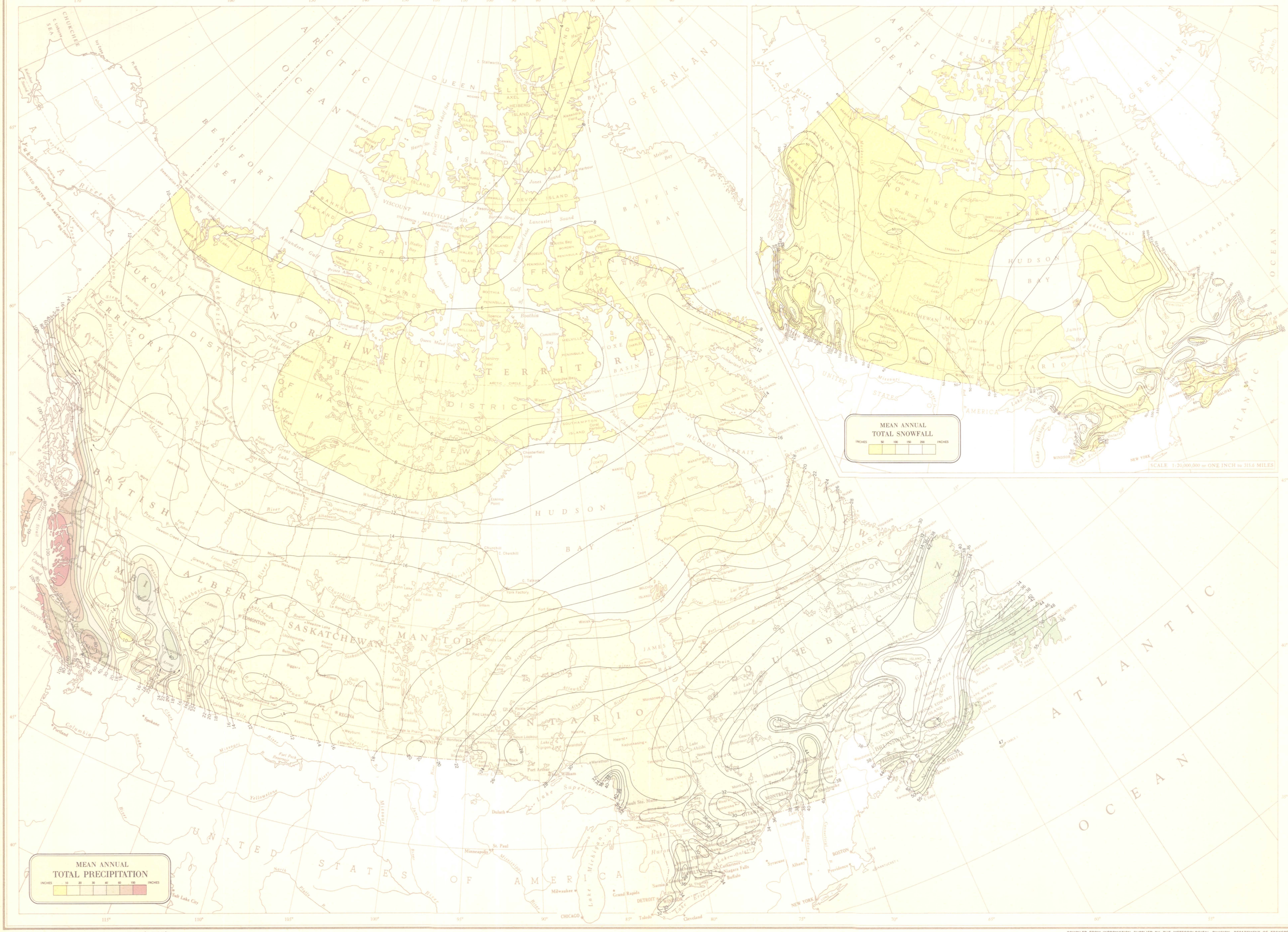


LAMBERT CONFORMAL CONIC PROJECTION STANDARD PARALLELS 49°N. AND 77°N.

SCALE 1:20,000,000 or ONE INCH to 315.6 MILES

200 100 0 200 400 600 MILES
200 100 0 200 400 600 800 1000 KILOMETRES

COMPILED FROM INFORMATION SUPPLIED BY THE METEOROLOGICAL DIVISION, DEPARTMENT OF TRANSPORT



LAMBERT CONFORMAL CONIC PROJECTION STANDARD PARALLELS 49°N. AND 77°N.

SCALE 1:10,000,000 or ONE INCH to 157.8 MILES

COMPILED FROM INFORMATION SUPPLIED BY THE METEOROLOGICAL DIVISION, DEPARTMENT OF TRANSPORT.

