A P P E N D I X B

Earthquakes Recorded at Seismic Survey Stations

July - December, 1947

EXPERIMENTAL FIELD STATIONS

The following stations are a semi-permanent installation. They are to be moved at irregular intervals of time on a line stretching from Kirkland Lake, Ontario to Ottawa. Outstanding earthquakes recorded on these instruments are included in the main body of this bulletin.

Instruments: Sprengnether electro-magnetic seismometers with galvanometric registration; period of seismometer and galvanometer both set at 1.9 sec.; magnetic damping in ratio 2.29:1; paper speed of 60 mm. per min.

KIRKLAND LAKE

Operating continuously.

φ = 48°09' N. λ = 80°03' W. Z component.

Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield.

DANE

Operating during summer season.

φ = 48°04' N. λ = 80°01' W. Z, NS, and EW components.

Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield.

VILLE MARIE

Operating continuously.

φ = 47°19' N. λ = 79°27' W. Z, NS, and EW components.

Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield.

TEMISKAMING

Operating during winter season.

φ = 46°40' N. λ = 79°04' W. Z, NS, and EW components.

Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield.

EXPERIMENTAL FIELD STATIONS

The following stations are a semi-permanent installation. They are to be moved at irregular intervals of time on a line stretching from Kirkland Lake, Ontario to Ottawa. Outstanding earthquakes recorded on these instruments are included in the main body of this bulletin.

Instruments: Sprengnether electro-magnetic seismometers with galvanometric registration; period of seismometer and galvanometer both set at 1.9 sec.; magnetic damping in ratio 2.29:1; paper speed of 60 mm. per min.

KIRKLAND LAKE

Operating continuously.

φ = 48°09' N. λ = 80°03' W. Z component.

Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield.

LANE

Operating during summer season.

φ = 48°04' N. λ = 80°01' W. Z, NS, and EW components.

Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield.

VILLE MARIE

Operating continuously.

φ = 47°19' N. λ = 79°27' W. Z, NS, and EW components.

Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield.

TEMISKAMING

Operating during winter season.

φ = 46°40' N. λ = 79°04' W. Z, NS, and EW components.

Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield.

Earthquakes Recorded at Seismic Survey Stations

July - December, 1947

***

	Kirkland Lake		
1 July 6	i	13:57:29	Strainburst felt by Hallick
	Kirkland Lake		
2 July 10	H	10:48.7	Ottawa No. 250
	iP	10:54:16	Saint Louis φ = 73° N.
	i	10:54:32	λ = 67° W.
	eS	10:58:51	H = 10:48:43
	i	11:01:45	
	△	2874	
	Kirkland Lake		
3 July 12	e	16:13	Ottawa No. 251
	Dane		
4 July 24	e	10:58:43	Ottawa No. 273
			Saint Louis φ = 19°1 S.
			λ = 169°4 E.
			H = 10:40:00
	Kirkland Lake		
5 July 24	e	12:35:38	Ottawa No. 276
	e	12:36:52	Reported in Ottawa Bulletin
			St. Louis φ = 19°1 S.
			λ = 170°2 E.
			H = 12:16:57
	Dane		
	eP'	12:35:44	
	e	12:36.8	
	e	12:42.6	
	L	13:20	

Kirkland Lake

6 July 24

e 22:25:22
e 22:26:31

Ottawa No. 277
Saint Louis φ = 34°0 N.
λ = 116°5 W.
H = 22:10:46

Kirkland Lake

7 July 25

e 6:36.0

Ottawa No. 281
Saint Louis - Aftershock of No. 6

Dane

e 6:35:59
e 6:36:26

Kirkland Lake

8 July 25

iP 19:19:32.2
e 19:21:31.9

On high speed record
Ottawa No. 282
Saint Louis φ = 23°5 S.
λ = 65°4 W.
H = 19:08:47
d = 400 km.

