

CANADA  
DEPARTMENT OF MINES AND TECHNICAL SURVEYS  
*Dominion Observatories*

PUBLICATIONS  
*of the*  
DOMINION OBSERVATORY  
OTTAWA

Volume XXIX • No. 2

MAGNETIC RESULTS, 1948 - 1961

J. F. Clark

This document was produced  
by scanning the original publication.

Ce document est le produit d'une  
numérisation par balayage  
de la publication originale.

Price 25 cents

---

ROGER DUHAMEL, F.R.S.C.  
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY  
OTTAWA, 1964





## CONTENTS

	PAGE
Introduction .....	97
Instrumental equipment.....	97
Standardization .....	97
Reduction of data.....	97
Geographical positions.....	98
Selection of stations.....	98
Acknowledgments.....	98
References.....	98
Magnetic observations.....	99



# Magnetic Results 1948-1961

J. F. CLARK

## Introduction

This report summarizes the values obtained by field work during the fourteen seasons from 1948 to 1961 inclusive.

An account of the work of the magnetic survey of Canada may be found in *Pub. Dom. Obs.* Vol. XXVIII, No. 1 and previous volumes of magnetic results.

In 1948 the India survey pattern magnetometers were replaced by the portable fluxgate magnetometers (Serson's model, 1947). Although dip-circles and suspended-magnet type magnetometers were used for several years thereafter at a few locations, most survey parties were using the fluxgate type to obtain data in all parts of Canada, especially the remote northern districts, from 1949 to the present time.

In 1957 the first transistorized version was used in the field and was followed by refined models in succeeding years.

Travel was by aircraft in the north and by motor vehicle in the highways districts. Also, several surveys were made on the east coast using marine vessel transport.

The summary of values is presented in tabular form in the same format as that in *Pub. Dom. Obs.* Vol. XXVIII, No. 1 (1). Declination, inclination and horizontal intensity values are listed wherever available. At those northern stations where horizontal intensity is less than 1000 gammas (0.1 oersteds) the value of vertical intensity is also included. At all other stations the vertical intensity may be calculated from the equation  $Z = H \tan I$ .

## Instrumental Equipment

### Magnetometers—

Fluxgate induction magnetometer (Serson pattern)  
Nos. 1 to 12.

Transistorized fluxgates (Serson and Nichols) Nos.  
T1 to T4.

Gurley transit compass No. 9300.  
P.I.C. No. 104 (Carnegie Institution, Washington).  
C.I.W. No. 20 magnetometer.  
Dover dip circle No. 212.

### Chronometers—

Nardin half-seconds chronometer No. 19726.  
Nardin half-seconds chronometer No. 19728.

Longines stop-watch serial No. 603,9482.

Longines stop-watch serial No. 604,0959.

Kittel pocket watch No. 261.

### Field equipment—

Hallicrafter portable short-wave receivers.

Dominion Observatory bronze tablets.

Lufkin steel measuring tapes, 100 ft.

Camping gear, tools and eiderdown robes, as supplied  
by Equipment Depot.

## Standardization

Intercomparison of standards was carried out at the magnetic observatories when field parties were in the vicinity. Station difference from a pier in the Observatory absolute room to a field station bench mark was determined. The constants for each instrument coil and standard cell were checked before and after each observational season. Considerable drift in the coefficients for each coil was detected, and corrections applied assuming a linear rate of drift during the season. The change of the coefficients with time is described in *Contr. Dom. Obs.*, Vol. 1, No. 18, p. 238. (Serson and Hannaford, 1956) (2).

The latest version of the fluxgate type instrument employs a temperature compensated standard cell, so that only the saturable-core coil must be standardized semi-annually, and the amount of drift has been reduced considerably. (Whitham, 1960). (3).

## Reduction of Data

The usual practice was followed of reducing observations to the mean of the day using diurnal variation curves for the area, whenever available. Corrections to the mean of the month are then applied. Observatory magnetograms are examined for the times of observation and disturbance errors eliminated in so far as possible. The disturbance errors may become large at stations more than 100 miles from an observatory.

Probable errors due to observational mistakes, standardization determinations, drift of constants at non-linear rate, diurnal, and transient fluctuations have been considered. For declination the error ranges from zero to two minutes of arc south of latitude  $60^\circ$ , and increases to a maximum of about five minutes of arc north of  $60^\circ$  N. For inclination measurements the error

seldom exceeds 0.5 minutes of arc. The horizontal intensity values are correct to the nearest fifteen gammas ( $15 \times 10^{-5}$  oersted) at the majority of stations. Near the north magnetic dip pole all measurements are subject to much greater errors; Resolute Bay magnetic observatory supplies records for correction of these data. For relevant material see *Pub. Dom. Obs.* Vol. XXIII, No. 3, Ross, W. E. (1959), (4), and Vol. XXVI No. 2, Loomer, E. I., 1961, (5).

### Geographical Positions

The most accurate charts available from aerial photography mapping were used to determine positions of stations. Wherever possible, bench marks were located near geodetic monuments of precisely known latitude and longitude. Occasionally, station co-ordinates were found from astronomical piers or monuments. (*Pub. Dom. Obs.* Vol. V, No. 6) (6). It is general practice to locate geomagnetic stations close to those of other survey divisions wherever practicable, to enable more accurate plotting of charts. Where new magnetic stations were established away from known control points, astronomical observations were taken at the site, by the methods described in U.S. Department of Commerce *Magnetic Manual* (Hazard, 1938), (7) or using the position-line method adapted to the surveys' requirements. All the latitudes are north of the equator, and all of the longitudes listed are west of Greenwich meridian.

The Cooke transits in use by the Division have a horizontal circle accurate to one-fifth of a minute of arc, and positions determined with it are usually accurate to 0.2' of latitude and to approximately 0.5' of longitude, or better.

Azimuths of the reference objects or marks are correct to the same order of accuracy. The azimuths are determined from observations on the sun or Polaris at most points. The abridged *Nautical Almanac* is the authority for the necessary information. Other pertinent facts appear in *Measurement of the Geomagnetic Elements*, Whitham (1960), pp. 108-147, (3).

### Selection of Stations

The original magnetic stations were established with a view to permanency and ease of re-occupation. Where the primary station (Station A) becomes unavailable, another one, B, is established some distance away but in the same area, perhaps a quarter-mile or less removed from A. Should B also become unavailable a third station C is established in the same locality. A 'repeat' station is one which has been successfully re-occupied at least once.

Stations farther than one mile away from the original one are referred to by another name. (Whitham and Hoge, 1961), (8). The station name is usually the same as that of the nearest town or city but is occasionally

taken from a geographical feature, or from other surveys nomenclature. Occasionally stations A, B, C... all have the same latitude and longitude but are not close enough together to be considered 'repeat' stations. Station descriptions will be furnished upon request to anyone who requires them.

### Acknowledgments

L. Christensen and G. E. Sanders of the Observatory staff assisted greatly with the design and construction of non-magnetic fittings for the theodolite detector coils. H. F. Nichols assisted P. H. Serson and W. Hannaford in designing circuits and computing the calibration tables and instrumental constants.

Miss A. B. Cook of the Dominion Observatory Research Station, Meanook, and W. E. Ross of the Agincourt Ontario Magnetic Observatory, supplied data for the intercomparison and exchange of international magnetic standards. E. Dawson and E. Garland tabulated annual summaries of results from preliminary field notes and records.

Observers in the field included F. Andersen, W. R. Darker, L. C. Dalgetty, E. Dawson, J. T. Eisinger, W. Hannaford, R. D. Hutchison, E. I. Loomer, E. R. Niblett, M. H. and A. A. Onhauser, J. L. Roy, P. H. Serson, K. Whitham and a number of summer assistants. Dr. M. J. S. Innes kindly assisted staff members on several northern expeditions.

Polar Continental Shelf Project personnel secured some magnetic data as did staff of the Geodetic Survey of Canada and the Topographical Survey in the course of their other duties across the country.

R. G. Madill, Chief of the Division during this period, supervised the survey work and assisted in its completion. Dr. C. S. Beals, Dominion Astronomer, supported and encouraged the field program. Grateful acknowledgement is made of the cooperation of all others concerned with the many procedures necessary for publication of the results.

### References

1. MADILL, R. G. and CLARK, J. F., 1963. Magnetic Results 1938-47. *Pub. Dom. Obs.* Vol. XXVIII, No. 1.
2. SERSON, P. H., and HANNAFORD, W. L. W., 1956. A portable electrical magnetometer. *Contr. Dom. Obs.* Vol. 1, No. 28, p. 238.
3. WHITHAM, K., 1960. Measurement of the geomagnetic elements. *Contr. Dom. Obs.* Vol. 4, No. 7, pp. 108-147.
4. ROSS, W. E., 1959. Record of observations at the Agincourt Magnetic Observatory 1950-51. *Pub. Dom. Obs.* Vol. XXIII, No. 1, pp. 63-67.
5. LOOMER, E. I., 1961. Record of observations at Resolute Bay Magnetic Observatory 1957-58. *Pub. Dom. Obs.* Vol. XXVI, No. 2, pp. 25-29.
6. STEWART, R. M., 1921. Astronomical positions in Canada. *Pub. Dom. Obs.* Vol. V, No. 6.
7. HAZARD, D. L., 1938. Directions for magnetic measurements. *U.S. Department of Commerce. Coast and Geodetic Survey*, Serial No. 166.
8. WHITHAM, K. and HOGE, E., 1961. Report to the United Nations: Bureau of Technical Assistance Operations (UNESCO) New York City.