MEAN ANNUAL NUMBER OF DAYS WITH MEASURABLE PRECIPITATION

DAYS 80 120 160 200 240 DAYS

1:20,000,000 or 1 inch to 315.6 Miles

MEAN ANNUAL NUMBER OF DAYS WITH MEASURABLE SNOWFALL

DAYS 20 40 60 80 100 DAYS

1:20,000,000 or 1 inch to 315.6 Miles

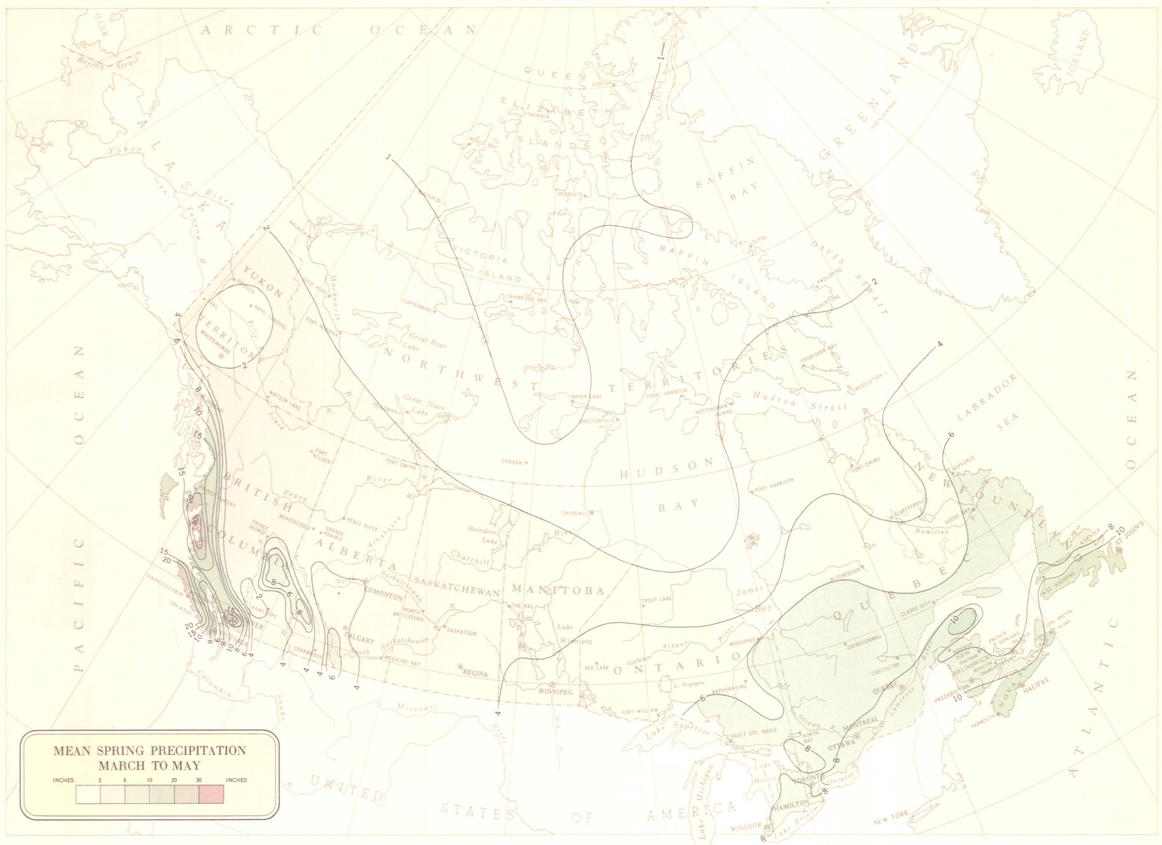
