

SVERIGES GEOLOGISKA UNDERSÖKNING

SER. C.

Avhandlingar och uppsatser

N:o 545.

ÅRSBOK 50 (1956) N:o 1

AN EARTHQUAKE CATALOGUE FOR
FENNOSCANDIA
FOR THE YEARS 1891—1950

BY

MARCUS BÅTH

Pris 3:— kronor

STOCKHOLM 1956
KUNGL. BOKTRYCKERIET. P. A. NORSTEDT & SÖNER
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The following catalogue contains all known earthquakes in Fennoscandia (Norway, Finland, Sweden) during the time 1891—1950. This period is characterized by fairly complete macroseismic observations but with instrumental data in only few cases. Before 1891 the macroseismic data are generally less complete, and after 1950 the instrumental records of Fennoscandian earthquakes become of far greater importance thanks to the installation of several seismograph stations with modern equipment.

The sources of the macroseismic data are given below. In addition references to special studies of various earthquakes are made in the remarks. In all cases where seismograph records have been available, they have been used for computation of origin time and also of the location of the epicentre. The location has been determined instrumentally in all cases when usable records have been obtained at two or more stations. The seismograph stations used are mentioned in the remarks. The seismological tables of JEFFREYS and BULLEN (1940) were used in these computations. Earlier determinations, some of them of the present author (BÅTH, 1953, pp. 193—195), have all been revised.

All the data in the macroseismic publications have been critically examined. Especially in the earlier years several doubtful cases were included in the reports. This concerns cases when in wintertime (usually by cold weather) series of small shocks are observed and cracks formed in the frozen ground. They are probably not seismic but just frost effects. A similar source of error is the formation of fissures in the ice on the lakes. In a few cases the detonation of mines on the Norwegian coast during the years 1918—1920 could have been taken for small, local shocks. Another instance are the cases where only sound is heard but no ground motion is felt. They may possibly be very small shocks, as they usually occur only in the seismic regions. However, I consider them too doubtful to be included in this catalogue. Several misprints (especially regarding the times of the shocks) were discovered in the macroseismic publications. No list of misprints will be given here, but in all cases where differences are found between the data in my catalogue and in the original macroseismic publications, it means that the given data have been corrected by me. In this connection I wish to acknowledge the very valuable help I have received from Dr. A. KVALE, Bergen, and Dr. K. E. SAHLSTRÖM, Stockholm.

The following notations are used:

I = intensity in the Modified Mercalli Scale (equivalent to the Mercalli-Sieberg Scale);

r = epicentral distance in km;

I_0 = maximum intensity (for $r_0 = 0$);

I_1 = intensity at distance r_1 ;

†1—560861. *S. G. U., Ser. C. N:o 545. Båth.*

I_2 = intensity at distance r_2 , and so on;

$I_1 = 2$ = intensity at the distance r_1 ;

r_1 = limit of perceptibility (see BÅTH, 1953, pp. 176—177);

M = earthquake magnitude.

The magnitudes have been determined in such a way as to get the best agreement which is possible at present with the GUTENBERG-RICHTER magnitude scale. See BÅTH (1953, pp. 176—178 and pp. 195—197).

Table I for each year contains all shocks with $M \geq 3.0$ and table II the weaker shocks, $M < 3.0$. Table I is fairly homogeneous, whereas table II cannot be homogeneous. For the smallest shocks there is too much left to the chance if they happen to be observed (of importance especially in thinly populated regions) or to be reported. We have also several examples of local shocks recorded by our most sensitive instruments, especially at Kiruna since 1951, but completely without macroseismic observations. Only the data in table I can generally be used for research; table II is to be regarded only as a complement to table I. As a consequence aftershocks of earthquakes in table I often have to be looked for in table II. The earthquakes are given in time order in both table I and table II for each year. By placing the two parts I and II for each year immediately after each other we have in all cases an immediate survey of all known earthquakes for a given year.