Dane

iP 19:19:30.1
e 19:20:01.7
i 19:28:15.5

Kirkland Lake

9 July 28

iP 3:56:22
e 4:05:52
L 4:09

Ottawa No. 288
Saint Louis φ = 62°9 N.
λ = 145°9 W.
H = 3:49:02

Dane

iP 3:56:23
e (EW) 3:58:05
e (NS) 4:02:59
e (EW) 4:06:06
L 4:09

	Kirkland Lake		
10 July 29	e	2:49:11	Ottawa No. 289
	i	2:49:12	
	Dane		
	e	2:49:11	
	i	2:49:12	
	Kirkland Lake		
11 July 29	iP	13:57:25	Ottawa No. 292
	e	14:01:38	Reported in Ottawa Bulletin
			Saint Louis φ = 28°2 N.
	Dane		λ = 93°2 E.
			H = 13:43:24
	iP	13:57:24	
	i	14:01:39	
	i	14:07:58	
	e	14:09.5	
	Kirkland Lake		
12 July 31	e	14:21:40	Ottawa No. 299
			Saint Louis φ = 2° N.
	Dane		λ = 84° W.
			H = 14:13:11
	e	14:21:38	
	Dane		
13 July 31	e	16:29:54.5	No trace at Kirkland Lake
	i	16:29:58	Probably purely local disturbance.
	Kirkland Lake		
14 Aug. 1	i	1:01:06	Ottawa No. 302
	e	1:01:49	
	Dane		
15 Aug. 1	e	14:41:36	Ottawa No. 305
	i	14:42:34	

	Kirkland Lake		
16 Aug. 5	i	7:56:32	Ottawa No. 310
	Dane		
	i	7:56:33	
	L	8:10	
	Kirkland Lake		
17 Aug. 5	e	14:38.0	Ottawa No. 311
	e	14:42.0	Reported in Ottawa Bulletin
	F	16:21	Saint Louis φ = 24°2 N.
			λ = 61°2 E.
	Dane		H = 14:24:14
	e	14:38.0	
	e	14,41.5	
	Kirkland Lake		
18 Aug. 6	iP	5:55:55	Ottawa No. 314
	ipP	5:56:42	Saint Louis φ = 8°6 S.
	e	5:57:51	λ = 70°3 W.
	i	5:59:44	H = 5:47:03
	i	6:03:06	d = 600 km.
	Dane		
	iP	5:55:56	Vertical seismograph in operation
	e	5:56:41	These readings from horizontal.
	i	6:03:05	
	i	6:04:41	
	Kirkland Lake		
19 Aug. 7	eP	0:46:17	Ottawa No. 322
	i	0:46:20	Saint Louis φ = 19°8 N.
	i	0:46:31	λ = 75°7 W.
	e	0:51:14	H = 00:40:22
			Epicenter provisional.
	Dane		Kirkland Lake record spoiled by slipping clutch after 0:53.
	eP	0:46:19	Only NS component operative at Dane.
	eS	0:51:14	

Kirkland Lake

20 Aug. 7

e 22:22:56
e 22:23:06
e 22:31:44

Ottawa No. 329

Dane

e 22:23:05

Kirkland Lake

21 Aug. 8

iP_2 5:39:37.6
iS_n 5:40:01.7
H 5:38:59.8
Δ 231 km.

Ottawa No. 330
Epicenter after Alvey (see Appendix C) φ = 46°21!5 N.
λ = 81°31' W.
H = 5:39:00.4

Dane

iP_2 5:39:36.9
eS_n 5:40:00.4
H 5:39:00.9
Δ 222 km.

