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CANADIAN EARTHQUAKES — 1970

**R.B. Horner, W.G. Milne
and G.A. McMechan**

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CANADIAN EARTHQUAKES - 1970
R.B. Horner, W.G. Milne and G.A. McMechan

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of Canada

OTTAWA, CANADA
Department of Energy, Mines and Resources
Earth Physics Branch
1975

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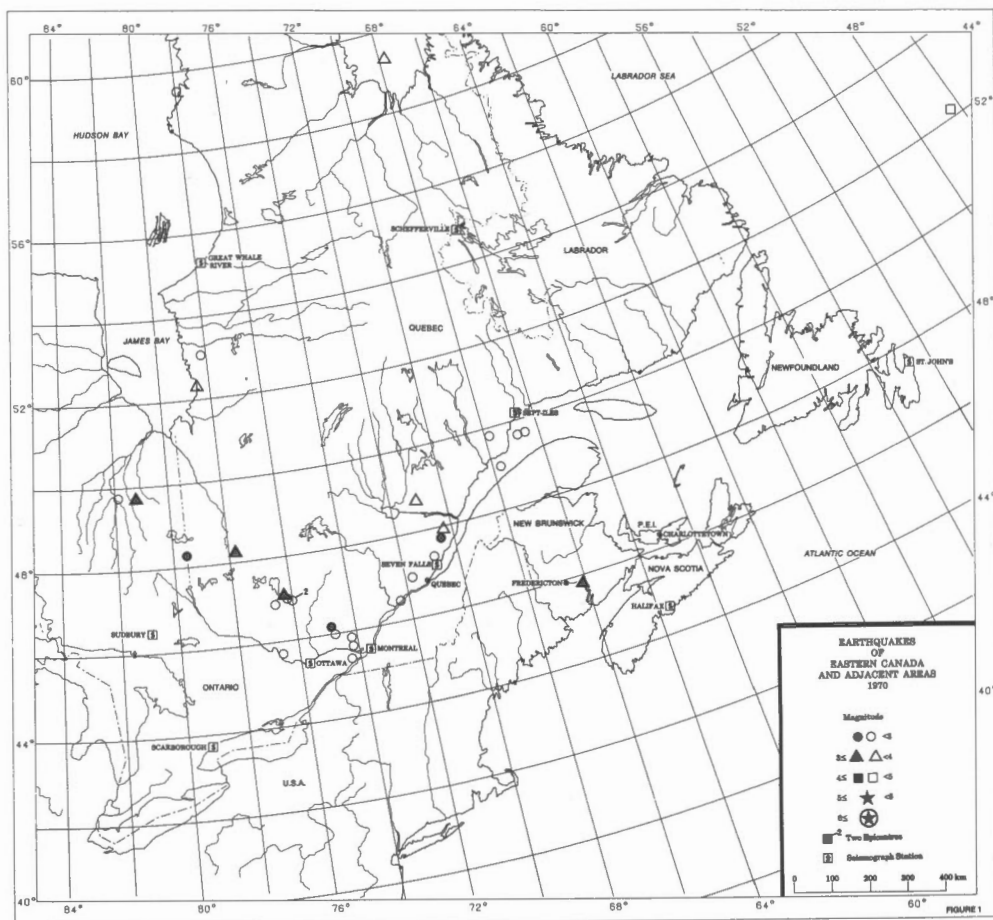


Figure 1. Earthquakes of Eastern Canada and adjacent areas - 1970.

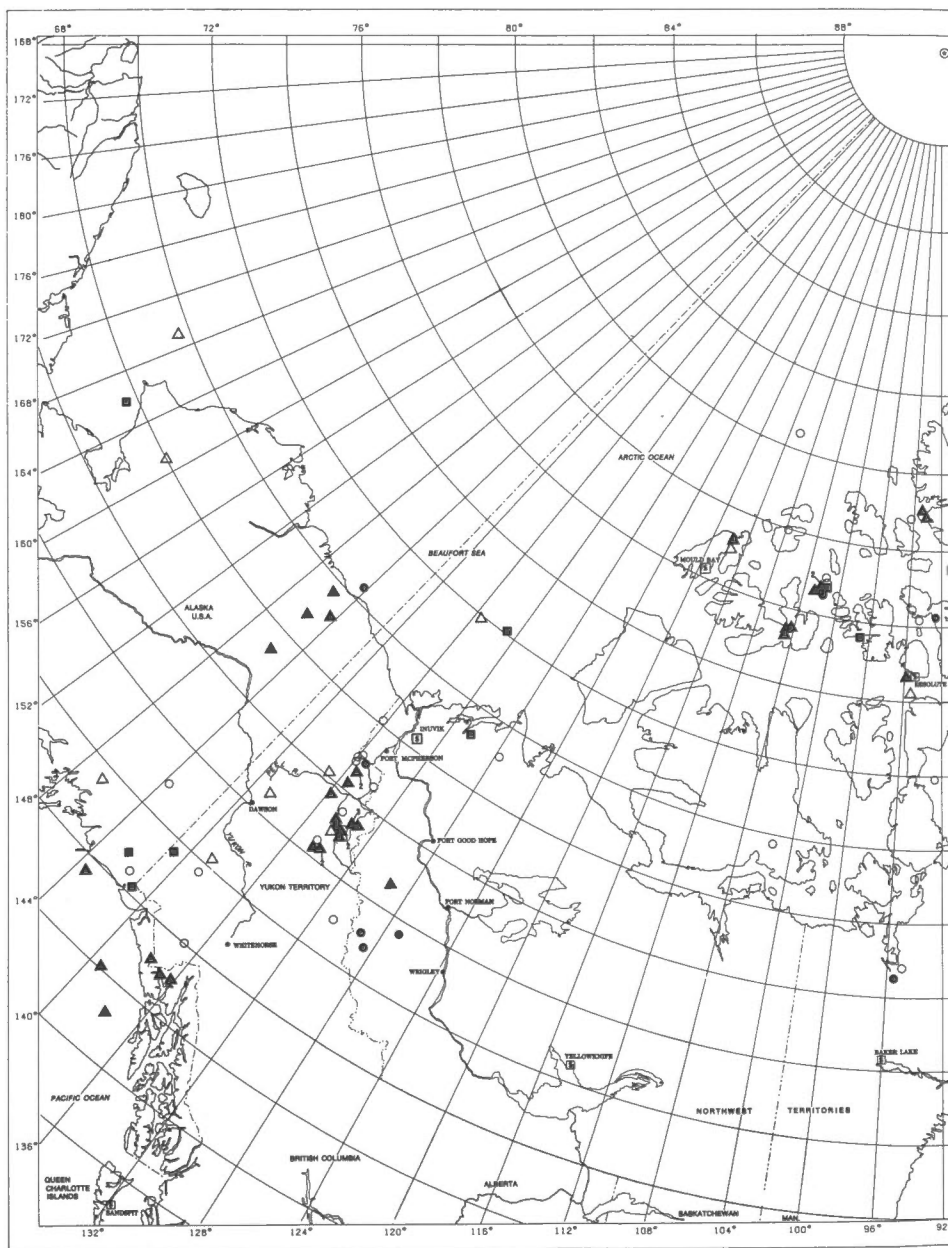


Figure 2. Earthquakes of Northern Canada and adjacent areas - 1970.
(Sheet 1 of 2)

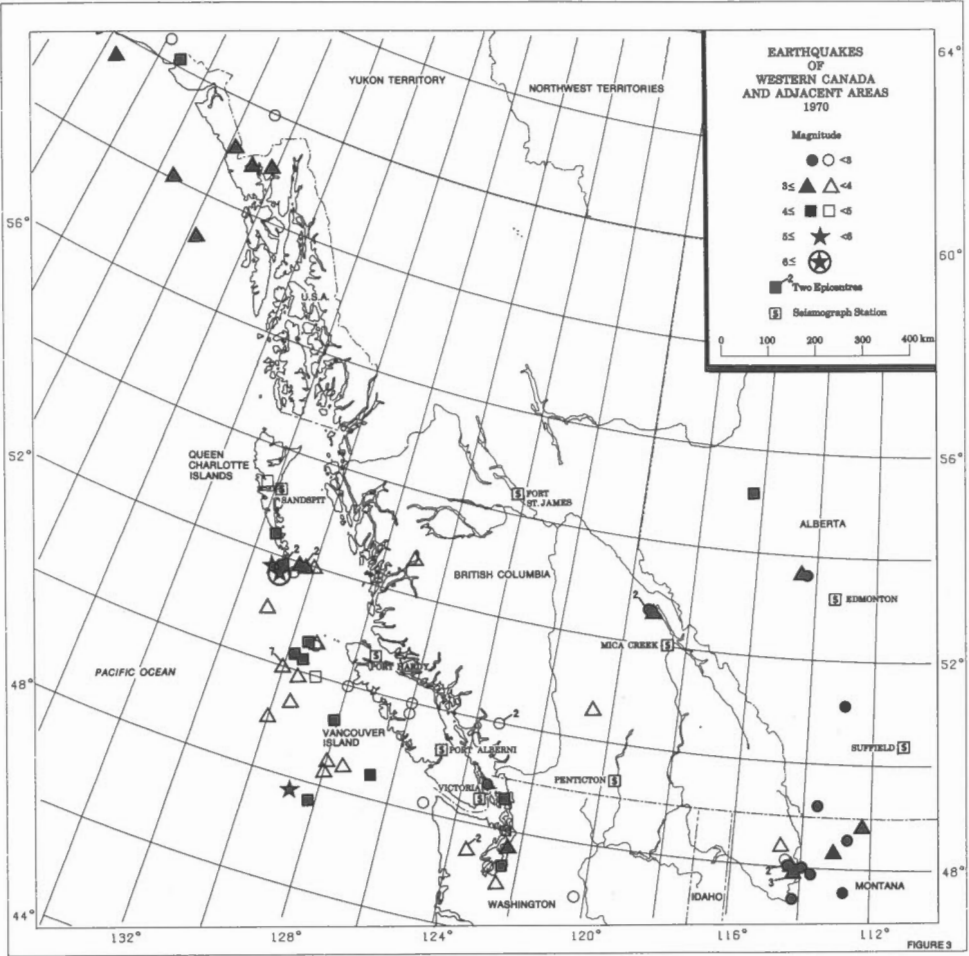


Figure 3. Earthquakes of Western Canada and adjacent areas - 1970.

CANADIAN EARTHQUAKES - 1970

I. Introduction

This catalogue continues the annual lists of earthquakes in Canada as prepared by the Seismology Division, Earth Physics Branch, Department of Energy, Mines and Resources. An enumeration of the previous papers in this series can be found in Appendix 2 of Canadian Earthquakes - 1967 (Stevens *et al.*, 1973) to which should be added Canadian Earthquakes - 1969 (Horner *et al.*, 1974). The preparation and format of the 1970 catalogue follow those of the 1969 catalogue. Eastern, Northern and Central Region events have been analyzed by the Ottawa section of the Seismology Division and Western Region events by the Victoria section of the Seismology Division.

Earthquakes are listed in chronological order for each of the four regions of Canada as shown in Fig. 4. The Eastern, Northern, Western and Central Regions are covered in Tables 1, 2, 3 and 4, respectively. Subsections of these tables contain the earthquakes located outside Canada.

The extension of the Canadian catalogue to include earthquakes offshore and into neighbouring countries is made for two reasons. Earthquakes near the international boundaries may be felt and/or do damage in Canada; thus they must be included in any practical study of Canadian seismicity. Secondly, an understanding of the patterns of Canadian seismicity requires a consideration of the tectonics of neighbouring areas. In addition, the Northern Region map and table contain events beyond its boundaries in northern Alaska and Greenland, which have been located with the Canadian network but for which



Figure 4. The four regions of Canada.

epicentres have not been published by the International Seismological Centre (ISC) or the United States Coast and Geodetic Survey (USCGS). The Canadian records are not systematically read for all such events; however, all events in northern Greenland or off the coast of north or northeastern Greenland located by the ISC are listed in Table 2C.

Tables 1, 2, 3 and 4 list only located earthquakes, while Tables 5 to 22 list unlocated events or those recorded at only one station. Whenever possible an epicentral region for these events is suggested. These lists of unlocated events should not be considered complete. Regional detection of such events is very dependent on instrumental magnification, record quality, noise levels, etc. They are useful in indicating relative regional levels of low magnitude seismic activity.

Epicentres for earthquakes in the Eastern, Northern and Western Regions are plotted in Figures 1, 2 and 3, respectively. Earthquakes located in the Central Region and north-central United States are plotted in Fig. 12. Epicentres for all earthquakes in Canada and adjacent areas during 1970 with magnitude 4 or greater are shown on one map of Canada (Fig. 6).

1. Epicentral Determination

Epicentral solutions are given in this catalogue for Eastern, Northern and Central Region earthquakes, calculated by standard regression techniques applied to earthquakes recorded at regional and near-teleseismic distances. The solutions are based on the arrival times of Pn, Pl, Sn and Lg phases. The travel-time equations used are based on a single-layered crust 36 km thick and assume a focal depth of 18 km, as follows:

$$P_1-H = \Delta/6.20$$

$$Lg-H = \Delta/3.57$$

$$Pn-H = 5.60 + \Delta/8.2$$

$$Sn-H = 9.84 + \Delta/4.7$$

H is the origin time in seconds and Δ is the epicentral distance in kilometres. For a surface focus the Pn and Sn intercepts become 7.50 and 13.12 s, respectively. Unless otherwise stated in the tables, the focal depth has been held fixed at 18 km or half the assumed crustal thickness. Because of a general paucity of data for most earthquakes, especially at very near epicentral distances, and uncertainties in the assumed crustal model, better estimates of focal depth cannot be made at present.

In the tables latitude and longitude are given in decimal degrees and origin time to the nearest second. Standard errors are given for these quantities, as well as the Root-Mean-Square (RMS) residual of the epicentre solution. The RMS residual is a measure of the consistency or the goodness-of-fit of the observed arrival times to the computed epicentre for the selected model. The number of stations and number of phases used in each solution are given as an indication of potential accuracy and to supplement standard error information. It is important to note that standard errors are meant to indicate only precision and not accuracy.

For the Western Region only, epicentres in most cases are located by drawing arcs as described in Canadian Earthquakes - 1966 (Stevens *et al.*, 1972). They are not numerical solutions and no standard errors are given for origin time, latitude or longitude. In a few cases, numerical solutions have been calculated for Western Region earthquakes and standard errors are given.

The quality factors "F" and "O" are presented at the right of each epicentre and represent filled or open symbols, respectively, on the epicentre maps. For events in Eastern, Northern and Central Canada (numerical solutions)

a filled symbol generally represents an earthquake well recorded at a minimum of three stations with a minimum of six phases. The station geometry, in particular, and the RMS value are also considered. For Western Region events (graphical solutions), a filled symbol is meant to indicate an estimated uncertainty of less than 20' latitude.

When available, solutions determined by the ISC and USCGS are also given in the tables. This information is obtained from the 1970 ISC Bulletin, Vol. 1-12. Unless otherwise stated, these epicentres are calculated at a fixed model depth of 33 km. Unrestrained focal depths that result from these calculations should not, in general, be considered accurate; they are not likely more accurate than the general assumption of mid-crustal depths (18 km) assumed in the Canadian epicentre determinations. The ISC and USCGS do not calculate an RMS value but instead calculate the standard deviation of one P observation. This value is given in the tables in the RMS column.

Epicentres occurring within Canada and located by the ISC or USCGS have been recomputed, in most cases, using Canadian data augmented by P arrival times of foreign stations at distances less than 20° obtained from the ISC Bulletin. For earthquakes occurring outside Canada but within the areas shown in Fig. 4, only the ISC and/or USCGS epicentres, in most cases, are presented.

2. Magnitude Determination

The magnitude values, M_L or m_N , given in this catalogue are based on the regional magnitude scales developed by Richter (Gutenberg and Richter, 1956) for California and by Nuttli (1973) for North America east of the Rocky Mountains, respectively. These scales have been applied to Canadian earthquakes as follows:

- A) For earthquakes east of the Cordillera (Eastern, Northern and Central Regions), m_N is calculated from the maximum short-period vertical amplitude of the Lg phase only if the following two conditions hold:

- 1) the epicentral distance is greater than 500 km,
- 2) the period of the maximum amplitude is less than 1.3 seconds (Nuttli derived his magnitude scale only for periods between 0.7 and 1.3 seconds.).

For events in the Yukon large enough to be recorded beyond 500 km, m_N is calculated only at stations to the east on the Shield.

- B) For earthquakes in the Cordillera (Western Region) or in any other region of Canada where m_N cannot be applied, M_L is calculated using the maximum short-period vertical amplitude of the S_1 or Lg phase if the following two conditions hold:

- 1) the epicentral distance is less than 600 km,
- 2) the period of the maximum amplitude is less than 2.0 seconds.

- C) For earthquakes in oceanic areas such as the Beaufort Sea or Baffin Bay or where the propagation path includes a substantial section of oceanic crust, M_L is calculated from the maximum short-period amplitude of the Sn phase over the entire distance range. Because Sn amplitude attenuation is not adequately known, these magnitudes should be considered tentative. In such cases, where Lg is absent and reliable m_b magnitudes have been calculated by ISC or USCGS, only their m_b values are usually given.

The standard deviation of one magnitude value is given in the tables of Eastern, Northern and Central Region earthquakes along with the number of stations used in computing the average magnitude. It is important to note that the standard deviation is simply a measure of the precision of the calculation (the scatter among individual values) and not a measure of the accuracy

of the magnitude value. Similarly, magnitudes given in the tables of unlocated events are quoted to 0.1 unit but do not imply such accuracy.

II. Canadian Seismograph Network

Fig. 5 shows the 29 stations of the Canadian Seismograph Network whose records are used in the preparation of this catalogue. Detailed notes regarding instrumentation and changes in instrument constants, calibrations, etc., can be found in the 1970 Seismological Bulletin (Halliday *et al.*, 1971).

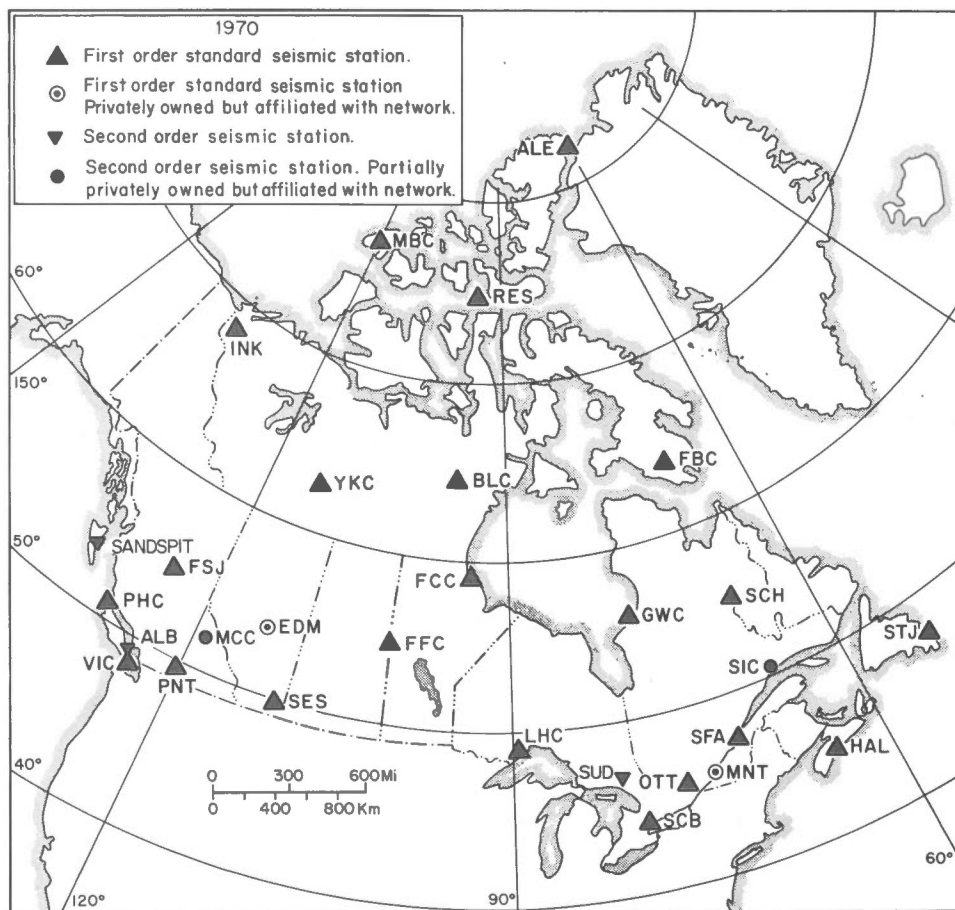


Figure 5. The Canadian Seismograph Network - 1970.