For reference purposes the earthquakes are numbered within each year. The last number in table I gives the number of shocks with $M \geq 3.0$ for the given year, and the last number of table II gives the total number of known earthquakes for the given year. The total number of shocks in the catalogue amounts to 1073, of which there are 323 with $M \geq 3.0$.

The origin time is expressed in GMT (Greenwich Mean Time). When based upon macroseismic observations it usually refers to the time of the strongest motion. When this time is given to a supposed accuracy of a minute, it is found by comparison with instrumentally determined origin times, that the error of the macroseismic time is generally less than five minutes. In the original reports various times have been used. The Norwegian reports use MET (Mean European Time; GMT = MET — 1 hour) from Jan 1, 1895. Before that Kristiania time = local Oslo time (GMT = local Oslo time — 43 min) was used. The Swedish reports have used MET for the whole of our interval. The Finnish reports use EET (East European Time; GMT = EET — 2 hours) since May 1, 1921; before that generally local Helsinki time (GMT = local Helsinki time — 1 hour 40 min) was used, but in several cases in the earlier years it is uncertain which time has been used. All these times have been converted into GMT in our catalogue.

When the epicentre location is based upon macroseismic data, it refers to the maximum intensity epicentre. However, in all cases in Fennoscandia for which I have made instrumental epicentre determinations, the agreements between the results of the two procedures have been perfect. In limiting off our area towards the Atlantic I have followed the rule to include only shocks with epicentres within 1° from the Norwegian coast. A few shocks further out, which

have been felt over large parts of Norway, are mentioned in notes in the catalogue. Epicentre locations by means of macroseismic observations become naturally very uncertain when the location is outside the coast. In several other cases the macroseismic areas extend into two countries. In all such cases I have combined the observations from both countries, as e. g. Norway and Denmark for shocks in Skagerrack, Norway and Sweden for shocks especially in the Oslo—Väner district, Sweden and Finland for shocks in and around the Gulf of Bothnia. No data on hypocentral depth have been given owing to the uncertainty of such calculations (see BÄTH, 1953, pp. 180—182).

The column "Quality" gives the estimated accuracy of origin time (small letters) and of epicentre location (capital letters) according to the following scheme.

- a = time error ≤ 5 min;
- b = time error > 5 min, but ≤ 30 min;
- c = time error > 30 min;
- A = location error $\leq 0.2^\circ$;
- B = location error $> 0.2^\circ$, but $< 1^\circ$;
- C = location error $\geq 1^\circ$.

Only great-circle arcs are meant in the designation of the location qualities. At 60° latitude, 1° along a great circle is equal to 2° longitude, and at 70° latitude, 1° along a great circle is very nearly equal to 3° longitude. The location quality B and sometimes C occur mainly in the following cases:

1. for observations on coasts, when the macroseismic area extends partly over the sea;
2. in thinly populated regions (inner parts of northern Fennoscandia);
3. for earthquakes with large macroseismic area and poorly defined centre. All our instrumental locations are of quality A.

The catalogue further gives the maximum intensity I_0 . When other intensity scales have been used in the original reports (see BÄTH, 1953, p. 176), they have all been converted to the Modified Mercalli Scale. As it is expected that our catalogue will be used also by those who are not familiar with this intensity scale, I give it here in an abridged form. See BULLEN, Theory of Seismology, 1947, pp. 253—254.

I = 1. Not felt except by a few under especially favourable circumstances.

I = 2. Felt only by a few persons at rest, especially on upper floors of buildings. Delicately suspended objects may swing.

I = 3. Felt quite noticeably indoors, especially on upper floors of buildings, but many people do not recognize it as an earthquake. Standing motor cars may rock slightly. Vibration like passing of truck.

I = 4. During the day felt indoors by many, outdoors by few. At night some awakened. Dishes, windows, doors disturbed, walls make creaking sound. Sensation like heavy truck striking building. Standing motor cars rocked noticeably.