Kirkland Lake

22 Aug. 9

e 2:59.0

Ottawa No. 337
Saint Louis φ = 1°5 N.
λ = 29°7 W.
H = 02:48:28

Dane

e 2:59.0

Kirkland Lake

23 Aug. 9

e 4:01.3

Ottawa No. 338

Dane

e 4:01.3

Kirkland Lake

24 Aug. 10

eP_n 2:48:26.2
eS_n 2:49:42.2
Δ 798 km.
H 2:46:41

Ottawa No. 340
Saint Louis φ = 42°0 N.
λ = 84°7 W.
H = 02:46:40

	Dane		
24 Aug. 10	eP_n 2:48:25 eS_n 2:49:41 Δ 798 km. H 2:46:40	This quake is being studied in d tail by J.T. Wilson of Ann Arbor. See also Appendix C fo epicenter by Alvey φ = 41°9 N. λ = 84°9 W. H = 2:46:40	
	Kirkland Lake		
25 Aug. 15	e 4:23:05	Ottawa No. 348	
	Dane		
	e 4:23:05		
	Kirkland Lake		
26 Aug. 16	e 18:46:01 e 18:52:25.0	On high-speed record. Ottawa No. 353	
	Dane		
	e 18:52:24.5		
	Dane		
27 Aug. 17	e 4:17.2	Ottawa No. 357	
	Kirkland Lake		
28 Aug. 18	e 6:18.6	Ottawa No. 361	
	Kirkland Lake		
29 Aug. 19	iP_1 20:56:44.9 eS_1 20:56:51.9	See Appendix C	
	Dane		
	iP_1 20:56:43.2 eS_1 20:56:50.3		

	Dane		
30 Aug. 22	i	12:50:41	Probably some local disturbance.
	i	12:50:49	Not sufficient phasing to interpret as a local earthquake.
	Kirkland Lake		
31 Aug. 24	e	9:27:41	Ottawa No. 374 This quake and the following ones may be local. The records, particularly that on the Ottawa Benioff suggest this. St. Louis reports a quake recorded fairly generally during the 09 hour which "appears to be a weak quake with an origin someplace in the West Indies".
	Dane		
	e	9:27:42	
	Kirkland Lake		
32 Aug. 24	e	9:33:08	Ottawa No. 375
	e	9:34:08	See note above.
	Dane		
	e	9:33:07	
	e	9:34:08	
	e	9:34:31	
	Kirkland Lake		
33 Aug. 24	e	10:15:37	No corresponding Ottawa number
	Dane		
	e	10:15:38	
	Kirkland Lake		
34 Aug. 24	e	11:50:03	Ottawa No. 383
	Dane		
	e	11:50:05	

Kirkland Lake

35 Aug. 25

e 5:52:57
e 5:53:15

Ottawa No. 387

Dane

e 5:52:50
e 5:53:00
e 5:54:23

Kirkland Lake

36 Aug. 27

i 13:56:42
e 13:58:47
e 14:01:45
F 15:12

Ottawa No. 390
Saint Louis φ = 37°8 S.
λ = 179°1 E.
H = 13:37:48

Dane

i 13:56:41

Kirkland Lake

37 Aug. 28

i 7:01:41
e 7:04:25

Ottawa No. 398
Saint Louis φ = 51°3 N.
λ = 156°6 E.
H = 06:50:36
d = 60 km.

Kirkland Lake

38 Aug. 28

i 14:40:26
e 14:43:12

Ottawa No. 402
Saint Louis φ = 54°0 N.
λ = 160°1 E.
H = 14:29:43
d = 50 km.

Kirkland Lake

39 Aug. 28

i 20:00:00

Ottawa No. 407
Exact time questionable.
Saint Louis φ = 29°9S.
λ = 70°8W.
H = 19:48:13
d = 100 km.

		Dane	
40 Aug. 29	e	16:36.2	Ottawa No. 414
		Dane	
41 Aug. 29	e	16:51.5	Ottawa No. 415
		Dane	
42 Aug. 30	i	22:33:04	Ottawa No. 423
	i	22:42:30	
		Dane	
43 Sept. 1	P_2	13:32:55.2	Ottawa No. 431
	S_2	13:33:22.4	See Appendix C
	Δ	225 km.	
	H	13:32:18.7	
		Kirkland Lake	
44 Sept. 2	e	14:51:02	Ottawa No. 433
			Saint Louis φ = 20°3 S.
			λ = 175°4 W.
			H = 14:32:40
			d = 250 km.
		Dane	
	e	14:51:01	
		Kirkland Lake	
45 Sept. 3	i	15:38:22	Ottawa No. 435
	e	15:40:59	
		Dane	
	i	15:38:21	
	e	15:40:59	
		Kirkland Lake	
46 Sept. 5	i	5:48:42	Ottawa No. 444
		Dane	
	i	5:48:42	