## Magnetic Observations

Station	Lat.		Long.		Date	Declination Value		Inclination Value North		Horizontal Intensity Value	
	°	'	°	'		°	'	°	'	γ	
<b>West</b>											
Old Perlican.....	48	05.9	52	34.4	1950.6	30	23.6	72	49.5	15806	
St. John's.....	47	31.8	52	45.0	1950.6	28	43.5	72	19.4	16193	
St. John's.....	47	31.8	52	45.0	1960.5	28	13.9	71	42.1	16793	
Cape Race.....	46	39.4	53	04.2	1950.7	27	45.2	71	57.6	16524	
Bonavista.....	48	38.5	53	06.5	1950.6	30	23.6	73	18.5	15595	
Carbonear.....	47	44.7	53	13.6	1950.6	28	53.2	72	35.8	16000	
Spanish Room B.....	47	12.1	55	07.7	1950.7	28	37.5	72	40.4	15997	
Battle Harbour.....	52	16.4	55	35.4	1951.6	32	27.0	75	10.5	13929	
Battle Harbour (E).....	52	16.4	55	35.4	1960.6	31	37.8	74	48.3	14302	
Grand Banks.....	47	05.6	55	49.9	1950.7	27	15.9	73	07.4	15647	
Millertown Junction.....	49	00.5	56	19.1	1951.5	29	47.8	74	04.7	15089	
Burgeo.....	47	36.6	57	36.0	1951.5	28	34.9	73	23.1	15734	
Bonne Bay.....	49	30.8	57	55.4	1951.5	29	12.4	74	35.1	14814	
No. 12.....	53	19.0	58	01.5	1951.6	33	22.7	76	41.3	12840	
No. 10.....	52	17.6	58	19.2	1951.6	33	17.1	72	33.8	16604	
Tuchialik Bay.....	54	47.3	58	26.2	1951.5	34	04.3	77	04.9	12726	
St. George's Harbour.....	48	25.9	58	29.4	1951.5	30	00.9	74	40.8	14644	
Stephenville.....	48	26.8	58	29.4	1960.6	29	13.8	74	12.3	15080	
Port-aux-Basques A.....	47	34.6	59	08.4	1950.7	27	50.7	73	51.8	15392	
Port-aux-Basques A.....	47	34.4	59	08.4	1957.6	27	16.4	73	43.5	15481	
Port-aux-Basques B.....	47	34.4	59	09.2	1960.6	26	40.8	73	21.4	15838	
West Turnavik.....	55	15.8	59	19.9	1960.6	33	27.8	77	54.9	11790	
Sable Island East.....	43	58.3	59	48.8	1955.7	24	20.9	71	46.9	17075	
Sable Island Centre.....	43	56.4	59	53.0	1955.7	24	19.4	71	45.9	17082	
Louisburg Lighthouse.....	45	54.2	59	57.9	1951.6	26	39.2	73	21.7	15769	
Louisburg Lighthouse.....	45	54.2	59	57.9	1960.6	26	11.6	72	48.4	16271	
Sable Island West.....	43	56.4	60	02.8	1955.7	24	19.7	71	43.5	17114	
Northwest River.....	53	31.2	60	08.1	1951.5	34	01.7	77	04.8	12440	
Hopedale.....	55	27.1	60	12.0	1960.7	34	56.1	77	36.6	12154	
Sydney.....	46	04.9	60	16.0	1957.6	25	42.0	72	58.4	16045	
Ingonish.....	46	38.8	60	24.4	1951.6	27	04.4	73	31.1	15789	
Goose Bay Airport.....	53	20.0	60	26.5	1851.5	35	44.7	77	17.4	12394	
Goose Bay.....	53	19.7	60	26.5	1960.7	36	11.5	76	59.5	12710	
Canso.....	45	20.0	60	59.5	1951.6	24	39.6	72	46.4	16360	
Lac Bastille.....	51	46.9	61	13.5	1951.6	29	18.0	77	04.7	12812	
Inverness.....	46	14.5	61	16.7	1951.6	26	04.1	73	36.3	15902	
Gros Ile.....	47	36.9	61	30.8	1955.6	26	55.2	74	19.5	15058	
Nain.....	56	32.2	61	41.0	1960.7	38	54.0	78	01.3	11809	
Alert, N.W.T.....	82	31.0	61	44.0	1959.6	83	10.0	86	02.9	03821	
Dominion Lake.....	52	40.8	61	45.3	1951.7	34	26.4	77	17.7	12364	
Amherst.....	47	14.2	61	49.9	1955.6	26	43.3	74	13.5	15165	
Grindstone Island.....	47	23.5	61	52.1	1955.6	26	18.4	74	15.3	15156	
Seal Lake.....	54	19.4	61	56.0	1951.7	34	05.6	77	37.1	12211	
Etang du Nord.....	47	22.5	61	57.6	1955.6	26	21.5	74	25.2	14995	
Millerond.....	47	13.7	61	59.3	1955.6	26	21.5	74	29.2	14948	
Ecum Secum.....	44	57.8	62	07.4	1951.6	24	13.3	73	02.6	16136	
Souris.....	46	21.1	62	13.9	1951.7	24	52.6	73	50.2	15573	
Winokapau Lake.....	53	09.2	62	38.9	1951.7	33	08.9	77	15.4	12095	
Dumbell Bay.....	82	30.7	62	38.9	1948.6	80	45.3	86	07.3	04032	
Padloping.....	66	57.5	62	47.1	1949.6	55	41.4	82	38.4	04398	
Charlottetown.....	46	14.0	63	07.4	1951.6	24	53.6	74	09.6	15301	
Charlottetown B.....	46	14.0	63	07.4	1957.6	24	33.4	73	50.0	15594	
Station No. 44.....	55	13.2	63	09.6	1951.7	37	05.6	76	18.5	11586	
Truro B.....	45	21.3	63	16.6	1951.6	23	33.8	73	09.3	16207	
Truro C.....	45	21.3	63	16.6	1957.7	23	00.8	72	52.5	16354	
Halifax.....	44	37.3	63	34.2	1951.6	22	33.7	73	13.6	16062	
Halifax (Pt. Pleasant).....	44	37.3	63	34.2	1957.6	22	26.7	72	54.4	16217	
Halifax (Pt. Pleasant).....	44	37.3	63	34.2	1960.6	23	03.6	72	42.0	16498	
Bedford Basin.....	44	41.0	63	36.7	1960.6	22	45.9	72	40.0	16529	
Summerside.....	46	24.4	63	46.8	1951.6	24	09.4	74	25.8	15040	
Lake Marc.....	52	29.6	63	52.0	1951.7	29	56.0	76	00.0	14254	
Tignish.....	46	56.4	64	02.1	1951.6	24	56.3	74	59.4	14562	
Amherst.....	45	46.2	64	04.7	1951.5	23	32.5	73	53.5	15584	
Zeni Lake.....	54	53.3	64	07.9	1951.7	35	49.6	78	30.6	11421	
Grand Falls.....	53	37.1	64	16.1	1951.5	27	47.6	77	24.7	12618	