I = 5. Felt by nearly everyone, many awakened. Some dishes, windows, etc., broken; a few instances of cracked plaster; unstable objects overturned. Dis-

turbance of trees, poles, and other tall objects sometimes noticed. Pendulum clocks may stop.

I = 6. Felt by all; many frightened and run outdoors. Some heavy furniture moves; a few instances of fallen plaster or damaged chimneys. Damage slight.

I = 7. Everybody runs outdoors. Damage negligible in buildings of good design and construction; slight to moderate in well-built ordinary structures; considerable in poorly built or badly designed structures; some chimneys broken. Noticed by persons driving motor cars.

I = 8. Damage slight in specially designed structures; considerable in ordinary substantial buildings, with partial collapse; great in poorly built structures. Panel walls thrown out of frame structures. Fall of chimneys, factory stacks, columns, monuments, walls. Heavy furniture overturned. Sand and mud ejected in small amounts. Changes in well water. Disturbs persons driving motor cars.

I = 9. Damage considerable in specially designed structures; well-designed frame structures thrown out of plumb; great in substantial buildings, with partial collapse. Buildings shifted off foundations. Ground cracked conspicuously. Underground pipes broken.

I = 10. Some well-built wooden structures destroyed; most masonry and frame structures destroyed with foundations; ground badly cracked. Rails bent. Landslides considerable from river banks and steep slopes. Shifted sand and mud. Water splashed (sloped) over banks.

I = 11. Few, if any, (masonry) structures remain standing. Bridges destroyed. Broad fissures in ground. Underground pipe lines completely out of service. Earth slumps and land slips in soft ground. Rails bent greatly.

I = 12. Damage total. Waves seen on ground surfaces. Lines of sight and level distorted. Objects thrown upward into the air.

In the remarks as many isoseismal curves (I_1-r_1 , I_2-r_2 , etc.) have been given as the material allows.

The radius of perceptibility r_1 has been determined so as to correspond to the macroseismic area A , i. e. $\pi r_1^2 = A$. The macroseismic areas can therefore be immediately obtained from r_1 . For local shocks felt only at a few places, I have chosen $r_1 = 10$ km.

The catalogue is accompanied by a geographical index. Our area has been divided into regions, each comprising 2° lat. \times 2° long. (see the map, fig. 1). The epicentres within the various regions are listed in this index. The reference numbers contain four figures, the first two referring to the year, the last two referring to the earthquake number. For instance 9511 means shock no. 11 in the year 1895; 0001 means shock no. 1 in the year 1900; 2805 means shock no. 5 in 1928, and so on. Within each region in the geographical index a division has been made into different magnitude groups, and this index may therefore also serve as a magnitude index. The catalogue together with the index can therefore give immediate information about all known earthquakes which occurred at a given time, or at a given place or have a given magnitude.

List of Macroseismic Publications.