	Kirkland Lake		
47 Sept. 5	i	20:16:34	Ottawa No. 446
	Kirkland Lake		
48 Sept. 11	e	11:51.1	Ottawa No. 460 Tacubaya H = 11:44:36
	Kirkland Lake		
49 Sept. 14	e	19:33:49	See Appendix C Epicenter (Alvey) φ = 50.3 N. λ = 75.2 W. H = 19:29:40
	Temiskaming		
	P_2	19:30:57.5	
	S_2	19:31:53.4	
	Δ	490 km.	
	H	19:29:39.7	
	Kirkland Lake		
50 Sept. 15	e	15:04.3	Ottawa No. 467
	Kirkland Lake		
51 Sept. 19	i	10:34:52	Ottawa No. 473
	i	10:35:09	
	Kirkland Lake		
52 Sept. 23	e	7:50.6	Ottawa No. 479 Saint Louis φ = 53° N. λ = 162°7 W. H = 07:41:47
	Kirkland Lake		
53 Sept. 23	i	12:41:21	Ottawa No. 480 Saint Louis φ = 34°1 N. λ = 57°6 E. H = 12:28:22
	Temiskaming		
	i	12:41:19	

Kirkland Lake

54 Sept. 23 — i 12:47:05 — Ottawa No. 481

Temiskaming

e 12:47:05
L 13:23
F 13:41

Kirkland Lake

55 Sept. 23 — i 13:59:46 — Ottawa No. 482
Saint Louis φ = 40°2 N.
λ = 125°8 W.
H = 13:52:58

Temiskaming

i 13:59:48
L 14:14

Kirkland Lake

56 Sept. 25 — e 23:49.9 — Ottawa No. 485

Kirkland Lake

57 Sept. 26 — e 03:17:38 — Ottawa No. 486

Kirkland Lake

58 Sept. 26 — i 16:15:53 — Ottawa No. 487
i 16:19:01 — Reported in Ottawa Bulletin
e 16:20:07 — Saint Louis φ = 21°7 N.
i 16:20:24 — λ = 122°4 E.
H = 16:01:52
d = 150 km.

Temiskaming

e 16:16:02
e 16:20:22
e 16:26:26
e 16:27:17

	Kirkland Lake		
59 Sept. 27	i 22:20:18	Ottawa No. 488	
	Temiskaming		
	i 22:20:04		
	Kirkland Lake		
60 Sept. 28	e 11:56:33		
	Temiskaming		
	e 11:56:07		
	e 11:56:21		
	i 11:56:29		
	Kirkland Lake		
61 Sept. 28	e 17:33.5	Ottawa No. 489	
	Temiskaming		
	i 17:34:32		
	Kirkland Lake		
62 Oct. 3	e 6:27.4	Ottawa No. 505	
	e 6:35:00	Saint Louis	φ = 26° N.
			λ = 55° E.
			H = 06:14:00
	Kirkland Lake		
63 Oct. 3	e 8:17:55	Ottawa No. 506	
		Saint Louis	φ = 16°9 N.
			λ = 99°4 W.
	Temiskaming		H = 8:11:08
			d = 50 km.
	i 8:17:47		
	Temiskaming		
64 Oct. 3	e 22:57:26	Ottawa No. 508	
		See Appendix C	

	Kirkland Lake		
65 Oct. 3	iP 23:38:53 i 23:39:11 e 23:40.0 i 23:41:32 e 23:44.3 F 24:02		Ottawa No. 509 Saint Louis φ = 18°6 N. λ = 101°5 W. H = 23:32:15 d = 100 km.
	Temiskaming		
	iP 23:38:46 i 23:39:47		
	Kirkland Lake		
66 Oct. 6	e 18:53.4		Ottawa No. 516
	Temiskaming		
	e 18:53:17		
	Kirkland Lake		
67 Oct. 6	i 20:06:52 F 20:22		Ottawa No. 517 Reported in Ottawa Bulletin Saint Louis φ = 36°9 N. λ = 21°7 E. H = 19:55:40
	Temiskaming		
	i 20:06:55 i 20:07:00 i 20:11:30		
	Temiskaming		
68 Oct. 7	e 2:01:06 i 2:01:09 e 2:03:19 F 2:33		Ottawa No. 519 Saint Louis φ = 64°0 N. λ = 148°6 W. H = 02:57:30
	Temiskaming		
69 Oct. 7	e 3:18:36 e 3:19:46		Ottawa No. 520