## Magnetic Observations—Continued

Station	Lat.		Long.		Date	Declination Value		Inclination Value North		Horizontal Intensity Value	
	°	'	°	'		°	'	°	'	γ	
<b>West</b>											
Acadia University.....	45	06.0	64	22.0	1951.6	22	36.6	73	27.1	15953	
Kingsport.....	45	11.2	64	23.5	1960.7	22	21.6	72	58.1	16425	
Gaspé.....	48	49.9	64	29.5	1951.7	25	44.5	75	35.2	14064	
Unknown River.....	53	28.2	64	38.9	1951.7	29	59.5	77	35.5	12218	
Henrietta Lake.....	57	09.3	64	42.0	1951.6	36	07.3	79	26.6	10491	
Indian House Lake.....	56	14.3	64	44.2	1951.5	36	40.8	79	08.3	10784	
Resolution Island.....	61	18.5	64	44.2	1951.5	44	44.9	81	21.9	08616	
Port Burwell.....	60	24.7	64	51.2	1948.7	39	29.6	80	50.0	09100	
Moncton C.....	46	08.7	64	53.9	1951.5	23	26.8	74	28.7	15142	
Fundy Park.....	45	35.6	64	57.2	1957.6	23	15.4	73	31.2	15989	
Shelburne.....	43	44.8	65	19.8	1957.7	21	14.0	72	54.9	16359	
Ossko Manuan Lake.....	53	25.4	65	20.0	1951.7	33	56.0	78	33.5	11056	
Cap Madeleine.....	49	15.6	65	20.5	1952.6	26	43.4	75	57.0	13921	
Annapolis.....	44	45.0	65	31.2	1951.6	22	08.2	73	31.4	15879	
Annapolis Royal.....	44	45.0	65	31.2	1957.7	21	59.0	73	11.6	16152	
Annapolis Royal.....	44	45.0	65	31.2	1960.7	21	56.6	73	02.0	16352	
Dillon Lake.....	55	05.6	65	39.5	1951.6	34	20.6	78	52.5	11014	
Lac Champ Doré.....	56	05.2	65	42.0	1951.6	32	40.1	79	28.9	10460	
Korok River.....	58	46.0	65	44.0	1951.6	38	46.5	80	27.0	09500	
Pangnirtung.....	66	08.7	65	44.6	1951.6	53	31.4	83	24.1	06622	
Lac Girardin.....	57	58.8	65	59.4	1953.7	36	00.7	80	06.4	10000	
McNeil Lake.....	55	05.6	66	00.0	1951.6	40	20.8	79	03.1	11008	
Retty Lake.....	55	15.0	66	05.0	1951.7	34	12.0	78	57.3	10899	
Doaktown.....	46	33.7	66	07.3	1953.6	23	11.7	74	52.3	14746	
St. John, N.W.....	45	14.5	66	08.0	1957.7	22	25.4	73	36.0	15870	
Marian Lake.....	56	43.9	66	11.4	1951.6	36	56.0	79	50.1	10133	
Marbrella Lake.....	55	04.6	66	11.5	1951.7	44	14.0	78	53.8	10916	
Walsh Lake.....	55	10.0	66	21.0	1951.7	.....	.....	79	11.9	10698	
Seven Islands.....	50	11.2	66	22.0	1951.7	26	30.8	77	01.2	12974	
Walsh Lake.....	55	12.0	66	22.0	1951.7	20	40.0	79	45.7	10311	
Menihek Lake.....	53	48.7	66	24.5	1951.5	31	48.3	78	37.0	11371	
Tonguay Lake.....	55	03.0	66	25.0	1951.7	.....	.....	79	04.4	10855	
Fowler Lake.....	46	47.0	66	25.0	1957.6	23	25.6	74	44.7	14952	
House Lake.....	56	06.6	66	28.0	1951.6	31	22.7	79	00.2	10955	
Montreal Bay.....	54	56.4	66	31.5	1951.7	34	26.0	79	35.2	10268	
Iron Arm Lake.....	54	54.0	66	36.3	1951.7	24	20.0	78	22.6	11358	
Cap-Chat.....	49	05.9	66	42.0	1952.6	25	07.4	76	17.2	13654	
Knob Lake Airport.....	54	50.5	66	42.5	1951.7	34	23.0	79	05.6	10645	
Fredericton.....	45	59.4	66	44.6	1951.5	22	25.1	74	35.6	15078	
Fredericton.....	45	59.2	66	44.6	1957.6	22	10.2	74	17.4	15321	
Dolly Ridge.....	54	49.2	66	45.4	1951.7	30	27.6	78	49.0	11038	
Dolly Ridge B.....	54	49.2	66	45.4	1951.7	21	00.0	79	47.8	10767	
Grand Manan.....	44	39.7	66	48.4	1953.5	21	24.2	73	26.8	16066	
Knob Lake.....	54	48.4	66	49.4	1951.5	30	26.9	78	22.8	11773	
Knob Lake.....	54	48.4	66	49.4	1953.5	31	00.2	78	14.8	12007	
Slimy Beacon.....	54	48.3	66	51.3	1951.7	25	05.0	77	45.0	11788	
Edith Lake.....	54	46.2	66	52.6	1951.6	24	12.5	76	35.8	12967	
Ruth Beacon.....	54	47.4	66	52.8	1951.7	37	15.0	78	22.0	11325	
Matapédia.....	47	58.5	66	57.8	1951.7	24	03.6	75	50.8	13878	
St. Andrews.....	45	04.0	67	02.5	1953.6	20	52.1	74	07.9	15515	
Lac le Prévost.....	53	25.4	67	12.6	1951.6	30	43.5	78	26.6	11522	
Mt. Wright.....	52	46.0	67	20.0	1951.6	23	30.0	79	52.4	09920	
Kedgwick.....	47	38.5	67	21.0	1953.6	23	17.0	75	34.5	14215	
Ste-Croix.....	45	34.1	67	25.4	1953.6	20	51.1	74	32.1	15087	
Matane.....	48	50.8	67	32.3	1952.6	25	02.3	76	15.1	13755	
Wakuach Lake.....	55	35.6	67	34.6	1951.6	32	32.5	79	45.0	10383	
Woodstock C.....	46	09.2	67	34.7	1951.5	21	17.5	74	55.3	14755	
Woodstock.....	46	09.2	67	34.7	1953.6	21	18.9	74	49.9	14856	
Perth.....	46	43.9	67	42.1	1953.6	22	02.7	75	09.0	14589	
Lac Romanat.....	56	14.4	67	46.0	1951.6	35	55.1	79	44.9	10293	
Little Manicouagan Lake.....	52	01.2	67	46.5	1951.6	27	54.5	78	03.2	11918	
Otelnuk Lake.....	56	01.3	68	03.0	1951.6	34	57.9	79	53.2	10222	
Baie-Comeau.....	49	13.0	68	09.5	1951.6	26	21.6	76	16.3	13712	
Beacon Point.....	58	32.2	68	12.1	1951.6	38	54.9	80	52.1	09238	
Eaton Canyon.....	55	33.6	68	13.0	1951.6	34	23.2	79	34.5	10444	

## Magnetic Observations—Continued

Station	Lat.		Long.		Date	Declination Value		Inclination Value North		Horizontal Intensity Value	
	°	'	°	'		°	'	°	'	γ	
<b>West</b>											
Station No. 7.....	53	46.4	68	13.0	1951.5	31	41.7	79	07.0	10932	
Otelnuk Lake.....	56	07.8	68	16.4	1951.5	33	51.6	80	00.8	09976	
Fort-Chimo.....	58	08.6	68	18.1	1951.5	39	14.4	80	36.3	09463	
Edmundston.....	47	22.0	68	20.2	1957.6	22	23.9	75	19.5	14462	
Edmundston.....	47	21.9	68	20.3	1953.6	22	26.2	75	37.3	14202	
Lac St-Pierre.....	50	09.0	68	23.0	1951.6	24	50.3	77	20.4	12576	
Chimo.....	58	06.6	68	25.2	1953.6	40	11.8	80	41.3	09436	
Frobisher Bay Airport.....	63	45.0	68	32.8	1951.7	48	18.5	82	30.4	07559	
River Clyde A.....	70	27.3	68	33.7	1951.6	59	46.9	84	35.8	05397	
River Clyde B.....	70	27.2	68	33.8	1949.7	.....	.....	84	25.6	05477	
River Clyde B.....	70	27.2	68	33.8	1951.6	61	18.0	84	24.5	05599	
Bersimis.....	48	56.1	68	39.2	1952.5	21	41.9	77	13.2	12927	
Thule.....	76	31.8	68	45.0	1948.6	76	32.8	85	32.9	04590	
Fort McKenzie.....	56	49.8	68	57.6	1951.6	38	00.7	80	32.7	09514	
Station No. 6.....	54	43.1	69	02.4	1951.5	30	03.9	79	11.5	10866	
Rivière-du-Loup B.....	47	51.6	69	34.0	1951.7	21	57.2	75	59.7	13962	
Forbes Lake.....	57	17.4	69	50.0	1951.7	36	52.6	80	24.6	09776	
Lake Harbour.....	62	50.7	69	53.4	1951.6	46	55.3	82	49.5	07270	
Methy Lake.....	55	57.8	69	54.8	1951.6	32	49.4	79	53.2	09885	
Payne Bay.....	60	00.8	70	02.1	1953.5	44	03.5	82	05.5	08040	
Murray Bay B.....	47	38.4	70	08.0	1952.6	21	06.1	75	59.3	14010	
Murray Bay B.....	47	38.4	70	08.0	1957.6	20	54.2	75	47.3	14191	
Bagotville B.....	48	20.4	70	52.9	1952.5	21	45.2	77	21.7	12719	
Lake Megantic.....	45	34.1	70	53.2	1951.4	18	27.9	75	12.1	14655	
Number Thirteen.....	59	18.1	70	56.1	1953.6	25	51.0	83	36.3	06544	
Larch Lake.....	57	37.9	71	11.0	1953.6	29	17.6	81	37.3	08645	
Quebec B.....	46	48.0	71	13.2	1951.5	19	29.9	75	31.4	14477	
Quebec City B.....	46	48.0	71	13.2	1957.5	19	11.4	75	19.6	14646	
Lac Snafu.....	60	43.2	71	24.7	1953.6	42	49.1	82	31.8	07673	
Wakeham Bay A.....	61	41.8	71	54.8	1948.7	43	45.7	82	59.0	07078	
Wakeham Bay B.....	61	36.0	71	56.3	1953.6	43	04.7	82	49.0	07305	
Ayer's Cliff.....	45	09.6	72	01.5	1951.4	17	09.6	74	53.6	14969	
Ayer's Cliff.....	45	09.6	72	01.5	1957.5	17	01.5	74	38.6	15172	
Roberval B.....	48	23.1	72	13.6	1952.5	19	49.3	76	47.4	13436	
Roberval C.....	48	31.6	72	12.8	1953.5	19	58.3	76	47.6	13426	
Shawinigan Falls B.....	46	33.8	72	44.9	1951.7	15	55.3	75	52.2	14231	
Lac Becard.....	60	03.0	73	20.5	1953.5	41	37.8	82	28.8	07762	
New Quebec Crater No. 2.....	61	17.3	73	38.3	1953.6	41	49.5	83	21.0	06848	
New Quebec Crater No. 3.....	61	16.0	73	39.4	1953.6	40	17.2	83	47.8	06401	
New Quebec Crater No. 1.....	61	17.8	73	40.4	1953.6	40	09.2	83	18.7	06852	
Museum Lake.....	61	19.3	73	41.1	1953.6	43	35.2	83	21.7	06836	
Dune Lake.....	58	31.2	73	45.0	1953.6	31	43.7	82	13.2	08029	
Mistassini Lake.....	50	27.4	73	53.5	1952.6	20	45.4	78	15.2	11968	
Echo L.....	45	52.8	74	01.0	1954.6	14	48.6	76	23.4	13657	
Huntingdon.....	45	05.6	74	10.0	1951.4	14	12.8	75	41.7	14511	
Huntingdon.....	45	05.6	74	10.0	1954.6	14	08.3	75	33.7	14635	
Huntingdon.....	45	05.6	74	10.0	1957.5	14	06.3	75	23.7	14785	
Huntingdon.....	45	05.6	74	10.0	1961.9	14	19.7	75	20.0	14824	
Pt. au Baudet.....	45	12.1	74	19.4	1954.5	15	21.1	75	23.7	14664	
Lachute.....	45	40.0	74	20.0	1951.4	15	20.5	75	29.5	14716	
Lachute A.....	45	40.0	74	20.0	1954.5	15	18.8	75	23.1	14819	
Lachute A.....	45	40.0	74	20.0	1957.5	15	14.2	75	17.8	14884	
Lachute B.....	45	39.3	74	20.0	1958.4	15	14.1	75	10.5	15054	
Lachute B.....	45	39.3	74	20.0	1961.9	15	26.5	74	57.7	15212	
Chibougamau.....	49	44.5	74	23.9	1952.5	18	11.9	77	52.1	12408	
Alexandria.....	45	18.3	74	38.0	1954.5	13	55.2	75	12.1	14866	
Alexandria.....	45	18.3	74	38.0	1957.5	13	48.7	.....	.....	15049	
Lac à la Culotte.....	47	21.4	74	38.5	1950.8	15	48.8	76	40.0	13590	
Cornwall.....	45	01.4	74	47.0	1957.5	14	19.2	74	50.4	15338	
Pine Lake Depot.....	47	02.8	74	54.5	1950.8	16	48.1	76	20.8	13772	
Carrière Depot.....	47	28.0	74	57.5	1950.8	16	55.4	76	51.6	13500	
Casselman, Ont.....	45	19.1	75	04.9	1954.5	14	25.9	75	36.0	14802	
Menjo Depot.....	47	08.2	75	06.7	1950.8	16	01.1	76	21.1	13969	
Thurso.....	45	36.0	75	14.5	1955.7	10	58.1	75	28.4	14637	
Lac Couture.....	60	13.2	75	17.4	1953.6	38	29.2	82	56.5	07298	