- | Year | Norway |
|---------|---|
| 1891—93 | T. CH. THOMASSEN, 1893, Bergens Museums Aarbog, No. 3, pp. 1—57. |
| 1894 | H. REUSCH, 1895, Forhandl. i Videnskabs-Selskabet i Christiania, No. 10, pp. 1—11. |
| 1895—98 | J. REKSTAD, 1899, Bergens Museums Aarbog, No. 4, pp. 1—40. |
| 1899 | C. F. KOLDERUP, 1899, <i>ibid.</i> , No. 9, pp. 1—46. |
| 1900 | — 1900, <i>ibid.</i> , No. 8, pp. 1—12. |
| 1901 | — 1901, <i>ibid.</i> , No. 14, pp. 1—21. |
| 1902 | — 1902, <i>ibid.</i> , No. 11, pp. 1—35. |
| 1903 | — 1903, <i>ibid.</i> , No. 15, pp. 1—25. |
| 1904 | — 1905, <i>ibid.</i> , No. 4, pp. 1—35. |
| 1905 | — 1906, <i>ibid.</i> , No. 3, pp. 1—37. |
| 1906 | — 1907, <i>ibid.</i> , No. 12, pp. 1—43. |
| 1907 | — 1908, <i>ibid.</i> , No. 10, pp. 1—129. |
| 1908 | — 1909, <i>ibid.</i> , No. 10, pp. 1—33. |
| 1909 | — 1910, <i>ibid.</i> , No. 8, pp. 1—22. |
| 1910 | — 1911, Bergens Museums Aarbok, No. 16, pp. 1—21. |
| 1911 | — 1912, <i>ibid.</i> , No. 11, pp. 1—38. |
| 1912 | — 1913, <i>ibid.</i> , No. 12, pp. 1—19. |
| 1913 | — 1914—15, <i>ibid.</i> , No. 16, pp. 1—18. |
| 1914 | — 1914—15, <i>ibid.</i> , No. 17, pp. 1—11. |
| 1915—17 | — 1917—18, <i>ibid.</i> , Naturvidenskabelig Række, No. 10, pp. 1—16. |
| 1918—20 | — 1921—22, <i>ibid.</i> , No. 2, pp. 1—26. |
| 1921—23 | — 1923—24, <i>ibid.</i> , No. 2, pp. 1—21. |
| 1924—25 | — 1926, <i>ibid.</i> , No. 2, pp. 1—17. |
| 1926—29 | — 1930, Bergens Museums Årbok, Naturvitenskapelig rekke, No. 6, pp. 1—40. |
| 1930—31 | — 1931, <i>ibid.</i> , No. 9, pp. 1—20. |
| 1932—35 | — 1936, <i>ibid.</i> , No. 9, pp. 1—17. |
| 1936—37 | — 1938, <i>ibid.</i> , No. 6, pp. 1—8. |
| 1938 | N.-H. KOLDERUP, 1938, <i>ibid.</i> , No. 11, pp. 1—16. |
| 1939—41 | T. BIRKELAND, 1948, Univ. i Bergen, Årbok, Naturvitenskapelig rekke, No. 4, pp. 1—42. |
| 1942—44 | A. KVALE, 1952, <i>ibid.</i> , No. 19, pp. 1—72. |
| 1945—47 | — 1954, <i>ibid.</i> , No. 8, pp. 1—14. |
| 1948—50 | Data obtained personally from Dr. A. KVALE, Bergen. |

- | Year | Sweden |
|----------------------|---|
| 1891 | E. SVEDMARK, 1891—92, Geol. Fören. Förhandl., Stockholm, 13: 1, 14: 2, pp. 15—22. |
| 1892—94
(Feb) | — 1894, <i>ibid.</i> , 16: 3, pp. 1—36. |
| 1894 (Apr
—Dec) | — 1894, <i>ibid.</i> , 16: 6, pp. 1—46. |
| 1895—97
(Jan) | — 1896, <i>ibid.</i> , 18: 1—2, and 1897, 19: 2, pp. 1—29. |
| 1897 (June)
—1901 | — 1898, <i>ibid.</i> , 20: 7; 1901, <i>ibid.</i> , 23: 3; 1902, <i>ibid.</i> , 24: 2, pp. 1—46. |
| 1902—03 | — 1904, <i>ibid.</i> , 26: 3, pp. 201—209. |
| 1904—06 | — 1908, Sveriges Geol. Undersökning, Årsbok 2: 3, pp. 1—28. |
| 1907—10 | K. E. SAHLSTRÖM, 1910, <i>ibid.</i> , 4: 10, pp. 1—95. |

- 1911—12 — 1912, *ibid.*, 6: 1, pp. 1—31.
 1913—18 — 1919, *ibid.*, 13: 2, pp. 1—16.
 1919—25 — 1926, *ibid.*, 20: 2, pp. 1—34.
 1926—30 — 1931, *ibid.*, 25: 3, pp. 1—52.
 1931—35 — 1937, *ibid.*, 31: 3, pp. 1—35.
 1936—40 — 1941, *ibid.*, 35: 3, pp. 1—23.
 1941—50 — 1953, *ibid.*, 47: 3, pp. 1—33.