VARIABILITY OF ANNUAL PRECIPITATION

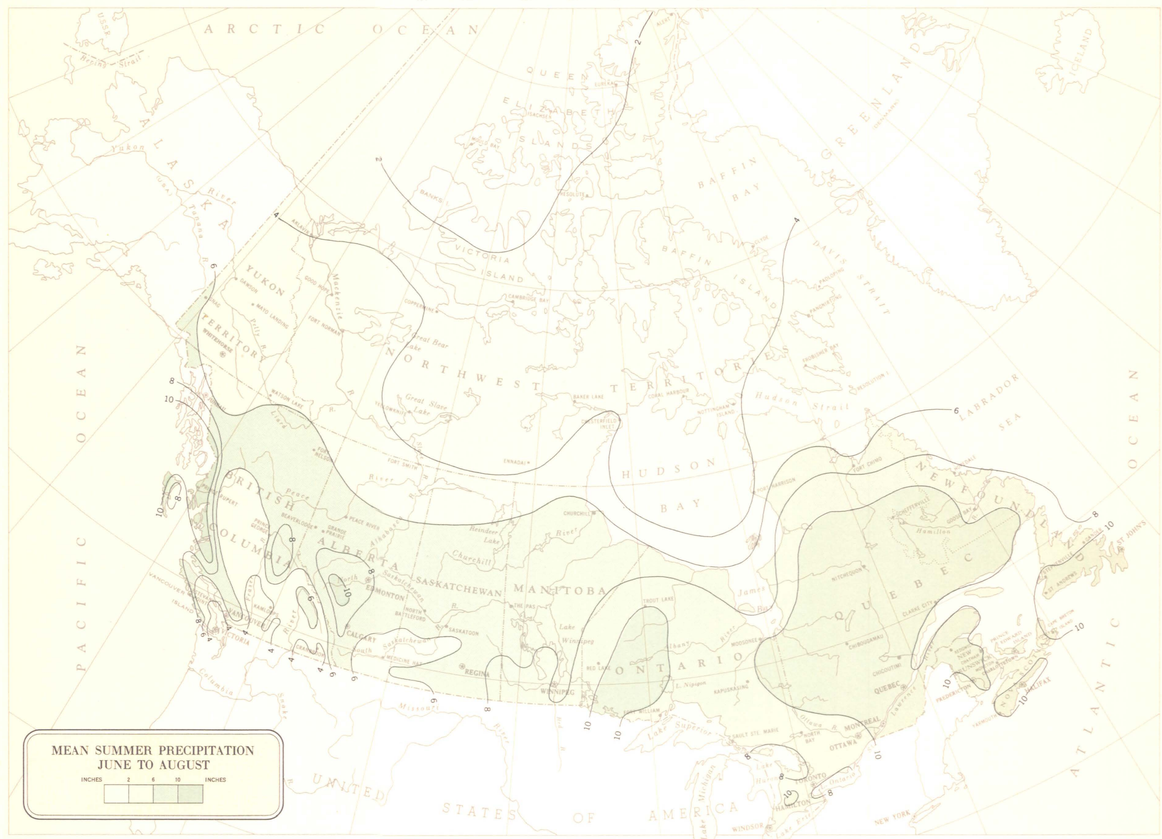
% 15 20 25 %

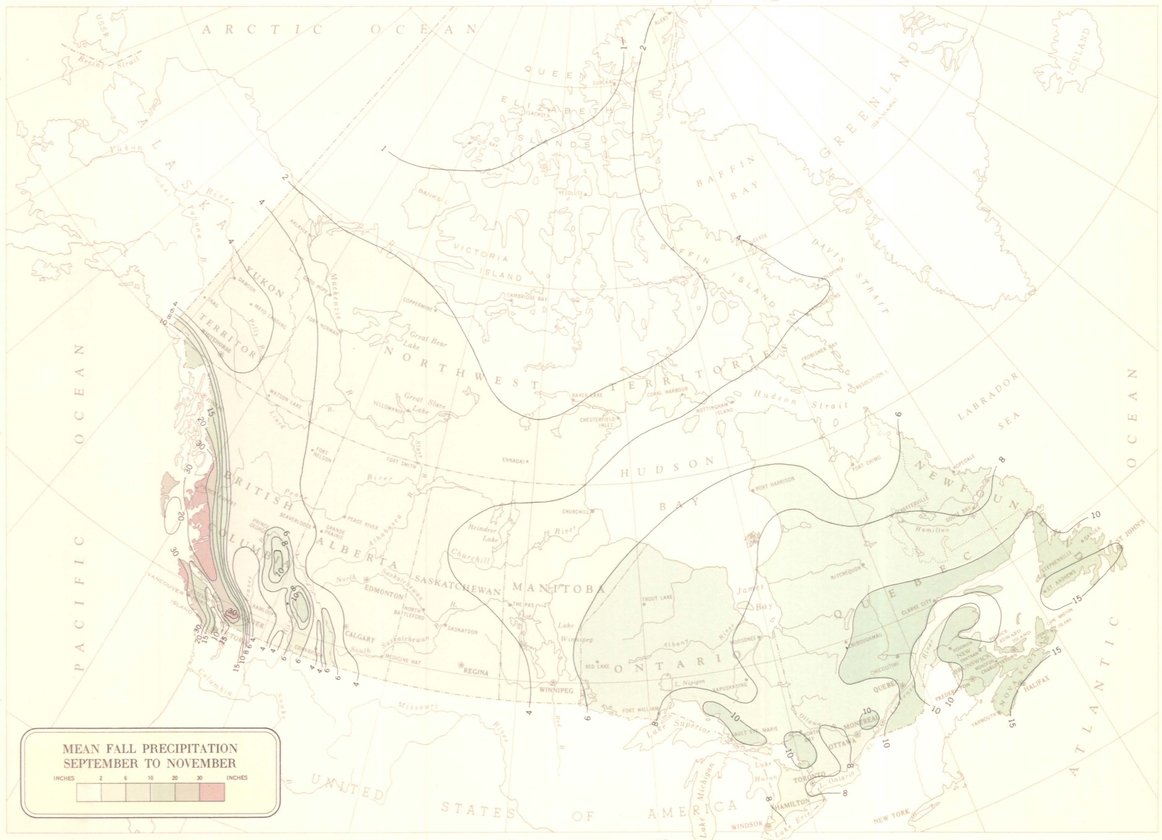
1:10,000,000 or 1 inch to 157.8 Miles

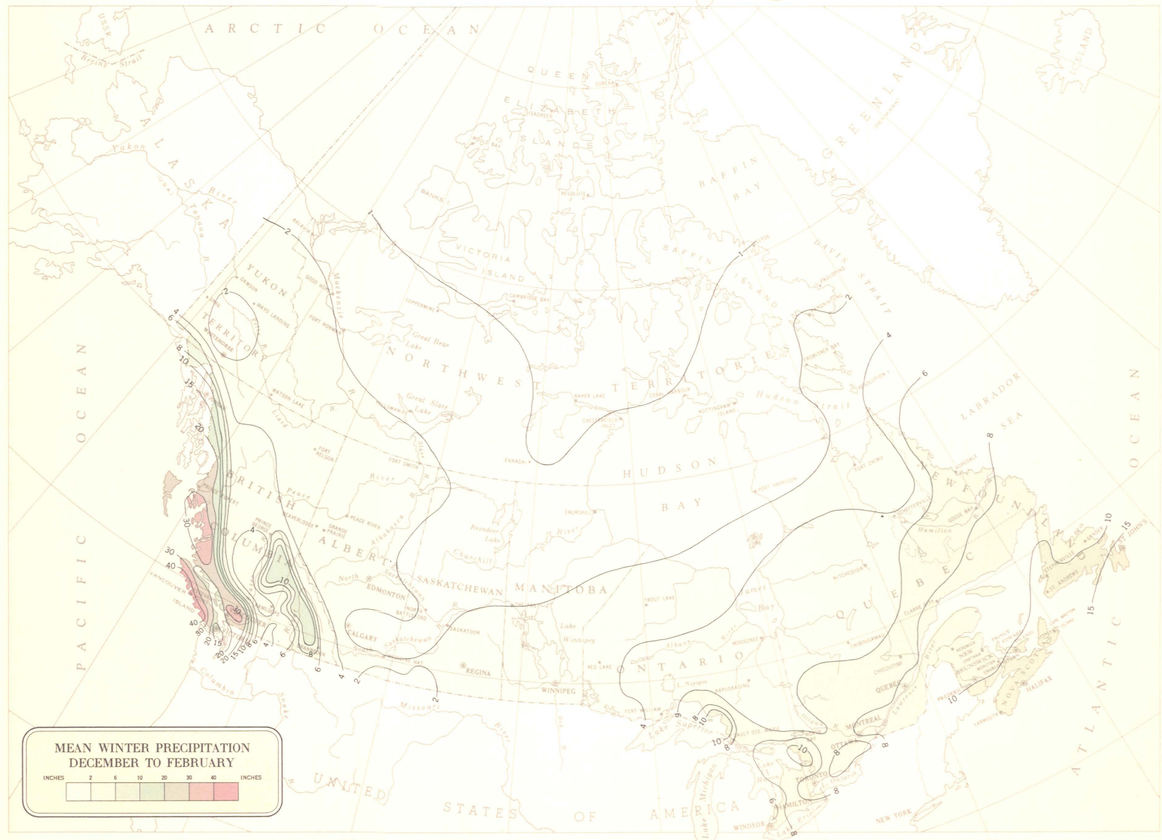
LAMBERT CONFORMAL CONIC PROJECTION STANDARD PARALLELS 49°N AND 77°N