## Magnetic Observations—Continued

Station	Lat.		Long.		Date	Declination Value		Inclination Value North		Horizontal Intensity Value	
	°	'	°	'		°	'	°	'	γ	
<b>West</b>											
Sugluk.....	62	12.6	75	18.1	1951.5	41	38.9	83	41.0	06484	
New Iroquois.....	44	51.5	75	19.2	1958.4	13	24.7	74	48.0	15216	
New Iroquois.....	44	51.5	75	19.2	1961.9	13	27.0	74	44.8	15245	
Ste-Anne-du-Lac A.....	46	52.7	75	19.7	1950.8	13	13.9	75	24.4	15788	
Ste-Anne-du-Lac B.....	46	52.7	75	19.8	1950.8	14	46.3	75	12.2	15070	
Ste-Anne-du-Lac C.....	46	52.6	75	20.1	1950.8	14	44.4	77	52.6	12540	
Mont-Laurier.....	46	33.5	75	31.1	1950.8	11	22.9	76	19.0	14030	
Mont-Laurier.....	46	33.5	75	31.1	1955.7	11	22.3	76	07.5	14227	
Sloé Depot.....	47	22.5	75	37.3	1950.8	15	01.3	76	58.7	13313	
Notre-Dame-du-Laus.....	46	05.2	75	38.3	1955.7	14	27.3	75	28.0	14523	
Ottawa Laboratory.....	45	23.4	75	42.0	1959.4	13	35.7	75	07.4	14892	
Long Island Huts.....	45	15.2	75	42.8	1958.4	13	08.1	75	22.5	14645	
Long Island Huts.....	45	15.2	75	42.8	1959.4	13	11.3	75	17.5	14640	
Long Island Huts.....	45	15.2	75	42.8	1960.6	13	15.4	75	17.0	14720	
Long Island Huts.....	45	15.2	75	42.8	1961.5	13	10.5	75	13.5	14774	
Ottawa Dom. Obs.....	45	23.7	75	43.0	1952.4	14	21.7	75	24.5	14612	
Poltimore.....	45	47.2	75	43.2	1955.7	13	48.1	75	50.3	14287	
Alexandra Fiord.....	78	53.8	75	45.9	1954.6	101	39.0	86	38.4	03291	
Chukotat L.....	61	22.0	75	49.2	1953.6	38	15.7	83	19.8	06835	
Maniwaki.....	46	22.7	75	58.8	1950.8	13	45.2	75	58.8	13948	
Kazabazua.....	45	57.0	76	01.0	1950.8	12	43.7	75	43.4	14441	
La Croix Depot.....	46	43.1	76	01.2	1950.8	14	29.9	76	15.2	13980	
Richmond Gulf.....	56	06.6	76	04.0	1952.5	27	10.6	81	39.1	08654	
Trout Depot.....	47	23.6	76	06.8	1950.8	14	36.7	76	51.0	13381	
Twin Glaciers.....	78	49.7	76	13.0	1953.6	103	54.5	86	36.7	03315	
Denbigh.....	45	08.1	76	16.5	1955.6	10	42.9	75	14.4	14839	
Christie Lake.....	44	48.7	76	26.1	1954.7	12	09.8	74	49.7	15169	
Perth Road.....	44	27.8	76	30.0	1955.6	07	18.3	75	58.5	13901	
O'Connell Lodge.....	47	03.1	76	31.8	1950.9	14	06.1	76	41.8	13539	
Cape Dorset B.....	64	14.0	76	32.5	1951.6	47	23.9	84	41.1	05425	
Sydenham Lake.....	44	25.1	76	32.9	1955.6	08	06.6	76	11.1	13894	
Cape Dorset A.....	64	13.6	76	34.0	1950.6	49	12.0	84	41.9	05422	
Holleford Crater.....	44	28.0	76	37.0	1960.5	12	20.5	74	29.2	15475	
Holleford Jct.....	44	28.3	76	37.5	1956.8	12	16.1	74	41.5		
Beachburg.....	45	44.8	76	51.6	1955.6	11	51.9	75	52.4	14341	
Kirk Cove.....	44	48.4	76	58.5	1954.7	10	20.9	75	31.3	14648	
Tweed B.....	44	30.1	77	18.6	1955.6	12	41.7	75	11.1	14809	
Belleville B.....	44	07.1	77	22.6	1953.5	10	20.1	74	44.8	15137	
Wolstenholme.....	62	31.9	77	23.9	1948.7			84	12.0		
Combermere.....	45	21.0	77	36.6	1954.5	10	39.3	75	30.6	14696	
Great Whale River.....	55	16.6	77	46.2	1952.5	20	48.5	81	08.6	09204	
Bancroft B.....	45	04.7	77	52.4	1955.6	09	35.3	75	59.8	14190	
Bancroft B.....	45	04.7	77	52.4	1958.4	09	34.6	75	54.4	14315	
Ivugivik.....	62	25.6	77	53.5	1951.5	42	48.9	85	03.1	05103	
Pond Inlet.....	72	41.7	77	58.3	1948.6			86	25.0	03619	
Pond Inlet.....	72	41.7	77	58.3	1951.7	79	10.7	86	26.6	03554	
Mount Julian.....	44	33.8	78	06.0	1954.6	10	37.6	75	05.7	15108	
Port Harrison.....	58	26.5	78	08.3	1951.6	31	08.0	82	59.1	07681	
Whitney.....	45	29.5	78	14.3	1954.6	10	19.9	75	27.3	14587	
Cape Smith.....	60	44.3	78	28.2	1951.6	34	09.3	83	43.7	06433	
Brent.....	46	01.8	78	28.4	1956.5	10	29.7	76	00.0	14192	
Source Lake.....	45	34.1	78	38.3	1954.6	06	47.9	76	33.0	13823	
Taschereau.....	48	40.2	78	41.1	1950.9	13	10.0	77	45.4	12575	
Mattawa C.....	46	19.5	78	42.7	1950.9	10	27.1	76	30.3	13764	
Rupert's House.....	51	29.2	78	44.9	1952.6	16	53.3	79	29.3	10882	
Belcher Islands.....	56	12.1	78	52.5	1952.5	21	37.5	81	49.1	08516	
Fort George.....	53	49.8	78	59.5	1952.5	20	14.6	80	58.0	09571	
Fox Point.....	45	15.7	78	59.8	1954.6	08	50.5	75	28.6	14655	
Fox Point.....	45	15.7	78	59.8	1956.5	08	52.2	75	23.4	14788	
Huntsville.....	45	21.5	79	13.0	1956.5	09	48.5	75	33.7	14502	
Agincourt.....	43	47.0	79	16.0	1948.5	07	22.8	74	44.7	15355	
Agincourt.....	43	47.0	79	16.0	1949.5	07	21.1	74	43.4	15362	
Agincourt.....	43	47.0	79	16.0	1950.5	07	22.0	74	41.1	15430	
Agincourt.....	43	47.0	79	16.0	1951.5	07	17.2	74	40.0	15419	
Agincourt.....	43	47.0	79	16.0	1952.5	07	15.7	74	38.2	15445	