	Temiskaming		
70 Oct. 8	e	6:11.8	
	Temiskaming		
71 Oct. 8	e	9:12.8	
	Temiskaming		
72 Oct. 9	e	0:37:54	Ottawa No. 529
	e	0:39:03	
	Kirkland Lake		
73 Oct. 10	e	7:44:11	Ottawa No. 534
	i	7:44:18	Saint Louis φ = 44°3 N.
			λ = 145°9 E.
			H = 07:32:47
			d = 300 km.
	Temiskaming		
	e	7:44:26	
	i	7:44:33	
	Kirkland Lake		
74 Oct. 11	e	21:39:04	Ottawa No. 543
	Temiskaming		
	e	21:38:58	
	Kirkland Lake		
75 Oct. 13	e	1:13:40	Ottawa No. 549
	eL	1:27	
	Temiskaming		
	e	1:13:54	
	eL	1:27.3	
	Kirkland Lake		
76 Oct. 15	e	4:17:02	Ottawa No. 558
	e	4:28.9	

	Ville Marie		
76 Oct. 15 (cont'd)	e	4:30:21	
	Kirkland Lake		
77 Oct. 15	i	19:42:10	
	e	19:43.6	
	e	19:54:55	
	F	20:07	
	Ville Marie		
	i	19:42:14	
	e	19:54:13	
	eL	19:55.5	
	Ville Marie		
78 Oct. 16	iP	2:17:22	Ottawa No. 567
	i	2:18:36	Reported in Ottawa Bulletin
	i	2:18:53	U.S.C.G.S. φ = 64°5 N.
	e	2:22:55	λ = 148° W.
	e	2:23:13	H = 2:09:45
			Kirkland Lake sheets being changed.
			No time marks at Temiskaming.
	Kirkland Lake		
79 Oct. 16	e	9:29:46	Ottawa No. 574
	e	9:42.8	
	Ville Marie		
	e	9:29.8	
	e	9:41:54	
	Kirkland Lake		
80 Oct. 16	e	11:30:12	Ottawa No. 575
	Ville Marie		
	e	11:30.3	
	e	11:43:25	

	Kirkland Lake		
81 Oct. 16	e	12:37:57	Ottawa No. 576
	Ville Marie		
	e	12:38:02	
	e	12:51.4	
	Kirkland Lake		
82 Oct. 16	e	14:20:44	Ottawa No. 577
	e	14:33.8	
	Ville Marie		
	e	14:20.8	
	e	14:33.4	
	Kirkland Lake		
83 Oct. 16	e	17:18:11	Probably not same shock at two stations. Ville Marie shock believed local. Not on Temiskaming. See Appendix C.
	Ville Marie		
	i	17:17:46.8	
	i	17:17:49.8	
	Kirkland Lake		
84 Oct. 17	e	0:49:33	Ottawa No. 580
	Ville Marie		
	e	0:49:39	
	Kirkland Lake		
85 Oct. 17	e	4:15:10	
	Temiskaming		
	e	4:14:57	

	Kirkland Lake		
86 Oct. 17	e	10:30:36	Ottawa No. 582
	e	10:32.0	
	e	10:48.8	
	Ville Marie		
	e	10:30:36	
	e	10:43.0	
	Temiskaming		
	e	10:44:06	
	Kirkland Lake		
87 Oct. 17	e	14:03:45	Ottawa No. 584
	i	14:03:46	
	Ville Marie		
	e	14:03:37	
	e	14:03:46	
	Temiskaming		
	e	14:03:34	
	i	14:03:35	
	Temiskaming		
88 Oct. 18	e	18:26:31	Ottawa No. 588 See Appendix C.
	Kirkland Lake		
89 Oct. 19	e	12:50:19	Ottawa No. 592
	e	12:51.8	
	eL	13:02.6	
	F	13:05	
	Ville Marie		
	e	12:50:24	
	eL	13:02.9	