The following international code letters are used as station abbreviations:

ALB	Port Alberni, B.C.	MNT	Montreal, Que.
ALE	Alert, N.W.T.	OTT	Ottawa, Ont.
BLC	Baker Lake, N.W.T.	PHC	Port Hardy, B.C.
EDM	Edmonton, Alta.	PNT	Penticton, B.C.
FBC	Frobisher, N.W.T.	RES	Resolute, N.W.T.
FCC	Fort Churchill, Man.	SCB ¹	Scarborough, Ont.
FFC	Flin Flon, Man.	SCH	Schefferville, Que.
FSJ	Fort St. James, B.C.	SES	Suffield, Alta.
GWC	Great Whale River, Que.	SFA ²	Seven Falls, Que.
HAL	Halifax, N.S.	SIC ³	Sept-Iles, Que.
INK	Inuvik, N.W.T.	STJ	Saint John's, Nfld.
LHC	Thunder Bay, Ont.	SUD	Sudbury, Ont.
MBC	Mould Bay, N.W.T.	VIC	Victoria, B.C.
MCC	Mica Creek, B.C.	YKC	Yellowknife, N.W.T.

¹Intermittent operation during 1970

²Not operational from March 15 to April 5, 1970

³Poor quality records throughout the year

In addition to those stations listed above, a temporary station operated at SANDSPIT (53.25°N, 131.82°W) on the Queen Charlotte Islands from April 25, 1970 to July 23, 1971. It recorded only a single short-period vertical trace.

The magnification levels of the short-period seismographs of the Canadian Seismograph Network during 1970 permitted detection of most events of magnitude $3\frac{1}{2}$ or greater in Canada. In southwestern British Columbia and the upper St. Lawrence Valley area the relatively closer seismograph spacing permitted location of events as small as magnitude 2.

III. Explosions

Seismographs of the network record many construction and mining blasts each year. Ideally, all blasts must be separated from earthquakes so that an accurate knowledge of the natural seismic activity in Canada may be obtained. Some of these blasts may have an equivalent seismic magnitude of 4 or more; these are generally easy to locate and reject. Most blasts, however, are generally much smaller and the distinction on seismograms between blasts and earthquakes can be very difficult, especially when the event is recorded at only one station and not locatable. Consequently, a few of the small unlocated events may be blasts and, on the other hand, some small earthquakes may have been inadvertently rejected as blasts.

IV. Summary of Seismic Activity for 1970

The seismic activity within each of the four regions during 1970 is discussed below. Seven hundred and twenty-eight earthquakes were detected, 274 of these located and, in Canada, 15 were reported felt. The 15 felt earthquakes are summarized in Table 23. The Modified Mercalli Intensity Scale of 1931 is used to classify reports of felt earthquakes.

TABLE 23
A Summary of Earthquakes Reported Felt in Canada during 1970

Date and Time (GMT)	Magnitude	Epicentral Region	Felt Region
18 Feb. 09:23	4.8	Queen Charlotte Islands	Felt on Queen Charlotte Islands.
19 Feb. 04:52	2.5	Southern Vancouver Island	Felt slightly in Victoria.
19 Feb. 08:09	4.0	Queen Charlotte Islands	Felt on Queen Charlotte Islands.
07 March 10:45	2.9	San Juan Islands	Felt in Victoria with intensity III.
08 March 18:52	4.6	West-central Alberta	Felt over 100,000 km ² northwest of Edmonton. Maximum intensity III.
14 April 12:24	3.2	Southern Puget Sound	Felt slightly in Vancouver.
24 June 07:30	4.9	South of Queen Charlotte Islands	Felt on Queen Charlotte Islands.
24 June 13:09	6.7	South of Queen Charlotte Islands	Felt on Queen Charlotte Islands, Vancouver Island and British Columbia mainland. Maximum intensity IV.
08 Aug. 00:10	3.3	Southern New Brunswick	Felt of 13,000 km ² . Maximum intensity III.
16 Nov. 02:41	3.2	South-central British Columbia	SW of Kamloops. Felt over small area with maximum intensity III.
27 Nov. 22:17	3.8	East-central British Columbia	Felt at Valemount with intensity III.
01 Dec. 03:41	2.5	East-central British Columbia	Aftershock, felt at Valemount.
01 Dec. 08:06	2.8	East-central British Columbia	Aftershock, felt at Valemount.
02 Dec. 11:03	4.9	Baffin Island	Felt to distances of 200 km with maximum intensity V. No damage.
02 Dec. 11:22	3.6	Baffin Island	Aftershock, felt at Cape Hooper.

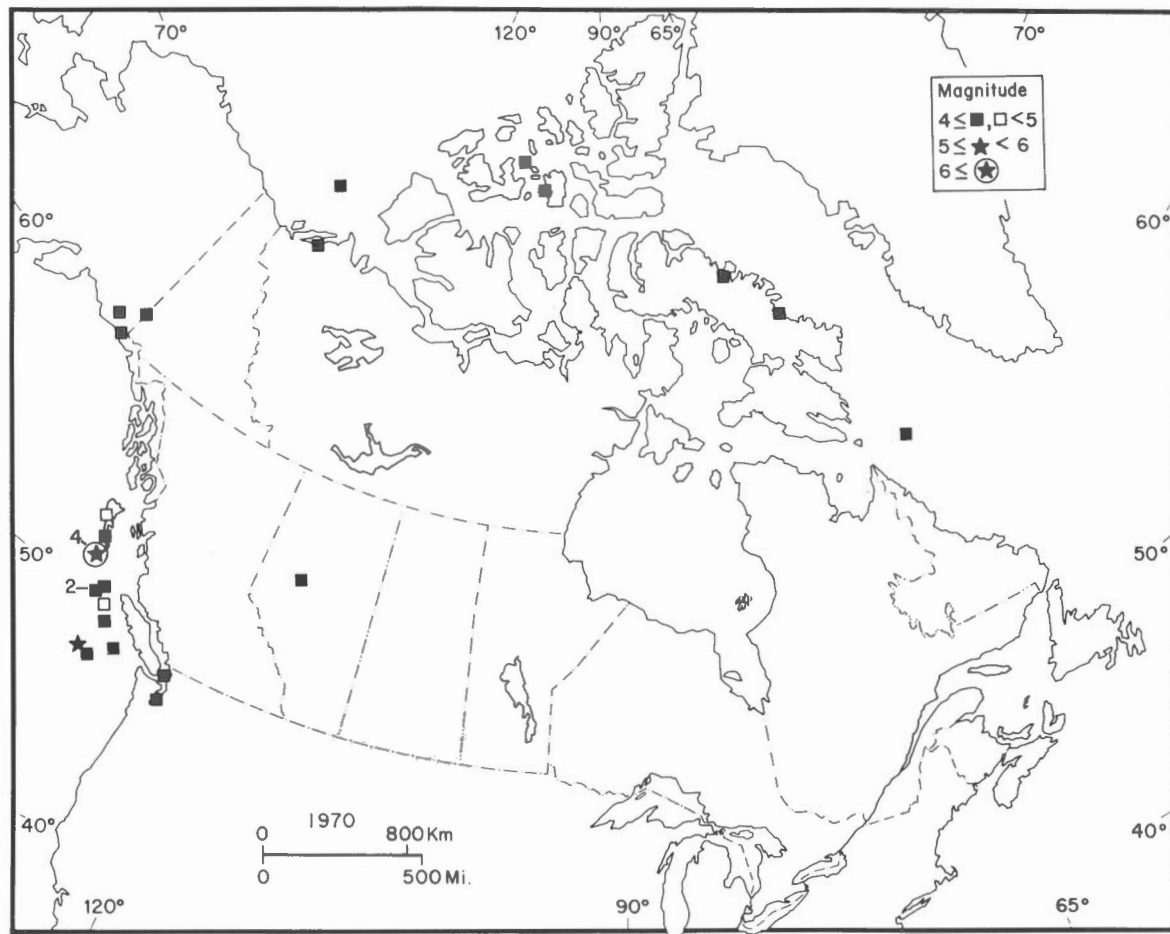


Figure 6. Earthquakes in Canada and adjacent areas during 1970 with magnitude 4 or greater.

Fig. 6 shows 27 earthquakes of magnitude 4 or greater in Canada and adjacent areas in 1970, 10 in the Northern Region and 17 in the Western Region. All of these earthquakes occur in sparsely settled areas or offshore and this explains to a large extent the very few reports of felt earthquakes. The actual "felt area" depends very markedly on local soil conditions, on the radiation pattern from the focus and, most importantly, on the population density within about 200 kilometres of the epicentre. All of these may vary considerably from one earthquake to another.

1. Eastern Region

The Eastern Region lies east of 85°W and includes Canada south of 60°N and the United States north of 40°N . Table 1 lists 31 earthquakes, 30 in Canada and one in the Atlantic Ocean northeast of Newfoundland (Table 1A). As well, six unlocated events occurring in the Eastern Region are listed in Tables 11 to 14. No earthquakes were detected in the northeastern United States in 1970. Epicentres for 31 events are plotted in Fig. 1, which also shows the Canadian seismograph stations in the area. Two events, one in Ungava Bay on 16 August and one on the eastern coast of Hudson Bay on 10 December, are also plotted on the Northern Region map.

Only minor seismic activity was recorded in eastern Canada in 1970 with no events greater than magnitude 3.5. On August 8 at 00h GMT (7 August 21^h ADT) a minor earthquake was felt in southern New Brunswick. This was the only earthquake reported felt in eastern Canada in 1970. The epicentre was located in the St. John River valley about 50 km southeast of Fredericton. The magnitude was M_N 3.3. The size of the felt area and intensities produced by the earthquake were determined from questionnaires sent to post offices throughout southern New Brunswick. The results are shown in Fig. 7.

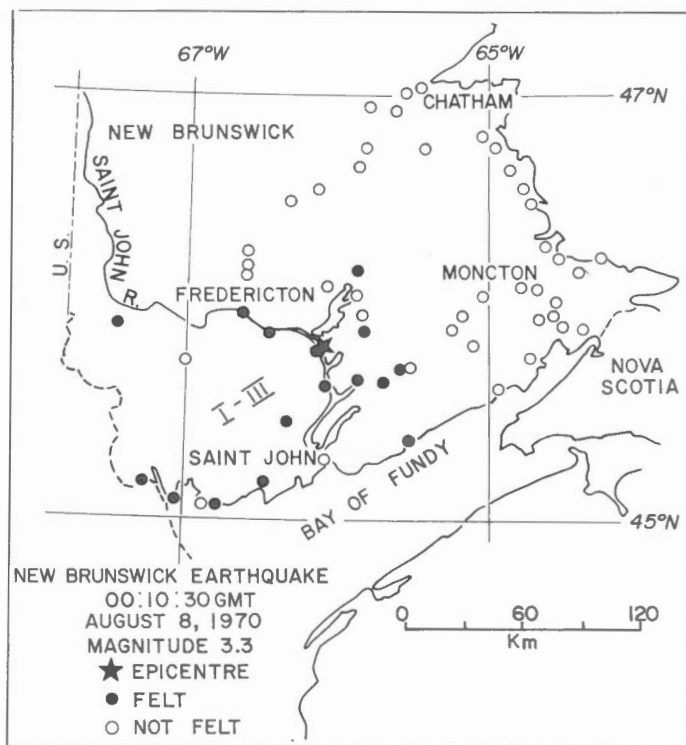


Figure 7. Observed intensities from the New Brunswick earthquake of August 8, 1970.

The earthquake was felt to a maximum distance of about 110 km from the epicentre and over an area of about 13,000 km². Intensities of I to III were reported from throughout the felt area. The felt area is somewhat larger than might be expected from a magnitude 3.3 earthquake in eastern Canada, but it can be seen from Fig. 7 that the localities which experienced the shock lie, for the most part, along the coast of the Bay of Fundy or the St. John River valley. The local soil conditions at these locations may explain why the shock was not felt to equivalent distances to the north and east of the epicentre.

During March and April 1970, about 50 small events of less than magnitude 2 were recorded at SIC. These events were all about 23 km from SIC and were thought to be blasts even though they occurred at all times during the day. They are not listed in this catalogue.

2. Northern Region

The Northern Region lies north of 60°N and extends west into Alaska to 145°W and east into Greenland. Seven events west of 145°W are included since they were located by the Canadian network and epicentres had not been published by the USCGS or the ISC.

Table 2 lists 157 earthquakes, including 13 in Alaska (Table 2B) and 31 in Greenland (Table 2C). Epicentres for these events are plotted in Fig. 2, which also shows the seismograph stations in the Region. In addition, 330 unlocated events are listed by station in chronological order in Tables 5 to 10. Several of these earthquakes are associated with larger located events and, wherever possible, an epicentral region is suggested.

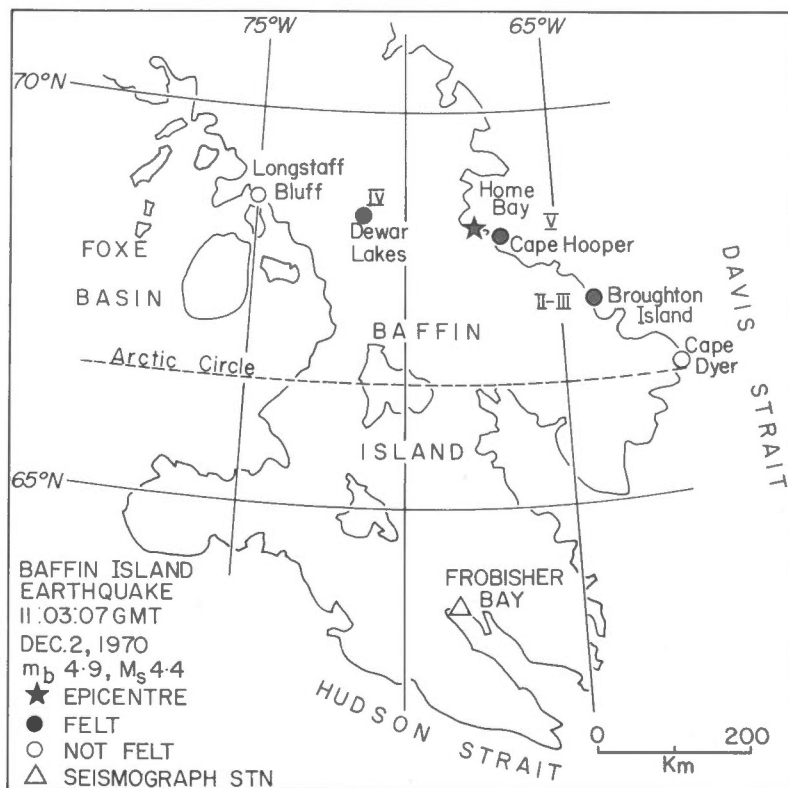


Figure 8. Observed intensities from the Baffin Island earthquake of December 2, 1970.

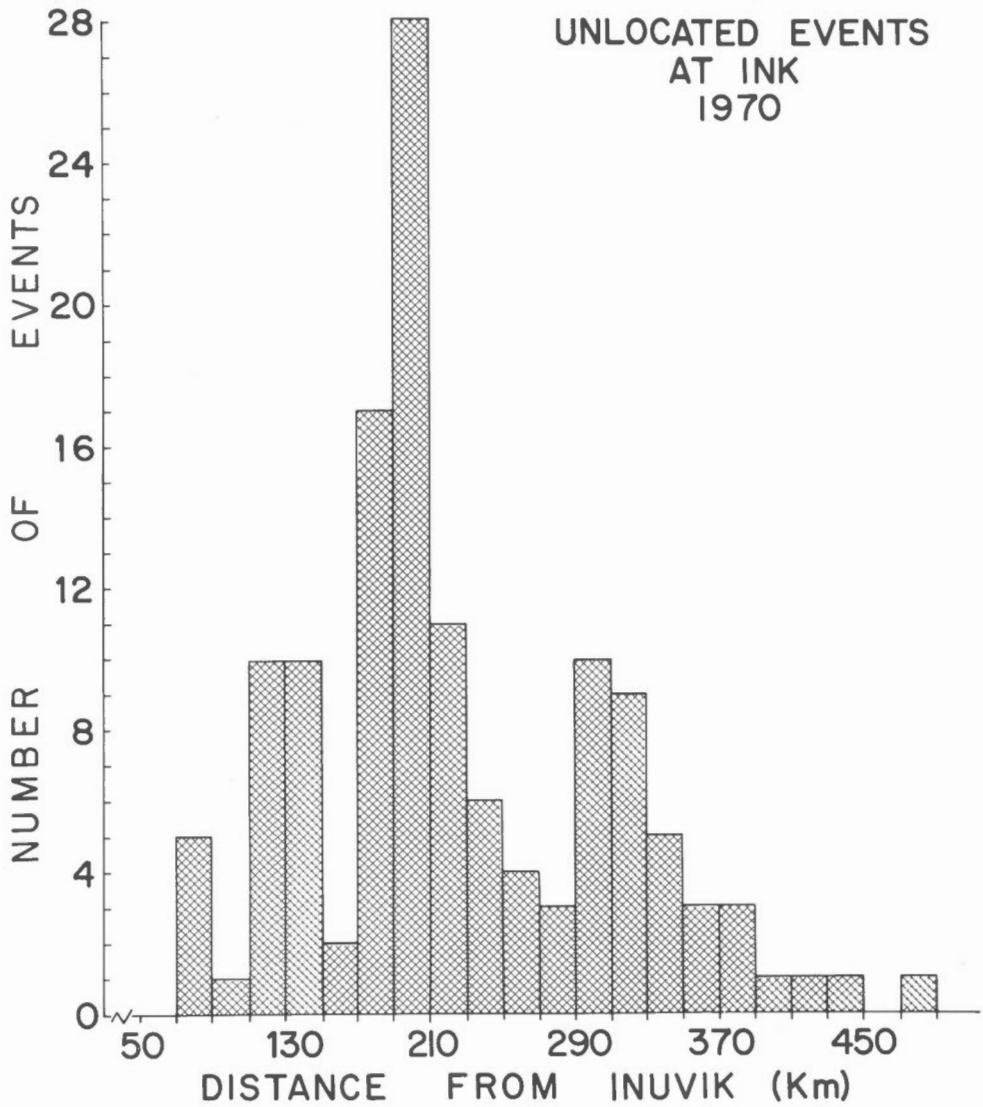


Figure 9. Histogram of unlocated events recorded at INK during 1970.