## Magnetic Observations—Continued

Station	Lat.		Long.		Date	Declination Value	Inclination Value North		Horizontal Intensity Value
	°	'	°	'			°	'	
<b>West</b>									
Agincourt.....	43	47.0	79	16.0	1953.5	07	15.2	74	35.9
Agincourt.....	43	47.0	79	16.0	1954.5	07	16.0	74	33.8
Agincourt.....	43	47.0	79	16.0	1955.5	07	16.4	74	31.3
Agincourt.....	43	47.0	79	16.0	1956.5	07	16.8	74	29.4
Agincourt.....	43	47.0	79	16.0	1957.5	07	19.1	74	26.8
Agincourt.....	43	47.0	79	16.0	1958.5	07	19.7	74	24.2
Agincourt.....	43	47.0	79	16.0	1959.5	07	18.8	74	21.2
Agincourt.....	43	47.0	79	16.0	1960.5	07	19.7	74	18.1
Agincourt.....	43	47.0	79	16.0	1961.5	07	19.7	74	13.8
Kashi Lake.....	44	51.2	79	18.1	1954.6	06	55.8	76	40.4
Sundridge.....	45	44.0	79	24.2	1954.6	09	24.0	75	59.0
North Bay B.....	46	19.8	79	24.7	1954.9	12	17.3	76	42.4
North Bay C.....	46	19.8	79	24.7	1956.5	09	40.7	76	39.3
Minett.....	45	09.9	79	38.9	1954.6	08	28.9	75	23.0
New Liskeard C.....	47	28.0	79	39.0	1956.5	09	50.7	77	02.2
New Liskeard A.....	47	30.6	79	40.4	1950.9	10	09.1	77	14.3
New Liskeard B.....	47	30.6	79	40.8	1954.9	10	01.4	77	06.5
Larder Lake.....	48	06.0	79	43.0	1950.7	12	40.9	77	54.5
Restoule.....	46	02.9	79	43.7	1954.6	09	32.0	75	52.6
Burlington.....	43	20.5	79	50.0	1953.5	07	01.1	74	18.1
Wasaga Beach.....	44	31.9	80	00.8	1954.6	07	53.9	75	12.3
Wasaga Beach.....	44	31.9	80	00.8	1956.8	07	58.7	75	08.3
Wasaga Beach.....	44	31.9	80	00.8	1958.7	07	52.4	75	01.8
Moose Factory.....	51	15.0	80	36.6	1952.6	17	49.8	80	09.0
Owen Sound.....	44	33.8	80	56.0	1953.5	07	10.8	75	04.6
Sudbury E.....	46	30.0	80	57.2	1956.5	.....	.....	.....	14013
Sudbury C.....	46	30.9	80	58.6	1958.6	08	23.5	75	57.0
Sudbury D.....	46	31.0	80	59.0	1956.5	08	35.8	76	05.0
Craig Harbour.....	76	11.9	81	01.8	1951.7	90	21.6	87	49.6
Craig Harbour.....	76	11.8	81	01.8	1953.6	.....	.....	87	50.6
Craig Harbour.....	76	11.9	81	01.8	1954.6	86	30.0	87	47.8
Cochrane B.....	49	04.2	81	01.9	1950.7	10	28.4	78	05.6
Cochrane B.....	49	04.2	81	01.9	1952.7	10	21.7	78	01.8
Cochrane B.....	49	04.2	81	01.9	1954.9	10	21.6	77	57.5
Cochrane B.....	49	04.2	81	01.9	1956.5	10	11.5	77	52.8
Timmins B.....	48	28.6	81	19.8	1954.9	.....	.....	77	43.7
Fort Albany.....	52	14.3	81	36.7	1952.6	12	33.6	79	48.4
Tobermory.....	45	15.4	81	40.5	1953.5	08	21.2	75	26.0
Tobermory.....	45	15.4	81	40.5	1961.7	8	39.5	75	07.5
Goderich B.....	43	44.9	81	42.9	1953.5	05	39.4	74	27.2
Igloolik.....	69	22.5	81	48.1	1949.6	61	12.4	86	49.1
Ten-Mile Point.....	45	52.5	81	51.5	1953.5	06	20.7	76	20.3
Ten-Mile Point.....	45	52.5	81	51.5	1956.5	06	09.9	76	15.8
Attawapiskat.....	52	55.2	82	25.9	1952.6	12	46.0	80	25.2
Dundas Harbour.....	74	31.2	82	36.0	1951.7	95	59.0	86	55.6
Dundas Harbour.....	74	31.2	82	36.0	1954.6	90	42.0	87	01.0
Essex B.....	42	10.4	82	49.4	1953.5	02	51.3	73	18.5
Cape Joy.....	73	38.5	82	57.6	1954.6	81	36.0	87	20.0
Meldrum Bay.....	45	55.6	83	07.2	1953.5	04	43.9	76	26.3
Meldrum Bay.....	45	55.6	83	07.2	1956.5	04	44.5	76	20.7
Southampton Island.....	64	07.8	83	10.9	1948.7	40	06.6	80	49.9
Southampton Island.....	64	07.8	83	10.9	1951.6	37	42.6	85	33.5
Coral Harbour Airport.....	64	11.4	83	21.5	1950.6	28	46.1	86	09.8
Croker Bay.....	74	38.5	83	22.8	1954.6	83	36.0	87	17.0
Hearst C.....	49	41.1	83	40.1	1950.7	08	18.5	78	31.4
Hearst C.....	49	41.1	83	40.1	1952.7	08	10.2	78	28.9
Hearst C.....	49	41.4	83	40.1	1954.9	8	14.1	78	27.0
Hearst C.....	49	41.1	83	40.1	1956.6	08	04.7	78	22.1
Sault Ste. Marie B.....	46	30.0	84	18.0	1952.6	04	37.1	76	41.8
Sault Ste. Marie B.....	46	30.0	84	18.0	1956.8	04	28.4	76	35.0
Sault Ste. Marie C.....	46	30.0	84	18.0	1961.7	4	33.3	76	22.5
Big Lake.....	53	01.4	84	49.2	1952.6	09	00.1	80	39.8
Arctic Bay.....	73	02.4	85	11.9	1951.7	84	16.0	87	29.4
Weenusk (HBC Post).....	55	15.7	85	12.0	1952.6	12	02.8	82	15.0
Ogoki Trading Post.....	51	38.4	85	56.2	1952.6	05	49.5	80	03.1

## Magnetic Observations—Continued

Station	Lat.		Long.		Date	Declination Value		Inclination Value North		Horizontal Intensity Value	
	°	'	°	'		°	'	°	'	γ	
<b>West</b>											
Repulse Bay.....	66	33.0	86	12.7	1949.6	40	19.4	.....	.....	03170	
Repulse Bay B.....	66	32.8	86	12.7	1949.6	40	17.2	86	56.7	03168	
Hobhouse Inlet.....	74	27.1	86	15.0	1949.6	85	40.4	87	55.4	02089	
Berlinguette Inlet.....	71	02.8	86	28.0	1949.6	67	21.2	87	26.5	02613	
Longlac B.....	49	45.8	86	33.0	1952.6	02	59.7	78	23.5	12172	
Nakina.....	50	10.3	86	43.0	1952.6	03	36.7	78	56.8	11554	
Schreiber B.....	48	49.0	87	15.5	1952.6	02	37.5	77	55.3	12551	
Fort Severn (HBC).....	56	00.0	87	37.0	1952.6	06	56.3	82	42.6	07771	
Lansdowne House.....	52	13.5	87	52.6	1952.6	04	15.4	80	06.1	10433	
Fort Hope.....	51	33.6	87	59.6	1952.6	05	38.7	80	35.1	09854	
Nipigon.....	49	00.6	88	16.0	1952.6	00	17.9	78	01.6	12545	
Silver Islet.....	48	20.0	88	49.5	1956.6	01	02.6	77	36.2	12949	
Armstrong.....	50	18.0	89	02.0	1952.6	01	00.3	79	08.0	11532	
<b>East</b>											
Twin City Jet. C.....	48	22.3	89	25.0	1950.7	01	18.3	77	33.3	12998	
Twin City Jet. C.....	48	22.3	89	25.0	1952.6	01	19.7	77	28.6	13123	
Twin City Junction.....	48	22.3	89	25.0	1956.6	01	22.4	77	21.6	13194	
Twin City Junction.....	48	22.3	89	25.0	1958.5	01	24.0	77	18.5	13260	
Twin City Junction.....	48	22.3	89	25.0	1961.5	01	20.5	77	10.0	13375	
Pigeon River.....	48	00.8	89	42.1	1956.8	04	01.0	77	58.5	12548	
Pigeon River.....	48	00.8	89	42.1	1961.7	03	58.5	77	49.5		
<b>West</b>											
Pelly Bay.....	68	32.1	89	48.8	1949.6	45	23.9	87	51.7	02226	
Big Trout Lake.....	53	8.9	89	53.2	1952.6	03	46.7	81	05.7	09354	
<b>East</b>											
Upsala.....	49	02.2	90	27.7	1952.6	02	32.3	77	40.7	12958	
Savant Lake.....	50	14.0	90	42.8	1952.6	02	13.0	78	23.8	12247	
<b>West</b>											
Wager Bay.....	65	55.6	90	48.6	1949.6	19	48.5	87	19.4	02803	
<b>East</b>											
Ignace B.....	49	25.1	91	40.7	1952.6	04	06.3	78	00.9	12626	
Ignace B.....	49	25.1	91	40.7	1956.6	04	08.0	77	52.2	12762	
<b>West</b>											
Beechy Island.....	74	42.9	91	47.5	1949.6	94	51.1	88	35.4	01442	
Beechy Island.....	74	42.9	91	47.5	1954.6	90	24.0	88	35.8	01411	
Union Bay.....	74	44.5	91	50.8	1949.6	93	42.9	88	37.3	01387	
<b>East</b>											
Sioux Lookout C.....	50	04.8	91	55.4	1952.6	01	49.5	78	01.0	12491	
Dryden.....	49	47.4	92	49.4	1950.7	06	22.9	78	49.3	11629	
Dryden A.....	49	47.4	92	49.4	1952.6	06	22.4	78	46.3	11711	
Dryden B.....	49	47.4	92	49.4	1956.6	06	20.5	78	37.0	11825	
Fort Frances B.....	48	37.5	93	21.0	1956.8	04	54.0	76	58.3		
<b>West</b>											
Spence Bay.....	69	32.5	93	32.0	1949.6	46	38.3	88	53.9	01137	
Cunningham Inlet.....	74	06.0	93	45.0	1949.6	90	57.9	88	52.1	01138	
Union River.....	72	46.6	93	57.0	1949.6	73	23.4	88	59.9	01019	
<b>East</b>											
Eskimo Point.....	61	07.2	94	02.0	1950.5	00	42.3	85	00.2	05332	
Churchill Airport.....	58	45.2	94	04.5	1950.6	02	26.5	83	59.1	06385	
Churchill Airport.....	58	45.2	94	04.5	1951.6	02	55.0	83	57.3	06444	
Churchill C.....	58	47.2	94	11.4	1948.7	02	43.7	83	57.4	06431	
Churchill C.....	58	47.2	94	11.4	1950.6	02	57.6	83	50.5	06519	
Churchill C.....	58	47.2	94	11.4	1951.6	03	42.1	83	47.9	06603	
Churchill (Cape Merry).....	58	47.2	94	11.4	1958.6	02	15.0	83	40.3	06732	
Churchill (Cape Merry).....	58	47.2	94	11.4	1959.4	03	43.0	83	32.8	06860	
Churchill B.....	58	44.7	94	14.5	1950.6	03	44.8	83	52.3	06520	
Kenora C.....	49	46.2	94	28.0	1956.6	06	42.0	77	40.3	12982	
Rainy River B.....	48	43.3	94	35.0	1956.8	07	09.6	76	58.6		