Year

Finland

- 1891—1929 H. RENQVIST (1930), J. E. ROSBERG (1912).
 1930—1950 Data obtained personally from Dr. KOROLEFF, Hydrographic Office, Helsinki.

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Earthquake Catalogue for Fennoscandia 1891—1950.

No.	Date	Origin time GMT		Epicentre		Quality	I_0	r_1	M	Remarks
		h	m	°N	°E					
1891: I										
1	Apr 21	22	05	66.0	29.1	bA	5	31	3.4	
2	» 21	23	20	66.0	29.0	cA	4	25	3.0	
3	Sep 16	09	10	68.9	27.2	bA	4	25	3.0	
1891: II										
4	Jan 1	10	38	61.6	4.8	aB	3	10	2.2	
5	» 13	05	00	63.9	15.1	bB	3 ^{1/2}	10	2.2	
6	» 15	17	27	66.5	12.9	aB	4	10	2.3	
7	» 18	01	45	58.2	16.6	bA	4	10	2.3	Two shocks, 6—7 min apart.
8	» 28	00	43	61.7	17.1	aA	3	10	2.2	
9	Feb 19	19	01	61.6	4.8	bB	3	10	2.2	
10	Mar 3	10	47	66.5	12.9	aB	4	10	2.3	
11	» 4	08	15	60.1	13.0	aA	4	18	2.8	
12	» 13	06	14	66.5	12.9	aB	3	10	2.2	
13	» 13	09	49	66.5	12.9	aB	3	10	2.2	
14	» 21	20	20	66.0	29.1	cA	4	18	2.8	
15	» 29	15	00	62.4	17.6	bB	3 ^{1/2}	10	2.2	Two shocks.
16	Apr 13	—	—	59.6	9.3	—A	3	10	2.2	During the night Apr 12—13.
17	May 5	23	56	61.6	4.8	aB	3	10	2.2	
18	July 27	—	—	62.7	18.1	—B	3	10	2.2	
19	Oct 9	19	08	61.4	16.4	aA	3 ^{1/2}	10	2.2	
1892: I										
1	May 15	14	51	60.9	6.0	aA	7 ^{1/2}	240	5.7	$I_1 = 5$, $r_1 = 82$. See THOMASSEN (1891), REUSCH (1895 b), KOLDERUP (1913, pp. 54—56). A few small foreshocks and aftershocks in the time May 14—20.
2	July 2	16	41	61.7	4.9	aA	4 ^{1/2}	23	3.1	
3	Sep 2	09	20	66.9	29.6	cA	4	31	3.1	
4	» 5	18	50	66.8	29.6	cA	4	51	3.5	
5	» 25	18	57	62.0	6.0	aB	4 ^{1/2}	84	4.1	
6	Nov 20	21	37	59.8	7.1	aB	5 ^{1/2}	140	4.7	See KOLDERUP (1913, pp. 64—65).
7	Dec 19	11	20	61.5	4.6	aB	4	40	3.4	
1892: II										
8	Jan 20	17	11	64.4	21.3	aB	3	10	2.2	
9	Mar 31	21	50	63.7	22.7	cB	4	10	2.3	
10	June 20	03	53	61.9	5.5	bA	4	10	2.3	
11	» 25	05	38	61.4	5.4	bA	3	10	2.2	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
1892: II										
(cont.)										
12	July 1	14	41	61.6	4.7	aB	3	10	2.2	
13	» 2	18	53	61.9	5.1	aA	3	10	2.2	
14	» 3	17	05	61.8	5.0	aB	4	10	2.3	
15	» 3	18	53	61.8	5.0	aB	3	10	2.2	
16	» 8	14	44	61.3	5.2	aA	4	10	2.3	
17	» 31	—	—	66.7	13.0	—B	3	10	2.2	