On December 2 at 11^h GMT, a moderate shock was felt on central Baffin Island. In view of the sparse population and scattered settlement in northern Canada, this is a very rare occurrence. The epicentre was located in Home Bay on the east coast of Baffin Island about 530 kilometres north of Frobisher Bay. The magnitude was $m_b 4.9$, $M_s 4.4$. This was, in fact, the largest earthquake in northern Canada in 1970. The intensities produced by this event are shown in Figure 8. At Cape Hooper, approximately 50 km east of the epicentre, the intensity was V, but there was no apparent damage. At Devon Lakes, approximately 150 km to the west, the intensity was IV and at Broughton Island, approximately 190 km to the southeast, the intensity was II-III. The earthquake was not felt at Longstaff Bluff and Cape Dyer. It appears that the event had a radius of perceptibility of at least 200 km.

The epicentre given for this event was calculated using Pn and Sn arrivals only. The large amplitudes associated with the Sn phase made it difficult to measure Lg onsets accurately. Because of the large number of stations recording this event, the focal depth was allowed to float in the epicentre computation. The depth was calculated to be 9 ± 13 km and indicated, at best, the focus was probably in the top part of the crust. This conclusion was supported by Hashizume (1973), who determined the focal depth to be less than 10 km.

The main shock was preceded by one small foreshock and followed by 62 aftershocks during December, 55 of which were recorded only at FBC (see Table 9). Fifty-two of these aftershocks occurred in the first 36 hours following the main shock. Only one of the aftershocks on December 2 at 11^h23^m GMT was reported felt at Cape Hooper.

During 1970, 144 unlocated events were recorded at INK (see Table 5). This is 31 more than were located in northern Canada (Table 2A) in 1970. This large number of unlocated events, though related to the relatively high level of low magnitude seismic activity in the northern Yukon - Mackenzie Delta area, is also attributable to the closure of CMC in November 1969. Station YKC is too far distant to record this low magnitude activity.

In Table 5, 131 of the 144 events lie between 70 and 490 km from INK. The frequency histogram as a function of distance is shown in Fig. 9. The events are grouped by 20 km intervals to show as much detail as possible within the accuracy of the calculated distances. Most of the events are about magnitude 2. In Fig. 9, 45 of the 131 events, more than 1/3, originate at a distance of 170 to 210 km from INK. The characteristics of this histogram are very similar to one drawn for unlocated events at INK in 1969 (Horner *et al.*, 1974, Fig. 8) and probably the same conclusion can be inferred, namely that most of these events originate from the northern Yukon Territory in an area southwest of Fort McPherson.

3. Western Region

The Western Region lies west of 113°W and includes Canada and Alaska east of 143°W and south of 60°N; Montana, Idaho and Washington State north of approximately 48°N; and the Puget Sound area of Washington State north of 47°N between 121°W and 125°W. However, it is not intended that this is a complete listing of all the earthquakes in the Puget Sound basin. The regional boundary extends westward into the Pacific Ocean between 48°N and 60°N to include earthquakes that are located along tectonic features west of the mainland. In the area which includes the Gulf Islands and the San Juan Islands at the southern end of the Strait of Georgia, the true epicentres of some of the earthquakes that are in the Canadian section of Table 3 may be in the United States, and vice versa. Some of the unlocated events recorded at VIC may also originate in the United States. Earthquakes which occur in the Gulf of Alaska are not included in this catalogue, with the exception of one previously unlocated event on April 16, 09^h GMT (see Table 3B).

Table 3 lists 78 earthquakes, 48 in Canada (Table 3A) and 30 in the United States (Table 3B). Epicentres for these events are plotted in Fig. 3, which also shows the Canadian seismograph stations in the area. Information

on magnitude and felt area for some of the American events (Table 3B) is obtained from United States Earthquakes 1970 (Coffman and von Hake, 1972). In addition, 117 unlocated events are listed by station in chronological order in Tables 16 to 22.

As in other years, the majority of located earthquakes are west of the mainland of British Columbia. Earthquakes continue to occur in northern Montana and these are included in the catalogue since, occasionally, some of these events are of sufficient size as to be felt in Canada.

During 1970, 4 earthquakes located in the area of the Queen Charlotte Islands were felt (see Table 23). The largest and most severe of these occurred on June 24 at 13^h GMT (6^h local time). Fig. 10 is a map showing the distribution of intensities compiled from standard questionnaires distributed throughout the felt area. No observers were within 50 km of the epicentre. The earthquake was felt on the Queen Charlotte Islands, the mainland of British Columbia and the northern end of Vancouver Island. Maximum intensities of IV were reached at several locations on the Queen Charlotte Islands. The earthquake

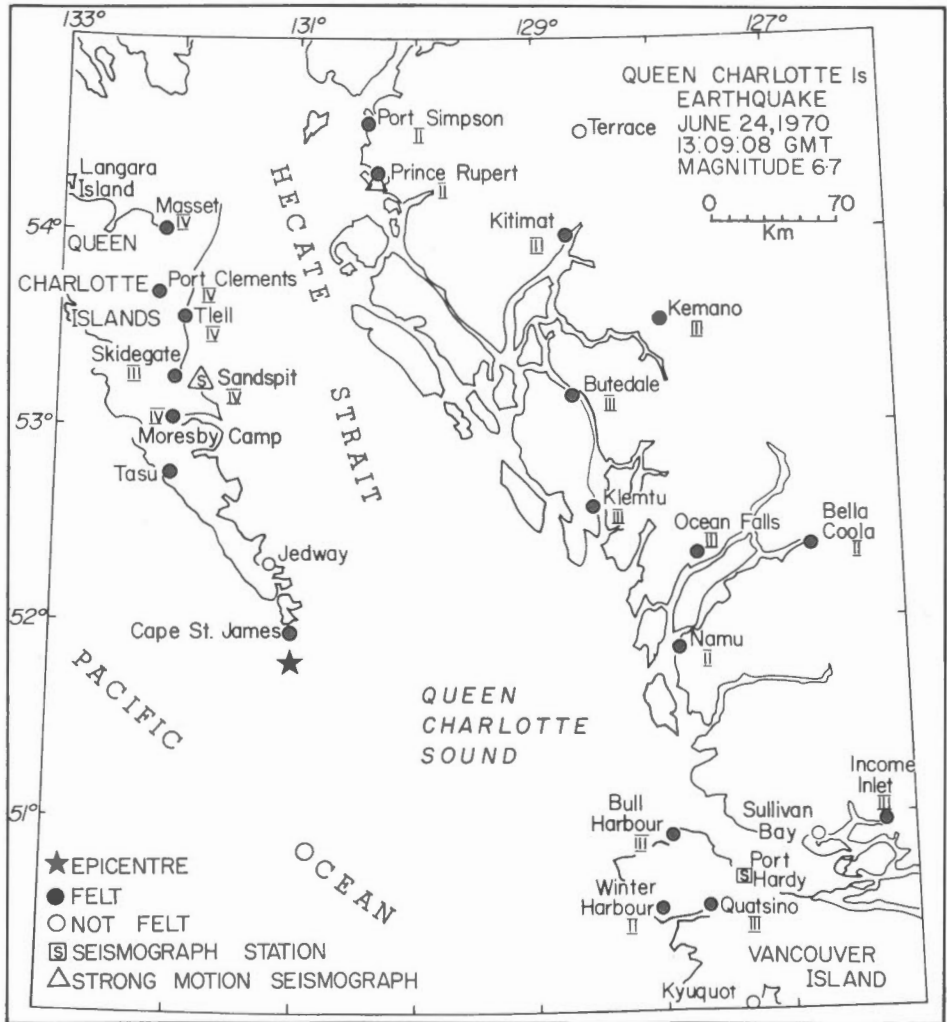


Figure 10. Observed intensities from the Queen Charlotte Islands earthquake of June 24, 1970.

was reported felt to distances of about 350 km from the epicentre. The strong motion accelerograph at Sandspit on the Queen Charlotte Islands was triggered by this event. Peak horizontal acceleration was 4%g, and a description of the accelerogram was given by Milne and Rogers (1971). A slight swell was observed in Tasu Harbour approximately 10 minutes after the earthquake. No damage was reported.

The magnitude of the June 24 event was accepted to be 6.7. This magnitude is an average of USCGS (two stations), Pasadena and Berkeley M_s values of 7.0, 6.5 and 6.2-6.5, respectively. The m_b magnitudes calculated by the ISC and USCGS, 5.7 and 5.6, respectively, were considered too low; this is thought to be true in general of all m_b values calculated for large earthquakes.

On March 8 at 18^h GMT (11^h local time) a magnitude m_N 4.6 earthquake was felt over an area of 100,000 km² in west-central Alberta. The epicentre was near Snipe Lake approximately 270 km northwest of Edmonton. This was the first earthquake ever reported from this area. Maximum intensities of III were

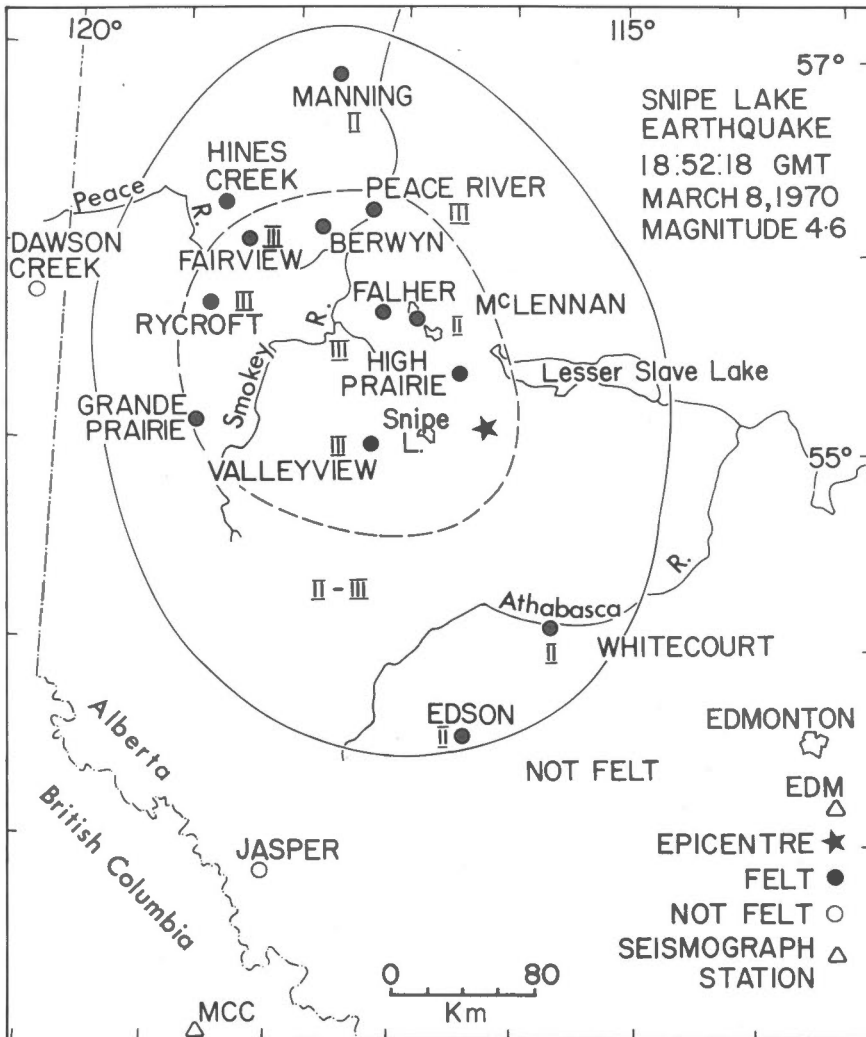


Figure 11. Isoseismal map of the Snipe Lake, Alberta, earthquake of March 8, 1970 (adapted from Milne, 1970).

reached at several localities as shown in Fig. 11. Milne (1970) studied this event in some detail because of the possibility that water injection into a local oil field may have had some triggering effect. The epicentre listed in Table 3A for this event was computed in the standard way as described in Section I.1 and is slightly different from that given by Milne (1970). The difference, though, is not significant.

On November 16 at 2^h GMT (5 November 18^h local time) a magnitude $M_L 3.2$ earthquake was felt at several localities southwest of Kamloops. The tremor was felt slightly in Kamloops, but more severely at Tranquille, Cherry Creek and Savona. No damage was reported and the maximum intensity was near III. There have been earthquakes in this northern Okanagan region in the past; the strongest within historical times was in 1936. It had a magnitude of 4.5 and an epicentre approximately 80 km east of this 1970 earthquake.

The region around Valemont (90 km northwest of the MCC seismograph station) was shaken three times by minor earthquakes in late November and early December 1970. These were unusual events to those residing in the region, although no damage has been reported, with maximum intensities near III. The first event, and largest of the series, $M_N 3.8$, occurred on November 27 at 22^h GMT (14^h local time). The other two occurred on December 1 at 3^h GMT (30 November 19^h local time) and December 1 at 8^h GMT (00^h local time) with magnitudes $M_L 2.5$ and $M_N 2.8$, respectively.

4. Central Region

The Central Region lies north of 49°N and south of 60°N between 85°W and 113°W and includes Saskatchewan, Manitoba and parts of Alberta and Ontario. Table 4 lists 8 events, 2 in Canada (Table 4A) and 6 events in the north-central United States with previously unpublished epicentres. Epicentres for these events are plotted in Fig. 12, which also shows the Canadian seismograph stations in the area. In addition, one unlocated event at SES is listed in Table 15 and is probably an aftershock of the event of April 11, 06^h GMT from north-western Montana.

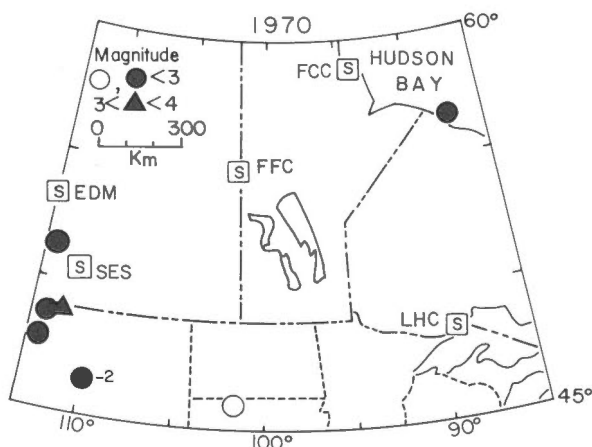


Figure 12. Earthquakes of Central Canada and adjacent areas - 1970.

V. Revisions

1. Northern Region

15 July 12 15 33.6 ISC Vol. 7, No. 7, event 406

This event, located by Hagfors Observatory Stockholm, in Davis Strait, is not recorded at FBC, approximately 800 km west of the calculated epicentre. It is not listed in this catalogue.

08 Sep. 05 33 50 ISC Vol. 7, No. 9, event 230

This event, located by SAAC/LASA in northeastern Greenland, is probably off the coast of northeastern Greenland, approximately 230 km east of NOR. It is listed as an unlocated event in Table 10.

2. Western Region

03 Jan. 19 27 07.9 ISC Vol. 7, No. 1, event 135

09 Jan. 21 55 26.3 ISC Vol. 7, No. 1, event 377

13 Feb. 22 00 23.4 ISC Vol. 7, No. 2, event 390

27 Nov. 22 28 02.0 ISC Vol. 7, No. 11, event 908

These events are probably strip mine explosions near the southeastern B.C.-Alberta border and have not been listed in our Catalogue.

Acknowledgments

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TABLE 1

A. CANADIAN EPICENTRES

DATE 1970	H-TIME (GMT) HR MN SEC	LATITUDE DEG	LONGITUDE DEG	RMS SEC	MAGNITUDE	NO. OF DATA STN PHA MAG			
JAN 21	05 31 27.(3) LOWER ST LAWRENCE RIVER SE OF	49.02 N(0.20)	67.72 W(0.42)	2.2	MN=2.7(0.1)	4	5	2	0
FEB 23	10 14 49.(0) NORTHEAST OF TROIS-RIVIERES	46.47 N(0.01)	72.33 W(0.01)	0.1	ML=2.6(0.2)	3	5	3	0
FEB 27	08 08 36.(1) NEAR VAL-D'OR QUEBEC	48.24 N(0.05)	77.78 W(0.09)	2.0	MN=3.1(0.2)	6	9	3	F
MAR 9	03 11 19.(2) SE OF FT GEORGE, EAST COAST OF JAMES BAY	53.05 N(0.07)	78.23 W(0.12)	0.7	MN=2.3(0.1)	3	4	2	0
MAR 8	15 43 33.(1) NORTHEAST OF BAIE-COMEAU QUEBEC	49.79 N(0.09)	67.84 W(0.16)	1.3	MN=2.4()	3	4	1	0
APR 6	11 29 16.(0) SOUTHWEST OF MONT-TREMBLANT	46.16 N(0.02)	74.84 W(0.02)	0.5	MN=2.8()	4	6	1	F
APR 7	03 35 14.(1) WEST OF NORANDA QUEBEC	48.26 N(0.05)	79.53 W(0.07)	2.0	MN=2.9(0.1)	5	9	3	F
APR 9	00 58 30.(1) NEAR ST JEROME QUEBEC	45.84 N(0.09)	74.21 W(0.07)	1.5	ML=2.3(0.5)	3	5	3	0
APR 13	04 56 53.(0) NORTHEAST OF KAPUSKASING ONTARIO	49.75 N(0.01)	81.88 W(0.02)	0.2	MN=2.6(0.2)	4	4	2	0
APR 14	06 52 13.(1) NEAR BAIE-ST-PAUL QUEBEC	47.31 N(0.02)	70.86 W(0.05)	0.6	MN=2.3()	4	5	1	0
APR 16	00 08 29.(1) WEST OF LA MALBAIE QUEBEC	47.72 N(0.02)	70.47 W(0.07)	0.8	MN=2.7(0.2)	5	6	2	F
APR 19	17 16 39.(2) MOUTH OF ST LAWRENCE RIVER SOUTH OF SIC	49.64 N(0.06)	66.81 W(0.15)	1.2	MN=2.6(0.1)	4	5	2	0
APR 19	17 18 30.(0) MOUTH OF ST LAWRENCE RIVER SOUTH OF SIC	49.65 N(0.00)	66.52 W(0.00)	0.0	MN=2.6(0.1)	3	3	3	0
APR 25	00 46 27.(1) NORTHEAST OF KAPUSKASING ONTARIO	49.70 N(0.05)	81.22 W(0.08)	2.6	MN=3.1(0.2)	6	12	5	F
MAY 12	06 15 18.(2) NORTHWEST OF MANIWAKI QUEBEC	46.88 N(0.08)	76.62 W(0.27)	1.4	ML=2.0()	3	4	1	0
MAY 26	14 16 41.(1) NORTHWEST OF QUEBEC CITY	46.95 N(0.08)	71.75 W(0.06)	0.3	ML=2.0(0.1)	3	4	2	0
JUN 14	05 53 45.(1) NEAR VALLEYFIELD QUEBEC	45.35 N(0.12)	74.31 W(0.05)	0.7	ML=2.2(0.3)	3	5	2	0
AUG 8	00 10 30.(1) SOUTHERN NEW BRUNSWICK EAST OF FREDRICKTON. FELT OVER APPROX. 13,000 SQ. KM. MAXIMUM INTENSITY III. SEE TEXT AND FIGURE 7.	45.80 N(0.04)	66.12 W(0.04)	1.7	MN=3.3(0.3)	9	18	6	F
AUG 16	04 55 57.(1) UNGAVA BAY (ALSO PLOTTED ON NORTHERN REGION MAP)	59.33 N(0.04)	67.74 W(0.15)	0.8	ML=3.3(0.5)	3	5	2	0