## Magnetic Observations—Continued

Station	Lat.		Long.		Date	Declination Value		Inclination Value North		Horizontal Intensity Value	
	°	'	°	'		°	'	°	'	γ	
<b>West</b>											
Resolute Bay.....	74	41.4	94	53.4	1954.6	96	48.1	89	07.6	00879 (57712)*	
Resolute Bay B.....	74	41.4	94	53.4	1958.6	94	32.2	89	10.3	00839 (58078)*	
Barrow Harbour.....	76	36.4	95	37.0	1949.6	118	53.4	88	51.3	01148	
Pasley Bay.....	70	42.0	95	53.1	1948.6	24	49.7	88	59.1	01046	
Lake Franklin.....	66	52.9	96	05.7	1949.6	07	08.0	88	01.0	02075	
<b>East</b>											
Padlei.....	61	54.5	96	40.0	1950.5	07	30.8	85	18.9	04941	
Selkirk A.....	50	08.8	96	52.7	1950.7	08	36.5	77	50.8	12763	
Selkirk B.....	50	08.7	96	52.7	1956.7	08	39.9	77	42.3	13054	
Selkirk B.....	50	08.7	96	52.7	1961.5	08	42.8	77	31.5	13074	
Emerson C.....	49	00.2	97	12.0	1950.7	08	53.5	76	56.4	13646	
Emerson C.....	49	00.2	97	12.0	1956.7	08	49.2	76	45.7		
Norway House.....	53	59.0	97	50.2	1961.5	09	45.7	80	14.6	10442	
Cape Svene Decca.....	78	48.1	98	10.2	1960.6	121	23.0				
Gladstone.....	50	13.3	98	57.2	1950.7	11	26.0	77	43.2	12898	
Nueltin Lake.....	60	02.2	99	49.6	1949.5	13	18.2	83	50.6	03804	
Brandon B.....	49	52.0	99	58.8	1950.7	12	16.7	77	15.3	13412	
Brandon A.....	49	52.0	99	58.8	1953.6	12	13.6	77	08.5	13526	
Brandon A.....	49	52.0	99	58.8	1956.7	12	15.5	77	04.3	13532	
Brandon B.....	49	52.0	99	58.8	1958.7	12	08.1	76	59.6	13611	
Brandon B.....	49	52.0	99	53.8	1961.5	12	11.5	76	54.0	13757	
<b>West</b>											
Meighen Island.....	80	00.2	100	00.2	1960.4	152	30.4	88	53.7	01094	
<b>East</b>											
Peace Gardens.....	49	00.0	100	03.5	1953.6	12	16.8	76	29.5	14151	
Peace Gardens.....	49	00.0	100	03.5	1959.7	12	00.0	76	22.7		
Dauphin.....	51	09.0	100	04.0	1950.7	12	12.6	78	03.7	12697	
Ommaney Bay.....	73	15.7	100	21.0	1949.6	46	26.7	89	46.0	00238	
Pelly Lake.....	65	54.7	100	45.6	1949.6	18	10.7	87	02.3	03122	
Lynn Lake.....	56	51.4	101	02.5	1961.5	13	37.6	81	12.0	09337	
The Pas Airport.....	53	58.0	101	05.6	1949.5	14	13.5	79	53.4	10911	
The Pas B.....	53	50.0	101	14.0	1961.5	14	48.4	79	23.0	11246	
Swan River B.....	52	06.8	101	15.5	1950.7	15	06.0	78	47.5	11914	
Swan River C.....	52	06.8	101	15.6	1961.6	15	07.2	78	25.5	12280	
Internat. Boundary No. 672A.....	49	00.0	101	17.9	1953.6	13	40.7	76	09.8	14433	
Dubawnt Lake.....	62	42.7	101	23.3	1949.5	17	54.9	85	18.1	05013	
Pell Inlet.....	75	54.4	102	15.4	1948.6	168	20.0	89	41.1	00386	
Estevan.....	49	08.8	102	59.2	1950.4	15	03.2	76	03.7	14520	
Estevan.....	49	08.8	102	59.2	1953.6	15	00.1	75	58.5	14549	
Estevan.....	49	08.8	102	59.2	1956.7	14	48.6	75	54.3	14675	
Sherwood Lake.....	60	53.7	103	21.5	1950.5	21	14.9	83	50.7	06585	
<b>West</b>											
Isachsen, Deer Bay.....	78	46.8	103	32.5	1959.4	166	00.0	89	20.0	00700 (57104)**	
Isachsen, Base Camp.....	78	47.3	103	39.3	1960.5	165	45.0	89	20.4	00554 (57150)	
Shoran Hill.....	78	46.4	103	40.4	1960.5	167	41.2	89	30.2	00521 (59425)	
<b>East</b>											
Internat. Boundary No. 565.....	49	00.0	104	34.1	1953.6	15	56.2	75	27.6	15125	
Melfort B.....	52	51.5	104	37.7	1950.7	17	24.1	78	41.0	11967	
Lac la Ronge.....	55	06.2	105	17.5	1956.7	19	24.1	79	48.5	10812	
Watrous.....	51	43.5	105	28.0	1953.6	17	09.4	77	25.5	13254	
Watrous.....	51	43.5	105	28.0	1956.6	17	02.3	77	22.4	13375	
Prince Albert B.....	53	11.7	105	48.8	1950.7	19	40.6	78	56.8	11716	
Prince Albert.....	53	11.7	105	48.8	1956.6	19	14.2	78	47.5	11877	
Prince Albert.....	53	11.7	105	48.8	1959.7	19	09.5	78	46.1		
Internat. Boundary No. 522.....	49	00.0	105	56.6	1953.6	16	39.6	75	11.0	15286	
Assiniboia.....	49	38.2	105	59.1	1956.7	16	32.6	75	29.0	15300	
Waskeiu.....	53	55.6	106	05.0	1956.7	19	02.4	78	48.4	11822	
King Game Lake.....	72	27.0	106	15.0	1948.6	48	30.0	88	36.8	01414	
Saskatoon (Campus).....	52	08.1	106	38.3	1953.5	20	10.7	77	11.5	13418	

\*Z. See last para. of Introduction.

\*\*Vertical intensity.