	Kirkland Lake		
90 Oct. 20	e 1:50:45 e 1:52.2 e 1:57.0	Ottawa No. 598 Reported in Ottawa Bulletin U.S.C.G.S.	φ = 64°5 N. λ = 148°8 W. H = 1:43:16
	Ville Marie		
	e 1:50:50 e 1:56:20 e 1:57:04		
	Ville Marie		
91 Oct. 20	e 3:19.6	Ottawa No. 599 Trace only at Kirkland Lake	
	Kirkland Lake		
92 Oct. 20	e 16:48:21	Ottawa No. 601?	
	Kirkland Lake		
93 Oct. 21	e 21:57:12 e 21:57:19		
	Ville Marie		
	No times. Interval of 1.2 sec. on above phase.		
	Temiskaming		
	e 21:57:00.5 NS e 21:57:02.5 EW		
	Kirkland Lake		
94 Oct. 22	e 9:40:01.5	Ottawa No. 605 See Appendix C	
	Kirkland Lake		
95 Oct. 23	e 11:52.0	Ottawa No. 612	

	Temiskaming		
96 Oct. 25	e	22:35:12	Ottawa No. 627
	Kirkland Lake		
97 Oct. 27	e	11:24.6	Ottawa No. 630
	Temiskaming		
	e	11:24.6	
	Temiskaming		
98 Oct. 27	e	17:11.3	No Ottawa equivalent. Not present at other stations.
	Kirkland Lake		
99 Oct. 29	e	12:11:04	Ottawa No. 636
	Temiskaming		
	e	12:11:11	
	Kirkland Lake		
100 Oct. 29	i	19:39:41.5	Possible strain burst
	Kirkland Lake		
101 Nov. 1	e	6:19:09	Ottawa No. 646
	e	6:21:46	
	Temiskaming		
	e	6:21:53	

	Kirkland Lake		
102 Nov. 1	e	15:08:53	Ottawa No. 647 Reported in Ottawa Bulletin U.S.C.G.S. φ = 11° S. λ = 75° W. H = 14:58.9
	Temiskaming		
	e	15:08:43	
	i	15:08:52	
	i	15:08:59	Surface waves prominent.
	i	15:09:07	
	i	15:11:31	
	Kirkland Lake		
103 Nov. 1	e	15:38:28	Ottawa No. 648
	e	15:38:40	
	Temiskaming		
	e	15:38.7	
	Kirkland Lake		
104 Nov. 1	e	16:58.1	Ottawa No. 650
	Temiskaming		
	e	16:57:55	
	Temiskaming		
105 Nov. 1	e	20:54:33 NS	Not present at Ville Marie or Kirkland Lake.
	i	20:54:54	
	e	20:54:57	
	Kirkland Lake		
106 Nov. 1	i	21:15:30	
	Kirkland Lake		
107 Nov. 2	e	1:42.1	Ottawa No. 653 U.S.C.G.S. φ = 11° S. λ = 75° W. H = 1:32.2
	Temiskaming		
	e	1:41:58	

Kirkland Lake

108 Nov. 2

i 7:07:18 Ottawa No. 655
e 7:08:37 U.S.C.G.S. φ = 40° N.
F 7:15 λ = 127° W.
H = 7:00.3

Ville Marie

No times. Above phases prominent with interval of 1:18. Surface waves prominent.

Temiskaming

i 7:07:23
e 7:08:41
L Prominent
F 7:29

Kirkland Lake

109 Nov. 2

e 21:38.8 Ottawa No. 661

Temiskaming

e 21:38.7

Kirkland Lake

110 Nov. 3

P_n 19:52:18.8 Ottawa No. 663
S_n 19:52:42.9 See Appendix C.
? 19:52:51.8
? 19:52:53.8
Δ 205 km.
H 19:51:47

Ville Marie

S_n-P_n 24 sec.
Δ 207 km.

Kirkland Lake

S_n 19:52:53
Δ 254 km.