18	Aug 4	01	19	59.9	10.7	aA	4	10	2.3	
19	» 14	01	22	59.9	11.1	aA	4	(10)	2.3	
20	» 22	03	50	60.2	11.5	bA	4	10	2.3	
21	Oct 13	07	37	61.7	4.6	aB	3	25	2.9	
22	» 13	08	26	61.6	4.8	aB	3	10	2.2	
23	» 13	14	41	61.6	4.8	aB	3	10	2.2	
24	» 14—	23	00	56.6	14.4	bA	4	10	2.3	Two shocks, the first probably the strongest.
		15	30							
25	» 20	05	20	59.9	5.9	bA	4	10	2.3	
26	Nov 7	17	40	59.9	10.7	bA	4	10	2.3	
27	» 10	21	50	61.3	5.2	bA	4	10	2.3	
28	» 22	09	08	61.4	5.0	bB	4	14	2.6	
29	Dec 1	22	10	60.0	5.9	aA	3	10	2.2	
30	» 1	22	38	60.0	5.7	aA	3	10	2.2	
31	—	—	—	62.3	25.7	—A	(4)	20	2.8	Possibly not in 1892.
1893: I										
1	July 30	12	50	67.1	14.0	bB	4	30	3.1	
2	Oct 5	04	10	61.4	16.2	aA	4 ¹ / ₂	20	3.0	
3	Dec 8	02	50	61.8	4.8	bB	5 ¹ / ₂	63	4.1	
1893: II										
4	Jan 2	21	48	59.4	5.3	aA	3	10	2.2	One shock already at 18.40.
5	» 12	21	20	60.0	5.5	aA	4	10	2.3	
6	Feb 5	—	—	58.8	13.8	—A	3	10	2.2	During the night Feb 4—5. See KJELLÉN (1909).
7	Apr 5	07	15	62.4	17.6	aB	3 ¹ / ₂	10	2.2	
8	» 5	11	00	62.4	17.3	cB	3	10	2.2	
9	» 7	17	43	64.4	21.3	aB	3	10	2.2	
10	» 27	04	50	61.4	5.4	bA	4	10	2.3	
11	May 3	01	20	59.4	5.3	bA	4	10	2.3	
12	Sep 1	01	20	61.4	5.4	bA	4	10	2.3	
13	» 1	22	00	61.6	5.0	bB	4	10	2.3	
14	» 18	14	37	61.4	5.4	aA	3	10	2.2	
15	» 26	18	00	58.4	13.4	bA	3 ¹ / ₂	10	2.2	
16	Oct 22	14	00	65.1	20.0	bA	3	10	2.2	
17	» 28	05	08	61.4	5.4	aA	4	10	2.3	
18	Nov 6	22	10	64.4	21.3	aB	3	10	2.2	
19	» 7	02	51	61.6	4.5	aC	4	23	2.9	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r, km	M	Remarks
		h	m	°N	°E					
	1894: I									
1	Jan 2 -4	—	—	60.0	15.0	—C	4 ¹ / ₂	(500)	(5.4)	Several shocks, of which the strongest seem to have occurred at 22 ^h , Jan 2, and at 02 ^h , Jan 3. It is not excluded that the observations from widely scattered locations in the beginning of Jan 1894 (see also table II) are due to independent, local events, possibly not even of seismic origin.
2	» 5	06	00	58.7	16.3	cB	3 ¹ / ₂	35	3.2	
3	Apr 22	21	32	55.5	14.4	aB	5	80	4.1	A small foreshock on Apr 21, 03.30, and a few small aftershocks.
4	July 23	04	35	67.0	15.0	aC	5 ¹ / ₂	220	5.1	See REKSTAD (1899), KOLDERUP (1913, pp. 56—57).
5	» 30	17	43	61.7	4.9	aA	4	24	3.0	