## Magnetic Observations—Continued

Station	Lat.		Long.		Date	Declination Value		Inclination Value North		Horizontal Intensity Value	
	°	/	°	/		°	/	°	/	γ	
<b>East</b>											
Saskatoon (Campus).....	52	08.1	106	38.3	1956.6	20	01.4	77	08.0	13512	
Chaplin C.....	50	27.5	106	39.2	1950.7	18	21.4	76	25.6	14171	
Spitfire Lake.....	63	52.5	107	44.5	1950.5	27	30.6	83	02.5	07349	
Swift Current.....	50	16.3	107	48.0	1950.7	18	36.3	76	06.9	14520	
Swift Current.....	50	16.3	107	48.0	1956.7	18	16.4	75	53.5	14555	
Swift Current.....	50	16.3	107	48.0	1959.5	18	10.4	75	47.0	14712	
Internat. Boundary No. 463.....	49	00.0	107	50.7	1953.6	18	26.9	77	54.1	15532	
Bathurst Inlet.....	66	50.0	107	56.4	1948.6	26	24.0	86	06.7	04108	
Rosetown.....	51	33.8	107	59.7	1950.7	20	02.7	76	49.6	13811	
Rosetown C.....	51	33.7	108	00.2	1958.5	19	43.7	76	36.0	13954	
Battleford.....	52	43.6	108	18.0	1950.7	20	06.8	77	27.8	13142	
Bridport Inlet.....	74	58.5	108	29.2	1954.7	70	30.0	88	53.6	01118	
Cypress Hills.....	49	39.6	109	31.5	1953.6	19	36.0	74	59.7	15450	
Mantario.....	51	13.8	109	43.1	1956.7	20	09.1	76	18.3	14223	
Mantario.....	51	13.8	109	43.1	1958.7	20	02.4	76	16.8	14227	
Willow Creek.....	49	00.0	109	45.3	1953.6	18	54.4	74	27.4	15893	
Lloydminster A.....	53	17.4	110	00.0	1950.7	22	07.1	77	52.5	12714	
Cape Malloch.....	78	45.8	110	24.3	1960.4	111	55.8	89	18.8	00688 (57421)†	
Mackenzie King Island.....	77	32.5	110	27.5	1960.6	104	22.5	89	05.2	00915 (57780)†	
Dunmore.....	49	58.5	110	35.6	1950.6	19	34.5	75	09.7	15337	
Bonnyville.....	54	16.1	110	44.6	1952.7	22	44.3	78	00.5		
Liddon Gulf.....	75	16.9	111	05.8	1948.6	79	36.7	88	46.8	01328	
Coronation.....	52	06.5	111	26.8	1950.6	21	34.5	76	20.9	14237	
Coutts No. 335.....	49	00.0	111	56.1	1953.6	20	01.8	73	43.4	16540	
Coutts No. 335.....	49	00.0	111	56.1	1961.7	20	08.0	73	31.0	16725	
Prince Albert Sound.....	70	17.3	111	56.5	1949.6	50	01.4	86	40.4	03453	
Lac la Biche B.....	54	49.4	112	05.0	1950.5	25	15.9	78	13.9	12346	
Lac la Biche Mission.....	54	49.4	112	05.0	1952.7	24	56.4	78	18.0		
Boyle.....	54	35.8	112	48.0	1950.5	25	01.1	77	59.7	12505	
Boyle.....	54	35.8	112	48.0	1954.8	24	41.3	77	55.0	12554	
Donatville.....	54	44.9	112	48.5	1950.5	24	30.2	77	00.4	12576	
Bruderheim.....	53	48.6	112	55.8	1950.6	23	54.3	77	22.7	13158	
Newbrook.....	54	20.1	112	56.6	1950.5	24	26.9	77	46.4	12797	
Newbrook.....	54	20.1	112	56.6	1954.7	24	04.5	77	42.8	12859	
Gleichen.....	50	52.2	113	03.3	1950.6	22	03.4	75	16.7	15271	
Gleichen.....	50	52.2	113	03.3	1953.7	21	49.6	75	13.3	15263	
Gleichen.....	50	52.2	113	03.3	1959.6	21	32.4	75	07.0		
R.C. Church (Boyle).....	54	35.1	113	07.2	1950.5	24	45.3	77	40.7	12876	
Thorhild.....	54	09.7	113	07.6	1950.5	24	44.4	77	39.9	12910	
Athabasca.....	54	44.3	113	13.2	1950.5	24	55.6	77	50.6	12699	
Athabasca.....	54	44.3	113	13.2	1952.5	24	45.1	77	47.9	12752	
Athabasca B.....	54	44.3	113	13.2	1953.5	24	46.2	77	47.3	12736	
Athabasca B.....	54	44.3	113	13.2	1958.5	24	21.4	77	42.2	12790	
Colinton.....	54	37.2	113	14.7	1950.6	25	07.2	77	45.2	12761	
Big Coulee School.....	54	52.8	113	16.7	1950.6	24	42.3	77	50.8	12688	
Cardston.....	49	11.2	113	19.7	1950.6	21	19.7	74	12.7	16175	
South Athabasca School.....	54	39.7	113	19.8	1950.5	24	41.8	77	46.1	12779	
South Athabasca School.....	54	39.7	113	19.8	1954.7	24	20.9	77	43.1	12787	
Meanook (Observatory).....	54	37.0	113	20.0	1948.5	24	57.7	77	48.1	12811	
Meanook (Observatory).....	54	37.0	113	20.0	1949.5	24	52.2	77	47.5	12813	
Meanook (Observatory).....	54	37.0	113	20.0	1950.5	24	45.8	77	45.6	12841	
Meanook (Observatory).....	54	37.0	113	20.0	1951.5	24	45.7	77	44.6	12872	
Meanook (Observatory).....	54	37.0	113	20.0	1953.6	24	36.4	77	40.0	12855	
Meanook (Observatory).....	54	37.0	113	20.0	1957.5	24	23.1	77	36.4	12921	
Meanook (Observatory).....	54	37.0	113	20.0	1958.5	24	19.4	77	35.5	12942	
Meanook (Observatory).....	54	37.0	113	20.0	1959.5	24	13.0	77	34.1	12960	
Meanook (Observatory).....	54	37.0	113	20.0	1960.5	24	09.7	77	32.5	12985	
Meanook (Observatory).....	54	37.0	113	20.0	1961.5	24	06.0	77	30.1	13022	
Meanook Stn. B.....	54	36.9	113	20.5	1958.6	24	12.3	77	34.7	12864	
Meanook Stn. C.....	54	37.0	113	20.9	1959.6	24	07.2	77	35.1	12960	
Meanook C.....	54	37.0	113	20.9	1961.7	24	07.6	77	31.5	13000	
Perryvale A.....	54	28.5	113	22.5	1950.6	25	11.9	77	39.9	12850	
Perryvale B.....	54	28.5	113	22.7	1954.7	24	52.0	77	36.0	12914	

†Vertical Intensity.

## Magnetic Observations—Continued

Station	Lat.		Long.		Date	Declination Value		Inclination Value North	Horizontal Intensity Value
	°	'	°	'		°	'		
<b>East</b>									
Macleod.....	49	42.1	113	24.0	1950.6	21	34.0	74	24.2
Macleod.....	49	42.1	113	24.0	1953.6	21	22.0	74	18.2
Macleod RCMP Stn.....	49	42.0	113	24.0	1958.7	21	13.3	74	13.9
Bon Accord.....	53	49.8	113	25.0	1950.6	25	21.9	77	13.5
Rochester.....	54	22.6	113	27.0	1950.6	25	43.8	77	32.2
George Lake School.....	54	35.2	113	27.5	1950.5	24	51.3	77	40.3
Tawatin.....	54	18.1	113	29.4	1950.6	25	24.0	77	40.6
Lahaievile.....	54	49.2	113	32.2	1950.5	25	14.4	77	47.5
Richard Collinson Inlet.....	72	38.6	113	40.0	1948.6	60	53.5	87	26.1
Dapp-Rochester.....	54	21.2	113	40.7	1950.5	24	56.4	77	35.1
Lacombe A.....	52	27.6	113	45.0	1950.6	23	25.5	76	16.5
Lacombe B.....	52	27.6	113	45.0	1953.7	23	10.6	76	11.4
Lacombe B.....	52	27.6	113	45.0	1958.7	22	48.4	76	07.5
High River.....	50	34.4	113	53.0	1950.6	22	19.8	75	03.2
High River.....	50	34.4	113	53.0	1954.8	21	57.4	74	57.5
Waterton Park.....	49	03.8	113	54.4	1953.6	22	10.6	73	35.0
Waterton Park.....	49	03.8	113	54.4	1961.7	21	49.0	73	24.0
Dapp.....	54	20.7	113	55.4	1950.5	24	17.1	77	30.5
Fawcett.....	54	32.3	114	02.0	1950.5	24	43.1	77	51.7
Yellowknife.....	62	28.6	114	26.3	1958.6	32	10.0	82	27.7
Wabamun B.....	53	33.7	114	27.2	1950.6	24	25.0	77	06.8
Wabamun B.....	53	33.7	114	27.2	1954.8	23	51.8	77	01.9
Rocky Mountain House.....	52	22.4	114	53.6	1950.6	24	20.2	75	53.9
Russell Point.....	73	26.9	115	25.2	1954.7	61	57.0	87	20.0
Banff C.....	51	10.7	115	34.2	1950.6	23	48.5	74	49.7
Banff C.....	51	10.7	115	34.2	1953.7	23	48.6	74	45.0
Banff C.....	51	10.7	115	34.2	1959.5	23	28.2	74	36.8
Faust B.....	55	19.0	115	36.5	1958.6	25	49.0	77	34.3
Faust.....	55	19.0	115	36.5	1950.5	26	21.2	77	46.0
Cranbrook C.....	49	31.0	115	46.5	1953.7	22	24.1	73	19.0
Cranbrook D.....	49	31.0	115	46.5	1959.5	22	10.2	73	10.0
Hay River Airport.....	60	50.4	115	46.7	1952.7	32	03.6	81	18.3
Radium.....	50	38.1	116	01.5	1954.8	23	10.5	74	08.4
Fort Vermilion.....	58	23.1	116	02.0	1952.7	31	25.2	79	52.6
Boffa Lake.....	69	39.8	116	11.2	1948.6	48	45.2	85	52.7
Edson.....	53	35.5	116	25.4	1950.6	26	08.9	76	28.5
Edson.....	53	35.5	116	25.4	1954.5	25	53.4	76	23.7
Porthill No. 207.....	49	00.0	116	29.9	1953.7	21	45.2	72	45.8
Porthill No. 207.....	49	00.0	116	29.9	1959.5	21	26.5	72	45.2
Columbia Icefields.....	51	58.6	116	53.7	1954.5	23	49.2	75	01.3
Alberta-NWT Boundary.....	60	00.0	116	59.7	1952.7	32	09.1	80	19.7
Valleyview.....	55	03.4	117	15.2	1952.7	26	44.1	77	06.5
Peace River B.....	56	13.8	117	15.7	1952.7	28	12.0	78	02.3
Peace River Crossing.....	56	13.8	117	15.8	1950.5	28	23.9	78	03.4
Peace River Crossing.....	56	13.8	117	15.8	1958.6	28	00.4	77	52.0
Keg River.....	57	44.9	117	37.8	1952.7	29	58.6	79	01.8
Upper Hay River.....	59	02.4	117	42.1	1952.7	32	35.4	79	42.7
Jasper B.....	52	53.5	118	04.0	1950.6	25	04.5	75	22.2
Jasper C.....	52	53.5	118	04.0	1954.5	24	53.9	75	16.7
Dunvegan.....	55	55.5	118	35.2	1950.5	27	58.2	77	58.2
Dunvegan.....	55	55.5	118	35.2	1952.7	27	42.3	77	59.6
Grande Prairie B.....	55	11.4	118	47.2	1952.7	25	44.7	76	41.7
Grande Prairie B.....	55	11.4	118	47.2	1958.6	25	28.1	76	36.2
Grande Prairie A.....	55	11.5	118	47.4	1952.7	25	44.7	76	42.8
Grande Prairie A.....	55	11.5	118	47.4	1950.5	26	00.9	76	42.7
Midway.....	49	00.5	118	46.8	1953.6	22	27.6	72	06.8
Midway.....	49	00.5	118	46.8	1959.5	22	12.3	71	59.8
Sawmill Bay.....	65	44.2	118	55.6	1949.6	41	47.1	83	19.7
Sicamous B.....	50	50.3	118	58.4	1954.5	23	45.2	73	38.4
Castel Bay.....	74	08.0	119	13.0	1948.6	61	35.3	87	04.6
Vernon.....	50	16.8	119	16.2	1954.6	23	22.0	73	09.3
Kelowna.....	49	53.6	119	28.0	1954.7	23	16.1	72	55.7
Tete Jaune.....	52	58.6	119	29.3	1954.5	25	34.0	75	03.1
Penticton.....	49	29.5	119	35.5	1954.7	23	54.0	72	26.7
Penticton C.....	49	29.5	119	35.5	1959.5	23	41.4	72	20.0