	Kirkland Lake		
111 Nov. 4	iP 00:21:27 i 00:21:35 i 00:21:41 e 00:31:45		Ottawa No. 666 U.S.C.G.S. φ = 43 N. λ = 140 E. H = 0:19.1 Secondary phases in P group very pronounced. No times at Ville Marie but same phases prominent with intervals of 8 seconds and 6 seconds.
	Temiskaming		
	iP 00:21:35 i 00:21:43 i 00:21:49 e 00:31:52 eL 01:01		
	Temiskaming		
112 Nov. 4	? 8:31:09 i 8:31:54		No trace at Ville Marie or Kirkland Lake.
	Kirkland Lake		
113 Nov. 4	i 10:04:19		Ottawa No. 674
	Temiskaming		
114 Nov. 6	e 21:06		Ottawa No. 688 See Appendix C.
	Kirkland Lake		
115 Nov. 7	e 23:10:18		Ottawa No. 697 U.S.C.G.S. φ = 11 S. λ = 75 W. H = 23:00.5
	Temiskaming		
	e 23:10:17		
	Kirkland Lake		
116 Nov. 8	e 4:14.6		Ottawa No. 698
	Temiskaming		
	i 4:14:46		

	Kirkland Lake		
117 Nov. 8	e	5:33.3	Ottawa No. 699 U.S.C.G.S. φ = 7° N. λ = 85.5 W. H = 5:25.9
	Kirkland Lake		
118 Nov. 8	e	6:57.3	Ottawa No. 700
	Temiskaming		
	e	6:57:17	
	e	7:00:47	
	Kirkland Lake		
119 Nov. 8	e	16:51.1	Ottawa No. 702
	Temiskaming		
	e	16:50.5	
	Kirkland Lake		
120 Nov. 9	e	5:16.7	Ottawa No. 705 U.S.C.G.S. φ = 23° S. λ = 171° E. H = 4:57.8
	Temiskaming		
	i	5:16:56	
	eL	6:03	
	Kirkland Lake		
121 Nov. 10	i	11:47:28.8	No Ottawa equivalent. Not present at Ville Marie or Temiskaming.
	i	11:48:08.5	
	i	11:48:15.3	
	Kirkland Lake		
122 Nov. 13	i	14:17:13	Possible strainburst

	Kirkland Lake		
123 Nov. 14	i	11:02:17	Ottawa No. 723 U.S.C.G.S. φ = 46° N. λ = 143° E. H = 10:50.5
	Temiskaming		
	i	11:02:23	
	Kirkland Lake		
124 Nov. 15	i	00:41:05	Strainburst felt by Hallick
	Kirkland Lake		
125 Nov. 15	i	19:33:53	Strainburst felt by Hallick
	Kirkland Lake		
126 Nov. 15	e	20:31.2	Ottawa No. 728
	Temiskaming		
	e	20:31.5	
	Kirkland Lake		
127 Nov. 16	e	12:00:03	Ottawa No. 730
	Temiskaming		
	e	11:59:51	
	Kirkland Lake		
128 Nov. 17	e	10:04:41	Ottawa No. 734 U.S.C.G.S. φ = 14 N. λ = 45 W. H= 9:56.0
	Temiskaming		
	e	10:04:31	

	Kirkland Lake	
129 Nov. 18	e 16:47.6	Ottawa No. 738
	Temiskaming	
	e 16:47.3	
	Kirkland Lake	
130 Nov. 18	e 17:33.8	Ottawa No. 739
	Temiskaming	
	e 17:33.7	
	Kirkland Lake	
131 Nov. 20	i 8:30:56	Ottawa No. 744 U.S.C.G.S. φ = 47° N. λ = 153° E. H = 8:19.3
	Temiskaming	
	i 8:31:06	
	Kirkland Lake	
132 Nov. 20	e 21:55:59	No Ottawa equivalent. Most prominent at Ville Marie, but no time corrections available.
	Temiskaming	
	e 21:55:45	
	Kirkland Lake	
133 Nov. 21	e 4:01:19 i 4:01:27 L 4:13 F 4:45	Ottawa No. 748 U.S.C.G.S. φ = 19° N. λ = 107° W. H = 3:54:15
	Temiskaming	
	e 4:01.3 i 4:01:23 L 4:11.7	