COMPILED FROM INFORMATION SUPPLIED BY THE METEOROLOGICAL DIVISION, DEPARTMENT OF TRANSPORT







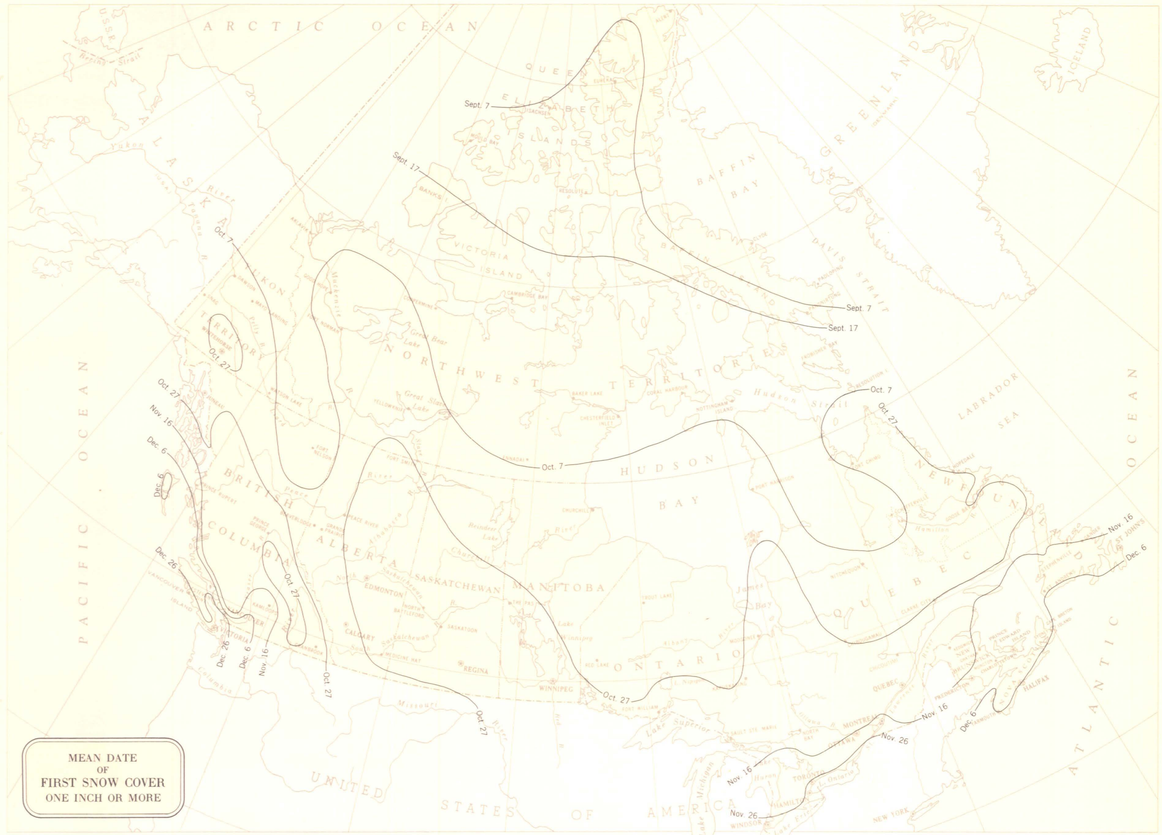


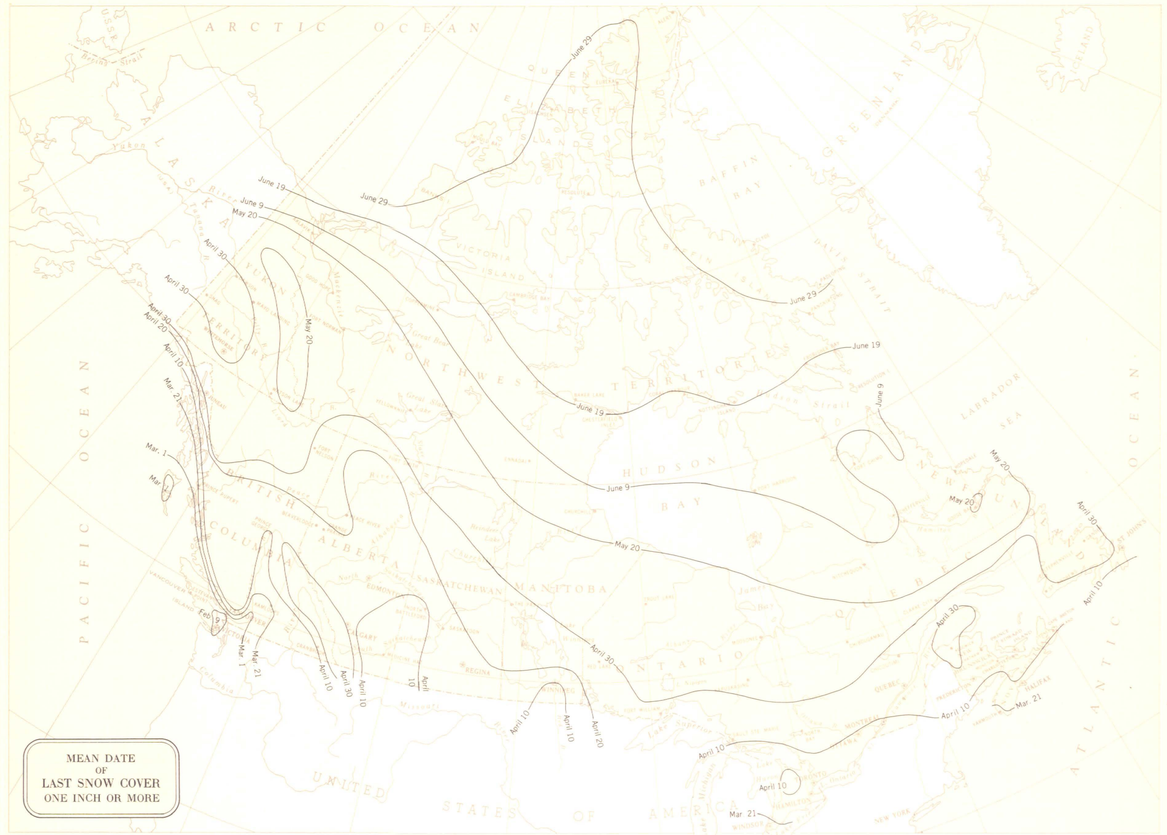
LAMBERT CONFORMAL CONIC PROJECTION STANDARD PARALLELS 49°N AND 77°N

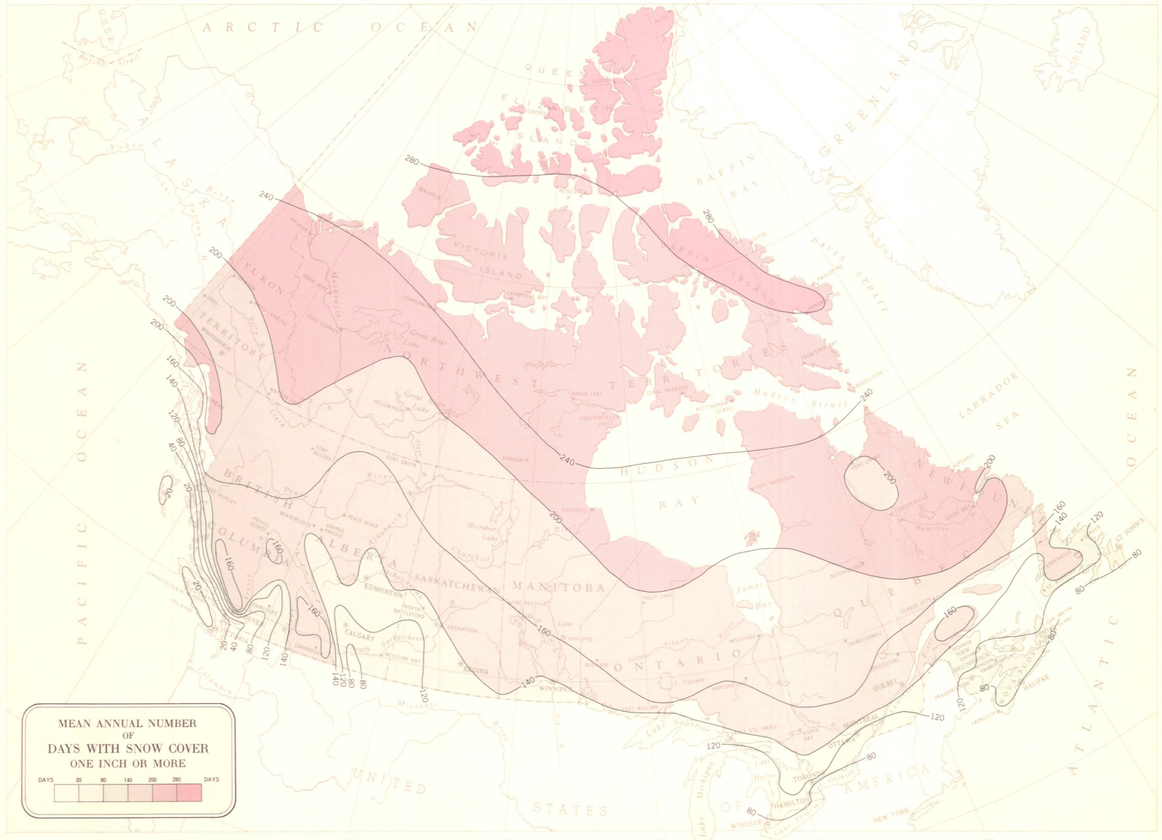
SCALE 1:20,000,000 or ONE INCH to 315.6 MILES