## Magnetic Observations—Continued

Station	Lat.		Long.		Date	Declination Value		Inclination Value North		Horizontal Intensity Value	
	°	'	°	'		°	'	°	'	γ	
<b>East</b>											
Penticton B.....	49	19.0	119	37.5	1959.6	22	38.0	72	10.7	17710	
Penticton Astrophysical Site.....	49	19.0	119	37.5	1961.6	22	32.2	72	07.1	17766	
McBride.....	53	18.1	120	10.0	1954.6	26	08.1	75	00.6	15273	
Dawson Creek, B.....	55	46.8	120	16.7	1958.6	28	31.3	76	45.2	13631	
Kamloops C.....	50	40.8	120	20.0	1954.6	23	35.6	73	03.4	16795	
Dawson Creek A.....	55	45.8	120	23.5	1952.5	29	06.1	76	47.4	13587	
Bridge Lake.....	51	29.0	120	41.4	1954.7	23	44.5	73	44.3	16267	
Fort St. John C.....	56	15.6	120	52.7	1952.7	28	37.7	77	15.9	13144	
Fort St. John C.....	56	15.6	120	52.7	1958.6	28	08.3	77	08.4	13225	
Fort Simpson.....	61	52.3	121	21.0	1958.6	34	01.8	80	39.3	09743	
Hope.....	49	22.8	121	26.6	1954.7	23	44.0	71	57.0	17785	
Hope B.....	49	22.8	121	26.6	1961.4	23	00.5	71	49.6	17875	
Lytton.....	50	14.2	121	34.3	1954.7	24	55.9	72	12.4	17689	
Clinton.....	51	05.5	121	35.4	1954.6	24	44.5	73	10.5	16772	
Clinton.....	51	05.5	121	35.4	1959.6	24	28.4	73	06.0	16834	
Little Prairie.....	55	41.6	121	38.0	1952.7	28	50.1	76	31.4	13931	
Little Prairie.....	55	41.6	121	38.0	1958.6	28	33.3	76	24.8	14000	
De Salis Bay.....	71	29.1	121	42.5	1954.7	52	58.0	85	38.7	04445	
De Salis Bay B.....	71	30.4	121	47.8	1948.6	53	09.4	85	35.9	04515	
Williams Lake.....	52	07.3	122	08.2	1954.6	25	18.0	73	53.0	16258	
Huntingdon BC.....	49	00.0	122	13.7	1954.7	22	20.2	71	26.4	18401	
Huntingdon BC.....	49	00.0	122	13.7	1961.7	21	58.5	71	18.2	18506	
Quesnel B.....	52	58.9	122	31.5	1954.6	26	28.5	74	33.4	15640	
Beaton River.....	57	05.1	122	34.7	1952.6	31	07.4	77	15.3	13151	
Fort Nelson.....	58	49.8	122	35.4	1952.6	32	15.2	78	22.6	11993	
Fort Nelson.....	58	49.8	122	35.4	1958.6	31	49.9	78	15.4	12074	
Prince George South.....	53	54.6	122	45.0	1954.5	26	33.9	74	57.8	15179	
Prince George South.....	53	54.6	122	45.0	1959.6	26	16.4	74	57.5	15172	
Fort McLeod.....	54	56.9	122	59.6	1954.5	27	48.0	75	46.6	14428	
North Vancouver.....	49	19.6	123	05.5	1954.7	23	29.4	71	43.4	18176	
North Vancouver B.....	49	19.6	123	05.5	1961.7	22	32.3	71	35.6	18284	
Alexis Creek.....	52	05.1	123	17.0	1954.6	25	05.4	73	51.6	16133	
Victoria (Mt. Douglas).....	48	29.3	123	19.9	1954.6	23	09.2	70	44.3	18690	
Victoria (Mt. Douglas).....	48	29.3	123	19.9	1959.5	22	49.0	70	39.5	18743	
Galiano Island.....	48	54.3	123	20.6	1959.5	22	53.3	71	01.4	18658	
Victoria (Observatory).....	48	31.1	123	24.8	1954.6	22	56.0	70	47.0	18636	
Victoria (Observatory).....	48	31.1	123	24.8	1958.9	22	43.0	70	44.0	18717	
Victoria (Observatory).....	48	31.1	123	24.8	1959.5	22	46.3	70	46.5	18619	
Nanaimo V.I.....	49	12.8	123	56.2	1954.6	23	52.1	71	04.1	18483	
Nanaimo V.I.....	49	12.8	123	56.2	1959.7	24	15.4	70	59.8	18500	
Vanderhoof.....	54	01.4	123	58.9	1954.6	26	57.1	74	47.6	15244	
Mile 365—Alaska Highway.....	58	40.6	124	01.4	1952.6	30	55.6	77	54.8	12488	
Paulatuk.....	69	21.7	124	05.5	1948.6	53	02.4	83	56.6	06267	
Tatla Lake.....	52	00.2	124	23.2	1954.6	25	16.6	73	17.1	16587	
Fort St. James.....	54	26.5	124	30.0	1954.6	27	43.5	75	04.3	15094	
Courtenay B.....	49	42.0	124	59.2	1954.7	25	04.3	70	57.0	18563	
Courtenay B.....	49	42.0	124	59.2	1959.6	24	18.8	70	52.2	18635	
Burns Lake.....	54	13.6	125	48.0	1954.6	27	30.0	74	14.4	15748	
Alert Bay C.....	50	35.6	125	55.3	1961.4	24	58.8	71	06.7		
Laird River Camp.....	59	24.3	126	05.6	1952.6	33	48.0	77	54.5	12388	
Houston.....	54	24.0	126	39.9	1954.6	27	38.9	74	31.6	15531	
Norman Wells Airport.....	65	17.3	126	47.3	1948.6	38	54.3	81	14.1	09039	
Norman Wells Airport.....	65	17.3	126	47.3	1958.6	37	37.0	81	07.2	09100	
Canso Lake.....	67	38.4	127	06.9	1948.5	41	09.1	82	47.2	07358	
Smithers A.....	54	46.7	127	09.3	1954.6	27	40.7	74	48.5	15261	
Smithers B.....	54	47.4	127	11.2	1959.6	27	08.4	74	52.3	15149	
Lower Post.....	59	55.4	128	29.8	1952.6	33	14.9	77	45.5	12496	
Lower Post.....	59	55.4	128	29.8	1958.6	32	51.8	77	40.3	12600	
Fort Good Hope.....	66	15.5	128	38.3	1958.6	37	58.3	81	33.0	08727	
Anderson River.....	69	44.0	128	58.0	1948.6	45	24.7	83	29.3	06636	
B.C.-Y.T. Boundary.....	60	00.0	132	06.8	1952.6	32	33.0	76	58.4	13188	
B.C.-Y.T. Boundary.....	60	00.0	132	06.8	1958.6	32	15.9	76	55.1	13168	
Ross River.....	61	59.3	132	27.5	1952.6	34	36.4	78	11.4	12021	
Carcross.....	60	09.9	134	42.2	1952.6	31	39.8	76	26.6	13552	
Whitehorse B.....	60	41.8	135	03.3	1952.5	31	28.0	76	59.7	13042	

## Magnetic Observations—Concluded

Station	Lat.		Long.		Date	Declination Value		Inclination Value North		Horizontal Intensity Value	
	°	'	°	'		°	'	°	'	γ	
<b>East</b>											
Whitehorse B.....	60	41.8	135	03.3	1958.6	31	08.5	76	55.0	13110	
Mayo.....	63	36.0	135	53.5	1952.6	34	10.5	78	24.8	11665	
Carmacks.....	62	05.5	136	15.8	1952.6	32	52.4	77	33.1	12457	
Haines Junction.....	60	47.2	137	35.0	1952.5	31	50.2	76	25.9	13443	
McIntosh Lodge.....	60	49.0	137	41.5	1952.6	31	24.4	76	25.2	13452	
Klondike River.....	63	53.4	138	10.4	1952.6	33	23.0	78	15.9	11762	
Dawson.....	64	03.4	139	26.0	1952.5	33	21.7	77	32.8	12582	
Donjek River.....	61	43.4	139	50.0	1952.6	29	55.8	76	23.5	13522	
Snag.....	62	21.4	140	24.0	1952.6	31	37.5	76	43.7	13136	
Mosquito Creek.....	64	04.5	142	04.2	1952.6	31	22.7	77	42.5	12131	
College, Alaska.....	64	52.0	147	50.0	1952.5	28	51.1	77	07.3	12659	

DOMINION OBSERVATORY,

OTTAWA, CANADA.

August, 1963.