DATE 1970	H-TIME (GMT) HR MN SEC	LATITUDE DEG	LONGITUDE DEG	RMS SEC	MAGNITUDE	NO. OF DATA STN PHA MAG			
SEP 7	10 11 17.(2)	45.70 N(0.06)	75.58 W(0.10)	0.7	ML=2.4(0.2)	3	5	2	0
	NORTHWEST OF OTTAWA NEAR SHAWVILLE QUEBEC								
SEP 7	21 39 27.(1)	47.92 N(0.01)	70.30 W(0.05)	0.3	MN=3.2()	4	5	1	0
	NORTH OF LA MALBAIE QUEBEC								
SEP 25	20 37 42.(2)	52.31 N(0.06)	78.49 W(0.17)	1.5	MN=3.1(0.2)	3	5	2	0
	EAST COAST OF JAMES BAY. POSSIBLE AFTERSHOCK ON 26 SEP 16H. SEE TABLE 11								
OCT 3	20 13 38.(0)	46.93 N(0.00)	76.03 W(0.00)	0.0	ML=2.5(0.3)	3	3	3	0
	NORTHWEST OF BASKATONG RESERVOIR								
OCT 9	16 35 01.(2)	48.72 N(0.07)	71.03 W(0.18)	1.6	MN=3.0()	4	5	1	0
	NORTH OF CHICOUTIMI QUEBEC								
OCT 15	18 56 11.(1)	47.07 N(0.04)	76.25 W(0.05)	2.4	MN=3.3(0.2)	8	18	4	F
	NORTHWEST OF BASKATONG RESERVOIR								
OCT 23	01 09 38.(0)	45.64 N(0.02)	74.21 W(0.01)	0.2	ML=2.3(0.4)	3	4	3	0
	WEST OF MONTREAL								
OCT 28	07 32 45.(2)	46.94 N(0.05)	75.96 W(0.07)	0.4	ML=2.2(0.0)	3	4	2	0
	NORTHWEST OF BASKATONG RESERVOIR								
OCT 31	17 44 45.(1)	52.17 N(0.03)	46.37 W(0.11)	0.3	ML=4.3(0.2)	2	4	2	0
	ATLANTIC OCEAN NORTHEAST OF NEWFOUNDLAND								
NOV 24	11 12 12.(4)	46.98 N(0.14)	76.17 W(0.21)	1.1	ML=2.7(0.1)	3	4	2	0
	NORTHWEST OF BASKATONG RESERVOIR								
DEC 10	03 41 00.(1)	59.51 N(0.04)	77.99 W(0.08)	1.5	MN=2.6(0.4)	6	7	5	0
	EAST COAST OF HUDSON BAY. (ALSO PLOTTED ON NORTHERN REGION MAP)								
DEC 13	05 41 50.(1)	45.98 N(0.04)	74.75 W(0.03)	0.4	ML=2.1(0.6)	3	4	3	0
	SOUTHWEST OF MONT TREMBLANT QUEBEC								

B. UNITED STATES EPICENTRES

NO EARTHQUAKES DETECTED IN 1970

TABLE 2

EARTHQUAKES OF NORTHERN CANADA AND ADJACENT AREAS

1970

(F=FILLED, O=OPEN SYMBOL ON EPICENTRE MAPS)

A. CANADIAN EPICENTRES

DATE 1970		H-TIME (GMT)			LATITUDE DEG	LONGITUDE DEG	RMS SEC	MAGNITUDE	NO. OF DATA			
		HR	MN	SEC					STN	PHA	MAG	
JAN	3	03	27	49.(3)	68.91 N(0.13)	69.75 W(0.47)	2.4	MN=2.9(0.3)	3	5	3	0
		HOME BAY, EAST COAST BAFFIN ISLAND										
JAN	27	04	45	11.(1)	66.53 N(0.05)	95.62 W(0.12)	2.2	MN=2.9(0.2)	7	10	6	F
		NORTH OF BAKER LAKE NWT										
FEB	2	05	16	24.(3)	67.85 N(0.07)	65.36 W(0.30)	1.9	MN=3.1(0.3)	5	6	4	F
		HOME BAY, EAST COAST BAFFIN ISLAND										
FEB	2	10	13	49.(0)	70.97 N(0.00)	73.06 W(0.00)	0.0	MN=2.6(0.4)	3	3	3	0
		NORTHERN BAFFIN ISLAND SOUTHWEST OF CAPE ADAIR										
FEB	2	19	38	06.(2)	65.36 N(0.09)	133.61 W(0.23)	1.0	ML=3.2()	2	6	1	0
		SNAKE RIVER, NORTHEASTERN YUKON TERRITORY										
FEB	7	18	17	14.(0)	69.61 N(0.00)	85.53 W(0.00)	0.0	MN=2.7(0.2)	3	3	3	0
		NORTHWEST COAST OF MELVILLE PENINSULA										
FEB	8	15	12	48.(2)	66.18 N(0.07)	135.51 W(0.21)	1.7	MN=3.1()	4	11	1	F
		PEEL RIVER, NORTHERN YUKON TERRITORY										
FEB	14	03	02	47.(1)	72.88 N(0.04)	56.20 W(0.36)	1.2	MN=3.3()	3	6	1	0
		EASTERN BAFFIN BAY OFF GREENLAND COAST										
FEB	16	17	46	27.(0)	76.19 N(0.01)	94.90 W(0.05)	0.0	ML=2.2()	2	4	1	0
		NORTH OF CORNWALLIS ISLAND NWT										
FEB	22	06	47	29.(2)	62.23 N(0.10)	138.82 W(0.17)	1.0	MN=3.0(0.2)	4	5	2	0
		SOUTHWESTERN YUKON TERRITORY										
FEB	26	20	55	34.(1)	62.78 N(0.06)	78.51 W(0.07)	0.8	MN=2.5(0.2)	4	4	2	0
		NORTHEASTERN HUDSON BAY										
FEB	27	20	49	33.(2)	64.24 N(0.08)	134.70 W(0.20)	1.5	ML=3.6()	4	9	1	F
		EAST-CENTRAL YUKON TERRITORY										
MAR	13	01	51	20.(1)	71.93 N(0.04)	92.87 W(0.24)	1.6	MN=2.7(0.3)	5	6	2	0
		GULF OF BOOTHIA NWT										
MAR	22	10	11	41.(2)	77.21 N(0.08)	117.83 W(0.23)	1.5	MN=3.0()	4	9	1	F
		NORTHERN PRINCE PATRICK ISLAND. THIS EVENT IS ASSOCIATED WITH 1 FORESHOCK AND 9 AFTERSHOCKS. SEE TABLE 8										
MAR	28	19	03	21.(4)	76.48 N(0.20)	95.75 W(1.18)	2.7	MN=2.8()	3	7	1	0
		GRINNELL PENINSULA, NE DEVON ISLAND NWT										
MAR	29	15	08	57.(2)	71.00 N(0.08)	73.48 W(0.27)	2.3	MN=3.0(0.4)	4	7	4	F
		NORTHERN BAFFIN ISLAND SW OF CAPE ADAIR										
MAR	29	15	58	49.(1)	78.84 N(0.04)	96.59 W(0.16)	0.2	ML=2.7(0.1)	2	4	2	0
		NORTH OF AMUND RIGNES ISLAND NWT										
APR	2	06	45	42.(1)	64.65 N(0.05)	129.36 W(0.11)	1.8	MN=3.1(0.2)	7	17	3	F
		WEST OF FORT NORMAN NWT										
APR	9	12	24	15.(1)	61.66 N(0.05)	140.69 W(0.09)	2.7	MN=4.0(0.1)	15	28	5	F
ISC		12	24	14.(0)	61.68 N(0.04)	140.47 W(0.07)	1.6	MB=4.3	39	39	3	
USCGS		12	24	15.	61.7 N	140.5 W	1.0	MB=4.1	22	22	5	
		SOUTHWESTERN YUKON TERRITORY										

DATE 1970	H-TIME (GMT) HR MN SEC	LATITUDE DEG	LONGITUDE DEG	RMS SEC	MAGNITUDE	No. OF DATA STN PHA MAG
APR 13	02 38 01.(4)	61.70 N(0.14)	138.88 W(0.24)	1.0	MN=2.7(0.5)	2 4 2 0
	SOUTHWESTERN YUKON TERRITORY					
APR 13	14 25 06.(1)	65.45 N(0.06)	133.11 W(0.12)	2.9	MN=3.3(0.3)	12 24 5 F
ISC	14 25 04.(1)	65.47 N(0.07)	133.0 W(0.14)	2.4		14 14 0
USCGS	14 25 02.	65.3 N	133.1 W	1.5	MB=4.0	10 10 2
	SNAKE RIVER, NORTHEASTERN YUKON TERRITORY					
APR 15	23 16 34.(1)	67.03 N(0.02)	135.93 W(0.06)	0.1	MN=2.2()	2 4 1 0
	SOUTHWEST OF FT MCPHERSON NWT					
APR 22	11 27 01.(1)	80.40 N(0.06)	71.20 W(0.36)	0.8	ML=3.1()	3 7 1 F
	EASTERN COAST ELLESMERE ISLAND. THIS IS THE FIRST EVENT EVER LOCATED IN THIS AREA.					
APR 23	15 59 28.(2)	66.79 N(0.06)	136.00 W(0.25)	1.1	MN=2.5()	2 6 1 0
	NORTHERN YUKON TERRITORY SW OF FT MCPHERSON					
APR 25	12 35 34.(0)	68.41 N(0.00)	67.01 W(0.00)	0.0	MN=2.4(0.1)	3 3 2 0
	HOME BAY, EAST COAST OF BAFFIN ISLAND					
APR 25	12 42 54.(3)	71.69 N(0.11)	74.66 W(0.41)	1.6	MN=2.6(0.3)	4 4 3 0
	BUCHAN GULF, NORTHERN BAFFIN ISLAND					
APR 26	00 44 54.(3)	62.99 N(0.15)	131.07 W(0.27)	1.4	MN=2.1(0.2)	2 5 2 0
	EASTERN YUKON TERRITORY NE OF ROSS RIVER					
APR 28	07 20 21.(1)	72.03 N(0.06)	68.31 W(0.25)	2.6	MN=3.2(0.1)	8 15 4 F
	BAFFIN BAY					
MAY 4	15 14 59.(1)	72.10 N(0.03)	132.95 W(0.16)	0.8	ML=4.0(0.2)	4 8 3 F
	BEAUFORT SEA					
MAY 7	02 32 47.(2)	63.63 N(0.14)	127.25 W(0.19)	2.1	MN=2.7(0.1)	3 10 3 F
	NORTHWEST OF WRIGLEY NWT					
MAY 11	06 48 31.(1)	65.19 N(0.04)	134.62 W(0.12)	1.1	ML=3.4()	5 13 1 F
	BONNET PLUME RIVER, NORTHEASTERN YUKON TERRITORY					
MAY 15	23 29 50.(2)	65.37 N(0.07)	133.76 W(0.18)	1.7	MN=3.1()	5 12 1 F
	SNAKE RIVER, NORTHEASTERN YUKON TERRITORY					
MAY 16	19 14 46.(2)	66.55 N(0.09)	135.52 W(0.26)	2.3	MN=3.0(0.2)	6 12 3 F
	NORTHERN YUKON TERRITORY SW OF FT MCPHERSON					
MAY 19	08 53 21.(1)	60.53 N(0.05)	67.67 W(0.25)	1.9	MN=3.0(0.2)	3 6 2 0
	UNGAVA BAY					
MAY 19	11 32 53.(1)	69.24 N(0.05)	130.59 W(0.17)	1.5	ML=4.0(0.2)	5 9 4 F
	EAST OF TUKTOYAKTUK NWT					
MAY 20	16 17 58.(1)	65.49 N(0.03)	134.65 W(0.09)	0.2	MN=2.6()	2 4 1 0
	BONNET PLUME RIVER, NORTHEASTERN YUKON TERRITORY					
MAY 21	11 35 24.(1)	69.16 N(0.05)	127.82 W(0.13)	0.7	ML=2.7(0.3)	3 4 3 0
	EAST OF TUKTOYAKTUK NWT					
MAY 22	19 21 58.(1)	74.66 N(0.04)	95.94 W(0.14)	2.6	MN=3.5(0.1)	11 23 6 F
	APPROX. 30 KM WEST OF RESOLUTE NWT					
MAY 25	07 14 05.(1)	76.76 N(0.03)	106.22 W(0.14)	1.5	MN=3.3(0.3)	7 16 2 F
	NORTHEAST OF MELVILLE ISLAND NWT FORESHOCK OF EVENT OF 25 MAY 07H					
MAY 25	07 24 10.(1)	76.75 N(0.04)	105.77 W(0.18)	2.5	MN=4.3(0.2)	18 30 5 F
ISC	07 24 09.(1)	76.95 N(0.07)	106.1 W(0.25)	2.1	MB=4.3	28 28 8
USCGS	07 24 10.	77.0 N	106.1 W	0.5	MB=4.3	16 16 10
	NORTHEAST OF MELVILLE ISLAND NWT. MAIN SHOCK					

DATE 1970	H-TIME (GMT)			LATITUDE DEG	LONGITUDE DEG	RMS SEC	MAGNITUDE	NO. OF DATA			
	HR	MN	SEC					STN	PHA	MAG	
MAY 25	13	16	31.(3)	64.46 N(0.13)	134.74 W(0.44)	1.4	ML=2.7()	2	5	1	0
	EAST-CENTRAL YUKON TERRITORY										
MAY 28	12	37	57.(2)	67.24 N(0.06)	68.33 W(0.21)	2.9	MN=3.4(0.2)	7	15	6	F
	CENTRAL BAFFIN ISLAND										
MAY 30	22	04	48.(3)	68.10 N(0.08)	136.38 W(0.34)	1.0	MN=2.3()	3	5	1	0
	WEST OF AKLAVIK NWT										
JUN 4	21	17	02.(1)	65.65 N(0.04)	135.93 W(0.12)	0.9	ML=3.4()	4	10	1	F
	PEEL RIVER, NORTHERN YUKON TERRITORY										
JUN 5	17	02	50.(1)	76.27 N(0.06)	92.91 W(0.46)	2.1	MN=2.8()	4	7	1	F
	NORTHWESTERN DEVON ISLAND NWT										
JUN 5	18	49	56.(2)	76.87 N(0.15)	105.97 W(0.44)	1.2	ML=2.6()	3	4	1	0
	NORTHEAST OF MELVILLE ISLAND NWT										
JUN 8	00	56	59.(1)	76.59 N(0.13)	106.05 W(0.22)	1.5	ML=2.4(0.3)	3	8	2	F
	NORTHEAST OF MELVILLE ISLAND NWT										
JUN 9	22	36	31.(1)	66.89 N(0.03)	136.11 W(0.11)	0.3	MN=2.2()	2	4	1	0
	NORTHERN YUKON TERRITORY SW OF FT MCPHERSON										
JUN 12	07	31	06.(1)	64.39 N(0.09)	87.47 W(0.09)	1.3	ML=3.0()	3	5	1	0
	SOUTH OF WAGER BAY NWT										
JUN 14	21	46	02.(2)	64.35 N(0.08)	134.34 W(0.27)	1.5	ML=3.4()	4	9	1	F
	EAST-CENTRAL YUKON TERRITORY										
JUN 15	06	51	56.(1)	77.00 N(0.11)	117.74 W(0.23)	0.3	ML=3.0()	3	4	1	0
	NORTHERN PRINCE PATRICK ISLAND NWT										
JUN 18	08	21	44.(1)	65.06 N(0.05)	134.30 W(0.18)	1.0	MN=2.8(0.1)	5	11	2	F
	BONNET PLUME RIVER, NORTHEASTERN YUKON TERRITORY										
JUN 20	23	20	20.(3)	71.38 N(0.12)	75.24 W(0.35)	2.9	MN=3.3(0.3)	6	8	4	0
	NORTHERN BAFFIN ISLAND SOUTHEAST OF POND INLET										
JUN 21	21	48	10.(3)	65.32 N(0.14)	133.71 W(0.38)	2.2	ML=3.6()	3	9	1	F
	SNAKE RIVER, NORTHEASTERN YUKON TERRITORY										
JUN 27	09	23	20.(3)	75.46 N(0.16)	72.92 W(0.51)	1.7	MN=2.7(0.1)	3	7	2	F
	NORTHERN BAFFIN BAY										
JUL 1	11	38	10.(1)	77.96 N(0.08)	111.86 W(0.08)	0.2	ML=2.7()	2	4	1	0
	MACKENZIE KING ISLAND NWT										
JUL 3	00	32	36.(1)	60.89 N(0.04)	60.47 W(0.20)	1.2	ML=4.2(0.3)	5	10	5	F
	NORTHWESTERN LABRADOR SEA										
JUL 6	11	48	36.(2)	64.36 N(0.07)	134.59 W(0.20)	1.3	ML=3.5()	5	10	1	F
	EAST-CENTRAL YUKON TERRITORY										
JUL 8	02	57	12.(2)	71.00 N(0.10)	73.30 W(0.38)	2.0	MN=2.8(0.4)	3	5	3	0
	NORTHERN BAFFIN ISLAND SW OF CAPE ADAIR										
JUL 9	03	21	08.(2)	75.93 N(0.04)	87.47 W(0.31)	0.9	MN=3.0()	3	7	1	F
	JONES SOUND, NORTH OF DEVON ISLAND NWT										
JUL 9	07	41	57.(0)	60.51 N(0.01)	69.99 W(0.05)	0.4	MN=2.8()	3	5	1	0
	NORTHERN QUEBEC, WEST COAST OF UNGAVA BAY										
JUL 20	20	14	29.(3)	66.50 N(0.12)	135.35 W(0.28)	2.1	MN=3.2(0.1)	6	9	3	F
	NORTHERN YUKON TERRITORY SW OF FT MCPHERSON. MAIN SHOCK ALSO 2 AFTERSHOCKS - SEE TABLE 5										