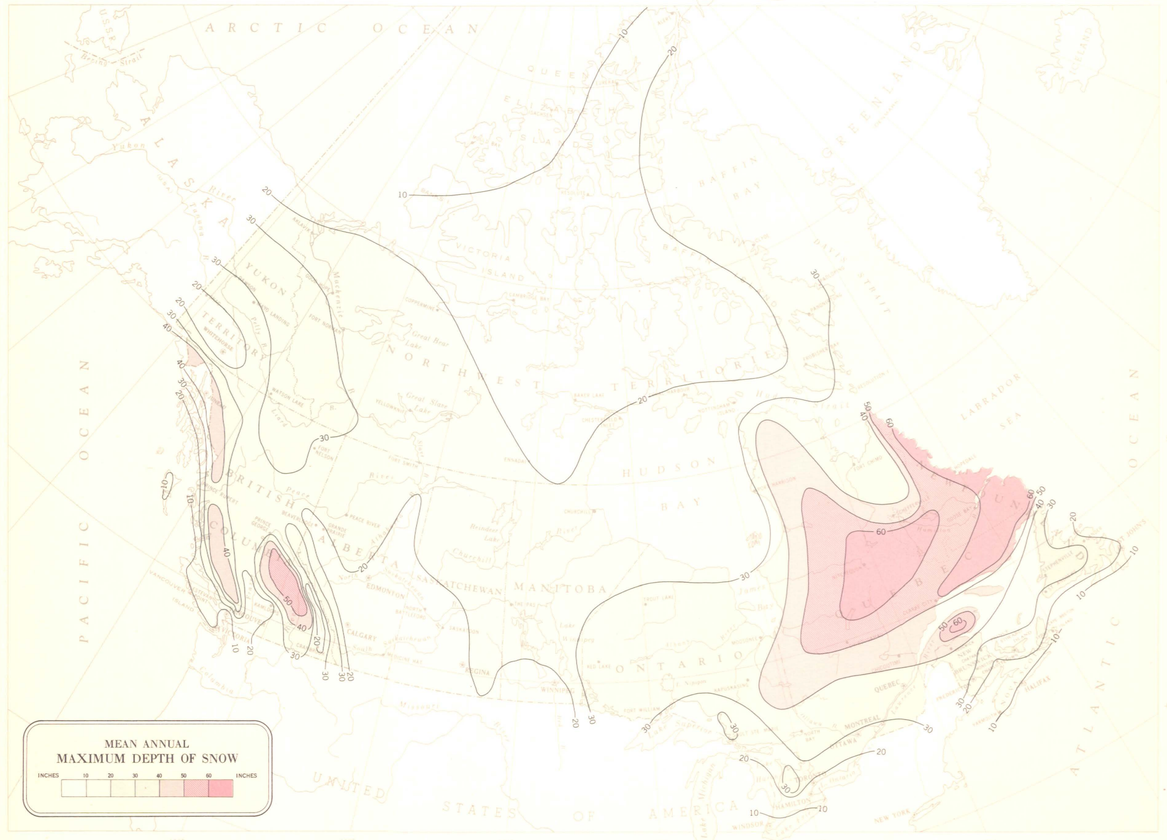
200 100 0 200 400 600 MILES
200 100 0 200 400 600 800 1000 KILOMETRES

COMPILED FROM INFORMATION SUPPLIED BY THE METEOROLOGICAL DIVISION, DEPARTMENT OF TRANSPORT.







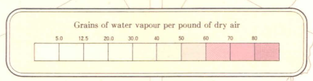


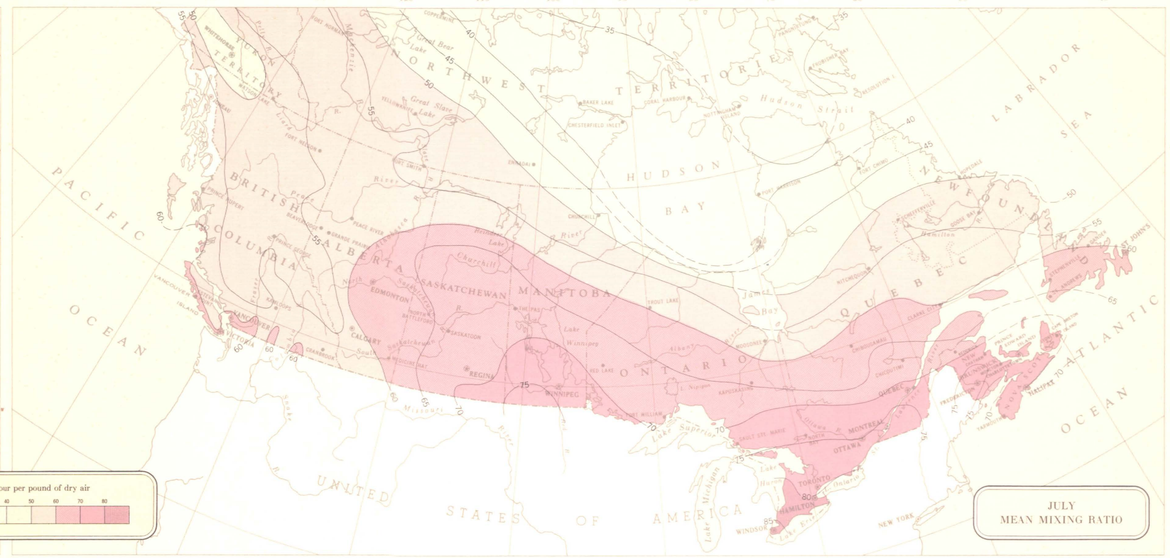
LAMBERT CONFORMAL CONIC PROJECTION STANDARD PARALLELS 49°N. AND 77°N.