	Kirkland Lake		
134 Nov. 21	e	4:24:51	Ottawa No. 749 Aftershock of No. 133; superimposed on that record. U.S.C.G.S. H = 4:17:39
	Temiskaming		
	e	4:24.8	
	Kirkland Lake		
135 Nov. 22	e	8:08:57	Ottawa No. 758 Ottawa H = 8:00:47
	Kirkland Lake		
136 Nov. 23	eP	9:51:00	Ottawa No. 760 U.S.C.G.S. φ = 44°47' N. λ = 112°02' W. H = 9:46:05.5
	i	9:51:18	
	i	9:51:23	
	i	9:51:38	
	i	9:51:48	
	i	9:54:40	
	i	9:55:11	
	i	9:55:19	
	L	9:57.2	
	M	9:59.3	
	F	10:25	
	Temiskaming		
	iP	9:51:09	
	eL	9:57.8	
	F	10:25	
	Kirkland Lake		
137 Nov. 23	e	18:02:21	Ottawa No. 761
	Kirkland Lake		
138 Nov. 25	e	18:25:05	Ottawa No. 765 U.S.C.G.S. φ = 11° S. , = 75° W.
	Temiskaming		
	i	18:25:02	

	Kirkland Lake		
139 Nov. 26	i	17:15:21	Crush burst reported by Robson on 4325' level, Lake Shore.
	Kirkland Lake		
140 Nov. 28	e	8:59:11	Ottawa No. 772
	Temiskaming		
	i	8:59:22	
	Kirkland Lake		
141 Nov. 28	i	19:44:26	Possible strainburst
	Kirkland Lake		
142 Nov. 29	i	20:29:11	Possible strainburst
	Kirkland Lake		
143 Dec. 4	i	7:53:45	No Ottawa equivalent. Recorded at Ville Marie but no time corrections. Not recorded at Temiskaming.
	Kirkland Lake		
144 Dec. 13	e	23:12:49	
	Temiskaming		
	e	23:12:57	
	Kirkland Lake		
145 Dec. 14	e e	2:28:07 2:28:35	U.S.C.G.S. φ = 26° S. λ = 63° W. H = 2:16.2 d = 100 km.
	Temiskaming		
	e e	2:27:59 2:28:29	

	Kirkland Lake		
146	e	14:39:25	No Ottawa equivalent.
Dec. 15	e	14:41:15	Trace piled up. These times might be exactly 15 minutes too late.
	Kirkland Lake		
147	e	12:49.0	No Ottawa equivalent. Present at Ville Marie but time corrections questionable
	Temiskaming		
148	?	12:02:55	No Ottawa equivalent.
Dec. 21	e	12:03:16	Present also at Ville Marie.
	Kirkland Lake		
149	e	2:02:54	
Dec. 23			
	Temiskaming		
	e	2:02:44	
	Kirkland Lake		
150	i	3:59:57	Possible strainburst.
Dec. 24			
	Kirkland Lake		
151	e	5:41:59	
Dec. 24	e	5:43:12	
	e	5:47:05	
	Temiskaming		
	e	5:41:56	
	Kirkland Lake		
152	e	16:43:45	U.S.C.G.S. φ = 16° N.
Dec. 24	e	16:43:52	λ = 98° W.
			H = 16:36.5

	Kirkland Lake		
153 Dec. 24	e	17:43:35	
	Kirkland Lake		
154 Dec. 26	i	22:59:02	Strainburst felt by Hallick
	Temiskaming		
155 Dec. 28	P_n	20:00:01	See Appendix C
	P_2	20:00:22	
	S_n	20:01:23	
	Kirkland Lake		
	P_n	20:00:18	
	Kirkland Lake		
156 Dec. 30	i	2:02:40	U.S.C.G.S. φ = 9°5 N. λ = 84°5 W. H = 1:55.3
	Temiskaming		
	i	2:02:27	
	Temiskaming		
157 Dec. 30	e	17:24:57	
	e	17:25:00	
	Kirkland Lake		
158 Dec. 30	i	22:28:40	Possible strainbursts. Smaller amplitudes than usual.