DATE 1970	H-TIME (GMT) HR MN SEC	LATITUDE DEG	LONGITUDE DEG	RMS SEC	MAGNITUDE	NO. OF DATA STN PHA MAG
JUL 25	12 56 20.(2)	66.89 N(0.05)	135.37 W(0.18)	0.7	ML=2.8()	3 6 1 F
	NORTHERN YUKON TERRITORY SW OF FT MCPHERSON					
AUG 4	07 22 15.(1)	73.09 N(0.05)	70.26 W(0.25)	1.9	MN=3.1(0.1)	5 9 2 F
	BAFFIN BAY					
AUG 7	09 30 23.(1)	74.47 N(0.05)	73.46 W(0.22)	1.3	ML=3.4(0.1)	5 7 2 F
	BAFFIN BAY					
AUG 14	06 35 44.(1)	65.06 N(0.07)	133.87 W(0.13)	1.3	MN=3.2(0.0)	5 12 2 F
	BONNET PLUME RIVER, NORTHEASTERN YUKON TERRITORY					
AUG 15	01 49 13.(0)	61.49 N(0.00)	77.15 W(0.00)	0.0	MN=2.6(0.3)	3 3 3 O
	NORTHWESTERN QUEBEC					
AUG 21	20 23 49.(2)	60.00 N(0.09)	136.88 W(0.16)	0.8	MN=2.9(0.1)	3 4 2 O
	YUKON - BRITISH COLUMBIA BORDER SW OF WHITEHORSE					
AUG 22	10 43 46.(1)	74.24 N(0.06)	95.42 W(0.39)	1.0	MN=3.1()	3 4 1 O
	BARROW STRAIT NWT					
AUG 26	02 57 40.(2)	65.66 N(0.09)	89.41 W(0.15)	2.5	MN=2.6(0.1)	4 6 2 O
	WAGER BAY NWT					
AUG 29	06 43 18.(1)	75.28 N(0.08)	108.93 W(0.19)	1.4	MN=3.0()	3 6 1 F
	MELVILLE ISLAND NWT. FORESHOCK OF EVENT OF 30 AUG 10H					
AUG 30	10 58 33.(2)	75.53 N(0.09)	108.43 W(0.26)	3.0	MN=3.5(0.3)	6 14 3 F
	MELVILLE ISLAND NWT. MAIN SHOCK					
AUG 30	19 22 49.(1)	75.49 N(0.10)	108.82 W(0.24)	1.7	MN=3.0()	3 6 1 F
	MELVILLE ISLAND NWT. AFTERSHOCK OF EVENT OF 30 AUG 10H					
SEP 6	15 26 02.(0)	80.95 N(0.06)	82.86 W(0.30)	0.9	ML=3.4()	3 8 1 F
	NORTHWESTERN ELLESMERE ISLAND NWT					
SEP 7	14 05 39.(2)	65.04 N(0.12)	133.98 W(0.35)	1.3	MN=3.6()	4 7 1 F
	BONNET PLUME RIVER, NORTHEASTERN YUKON TERRITORY					
SEP 10	20 46 47.(1)	66.54 N(0.04)	133.99 W(0.11)	0.2	ML=2.8()	3 5 1 O
	NORTHEASTERN YUKON TERRITORY SOUTH OF FT MCPHERSON					
SEP 17	01 20 39.(1)	64.89 N(0.07)	133.85 W(0.13)	1.2	MN=3.3(0.1)	5 10 2 F
	BONNET PLUME RIVER, EASTERN YUKON TERRITORY					
SEP 18	15 02 06.(1)	61.59 N(0.06)	77.21 W(0.10)	2.9	MN=3.2(0.2)	5 13 5 F
	NORTHWESTERN QUEBEC					
SEP 30	14 34 17.(0)	70.97 N(0.00)	72.98 W(0.00)	0.0	MN=2.9(0.0)	3 3 2 O
	NORTHERN BAFFIN ISLAND SOUTHWEST OF CAPE ADAIR					
OCT 2	09 14 53.(1)	63.12 N(0.07)	129.24 W(0.13)	0.9	MN=2.7(0.0)	3 8 2 F
	NWT - YUKON BORDER WEST OF WRIGLEY					
OCT 6	08 25 39.(2)	66.10 N(0.08)	136.95 W(0.29)	0.8	ML=3.6()	3 6 1 O
	PEEL RIVER, NORTHERN YUKON TERRITORY					
OCT 10	04 36 43.(3)	71.93 N(0.12)	135.59 W(0.95)	1.6	ML=3.1(0.3)	3 5 3 O
	BEAUFORT SEA					
OCT 15	07 55 08.(2)	80.44 N(0.10)	114.75 W(0.30)	0.4	ML=2.4()	2 4 1 O
	ARCTIC OCEAN NORTHWEST OF ISACHSEN					
OCT 17	14 07 57.(1)	73.12 N(0.07)	69.92 W(0.32)	2.5	MN=3.2()	4 9 1 F
	BAFFIN BAY					
OCT 20	03 10 06.(3)	64.90 N(0.12)	134.33 W(0.78)	1.5	ML=3.5()	3 7 1 O
	BONNET PLUME RIVER, NORTHEASTERN YUKON TERRITORY					

DATE 1970	H-TIME (GMT) HR MN SEC	LATITUDE DEG	LONGITUDE DEG	RMS SEC	MAGNITUDE	NO. OF DATA STN PHA MAG			
OCT 20	17 00 48.(1)	70.96 N(0.04)	73.24 W(0.19)	3.4	MN=4.3(0.2)	14	27	13	F
	NORTHERN BAFFIN ISLAND SOUTHWEST OF CAPE ADAIR								
OCT 28	02 07 34.(4)	62.82 N(0.19)	128.66 W(0.33)	2.2	MN=2.7(0.2)	3	7	2	F
	WEST OF WRIGLEY MNT								
NOV 1	13 02 09.(3)	68.37 N(0.09)	67.89 W(0.26)	2.6	MN=3.4(0.1)	7	9	6	F
	HOME BAY, EAST COAST OF BAFFIN ISLAND								
NOV 7	07 15 07.(1)	79.05 N(0.06)	95.04 W(0.43)	1.8	ML=3.3()	3	7	1	F
	NORTHEAST OF AMUND RIGNES ISLAND NWT								
NOV 11	17 01 35.(1)	72.84 N(0.02)	90.20 W(0.35)	0.6	MN=3.1()	3	6	1	F
	PRINCE REGENT INLET NWT								
NOV 14	23 02 06.(2)	67.66 N(0.07)	67.01 W(0.31)	1.4	MN=3.1(0.6)	3	5	2	O
	CUMBERLAND PENINSULA, CENTRAL BAFFIN ISLAND								
NOV 17	20 16 36.(2)	69.24 N(0.10)	94.35 W(0.39)	2.3	MN=2.7(0.2)	4	4	3	O
	NEAR SPENCE BAY NWT								
NOV 20	02 29 17.(1)	76.84 N(0.05)	106.40 W(0.23)	1.9	MN=3.4()	4	10	1	F
	NORTHEAST OF MELVILLE ISLAND NWT								
NOV 20	05 12 42.(1)	78.89 N(0.06)	94.50 W(0.45)	2.1	MN=3.1()	4	8	1	F
	SOUTHWEST COAST OF AXEL HEIBERG ISLAND NWT								
NOV 20	17 46 45.(1)	76.63 N(0.07)	106.70 W(0.17)	1.1	MN=3.2()	3	7	1	F
	NORTHEAST OF MELVILLE ISLAND NWT								
NOV 25	19 10 12.(2)	66.83 N(0.06)	95.11 W(0.32)	2.2	ML=2.6()	3	6	1	O
	NORTH OF BAKER LAKE NEAR CHANTRY INLET NWT								
NOV 26	07 57 36.(0)	72.21 N(0.00)	76.06 W(0.00)	0.0	MN=2.8(0.1)	3	3	3	O
	NORTHERN BAFFIN ISLAND SE OF POND INLET								
DEC 2	11 03 07.(2)	68.50 N(0.03)	67.66 W(0.12)	2.0	MS=4.4(0.1)	22	38	3	F
	DEPTH CALCULATED TO BE 9 +/- 13 KM								
ISC	11 03 10.(0)	68.50 N(0.04)	67.55 W(0.09)	2.3	MB=4.9	142	142	19	
USCGS	11 03 10.	68.4 N	67.4 W	0.9	MB=4.9	40	40	11	
	ISC AND USCGS GIVE DEPTH = 27 KM								
	HOME BAY, EAST COAST OF BAFFIN ISLAND. MAIN SHOCK.								
	FELT ON CENTRAL BAFFIN ISLAND WITH MAXIMUM INTENSITY								
	V AT CAPE HOOPER. NO DAMAGE. SEE TEXT AND FIGURE 8.								
	THIS EVENT IS ASSOCIATED WITH 1 SMALL FORESHOCK AND								
	62 AFTERSHOCKS DURING DECEMBER. SEE TABLE 9. THE FIRST								
	AFTERSHOCK ON 02 DEC 11H WAS FELT AT CAPE HOOPER.								
DEC 3	06 06 56.(1)	78.98 N(0.06)	94.95 W(0.33)	0.5	ML=2.7()	2	5	1	O
	SOUTHEASTERN COAST OF AXEL HEIBERG ISLAND NWT								
DEC 4	05 24 19.(2)	68.26 N(0.06)	68.99 W(0.24)	2.0	MN=3.1(0.3)	4	7	4	O
	HOME BAY, EAST COAST OF BAFFIN ISLAND								
DEC 5	17 29 11.(3)	68.41 N(0.12)	68.58 W(0.42)	3.0	MN=3.2(0.3)	4	6	4	O
	HOME BAY, EAST COAST OF BAFFIN ISLAND								
DEC 7	00 20 53.(2)	68.34 N(0.06)	68.32 W(0.26)	2.4	MN=3.3(0.2)	7	9	7	O
	HOME BAY, EAST COAST OF BAFFIN ISLAND								
DEC 7	05 16 38.(1)	68.42 N(0.01)	68.01 W(0.05)	0.3	MN=2.7(0.3)	5	5	3	O
	HOME BAY, EAST COAST OF BAFFIN ISLAND								
DEC 8	08 33 01.(3)	77.01 N(0.34)	106.03 W(0.41)	1.6	ML=2.4(0.3)	2	6	2	O
	NORTHEAST OF MELVILLE ISLAND NWT								
DEC 10	10 57 05.(1)	68.42 N(0.04)	68.14 W(0.17)	2.1	MN=3.4(0.2)	7	15	7	F
	HOME BAY, EAST COAST OF BAFFIN ISLAND								

DATE 1970	H-TIME (GMT) HR MN SEC	LATITUDE DEG	LONGITUDE DEG	RMS SEC	MAGNITUDE	NO. OF DATA			
						STN	PHA	MAG	
DEC 12	06 53 53.(1)	63.61 N(0.03)	81.07 W(0.08)	1.7	MN=3.0(0.3)	7	10	7	F
	SE COAST OF SOUTHAMPTON ISLAND IN NORTHERN HUDSON BAY								
DEC 15	17 37 49.(1)	74.38 N(0.04)	88.78 W(0.18)	1.4	MN=2.9(0.1)	6	12	3	F
	SOUTHERN DEVON ISLAND NWT								
DEC 19	03 01 46.(4)	68.70 N(0.10)	67.93 W(0.41)	2.2	MN=2.8(0.2)	4	5	4	O
	HOME BAY, EAST COAST OF BAFFIN ISLAND								
DEC 19	09 34 45.(2)	69.75 N(0.07)	105.61 W(0.32)	2.6	MN=2.8(0.2)	5	6	3	O
	SOUTHERN VICTORIA ISLAND NWT								
DEC 19	15 24 16.(0)	64.60 N(0.01)	138.94 W(0.08)	0.2	ML=3.8()	2	5	1	O
	NORTH OF DAWSON, YUKON TERRITORY								
DEC 24	11 24 11.(1)	65.09 N(0.06)	133.90 W(0.30)	0.5	ML=2.9()	2	5	1	O
	BONNET PLUME RIVER, NORTHEASTERN YUKON TERRITORY								
DEC 24	12 19 48.(1)	75.61 N(0.04)	101.11 W(0.17)	2.8	MN=4.0(0.1)	13	29	8	F
	BATHURST ISLAND NWT. MAIN SHOCK. THERE ARE 3 AFTERSHOCKS RECORDED ONLY AT RES. SEE TABLE 7								
DEC 29	12 58 22.(2)	68.40 N(0.05)	68.17 W(0.20)	2.3	MN=3.3(0.3)	7	12	7	F
	HOME BAY, EAST COAST OF BAFFIN ISLAND								

B. UNITED STATES EPICENTRES

FEB 4	09 21 16.(2)	69.68 N(0.09)	145.81 W(0.35)	1.7	ML=3.6()	4	9	1	F
	NORTHEASTERN ALASKA								
FEB 10	13 57 40.(2)	69.71 N(0.11)	169.20 W(0.36)	0.9	ML=3.9(0.0)	3	5	2	O
	CHUKCHEE SEA, OFF NW COAST OF ALASKA								
FEB 12	06 11 30.(2)	67.67 N(0.14)	166.06 W(0.44)	1.8	ML=4.4(0.2)	5	8	3	F
	CHUKCHEE SEA, OFF NW COAST OF ALASKA								
MAY 24	04 11 01.(0)	62.87 N(0.01)	143.71 W(0.03)	0.1	MN=2.9(0.2)	2	4	2	O
	SOUTHEASTERN ALASKA								
JUN 2	00 01 58.(0)	60.44 N(0.00)	141.85 W(0.00)	0.0	MN=2.9()	2	3	1	O
	SOUTHEASTERN ALASKA								
JUN 23	08 22 41.(2)	67.97 N(0.10)	161.19 W(0.30)	1.0	ML=3.8(0.0)	3	6	3	O
	NORTHWESTERN ALASKA								
JUL 10	03 35 21.(1)	70.36 N(0.04)	144.42 W(0.25)	0.6	ML=2.9()	3	6	1	F
	OFF NORTHEASTERN COAST OF ALASKA								
AUG 12	12 21 23.(3)	68.75 N(0.15)	145.87 W(0.44)	2.4	ML=3.5()	4	8	1	F
	NORTHEASTERN ALASKA								
AUG 21	11 58 50.(0)	60.77 N(0.04)	142.60 W(0.08)	1.8	MB=4.5	55	55	6	F
ISC	11 58 50.	60.8 N	142.5 W	0.9	MB=4.5	31	31	6	
USCGS	ISC AND USCGS GIVE DEPTH = 14 KM								
	SOUTHEASTERN ALASKA								
AUG 25	03 19 25.(2)	69.16 N(0.08)	144.54 W(0.28)	1.2	ML=3.2()	3	7	1	F
	NORTHEASTERN ALASKA								
SEP 06	15 43 19.(2)	60.17 N(0.03)	141.14 W(0.06)	1.2	MB=4.7	48	48	7	F
ISC	15 43 18.	60.1 N	141.2 W	1.0	MB=4.7	26	26	9	
USCGS	ISC GIVES DEPTH = 6 +/- 12 KM								
	USCGS GIVES DEPTH = 5 KM								
	SOUTHEASTERN ALASKA								
SEP 12	13 34 26.(2)	67.38 N(0.09)	145.74 W(0.23)	1.3	MN=3.2()	3	7	1	F
	NORTHEASTERN ALASKA								

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OCT 26	14 26 39.(3) SOUTHERN ALASKA	61.64 N(0.18)	146.58 W(0.62)	1.6	MN=3.3()	3	5	1	0
C. GREENLAND EPICENTRES									
JAN 5	04 20 02.(3) ISC 04 20 05.(1) USCGS 04 20 05. NORTHWEST OF SPITZBERGEN	82.12 N(0.11) 81.52 N(0.10) 81.6 N	1.97 W(1.38) 5.7 W(0.60) 4.4 W	2.8 2.2 1.4	MB=4.6 MB=4.3	7 22 13	11 22 13	0 4 6	F
JAN 21	17 11 55.(2) NORTHEASTERN GREENLAND	79.43 N(0.11)	21.02 W(0.68)	1.4	MN=3.3(0.0)	3	7	2	F
FEB 12	05 11 18.(2) ISC 05 11 18.(1) USCGS 05 11 19. NORTHERN GREENLAND SEA	80.92 N(0.07) 80.8 N(0.13) 80.8 N	5.69 W(0.92) 5.1 W(0.74) 5.2 W	2.2 3.0 0.8	MB=4.5 MB=4.5	7 31 19	12 31 19	0 7 9	F
FEB 16	02 30 52.(2) ISC 02 30 49.(1) USCGS 02 30 49. NORTHERN GREENLAND SEA	80.05 N(0.12) 80.6 N(0.17) 80.4 N	5.50 W(1.13) 0.9 W(0.84) 2.1 W	1.7 1.7 1.1	MB=4.5 MB=4.3	6 16 6	9 16 6	0 4 4	F
MAR 2	06 07 20.(2) NORTH OF SPITZBERGEN	84.75 N(0.20)	4.07 E(0.76)	0.4	ML=3.7()	3	4	1	0
APR 11	ISC 03 27 04.(1) ISC GIVES DEPTH = 0 KM GREENLAND SEA	79.3 N(0.31)	3 E(2.0)	2.8	ML=3.5	10	10	0	F
APR 13	06 22 35.(3) NORTHEASTERN COAST OF GREENLAND	82.22 N(0.32)	18.75 W(1.53)	1.8	MN=3.0(0.0)	3	7	2	0
APR 27	13 46 44.(1) ISC 13 46 38.(0) USCGS 13 46 38. ISC AND USCGS GIVE DEPTH = 4 KM NORTHERN GREENLAND SEA	80.47 N(0.13) 80.2 N(0.12) 80.0 N	1.62 W(0.87) 0.8 W(0.66) 1.6 W	0.9 1.8 0.9	MB=4.4 MB=4.1	7 20 14	10 20 14	0 3 5	F
MAY 3	09 07 46.(3) NORTHWESTERN GREENLAND	80.94 N(0.08)	55.12 W(0.93)	1.4	ML=2.7()	3	6	1	F
MAY 03	ISC 10 58 03.(1) USCGS 10 58 04. GREENLAND SEA	79.66 N(0.09) 79.7 N	2.4 E(0.55) 3.5 E	2.7 1.0	MB=3.9 MB=4.1	25 13	25 13	4 6	F
MAY 5	09 38 37.(3) NORTH OF SPITZBERGEN	84.91 N(0.17)	3.97 E(2.20)	1.7	ML=3.7(0.2)	4	6	2	F
MAY 10	ISC 05 52 39.(1) USCGS 05 52 40. OFF NORTHEAST COAST OF GREENLAND	81.46 N(0.09) 81.5 N	5.2 W(0.52) 4.7 W	2.9 1.4	MB=4.4 MB=4.4	32 11	32 11	3 5	F
MAY 11	15 56 03.(3) ISC 15 56 03.(1) USCGS 15 56 00. OFF NORTHEAST COAST OF GREENLAND	82.29 N(0.09) 82.3 N(0.20) 82.7 N	8.83 W(1.22) 10 W(1.0) 7.3 W	2.7 4.1 1.4	ML=4.1(0.1) MB=4.6	6 18 6	12 18 6	2 0 3	F
MAY 11	20 43 13.(2) NORTHERN GREENLAND SEA	79.77 N(0.14)	8.72 W(0.76)	1.0	ML=3.6(0.2)	3	6	2	F
MAY 14	22 06 11.(5) NORTHEASTERN COAST OF GREENLAND	80.51 N(0.40)	16.34 W(0.94)	2.0	ML=3.4()	3	5	1	0
MAY 19	ISC 02 07 41.(0) USCGS 02 07 42. ISC GIVES DEPTH = 25 +/- 0 KM GREENLAND SEA	79.16 N(0.04) 79.2 N	2.3 E(0.21) 2.5 E	1.6 1.2	MB=4.5 MB=4.8	58 24	58 24	11 13	F