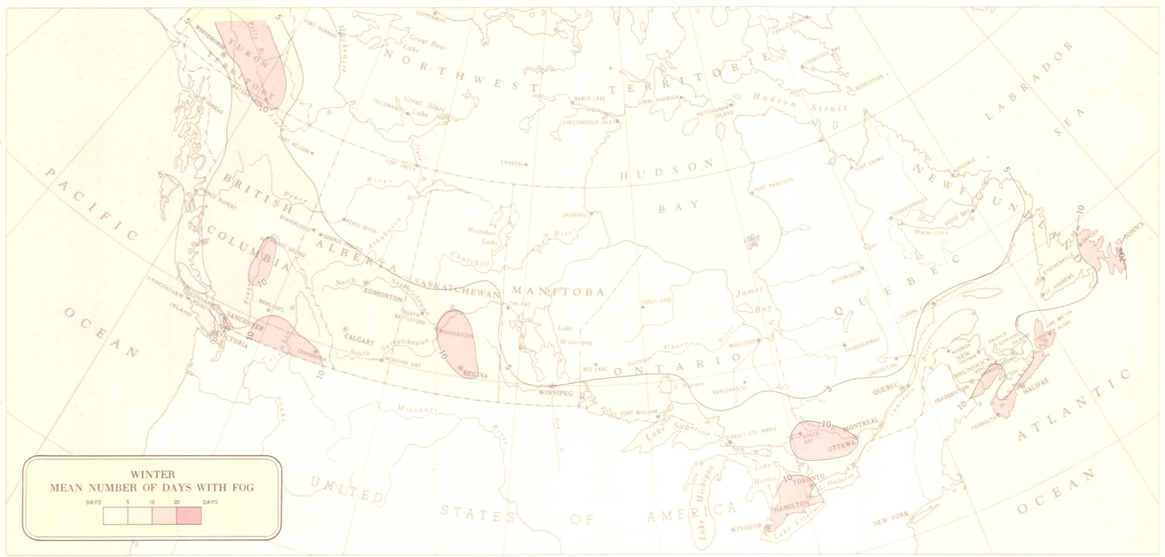
SCALE 1:20,000,000 or ONE INCH to 315.6 MILES

200 100 0 200 400 600 MILES
300 100 0 200 400 600 800 1000 KILOMETRES

COMPILED FROM INFORMATION SUPPLIED BY THE METEOROLOGICAL DIVISION, DEPARTMENT OF TRANSPORT.







LAMBERT CONFORMAL CONIC PROJECTION STANDARD PARALLELS 49°N. AND 77°N.

SCALE 1:20,000,000 or ONE INCH to 315.6 MILES

200 100 0 200 400 600 MILES
200 100 0 200 400 600 800 1000 KILOMETRES

COMPILED FROM INFORMATION SUPPLIED BY THE METEOROLOGICAL DIVISION, DEPARTMENT OF TRANSPORT

B. DRY CLIMATES

- MIDDLE LATITUDE STEPPE (BSk)
  S = semiarid
  k = cold; mean annual temperature less than 64.4°F but mean temperature of warmest month over 64.4°F.
- DRY-SUMMER SUBTROPICAL OR MEDITERRANEAN (Csb)
  s = dry season in summer i.e. rainiest month of winter received at least three times as much rain as the driest month of summer.
  b = cool summer; with the mean temperature of the warmest month under 71.6°F but with at least four months over 50°F.

C. HUMID MESOTHERMAL CLIMATES
(Rainy climate with mild winters)
mean temperature of the coldest month below 63.3°F. but above 26.6°F; mean temperature of the warmest month above 50°F.

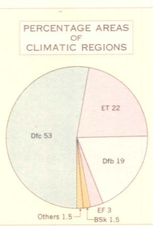
- MARINE WEST COAST (Cfb)
  f = precipitation throughout the year.
- HUMID CONTINENTAL, WARM SUMMER (Dfa)
  a = hot summer, with the mean temperature of the warmest month over 71.6°F.
- HUMID CONTINENTAL, COOL SUMMER, NO DRY SEASON. (Dfb)
- HUMID CONTINENTAL, COOL SUMMER, DRY SEASON IN SUMMER. (Dsb)
- SUB ARCTIC (Dfc)
  c = cool short summer, with only one to three months with a mean temperature above 50°F.

D. HUMID MICROTHERMAL CLIMATES
(Rain – snow climate with cold winters).
mean temperature of the coldest month below 26.6°F; mean temperature of the warmest month above 50°F.

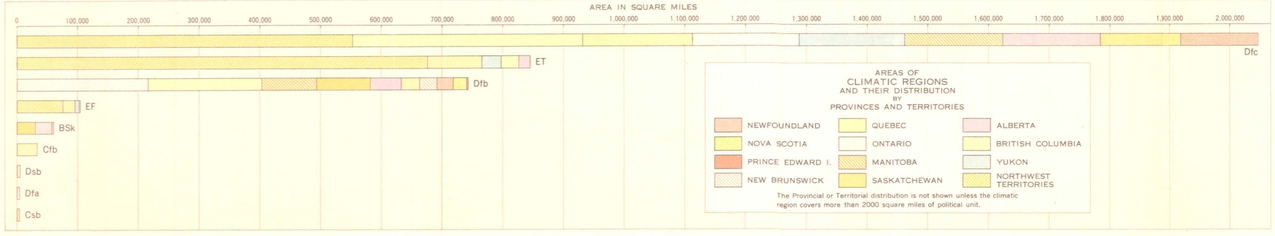
E. POLAR CLIMATES

- TUNDRA (ET)
  mean temperature of warmest month below 50°F but above 32°F.
- ICE CAP (EF)
  mean temperature for all months below 32°F.

PERCENTAGE AREAS OF CLIMATIC REGIONS



AREA IN SQUARE MILES



AREAS OF CLIMATIC REGIONS AND THEIR DISTRIBUTION BY PROVINCES AND TERRITORIES

NEWFOUNDLAND	QUEBEC	ALBERTA
NOVA SCOTIA	ONTARIO	BRITISH COLUMBIA
PRINCE EDWARD I.	MANITOBA	YUKON
NEW BRUNSWICK	SASKATCHEWAN	NORTHWEST TERRITORIES

The Provincial or Territorial distribution is not shown unless the climatic region covers more than 2000 square miles of political unit.

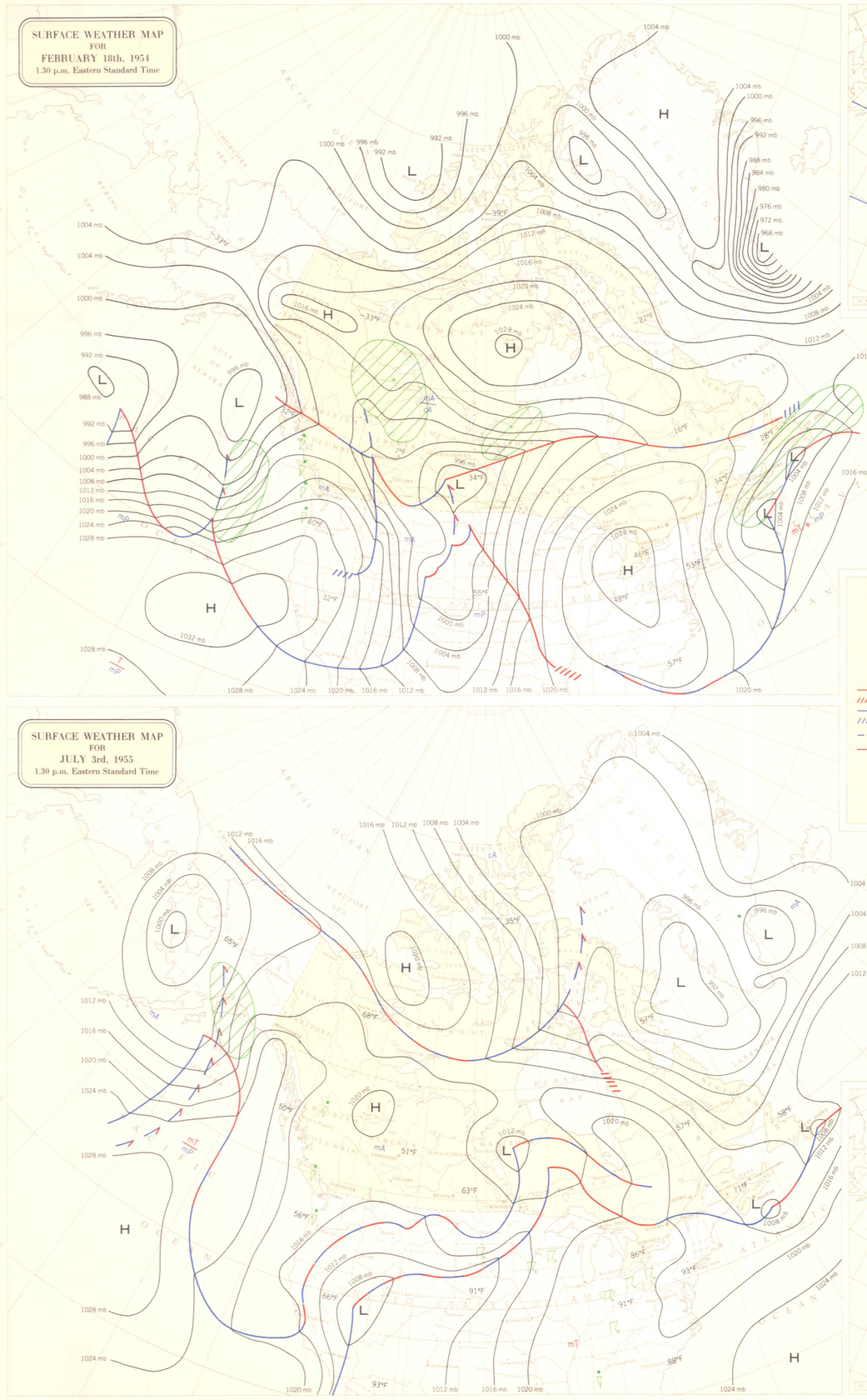
LAMBERT CONFORMAL CONIC PROJECTION STANDARD PARALLELS 49°N AND 77°N.

SCALE 1:10,000,000 or ONE INCH to 157.8 MILES

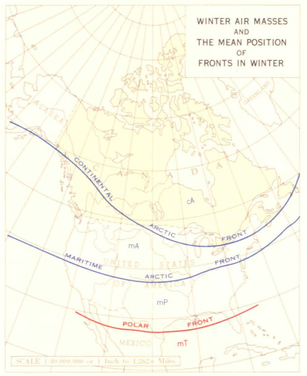
100 50 0 100 200 300 MILES
100 0 100 200 300 400 KILOMETRES

COMPILED FROM INFORMATION SUPPLIED BY THE METEOROLOGICAL DIVISION, DEPARTMENT OF TRANSPORT AND THE GEOGRAPHICAL BRANCH, DEPARTMENT OF MINES AND TECHNICAL SURVEYS.

SURFACE WEATHER MAP FOR FEBRUARY 18th, 1954
1.30 p.m. Eastern Standard Time



WINTER AIR MASSES AND THE MEAN POSITION OF FRONTS IN WINTER



H Centre of High Pressure L Centre of Low Pressure

PRECIPITATION

- Rain
- Drizzle
- Rain Shower
- Snow
- Soft Hail Shower
- Thunderstorm
- Precipitation areas

FRONTS

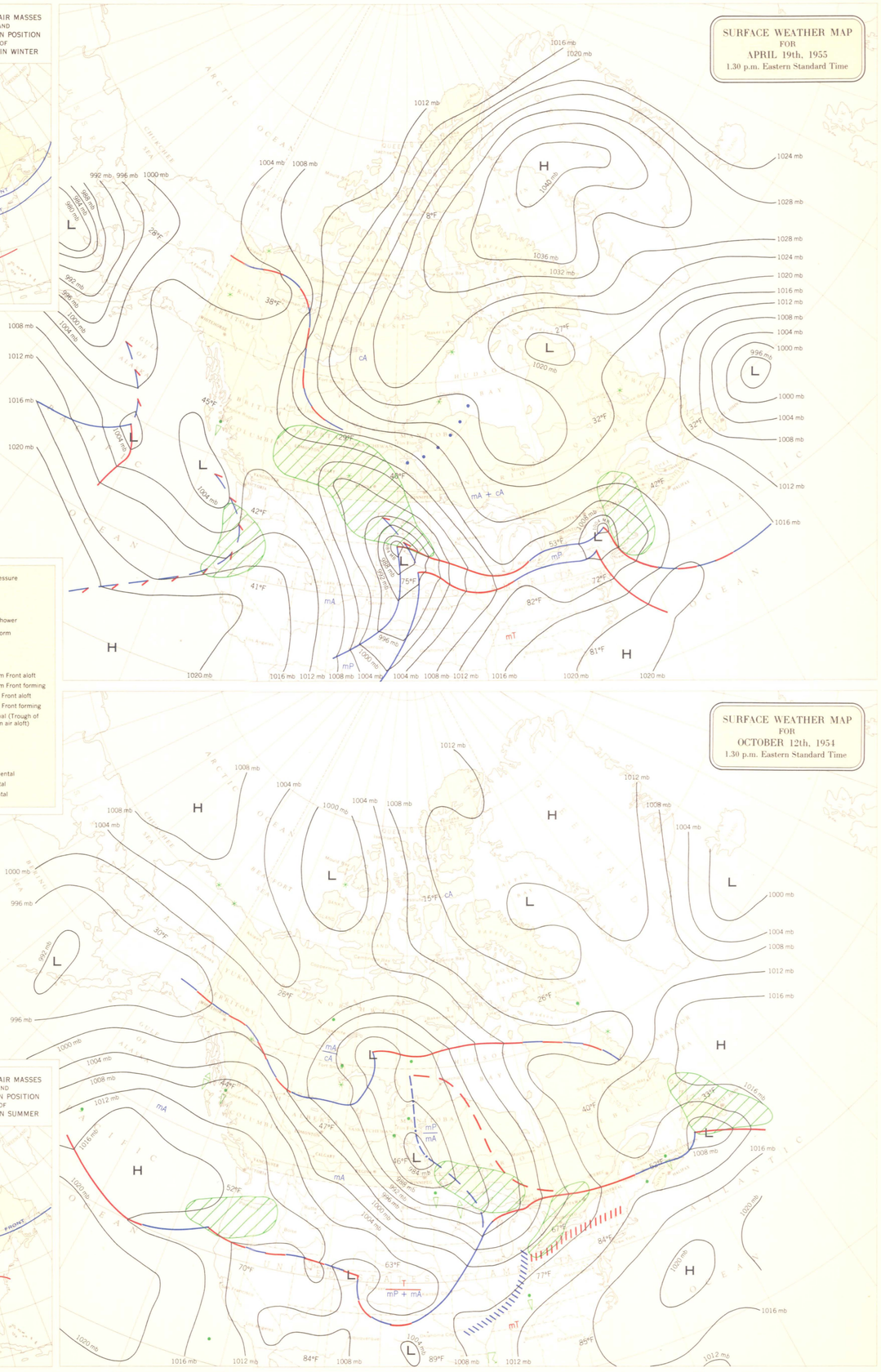
- Warm Front
- Warm Front dissipating
- Cold Front
- Cold Front dissipating
- Cold Front aloft becoming surface front
- Quasi-stationary front.
- Warm Front forming
- Cold Front aloft
- Cold Front forming
- Trowal (Trough of warm air aloft)