DATE 1970	H-TIME (GMT) HR MN SEC	LATITUDE DEG	LONGITUDE DEG	RMS SEC	MAGNITUDE	NO. OF DATA STN PHA MAG			
MAY 31	06 50 25.(1)	81.81 N(0.41)	25.96 W(0.65)	1.6	ML=3.1()	3	6	1	0
	NORTHERN COAST OF GREENLAND								
JUN 9	11 45 27.(0)	78.91 N(0.00)	58.38 W(0.00)	0.0	ML=2.8(0.2)	2	3	2	0
	NORTHWESTERN GREENLAND								
AUG 16	11 56 08.(4)	79.25 N(0.20)	19.20 W(0.54)	1.2	ML=3.7()	3	5	1	
	NORTHEAST COAST OF GREENLAND								
AUG 19 ISC	06 06 25.(2)	81.9 N(0.14)	7 W(1.0)	1.7	ML=3.3	4	4	0	0
	OFF NORTHEAST COAST OF GREENLAND								
SEP 24 ISC USCGS	18 39 25.(1)	79.89 N(0.25)	4.64 E(1.20)	1.8		6	8	0	F
	18 39 25.(0)	79.85 N(0.09)	5.0 E(0.55)	1.4	MB=4.5	24	24	6	
	18 39 24.	79.9 N	5.1 E	1.2	MB=4.6	9	9	6	
	NORTHERN GREENLAND SEA								
OCT 2	05 29 39.(2)	82.53 N(0.29)	24.53 W(1.02)	1.5	ML=3.6()	3	7	1	0
	NORTHERN COAST OF GREENLAND								
OCT 15	19 23 17.(1)	79.69 N(0.10)	4.60 W(0.53)	0.5	ML=4.1(0.1)	3	6	2	F
	NORTHERN GREENLAND SEA								
OCT 26 ISC USCGS	20 53 33.(0)	79.80 N(0.02)	2.9 E(0.11)	1.4	MB=5.6	266	266	46	F
	20 53 32.	79.8 N	2.7 E	0.9	MB=5.6	123	123	39	
	USCGS GIVES DEPTH = 32 KM								
	ISC GIVES DEPTH = 34 +/- 1 KM								
	NORTHERN GREENLAND SEA								
OCT 26	23 11 58.(2)	79.38 N(0.27)	0.69 E(1.51)	0.8	ML=4.2(0.2)	3	5	2	0
	NORTHERN GREENLAND SEA								
NOV 10 ISC	06 44 27.(1)	79.17 N(0.17)	4.54 E(0.55)	0.4	ML=4.7()	3	5	1	0
	06 44 24.(1)	79.3 N(0.22)	4 E(1.2)	3.6		7	7	0	
	ISC GIVES DEPTH = 0 KM								
	NORTHERN GREENLAND SEA								
NOV 10 ISC	16 11 00.(1)	79.19 N(0.13)	4.59 E(0.45)	0.3	ML=4.7()	3	5	1	0
	16 10 56.(1)	79.1 N(0.11)	4.1 E(0.48)	1.8		8	8	0	
	ISC GIVES DEPTH = 0 KM								
	NORTHERN GREENLAND SEA								
DEC 12	15 00 42.(3)	82.63 N(0.17)	54.65 W(0.85)	1.0	ML=2.9()	2	5	1	0
	NORTHERN COAST OF GREENLAND								
DEC 31 ISC USCGS	08 07 20.(1)	80.27 N(0.10)	0.72 W(0.57)	1.7	ML=4.5(0.3)	11	14	2	F
	08 07 21.(1)	80.08 N(0.10)	1.3 W(0.51)	2.2	MB=4.5	26	26	5	
	08 07 20.	80.3 N	0.3 E	1.1	MB=4.5	16	16	5	
	NORTHERN GREENLAND SEA								
DEC 31	21 22 24.(2)	80.42 N(0.10)	18.25 W(0.43)	0.7	ML=3.2()	3	5	1	0
	NORTHEASTERN GREENLAND								
DEC 31	23 57 19.(3)	81.72 N(0.18)	1.32 W(1.81)	0.9	ML=3.5()	4	5	1	0
	NORTHERN GREENLAND SEA								

TABLE 3
EARTHQUAKES OF WESTERN CANADA AND ADJACENT AREAS
1970

(F=FILLED, O=OPEN SYMBOL ON EPICENTRE MAPS)

A. CANADIAN EPICENTRES

DATE 1970	H-TIME (GMT) HR MN SEC	LATITUDE DEG	LONGITUDE DEG	RMS SEC	MAGNITUDE	NO. OF DATA STN PHA MAG			
JAN 15	14 22 57.(1) WEST OF EDMONTON ALBERTA	53.64 N(0.05)	114.38 W(0.15)	1.9	MN=2.9(0.2)	4	10	4	F
FEB 1	23 02 31. ISC USCGS	50. N 50.48 N(0.08) 50.4 N	129. W 129.3 W(0.14) 129.3 W	1.5 1.1	ML=4.0 MB=4.0	5 10 6	5 10 6	1 0 3	0
FEB 4	23 27 30. WEST OF VANCOUVER ISLAND	51. N	131. W		ML=3.0	3	5	3	0
FEB 18	02 07 40. ISC USCGS	50.3 N 50.29 N(0.03) 50.2 N	129.8 W 129.72 W(0.08) 129.8 W	1.6 1.1	ML=4.7 MB=4.6 MB=4.7 MS=4.6	4 71 36	4 71 36	3 5 12	F
	USCGS DEPTH = 28 KM ISC DEPTH = 21 +/- 12 KM WEST OF VANCOUVER ISLAND							1	
FEB 18	09 23 02. ISC USCGS	52.4 N 52.29 N(0.04) 52.4 N	131.5 W 131.52 W(0.07) 131.5 W	1.6 1.0	ML=4.8 MB=4.7 MB=4.8	4 60 31	5 60 31	3 6 9	F
	ISC AND USCGS GIVE DEPTH = 4 KM QUEEN CHARLOTTE ISLANDS AREA, FELT AT SEVERAL LOCATIONS								
FEB 19	08 09 18. ISC USCGS	53.3 N 53.19 N(0.09) 53.3 N	132.3 W 131.8 W(0.19) 132.3 W	2.8 1.3	ML=4.0 MB=4.0	3 23 10	4 23 10	2 0 4	0
	QUEEN CHARLOTTE ISLANDS AREA, FELT AT SEVERAL LOCATIONS								
MAR 4	15 26 40. WEST OF VANCOUVER ISLAND	48.3 N	128.0 W		ML=3.4	4	8	4	0
MAR 7	10 45 30. SAN JUAN ISLANDS FELT IN VICTORIA WITH INTENSITY OF II TO III	48.8 N	123.3 W		ML=2.9	3	5	2	F
MAR 8	18 52 18.(1) ISC USCGS	55.16 N(0.04) 55.02 N(0.03) 55.0 N	116.33 W(0.07) 116.58 W(0.06) 116.6 W	3.0 1.8 0.8	MN=4.6(0.2) MB=4.5 MB=5.1	19 58 29	41 58 29	12 8 8	F
	ISC AND USCGS GIVE DEPTH = 9 KM NEAR SNIPE LAKE ALBERTA APPROX. 270 KM NW OF EDMONTON. FELT OVER AN AREA OF APPROX. 100,000 SQ. KM. MAXIMUM INTENSITY III. SEE TEXT AND FIGURE 11. EVENT POSSIBLY INDUCED BY WATER INJECTION INTO OIL FIELD. FOLLOWED BY 2 SMALL AFTERSHOCKS - SEE TABLE 16. THIS IS THE FIRST EARTHQUAKE KNOWN TO HAVE OCCURRED IN THIS AREA (MILNE, 1970).								
MAR 21	17 59 54.(2) WEST OF EDMONTON ALBERTA	53.65 N(0.05)	114.44 W(0.14)	2.6	MN=3.1(0.2)	5	15	4	F
MAY 28	17 38 32.(0) ISC USCGS	48.47 N(0.02) 48.4 N	126.66 W(0.04) 126.7 W	1.1 1.2	MB=4.9 MB=4.9	74 57	74 57	12 18	F
	ISC AND USCGS GIVE DEPTH = 3 KM WEST OF VANCOUVER ISLAND								
MAY 30	19 36 50.(1) ISC USCGS	49.20 N(0.04) 49.1 N(0.13) 49.2 N	113.60 W(0.08) 113.5 W(0.22) 113.7 W	1.8 3.8 1.7	MN=2.8(0.2) MB=3.7	9 8 6	15 8 6	3 0 1	F
	SOUTHWESTERN ALBERTA NEAR CARDSTON								

DATE 1970	H-TIME (GMT) HR MN SEC	LATITUDE DEG	LONGITUDE DEG	M-TIME SEC	MAGNITUDE	NO. OF DATA STN PHA MAG
JUN 24 ISC USCGS	07 30 28. 07 30 32.(0) 07 30 31.	51.86 N 51.82 N(0.03) 51.8 N	130.97 W 130.75 W(0.05) 130.8 W	 1.8 1.3	ML=4.9 MB=5.0 MR=4.9 MS=5.4	6 6 4 179 179 23 62 62 13 2
ISC DEPTH = 33 +/- 2 KM FELT ON QUEEN CHARLOTTE ISLANDS						
JUN 24 ISC USCGS	13 09 08. 13 09 11.(0) 13 09 08.	51.74 N 51.77 N(0.03) 51.8 N	131.00 W 130.76 W(0.05) 131.0 W	 2.3 1.0	ML=7.0 MB=5.7 MR=5.6 MS=7.0	7 7 4 299 299 39 81 81 14 2
USCGS DEPTH = 12 KM ISC DEPTH = 22 +/- 1 KM MAGNITUDE OF THIS EVENT ACCEPTED TO BE 6.7 (SEE TEXT). FELT ON QUEEN CHARLOTTE ISLANDS, WESTERN BC AND NORTHERN VANCOUVER ISLAND. MAXIMUM REPORTED INTENSITY IV (SEE FIGURE 10). NO DAMAGE. 39 AFTERSHOCKS RECORDED AT SANDSPIT ARE LISTED IN TABLE 17.						
JUN 24 ISC USCGS	13 17 04.(2) 13 17 01.	51.74 N(0.06) 51.9 N	131.2 W(0.13) 131.1 W	1.0 1.4	MB=5.2 MB=5.5	49 49 9 15 15 2
ISC DEPTH = 64 +/- 17 KM QUEEN CHARLOTTE ISLANDS						
JUN 24 ISC USCGS	17 16 53.(2) 17 16 53.	51.94 N(0.05) 51.9 N	130.3 W(0.14) 130.4 W	1.7 1.5	MB=3.9	28 28 0 13 13 3
ISC DEPTH = 33 +/- 18 KM QUEEN CHARLOTTE ISLANDS						
JUN 24 ISC USCGS	19 10 15.(8) 19 10 19.	51.95 N(0.08) 51.9 N	130.5 W(0.37) 130.2 W	2.0 1.0	MB=3.9	21 21 0 10 10 2
ISC DEPTH = 28 +/- 52 KM QUEEN CHARLOTTE ISLANDS						
JUN 29 ISC USCGS	02 26 40.(1) 02 26 38.	51.99 N(0.09) 51.7 N	130.3 W(0.16) 130.7 W	2.7 1.1	ML=3.7 MB=3.7	29 29 0 10 10 5
QUEEN CHARLOTTE ISLANDS						
JUL 3	06 20 10.	51.8 N	131.0 W		ML=4.0	7 7 2 0
QUEEN CHARLOTTE ISLANDS						
JUL 10	17 27 59.	50.0 N	123.3 W		ML=1.8	2 4 2 0
BUTE INLET AREA						
JUL 11	10 24 32.	50.0 N	123.3 W		ML=2.3	3 4 2 0
BUTE INLET REGION						
JUL 23	13 31 40.	48.5 N	128.0 W		ML=3.8	5 9 5 0
WEST OF VANCOUVER ISLAND						
AUG 11	20 56 50.	52.0 N	130.0 W		ML=3.0	5 7 2 0
QUEEN CHARLOTTE ISLANDS						
AUG 18	22 18 45.	49.8 N	126.0 W		ML=2.0	2 3 2 0
WEST OF VANCOUVER ISLAND						
SEP 2	12 22 15.	49.0 N	130.0 W		ML=3.0	4 6 4 0
WEST OF VANCOUVER ISLAND						
SEP 3	12 52 22.	49.4 N	129.5 W		ML=3.0	6 9 6 0
WEST OF VANCOUVER ISLAND						
SEP 4	21 23 21.	48.5 N	127.5 W		ML=3.5	5 8 5 0
WEST OF VANCOUVER ISLAND						
SEP 8 ISC USCGS	13 04 02. 13 04 09.(2) 13 04 02.	50.6 N 51.0 N(0.13) 50.6 N	129.3 W 128.9 W(0.28) 129.3 W	 2.4 0.4	ML=3.7 MB=3.7	6 6 6 10 10 0 5 5 4
ISC DEPTH = 109 +/- 34 KM WEST OF VANCOUVER ISLAND						

DATE 1970	H-TIME (GMT) HR MN SEC	LATITUDE DEG	LONGITUDE DEG	PMS SEC	MAGNITUDE	NO. OF DATA STN PHA MAG			
SEP 8	13 51 19.	50.6 N WEST OF VANCOUVER ISLAND	129.3 W		ML=2.8	6	6	6	0
SEP 13	22 26 01.	50.0 N WEST OF VANCOUVER ISLAND	130.0 W		ML=3.3	6	8	6	0
SEP 16	02 26 06.	50.0 N	130.0 W		ML=3.1	4	7	4	0
ISC	02 25 44.(5)	50.9 N(0.13)	129.5 W(0.68)	2.7		9	9	0	
	WEST OF VANCOUVER ISLAND								
SEP 16	02 31 02.	50.0 N WEST OF VANCOUVER ISLAND	130.0 W		ML=1.9	3	5	3	0
SEP 29	12 14 38.	50.0 N WEST OF VANCOUVER ISLAND	128.0 W		ML=2.9	5	7	5	0
OCT 12	13 00 43.	50.0 N WEST OF VANCOUVER ISLAND	130.0 W		ML=3.2	6	9	6	0
OCT 15	04 33 32.	50.0 N WEST OF VANCOUVER ISLAND	130.0 W		ML=3.2	5	8	5	0
OCT 20	21 26 24.	49.9 N WEST OF VANCOUVER ISLAND	129.5 W		ML=3.1	5	6	5	0
OCT 30	21 22 29.	50.0 N ON NORTHWEST VANCOUVER ISLAND	126.0 W		ML=2.9	2	3	2	0
NOV 2	11 57 33.	52.7 N DEAN CHANNEL, NORTHEAST OF OCEAN FALLS	127.0 W		ML=3.1	3	4	2	0
NOV 10	02 10 43.	50.6 N	129.5 W		ML=4.1	4	4	1	F
ISC	02 10 47.(2)	50.58 N(0.07)	129.2 W(0.20)	2.3		27	27	0	
USCGS	02 10 43.	50.6 N	129.5 W	0.7	MB=4.1	16	16	6	
	ISC DEPTH = 49 +/- 17 KM WEST OF VANCOUVER ISLAND								
NOV 12	19 56 52.	51.8 N SOUTH OF QUEEN CHARLOTTE ISLANDS	130.5 W		ML=2.8	4	6	4	0
NOV 16	02 41 47.	50.6 N FELT OVER A SMALL AREA SOUTHWEST OF KAMLOOPS MAXIMUM INTENSITY III	120.6 W		ML=3.2	2	3	1	0
NOV 16	12 49 21.	49.3 N	128.1 W		ML=4.5	6	6	6	F
ISC	12 49 21.(0)	49.35 N(0.03)	128.04 W(0.08)	1.6		51	51	0	
USCGS	12 49 21.	49.3 N	128.1 W	1.1	MB=4.5	37	37	10	
	WEST OF VANCOUVER ISLAND								
NOV 27	22 17 50.	52.64 N DEPTH RESTRICTED TO 10 KM	119.13 W		MN=3.8	7	8	6	F
ISC	22 17 54.(2)	52.5 N(0.20)	118.4 W(0.25)	4.0		12	12	0	
USCGS	22 17 48.	52.7 N	119.3 W	0.8	MB=4.3	8	8	2	
	ISC AND USCGS GIVE DEPTH = 15 KM FELT AT VALEMOUNT BC WITH INTENSITY III. MAIN SHOCK								
DEC 1	03 41 14.	52.67 N FELT AT VALEMOUNT. AFTERSHOCK OF EVENT OF 27 NOV 22H	119.34 W		ML=2.5	2	3	1	0
DEC 1	08 06 43.	52.67 N DEPTH RESTRICTED TO 10 KM	119.34 W		MN=2.8	5	6	3	F
ISC	08 06 46.(4)	52.8 N(0.22)	119.2 W(0.59)	5.9		9	9	0	
USCGS	08 06 42.	52.7 N	119.3 W	1.0	MB=4.2	5	5	1	
	ISC AND USCGS GIVE DEPTH = 15 KM FELT AT VALEMOUNT. AFTERSHOCK OF EVENT OF 27 NOV 22H								
DEC 25	21 01 04.	50.0 N WEST OF VANCOUVER ISLAND	130.0 W		ML=3.1	6	9	6	0

DATE 1970	H-TIME (GMT) HR MN SEC	LATITUDE DEG	LONGITUDE DEG	RMS SEC	MAGNITUDE	NO. OF DATA STN PHA MAG
DEC 26	23 14 40.	50.0 N	130.0 W		ML=3.2	6 9 6 0
	WEST OF VANCOUVER ISLAND					
DEC 31						
ISC	01 27 08.(1)	50.25 N(0.05)	129.5 W(0.14)	2.0		31 31 0 F
USCGS	01 27 08.	50.2 N	129.5 W	2.2	MB=4.3	27 27 5
	WEST OF VANCOUVER ISLAND					
B. UNITED STATES EPICENTRES						
JAN 3	14 57 34.	47.3 N	122.8 W		ML=2.5	2 4 2 0
	PUGET SOUND, NORTHWESTERN WASHINGTON STATE					
JAN 19					MN=3.3	
ISC	12 11 18.(0)	47.94 N(0.04)	114.23 W(0.06)	1.2		10 10 0 F
USCGS	12 11 19.	47.9 N	114.3 W	0.7	MB=4.0	8 8 1
	ISC AND USCGS GIVE DEPTH = 18 KM NORTHWESTERN MONTANA, FLATHEAD LAKE AREA					
JAN 27	20 16 30.	47.0 N	120.3 W		ML=2.8	3 6 3 0
	CENTRAL WASHINGTON STATE					
FEB 4					MN=3.4	
ISC	23 39 54.(1)	47.91 N(0.07)	114.18 W(0.09)	1.4		9 9 0 F
USCGS	23 39 54.	47.9 N	114.2 W	1.0		6 6 0
	ISC AND USCGS GIVE DEPTH = 20 KM NORTHWESTERN MONTANA, FLATHEAD LAKE AREA FELT AT PROCTOR WITH INTENSITY V					
FEB 05					MN=2.8	
ISC	10 56 21.(4)	47.9 N(0.22)	113.7 W(0.51)	5.0		6 6 0 F
USCGS	10 56 22.	47.9 N	114.1 W	0.1		5 5 0
	ISC AND USCGS GIVE DEPTH = 28 KM NORTHWESTERN MONTANA, FLATHEAD LAKE AREA FELT AT PROCTOR					
FEB 10						
ISC	20 21 12.(0)	47.70 N(0.03)	122.31 W(0.04)	1.0		11 11 0 F
USCGS	20 21 12.	47.7 N	122.3 W	0.6		8 8 0
ERL	NORTHWESTERN WASHINGTON STATE. FELT OVER 3,900 SQ. KM. WITH MAXIMUM INTENSITY V NORTH OF SEATTLE. NO DAMAGE					
FEB 22					MN=3.2	
ISC	21 40 46.(3)	48.4 N(0.31)	114.6 W(0.33)	8.8		9 9 0 0
USCGS	21 40 46.	47.9 N	114.3 W	0.6		6 6 0
	ISC AND USCGS GIVE DEPTH = 9 KM NORTHWESTERN MONTANA, FLATHEAD LAKE AREA FELT AT PROCTOR AND ROLLINS WITH INTENSITY IV ALSO FELT AT POLSON					
APR 02					MN=2.9	
ISC	11 18 12.(0)	48.01 N(0.06)	113.97 W(0.08)	1.3		8 8 0 F
USCGS	11 18 12.	47.8 N	114.1 W	1.9		6 6 0
	ISC DEPTH = 48 +/- 5 KM NORTHWESTERN MONTANA, FLATHEAD LAKE AREA FELT AT POLSON WITH INTENSITY IV					
APR 5	15 00 24.	47.5 N	123.5 W		ML=3.2	5 9 4 0
	OLYMPIC MOUNTAINS WEST OF SEATTLE					
APR 12	07 50 06.(1)	48.10 N(0.02)	114.39 W(0.02)	0.3	MN=2.1()	3 5 1 0
	NORTHWESTERN MONTANA, FLATHEAD LAKE AREA					
APR 14	12 24 28.	47.0 N	122.5 W		ML=3.2	5 8 5 0
	SOUTH END OF PUGET SOUND. FELT IN VANCOUVER					
APR 16	08 46 21.(3)	59.62 N(0.11)	143.45 W(0.53)	1.9	MN=3.4()	6 7 1 F
	GULF OF ALASKA. THIS EVENT WAS PREVIOUSLY UNLOCATED. THERE WERE MANY MORE EVENTS IN THIS AREA DURING 1970 LOCATED BY THE ISC AND USCGS.					
APR 27	10 30 37.(2)	48.01 N(0.10)	114.36 W(0.07)	1.3	MN=2.6()	3 6 1 F
	NORTHWESTERN MONTANA, FLATHEAD LAKE AREA					

DATE 1970	H-TIME (GMT) HR MN SEC	LATITUDE DEG	LONGITUDE DFG	RMS SEC	MAGNITUDE	NO. OF DATA			
						STN	PHA	MAG	
DEC 17	05 49 58. NW WASHINGTON	48.2 N STATE NEAR CAPE	125.0 W FLATTERY		ML=2.5	4	6	3	0
DEC 31	ISC 05 34 14.(0)	47.78 N(0.03)	128.77 W(0.05)	1.5	MB=5.2	111	111	6	F
	USCGS 05 34 14. OFF COAST OF WASHINGTON	47.8 N	128.8 W	1.2	MR=5.2	59	59	17	
DEC 31	ISC 10 46 17.(1)	47.69 N(0.06)	128.2 W(0.14)	1.9		18	18	0	F
	USCGS 10 46 16. OFF COAST OF WASHINGTON	47.8 N	128.2 W	1.3	MR=4.2	12	12	4	

TABLE 4
EARTHQUAKES OF CENTRAL CANADA AND ADJACENT AREAS
1970
(F=FILLED, O=OPEN SYMBOL ON EPICENTRE MAPS)

A. CANADIAN EPICENTRES

DATE 1970	H-TIME (GMT) HR MN SEC	LATITUDE DEG	LONGITUDE DEG	RMS SEC	MAGNITUDE	NO. OF DATA STN PHA MAG
FEB 8	14 41 54.(3)	51.14 N(0.09)	112.90 W(0.20)	2.0	MN=2.3(0.1)	4 6 2
ISC	14 41 51.(1)	51.16 N(0.04)	112.87 W(0.09)	1.4		6 6 0
USCGS	14 41 51.	51.2 N	112.9 W	1.4		6 6 0
ISC AND USCGS GIVE DEPTH = 0 KM EAST OF CALGARY ALBERTA						
FEB 16	01 30 25.(2)	56.59 N(0.14)	87.79 W(0.14)	3.4	MN=2.5(0.1)	5 7 4
SOUTHERN HUDSON BAY NORTH OF FT SEVERN						

B. UNITED STATES EPICENTRES

APR 11	06 31 55.(2)	48.82 N(0.08)	112.27 W(0.07)	2.4	MN=3.3(0.3)	8	20	5	F
	NORTHWESTERN MONTANA SOUTH OF LETHBRIDGE ALBERTA								
JUN 15	09 58 39.(3)	46.18 N(0.11)	110.06 W(0.16)	1.4	MN=2.7(0.0)	3	6	2	F
	SOUTHERN MONTANA								
JUN 15	10 37 44.(3)	46.12 N(0.10)	109.94 W(0.12)	1.1	MN=2.8(0.1)	4	6	2	F
	SOUTHERN MONTANA								
NOV 17	09 51 31.(1)	47.56 N(0.05)	112.76 W(0.04)	0.6	MN=2.7()	3	7	1	F
	NORTHWESTERN MONTANA EAST OF FLATHEAD LAKE								
NOV 22	02 23 13.(0)	45.75 N(0.00)	101.97 W(0.00)	0.0	MN=2.8(0.2)	3	3	3	O
	NORTHWESTERN SOUTH DAKOTA								
DEC 16	19 37 40.(2)	48.56 N(0.09)	112.70 W(0.10)	1.2	MN=2.8(0.0)	3	8	2	F
	NORTHEAST OF FLATHEAD LAKE MONTANA								

TABLE 5

UNLOCATED EVENTS RECORDED AT INK

DATE 1970	H-TIME (GMT) HR MN SEC			DELTA KM	MAGNITUDE	REMARKS	
JAN 1	04	14	06.	132	ML=2.2	PROBABLY WEST OF INK. APPROX. 1170 KM FROM YKC	
JAN 1	07	33	34.	309	ML=2.4		
JAN 1	10	22	41.	205	ML=2.1		
JAN 3	08	51	21.	284	ML=2.4		
JAN 7	12	07	58.	331	ML=3.0		
JAN 8	13	10	26.	108	ML=1.6		
JAN 8	13	37	34.	201	ML=1.8		
JAN 13	10	30	56.	317	ML=2.9		
JAN 17	05	43	16.	351	ML=2.4		
JAN 19	17	48	05.	201	ML=2.2		
JAN 19	20	06	33.	177	ML=2.1		
JAN 20	05	48	33.	193	ML=2.8		SE OF INK. APPROX. 875 KM FROM YKC
JAN 23	06	32	33.	217	ML=1.7		
JAN 27	01	34	51.	195	ML=1.9		
JAN 30	18	33	25.	221	ML=2.0		
JAN 31	12	04	41.	126	ML=1.5		
FEB 3	15	05	55.	214	ML=1.9		
FEB 5	05	38	57.	206	ML=2.4		
FEB 14	17	42	52.	198	ML=1.9		
FEB 20	00	34	45.	191	ML=1.7		
FEB 20	00	55	02.	768	MN=2.8	POSSIBLE FORESHOCK OF EVENT OF 22 FEB 06H SW YUKON TERRITORY	
FEB 25	07	02	50.	300	ML=2.4		
FEB 26	08	55	46.	138	ML=0.9	SOUTHWESTERN YUKON TERRITORY OR ALASKA	
FEB 26	09	16	32.	128	ML=1.7		
FEB 26	12	07	58.	233	ML=2.2		
FEB 28	15	33	57.	743	MN=2.6		
MAR 13	10	25	54.	230	ML=2.1		
MAR 13	16	44	14.	72	ML=1.2		
MAR 13	19	49	03.	332	ML=2.8		
MAR 14	17	58	55.	146	ML=1.8		
APR 3	17	24	57.	224	ML=1.6		
APR 17	08	09	29.	312	ML=2.5		
APR 21	12	29	36.	185	ML=2.1		
MAY 4	02	38	38.	883	MN=2.7		SW YUKON TERRITORY OR ALASKA
MAY 5	14	34	24.	86	ML=1.6		
MAY 8	02	08	07.	189	ML=2.2	NORTHEAST OF INK, 768 KM FROM HBC POSSIBLY BEAUFORT SEA	
MAY 13	03	36	22.	290	ML=2.0		
MAY 19	17	08	57.	133	ML=1.7		
MAY 22	21	19	02.	246	ML=2.2		
MAY 23	21	02	53.	218	ML=2.3		
MAY 26	12	31	10.	350	ML=1.9		
MAY 26	13	42	04.	177	ML=2.4		
MAY 26	14	05	20.	256	ML=1.4		
MAY 26	17	04	04.	172	ML=1.7		
MAY 27	11	27	47.	221	ML=2.1		
JUN 3	13	29	40.	193	ML=1.7		PROBABLY CENTRAL ALASKA
JUN 9	21	43	06.	811	MN=2.4		
JUN 9	22	39	40.	73	ML=1.5		
JUN 9	23	17	43.	295	ML=1.7		
JUN 12	15	43	45.	323	ML=2.8		
JUN 13	19	01	43.	125	ML=1.2		
JUN 18	08	16	34.	177	ML=2.3		
JUN 18	11	15	48.	326	ML=2.3		
JUN 18	19	48	23.	116	ML=1.1		
JUN 20	21	12	42.	207	ML=1.6		
JUN 27	07	05	34.	294	ML=2.3		
JUN 29	01	44	43.	192	ML=1.9		
JUN 29	22	05	48.	206	ML=2.0		

TABLE 5 (CONTINUED)

UNLOCATED EVENTS RECORDED AT INK

DATE 1970	H-TIME (GMT) HR MN SEC	DELTA KM	MAGNITUDE	REMARKS
JUL 3	11 44 38.	364	ML=2.4	
JUL 3	11 53 46.	327	ML=2.3	
JUL 4	11 59 45.	209	ML=1.7	
JUL 4	12 38 47.	196	ML=1.6	
JUL 5	03 47 39.	389	ML=2.9	
JUL 5	07 12 02.	192	ML=1.7	
JUL 11	20 26 07.	150	ML=1.6	
JUL 13	14 28 30.	123	ML=1.5	
JUL 15	13 30 18.	207	ML=1.5	
JUL 15	18 18 52.	181	ML=2.7	
JUL 16	05 20 26.	391	ML=2.7	
JUL 18	05 45 42.	130	ML=1.2	
JUL 18	06 20 42.	130	ML=1.2	
JUL 18	08 53 26.	343	ML=2.7	
JUL 18	11 43 22.	121	ML=1.5	
JUL 18	13 07 36.	135	ML=2.0	
JUL 18	20 41 25.	1032	ML=3.7	PROBABLY ALASKA
JUL 20	01 26 17.	125	ML=1.2	
JUL 20	02 26 41.	128	ML=1.1	
JUL 20	13 34 51.	743	MN=2.9	SW YUKON TERRITORY OR ALASKA
JUL 20	20 17 04.	214	ML=2.8	THESE 2 EVENTS ARE AFTERSHOCKS OF EVENT
JUL 20	21 44 06.	225	ML=1.5	OF 20 JUL 20H. NORTHERN YUKON TERRITORY
JUL 22	23 52 50.	118	ML=1.8	
JUL 28	18 41 29.	190	ML=3.0	
AUG 2	11 44 09.	173	ML=1.7	
AUG 3	15 08 11.	200	ML=1.9	
AUG 6	13 17 14.	303	ML=1.9	
AUG 9	00 36 40.	347	ML=2.5	
AUG 15	10 33 50.	205	ML=1.5	
AUG 17	22 52 00.	217	ML=1.6	
AUG 24	21 07 45.	205	ML=2.2	
AUG 27	23 22 15.	530	ML=2.9	
AUG 30	09 02 31.	547	ML=2.9	
AUG 30	22 09 07.	192	ML=1.4	
SEP 1	17 37 52.	71	ML=1.5	
SEP 4	11 39 25.	294	ML=2.0	
SEP 6	02 15 58.	198	ML=2.4	
SEP 6	15 39 12.	146	ML=2.1	
SEP 6	21 47 23.	180	ML=1.4	
SEP 10	22 07 30.	762	MN=3.1	SW YUKON TERRITORY OR ALASKA
SEP 11	02 00 06.	302	ML=2.1	
SEP 12	19 09 24.	255	ML=2.8	
SEP 14	09 21 57.	230	ML=2.4	APPROX. 1300 KM FROM MBC
SEP 15	10 12 03.	186	ML=1.8	
SEP 17	00 33 40.	195	ML=2.2	
SEP 17	09 47 25.	179	ML=1.8	
SEP 18	08 21 02.	138	ML=1.6	
SEP 20	22 44 08.	554	ML=2.8	
SEP 23	17 45 51.	227	ML=1.9	
SEP 26	06 42 36.	179	ML=2.0	
SEP 27	12 42 42.	200	ML=2.3	
SEP 28	04 50 54.	314	ML=2.6	
OCT 1	17 39 56.	176	ML=2.1	
OCT 3	16 40 22.	202	ML=1.6	
OCT 5	17 56 42.	275	ML=1.8	
OCT 5	18 55 06.	259	ML=1.8	
OCT 6	08 30 21.	129	ML=1.4	
OCT 8	00 25 24.	202	ML=2.2	
OCT 11	02 10 48.	173	ML=2.9	
OCT 11	02 37 27.	132	ML=1.4	
OCT 11	19 47 56.	73	ML=1.4	

TABLE 5 (CONTINUED)

UNLOCATED EVENTS RECORDED AT INK

DATE 1970	H-TIME (GMT) HR MN SEC	DELTA KM	MAGNITUDE	REMARKS
OCT 15	18 45 42.	235	ML=2.1	
OCT 19	04 49 03.	199	ML=2.3	
OCT 20	03 30 55.	282	ML=2.0	
OCT 21	00 24 46.	385	ML=3.1	SOUTH OF INK APPROX. 1400 KM FROM MBC
OCT 22	14 38 23.	318	ML=2.3	
OCT 23	07 27 19.	318	ML=2.1	
OCT 26	17 30 05.	750	MN=2.6	SW YUKON TERRITORY OR ALASKA
OCT 27	11 14 44.	435	ML=3.8	SOUTH OF INK APPROX. 1390 KM FROM MBC
NOV 9	17 41 41.	977	ML=3.9	PROBABLY ALASKA
NOV 11	14 21 48.	304	ML=2.5	
NOV 13	00 43 44.	1001	MN=3.6	PROBABLY ALASKA
NOV 15	16 13 36.	374	ML=2.5	
NOV 17	18 49 14.	185	ML=1.5	
NOV 25	19 17 53.	333	ML=2.6	
NOV 27	13 37 11.	262	ML=2.1	
NOV 28	18 28 27.	183	ML=1.7	
NOV 29	06 35 40.	218	ML=1.9	
NOV 29	22 36 58.	180	MN=2.5	APPROX. 1130 KM FROM YKC. PROBABLY SOUTHWEST OF FT MCPHERSON NWT
DEC 4	15 55 59.	166	ML=2.2	
DEC 6	09 05 44.	191	ML=1.6	
DEC 13	01 41 39.	411	ML=2.6	
DEC 19	15 42 40.	471	ML=3.2	
DEC 23	08 11 16.	245	ML=1.9	
DEC 26	13 45 39.	306	ML=2.4	
DEC 29	01 58 58.	319	ML=2.2	

TABLE 6

UNLOCATED EVENTS RECORDED AT BLC

DATE 1970	H-TIME (GMT) HR MN SEC	DELTA KM	MAGNITUDE	REMARKS
AUG 3	02 14 16.	224	ML=2.3	NORTH OF BLC

TABLE 7

UNLOCATED EVENTS RECORDED AT RES

DATE 1970	H-TIME (GMT) HR MN SEC	DELTA KM	MAGNITUDE	REMARKS
JAN 14	11 05 53.	35	ML=1.3	BARROW STRAIT
JAN 22	06 46 14.	248	ML=2.0	
MAR 9	07 07 26.	157	ML=1.5	
MAR 10	10 41 49.	98	ML=1.2	
MAR 12	19 33 03.	36	ML=1.6	
MAR 13	00 56 18.	80	ML=1.4	
MAR 14	00 05 16.	56	ML=1.0	
MAR 17	01 58 50.	221	ML=2.3	
MAR 17	14 46 03.	62	ML=0.8	
MAR 17	23 25 35.	263	ML=2.0	PROBABLY SOUTH OF RES
APR 2	16 29 39.	183	ML=1.6	
APR 4	15 36 22.	187	ML=1.6	
APR 5	19 07 06.	268	ML=2.2	SOUTH OF RES APPROX. 870 KM FROM BLC
APR 9	11 47 48.	60	ML=1.1	
APR 10	04 54 59.	49	ML=0.8	BARROW STRAIT
APR 10	09 34 55.	189	ML=1.5	
APR 10	10 20 13.	59	ML=1.4	
APR 10	17 08 06.	189	ML=1.7	
APR 14	07 05 11.	379	ML=2.8	
APR 20	19 44 51.	60	ML=1.3	
APR 21	13 36 18.	138	ML=1.5	PROBABLY SOUTH OF RES
APR 28	02 14 37.	490	ML=2.2	
MAY 4	12 41 24.	183	ML=1.6	SOUTH OF RES
MAY 4	17 26 49.	186	ML=1.2	PROBABLY SOUTH OF RES
MAY 6	01 38 56.	193	ML=1.7	
MAY 8	07 12 52.	93	ML=1.0	
MAY 10	03 01 37.	189	ML=1.6	
MAY 10	18 19 25.	170	ML=1.2	
MAY 12	21 32 52.	150	ML=1.8	
MAY 20	19 47 10.	60	ML=1.3	
MAY 24	03 01 39.	41	ML=1.5	
JUN 5	15 03 10.	15	ML=0.7	BARROW STRAIT
JUN 8	08 02 15.	11	ML=0.3	WEST OF RES
JUN 22	07 59 20.	54	ML=1.1	
JUN 24	16 05 24.	317	ML=2.3	
JUL 10	18 33 46.	61	ML=1.5	
JUL 21	14 05 29.	40	ML=1.3	NORTH OF RES
AUG 3	21 19 19.	10	ML=0.4	SOUTHEAST OF RES
SEP 8	08 35 19.	99	ML=1.7	
OCT 15	13 01 56.	193	ML=2.0	
OCT 24	08 49 54.	52	ML=1.1	
NOV 2	12 15 11.	211	ML=1.8	PROBABLY SOUTH OF RES
NOV 2	19 26 57.	227	ML=1.9	
NOV 10	20 29 19.	173	ML=1.5	
DEC 24	13 28 46.	218	ML=2.1	THESE 3 EVENTS ARE AFTERSHOCKS OF THE EVENT OF 24 DEC 12H ON BATHURST ISLAND
DEC 26	01 28 37.	218	ML=1.6	
DEC 26	07 35 44.	218	ML=2.1	
DEC 30	04 12 46.	229	ML=2.5	