AIR MASSES

T Tropical

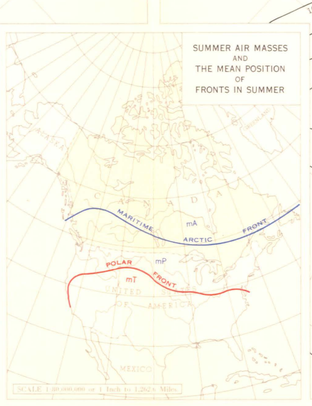
- mT Tropical Maritime
- mP Polar Maritime
- mA Arctic Maritime
- cT Tropical Continental
- cP Polar Continental
- cA Arctic Continental

SURFACE WEATHER MAP FOR APRIL 19th, 1955
1.30 p.m. Eastern Standard Time



SURFACE WEATHER MAP FOR JULY 3rd, 1955
1.30 p.m. Eastern Standard Time

SUMMER AIR MASSES AND THE MEAN POSITION OF FRONTS IN SUMMER



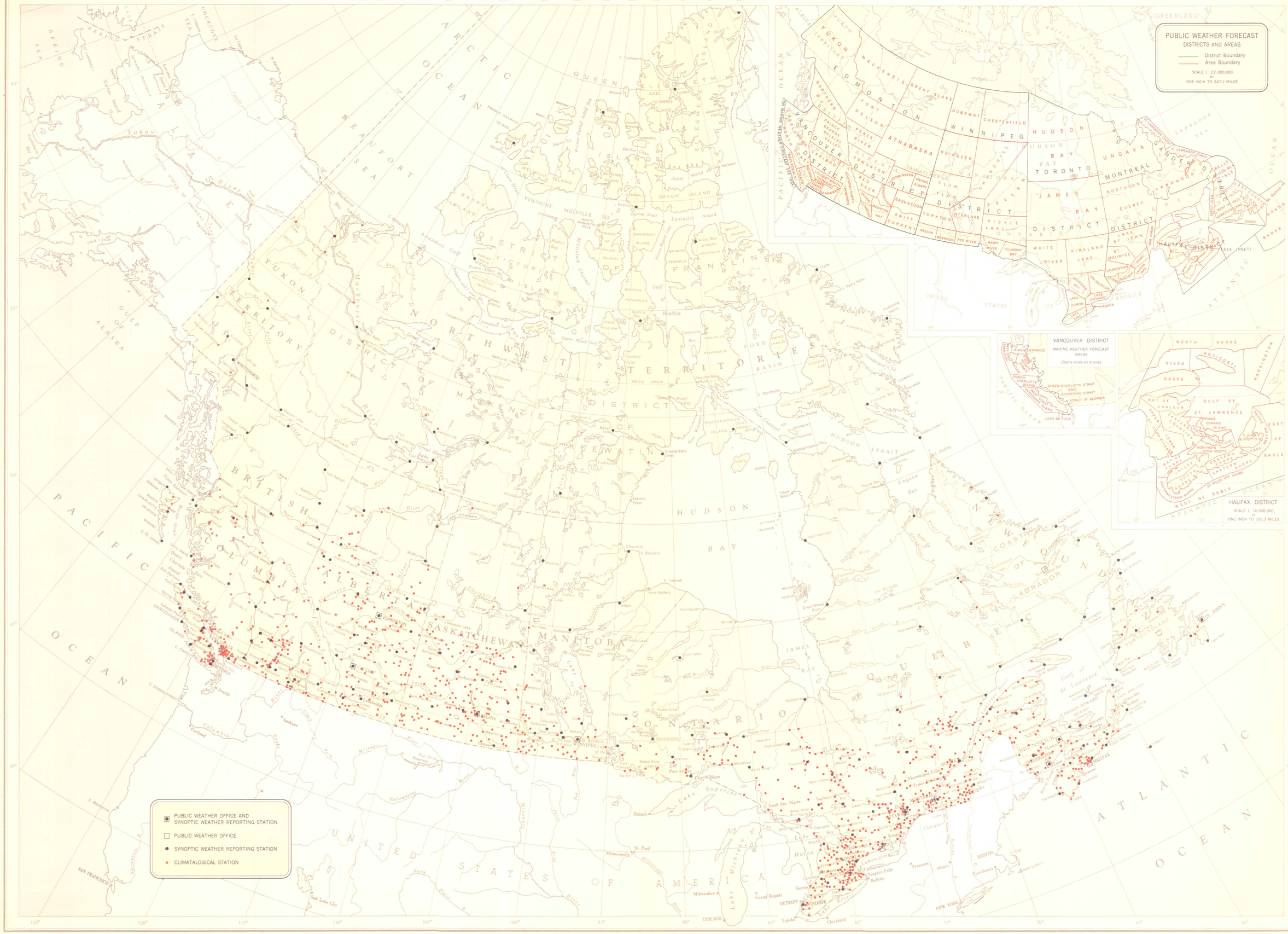
SURFACE WEATHER MAP FOR OCTOBER 12th, 1954
1.30 p.m. Eastern Standard Time

LAMBERT CONFORMAL CONIC PROJECTION STANDARD PARALLELS 30°N. AND 60°N.

SCALE 1:30,000,000 or ONE INCH to 473.4 MILES

COMPILED FROM INFORMATION SUPPLIED BY THE METEOROLOGICAL DIVISION, DEPARTMENT OF TRANSPORT.

WEATHER STATIONS AND FORECAST REGIONS



LAMBERT CONFORMAL CONIC PROJECTION STANDARD PARALLELS 49° N AND 77° N

SCALE 1:10,000,000 or ONE INCH to 157.8 MILES

100 50 0 100 200 300 MILES
100 0 100 200 300 400 500 KILOMETRES

COMPILED FROM INFORMATION SUPPLIED BY THE METEOROLOGICAL DIVISION, DEPARTMENT OF TRANSPORT