TABLE 8

UNLOCATED EVENTS RECORDED AT MBC

DATE 1970	H-TIME (GMT) HR MN SEC	DELTA KM	MAGNITUDE	REMARKS
JAN 3	01 35 30.	80	ML=1.3	
JAN 19	07 06 10.	306	ML=2.4	
JAN 30	21 45 01.	135	ML=1.6	THIS SERIES OF 6 EVENTS ON JAN 30 AND 31 PROBABLY ORIGINATE FROM THE NORTHERN END OF PRINCE PATRICK ISLAND
JAN 31	09 57 27.	134	ML=1.4	
JAN 31	10 06 11.	133	ML=1.8	
JAN 31	10 09 07.	131	ML=1.3	
JAN 31	10 09 11.	133	ML=1.8	
JAN 31	10 16 14.	133	ML=1.1	
FEB 19	21 07 49.	752	ML=3.0	
FEB 26	03 02 42.	251	ML=1.3	
FEB 26	06 02 50.	229	ML=1.5	
FEB 26	13 49 23.	135	ML=1.9	
FEB 26	15 16 58.	133	ML=1.6	
MAR 1	04 48 51.	140	ML=1.5	
MAR 15	22 24 37.	223	ML=1.4	
MAR 17	13 20 32.	83	ML=1.4	SOUTHEAST OF MBC FORESHOCK OF EVENT OF 22 MAR 10H THESE 9 EVENTS ARE AFTERSHOCKS OF THE EVENT OF 22 MAR 10H ON NORTHERN PRINCE PATRICK ISLAND
MAR 21	11 42 13.	136	ML=1.3	
MAR 22	12 34 03.	122	ML=0.7	
MAR 22	12 43 55.	128	ML=1.2	
MAR 22	12 49 49.	129	ML=1.4	
MAR 22	13 03 27.	128	ML=1.1	
MAR 22	17 50 12.	133	ML=1.4	
MAR 23	00 34 36.	122	ML=1.5	
MAR 24	17 30 44.	130	ML=1.9	
MAR 27	11 19 13.	133	ML=1.2	
MAR 28	02 22 54.	146	ML=1.2	
MAR 30	15 18 20.	167	ML=0.6	
APR 1	13 28 51.	390	ML=1.9	
APR 1	17 15 01.	105	ML=1.1	
APR 3	22 51 56.	129	ML=1.4	
APR 9	00 53 39.	273	ML=1.7	
APR 11	07 25 40.	94	ML=1.9	APPROX. 690 KM FROM RES
MAY 21	11 46 32.	204	ML=1.5	
MAY 25	09 04 12.	185	ML=1.3	
JUN 2	07 10 15.	211	ML=1.3	
JUN 6	05 58 09.	130	ML=1.9	
JUN 24	12 43 07.	265	ML=1.9	
JUN 24	23 02 37.	230	ML=2.0	
JUN 24	23 41 51.	251	ML=1.8	
JUN 27	14 35 04.	273	ML=2.2	
JUN 27	14 52 22.	306	ML=2.6	
JUN 27	18 04 57.	284	ML=2.3	
JUN 30	10 18 47.	9	ML=0.2	
SEP 10	07 23 00.	334	ML=2.3	
SEP 29	09 06 31.	82	ML=0.9	
OCT 4	09 34 30.	125	ML=2.1	
OCT 5	19 11 50.	198	ML=1.8	
OCT 21	18 17 44.	78	ML=1.7	
DEC 7	17 20 01.	42		MAGNITUDE PROBABLY LESS THAN 3

TABLE 9

UNLOCATED EVENTS RECORDED AT FBC

DATE 1970	H-TIME (GMT)			DELTA KM	MAGNITUDE	REMARKS
JUN 25	10	26	22.	292	ML=1.9	
AUG 31	04	57	33.	396	ML=2.9	PROBABLY NORTH OF FBC
NOV 6	17	02	51.	346	ML=2.9	PROBABLY EAST OF FBC
NOV 16	04	32	34.	201	ML=2.2	
DEC 2	10	59	14.	525	MN=2.4	FORESHOCK OF HOME BAY, BAFFIN ISLAND EVENT
DEC 2	11	22	42.	525	MN=3.6	AFTERSHOCK OF HOME BAY EVENT.
						FELT AT CAPE HOOPER
DEC 2	11	29	24.	525	MN=2.3	IN ALL THERE ARE 55 AFTERSHOCKS RECORDED
DEC 2	11	32	11.	525	MN=2.2	ONLY AT FBC DURING DECEMBER
DEC 2	11	33	48.	525	MN=2.6	
DEC 2	11	35	12.	525	MN=2.3	
DEC 2	11	39	49.	525	MN=3.0	
DEC 2	11	42	53.	525	MN=2.0	
DEC 2	11	44	56.	525	MN=2.8	
DEC 2	11	49	59.	525	MN=2.1	
DEC 2	11	52	50.	525	MN=2.2	
DEC 2	11	53	48.	525	MN=2.5	
DEC 2	12	05	18.	525	MN=2.3	
DEC 2	12	11	41.	525	MN=1.8	
DEC 2	12	12	13.	525	MN=2.2	
DEC 2	12	35	39.	525	MN=1.7	
DEC 2	13	07	07.	525	MN=2.0	
DEC 2	13	12	43.	525	MN=3.3	
DEC 2	13	29	17.	525	MN=2.0	
DEC 2	13	48	18.	525	MN=1.8	
DEC 2	13	54	20.	525	MN=1.7	
DEC 2	14	05	57.	525	MN=1.5	
DEC 2	14	13	44.	525	MN=2.3	
DEC 2	15	12	05.	525	MN=2.1	
DEC 2	15	23	12.	525	MN=2.1	
DEC 2	15	37	18.	525	MN=3.0	
DEC 2	15	57	22.	525	MN=2.5	
DEC 2	16	02	17.	525	MN=2.4	
DEC 2	16	33	21.	525	MN=2.5	
DEC 2	16	55	12.	525	MN=2.5	
DEC 2	17	15	49.	525	MN=1.8	
DEC 2	17	21	14.	525	MN=2.6	
DEC 2	17	53	15.	525	MN=2.7	
DEC 2	18	05	30.	525	MN=1.8	
DEC 2	18	31	13.	525	MN=2.5	
DEC 2	18	51	33.	525	MN=2.1	
DEC 2	21	16	17.	525	MN=2.9	
DEC 2	22	03	54.	525	MN=3.4	
DEC 3	00	10	38.	525	MN=1.8	
DEC 3	00	13	55.	525	MN=2.7	
DEC 3	00	38	59.	525	MN=1.8	
DEC 3	02	11	14.	525	MN=2.6	
DEC 3	02	17	54.	525	MN=2.1	
DEC 3	03	09	45.	525	MN=1.8	
DEC 3	05	14	28.	525	MN=1.8	
DEC 3	05	40	17.	525	MN=2.5	
DEC 3	05	49	08.	525	MN=1.8	
DEC 3	06	28	51.	525	MN=2.4	
DEC 3	08	26	37.	525	MN=2.6	
DEC 3	12	25	34.	525	MN=2.9	
DEC 3	19	15	35.	525	MN=2.1	
DEC 3	20	20	32.	525	MN=2.5	
DEC 3	23	23	26.	525	MN=2.3	
DEC 4	17	45	31.	525	MN=2.1	
DEC 5	00	30	20.	525	MN=2.4	
DEC 19	18	08	44.	834	ML=3.3	DAVIS STRAIT, 67 KM FROM GOM
DEC 31	05	38	31.	525	MN=3.2	

TABLE 10
UNLOCATED EVENTS RECORDED AT ALE

DATE 1970	H-TIME (GMT) HR MN SEC	DELTA KM	MAGNITUDE	REMARKS
JAN 9	05 21 57.	961	ML=3.4	251 KM FROM NOR
JAN 17	04 19 11.	174	ML=1.8	PROBABLY NORTH OF GREENLAND
FEB 11	22 25 26.	1109	ML=3.7	401 KM FROM NOR
FEB 15	11 06 52.	58	ML=1.2	
FEB 17	12 40 33.	99	ML=2.2	NORTHERN COAST OF GREENLAND
FEB 28	18 39 33.	60	ML=1.5	
MAR 22	20 29 31.	878	ML=3.6	395 KM FROM NOR
MAR 29	11 44 22.	834	ML=3.7	
MAR 31	07 22 24.	96	ML=1.2	
APR 12	00 17 42.	616	ML=3.8	81 KM FROM NOR
APR 12	15 36 18.	621	ML=4.0	38 KM FROM NOR. NORTHEASTERN GREENLAND
APR 12	16 10 15.	624	ML=3.2	
APR 24	04 37 02.	702	ML=3.1	106 KM FROM NOR
MAY 10	06 20 27.	854	ML=3.2	165 KM FROM NOR. OFF NE COAST OF GREENLAND
JUN 2	18 10 08.	493	ML=2.8	AFTERSHOCK OF EVENT OF 10 MAY 05H 240 KM FROM NOR
JUL 20	23 29 43.	240	ML=2.3	NORTHERN GREENLAND OR NW ELLESMERE ISLAND
JUL 29	21 37 52.	163	ML=1.3	
AUG 24	21 43 19.	218	ML=2.6	625 KM FROM NOR
AUG 25	10 42 54.	884	ML=3.6	194 KM FROM NOR
SEP 1	17 06 07.	717	ML=3.2	189 KM FROM NOR
SEP 8	05 33 03.	902	ML=3.6	229 KM FROM NOR
SEP 11	11 52 25.	604	ML=2.8	108 KM FROM NOR
SEP 12	18 40 12.	966	ML=4.2	APPROX. 1930 KM FROM NBC
OCT 6	02 13 22.	244	ML=1.9	
OCT 10	11 20 23.	636	ML=2.9	103 KM FROM NOR
OCT 10	20 59 56.	647	ML=3.0	108 KM FROM NOR
DEC 25	17 24 31.	765	ML=3.1	377 KM FROM NOR

TABLE 11
UNLOCATED EVENTS RECORDED AT GMC

DATE 1970	H-TIME (GMT) HR MN SEC	DELTA KM	MAGNITUDE	REMARKS
SEP 26	16 33 54.	335	ML=2.7	POSSIBLY AFTERSHOCK OF EVENT OF 25 SEP 20H. EAST COAST OF JAMES BAY

TABLE 12

UNLOCATED EVENTS RECORDED AT HAL

DATE 1970	H-TIME (GMT) HR MN SEC	DELTA KM	MAGNITUDE	REMARKS
SEP 15	07 02 59.	256	ML=2.7	FROM AN EAST OR WEST DIRECTION

TABLE 13

UNLOCATED EVENTS RECORDED AT SFA

DATE 1970	H-TIME (GMT) HR MN SEC	DELTA KM	MAGNITUDE	REMARKS
JAN 12	03 07 07.	22	ML=1.4	
JUN 9	17 18 58.	16	ML=2.3	APPROX. 240 KM FROM MNT
DEC 13	16 34 27.	47	ML=1.6	

TABLE 14

UNLOCATED EVENTS RECORDED AT SIC

DATE 1970	H-TIME (GMT) HR MN SEC	DELTA KM	MAGNITUDE	REMARKS
MAY 5	07 40 01.	36	ML=1.4	

TABLE 15

UNLOCATED EVENTS RECORDED AT SES

DATE 1970	H-TIME (GMT) HR MN SEC	DELTA KM	MAGNITUDE	REMARKS
APR 12	06 42 02.	179	ML=1.6	PROBABLE AFTERSHOCK OF EVENT OF 11 APR 06H NORTHWESTERN MONTANA

TABLE 16

UNLOCATED EVENTS RECORDED AT EDM

DATE 1970	H-TIME (GMT) HR MN SEC	DELTA KM	MAGNITUDE	REMARKS
MAR 9	01 34 58.	290	ML=2.3	THESE TWO EVENTS ARE AFTERSHOCKS OF THE SNIPE LAKE EARTHQUAKE OF 08 MAR 18 H
MAR 9	06 18 09.	290	ML=2.3	

TABLE 17

UNLOCATED EVENTS RECORDED AT SANDSPIT

DATE 1970	H-TIME (GMT) HR MN SEC	DELTA KM	MAGNITUDE	REMARKS
JUN 25	00 14 01.	150	ML=3.4	THE FIRST 39 EVENTS IN THIS TABLE ARE AFTERSHOCKS OF THE EVENT OF 24 JUN 09H NEAR THE SOUTH END OF THE QUEEN CHARLOTTE ISLANDS
JUN 25	02 32 19.	150	ML=3.3	
JUN 25	15 30 05.	150	ML=3.6	
JUN 27	23 31 21.	150	ML=3.2	
JUN 29	02 40 39.	150	ML=3.6	
JUL 2	00 10 02.	150	ML=2.9	
JUL 2	01 50 35.	150	ML=2.9	
JUL 2	20 22 55.	150	ML=2.3	
JUL 3	06 21 00.	150	ML=3.0	
JUL 3	09 58 30.	150	ML=2.5	
JUL 3	11 37 42.	150	ML=2.3	
JUL 3	19 50 00.	150	ML=2.2	
JUL 4	00 58 00.	150	ML=2.9	
JUL 4	06 07 05.	150	ML=3.0	
JUL 5	07 49 05.	150	ML=2.8	
JUL 5	16 51 08.	150	ML=2.6	
JUL 7	17 03 03.	150	ML=2.5	
JUL 8	04 32 05.	150	ML=2.5	
JUL 11	01 06 55.	150	ML=2.3	
JUL 11	02 49 33.	150	ML=2.6	
JUL 11	19 46 55.	150	ML=2.2	
JUL 12	15 41 33.	150	ML=2.3	
JUL 12	23 41 40.	150	ML=2.5	
JUL 13	03 57 23.	150	ML=2.6	
JUL 13	07 05 02.	150	ML=2.2	
JUL 13	07 18 08.	150	ML=2.1	
JUL 13	07 23 05.	150	ML=2.2	
JUL 13	11 12 03.	150	ML=2.1	
JUL 15	15 31 59.	150	ML=2.4	
JUL 16	13 07 51.	150	ML=2.3	
JUL 16	15 33 08.	150	ML=2.2	
JUL 18	22 51 10.	150	ML=2.4	
JUL 22	23 02 02.	150	ML=2.8	
JUL 26	14 26 16.	150	ML=2.7	
JUL 27	10 29 03.	150	ML=2.2	
JUL 31	10 45 37.	150	ML=2.1	
AUG 1	04 52 40.	150	ML=2.2	
AUG 1	11 46 21.	150	ML=2.4	
AUG 1	17 21 52.	150	ML=2.8	
AUG 5	20 58 54.	120	ML=3.2	
AUG 6	11 07 41.	140	ML=3.3	
AUG 28	02 13 52.	95	ML=1.8	
NOV 19	00 25 29.	25	ML=2.0	

TABLE 18

UNLOCATED EVENTS RECORDED AT PHC

DATE 1970	H-TIME (GMT) HR MN SEC	DELTA KM	MAGNITUDE	REMARKS
JAN 18	00 35 36.	15	ML=1.3	POSSIBLE MINE BLAST
FEB 1	23 29 36.	165	ML=2.7	PROBABLY AFTERSHOCK OF EVENT OF 01 FEB 23H WEST OF VANCOUVER ISLAND
FEB 3	10 28 28.	200	ML=2.7	
FEB 5	23 53 00.	165	ML=2.5	
FEB 10	22 51 14.	165	ML=3.2	
FEB 12	09 41 16.	165	ML=2.5	
FEB 18	00 17 17.	165	ML=3.2	
FEB 18	10 48 49.	165	ML=2.5	
MAR 1	12 33 37.	165	ML=2.5	
MAR 8	03 58 08.	115	ML=2.8	
MAR 9	13 49 51.	185	ML=2.4	
MAR 9	14 48 05.	165	ML=2.9	
MAR 11	13 22 22.	165	ML=2.4	
MAR 13	17 10 19.	115	ML=2.5	
MAR 14	07 03 51.	115	ML=2.1	
MAR 20	16 20 45.	165	ML=3.0	
MAR 22	20 13 28.	165	ML=3.0	
APR 3	01 39 37.	170	ML=2.5	MOST EVENTS IN THIS TABLE WITH DELTA 160 - 200 KM PROBABLY ORIGINATE WEST OF VANCOUVER ISLAND
APR 6	20 00 00.	150	ML=2.6	
APR 28	04 26 50.	150	ML=2.2	
MAY 6	23 00 56.	170	ML=2.4	
MAY 6	23 47 57.	170	ML=2.0	
JUN 7	04 30 46.	170	ML=2.3	
JUN 23	02 35 28.	170	ML=2.4	
JUL 15	07 12 12.	170	ML=2.3	
AUG 5	12 12 43.	160	ML=2.2	
AUG 5	16 43 10.	170	ML=2.7	
AUG 6	11 08 41.	160	ML=2.3	
AUG 7	13 29 52.	160	ML=2.8	
AUG 12	10 09 19.	160	ML=2.3	
AUG 14	12 19 53.	160	ML=2.8	
AUG 19	06 07 12.	160	ML=2.2	
AUG 22	18 39 01.	160	ML=2.5	
AUG 22	22 46 32.	160	ML=3.1	
AUG 25	18 14 30.	160	ML=2.0	
SEP 2	09 03 03.	160	ML=2.2	
SEP 3	07 17 40.	160	ML=2.3	
SEP 12	14 45 39.	120	ML=2.9	
SEP 12	18 57 02.	160	ML=2.1	
SEP 13	18 02 54.	160	ML=2.7	
SEP 17	22 04 07.	160	ML=1.8	NORTHWEST OF PHC. 250 KM FROM SANDSPIT
SEP 18	04 26 09.	160	ML=2.5	
SEP 21	01 57 11.	160	ML=2.1	
SEP 23	07 58 53.	160	ML=1.8	
SEP 24	09 53 09.	160	ML=1.6	
OCT 3	06 13 53.	160	ML=2.1	
OCT 3	09 48 01.	160	ML=1.9	
OCT 16	05 35 55.	160	ML=1.9	
OCT 18	03 54 15.	80	ML=2.5	
NOV 15	19 52 09.	180	ML=2.5	
NOV 15	20 25 02.	170	ML=2.9	
NOV 19	14 01 33.	160	ML=2.3	
NOV 25	12 01 42.	160	ML=2.3	
DEC 14	08 25 15.	160	ML=3.2	
DEC 22	01 25 31.	160	ML=2.0	
DEC 22	10 28 43.	160	ML=2.1	

TABLE 19

UNLOCATED EVENTS RECORDED AT ALB

DATE 1970	H-TIME (GMT) HR MN SEC	DELTA KM	MAGNITUDE	REMARKS
JAN 13	20 05 19.	20	ML=1.3	
JUL 5	04 56 34.	95	ML=2.2	110 KM FROM VIC
SEP 21	23 21 44.	60	ML=1.6	
OCT 16	18 36 20.	75	ML=2.3	

TABLE 20

UNLOCATED EVENTS RECORDED AT VIC

DATE 1970	H-TIME (GMT) HR MN SEC	DELTA KM	MAGNITUDE	REMARKS
JAN 9	00 10 36.	30	ML=2.0	
FEB 5	19 56 30.	30	ML=1.5	
FEB 6	20 30 33.	125	ML=2.1	
FEB 19	04 52 11.	35	ML=2.5	FELT BY SEVERAL PEOPLE IN VICTORIA
MAR 11	05 54 54.	45	ML=2.3	
JUN 9	11 37 44.	50	ML=2.2	
JUL 6	19 26 11.	280	ML=3.5	PROBABLY SOUTH OF VIC
SEP 20	15 46 27.	90	ML=2.8	
SEP 27	23 20 35.	90	ML=2.8	

TABLE 21

UNLOCATED EVENTS RECORDED AT MCC

DATE 1970	H-TIME (GMT) HR MN SEC	DELTA KM	MAGNITUDE	REMARKS
SEP 27	16 37 16.	80	ML=2.5	
DEC 5	12 05 23.	75	ML=2.1	

TABLE 22

UNLOCATED EVENTS RECORDED AT PNT

DATE 1970	H-TIME (GMT) HR MN SEC	DELTA KM	MAGNITUDE	REMARKS
FEB 6	12 43 50.	230	ML=3.2	