6	Oct 6	15	13	59.4	5.0	aC	4	52	3.6	
7	» 30	07	54	67.2	14.0	aB	4 ¹ / ₂	130	4.4	See KOLDERUP (1913, pp. 66—67).
	1894: II									
8	Jan 1	—	—	60.5	27.1	—A	4	10	2.3	During the night Dec 31—Jan 1.
9	» 1	22	00	60.5	11.9	cA	4	10	2.3	Several shocks during the night Jan 1—2.
10	» 22	20	30	58.7	12.4	aA	4	10	2.3	Aftershock at 23.00.
11	» 24	16	30	60.4	15.4	aB	3	25	2.9	
12	Feb 12	—	—	58.0	7.5	—B	3	10	2.2	During the night Feb 11—12.
13	Mar 1	00	50	62.3	5.9	bA	3	20	2.7	One shock already at 10.20, Feb 28.
14	Apr 25	—	—	62.5	17.2	—A	3	10	2.2	During the night Apr 24—25.
15	» 30	19	07	55.5	13.2	aB	3	10	2.2	
16	May 24	22	45	65.5	12.4	bA	4	10	2.3	
17	Sep 2	—	—	59.7	9.8	—A	3	10	2.2	During the night Sep 1—2.
18	» 30	01	00	59.5	5.5	cA	4	14	2.6	
19	» 30	07	45	65.8	13.2	bA	3	10	2.2	
20	Oct 4	16	30	61.6	16.7	bA	3	10	2.2	
21	» 24	00	46	61.8	5.0	aB	3	10	2.2	
22	» 31	21	15	59.7	9.8	bA	3	10	2.2	
23	Nov 11	06	06	69.5	25.5	aB	3	10	2.2	
24	Dec 15	05	00	70.1	25.2	bA	4	23	2.9	
25	» (25)	—	—	62.8	6.5	—B	3	10	2.2	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁	M	Remarks
		h	m	°N	°E			km		
1895: I										
1	Jan 24	23	49	60.4	11.0	aB	4	35	3.3	
2	» 26	21	30	58.1	6.5	bB	4	25	3.0	
3	Feb 4	23	40	61.9	7.0	aB	6 ¹ / ₂	250	5.4	I ₁ =5, r ₁ =106. See REUSCH (1895 a), KOLDERUP (1913, pp. 57—59).
4	June 30	19	24	62.5	18.0	aB	4	55	3.6	
5	July 21	16	30	66.7	12.8	bB	4	36	3.3	
6	Nov 27	02	30	59.8	6.0	bA	4	58	3.7	
7	Dec 16	12	43	57.4	7.8	aB	5	110	4.4	See HINTZE (1896). Our solution is based on a combination of the Norwegian and the Danish data.
1895: II										
8	Jan 12	09	30	56.4	13.0	bA	3 ¹ / ₂	18	2.7	
9	» 28	02	00	56.8	14.0	cA	3 ¹ / ₂	10	2.2	
10	» 29	23	45	58.8	5.8	aA	4	10	2.3	
11	Feb 20	20	00	59.9	10.7	bA	4 ¹ / ₂	10	2.4	
12	» 21	15	13	59.9	10.7	aA	4	10	2.3	
13	Mar 3	20	30	68.7	16.8	aA	4	10	2.3	
14	» 8	00	00	59.9	10.7	bA	4	10	2.3	
15	» 11	00	31	62.1	8.8	aA	3	10	2.2	
16	» 23	19	13	64.4	21.3	aB	3	10	2.2	
17	» 25	22	00	61.2	6.8	bA	3	10	2.2	
18	» 31	15	07	69.5	25.5	aB	4	10	2.3	
19	Apr 2	22	15	69.5	25.5	aB	4	10	2.3	
20	» 15	15	05	66.7	12.6	aB	3	10	2.2	
21	May 15	—	—	62.4	17.3	—B	3 ¹ / ₂	10	2.2	During the night May 14—15.
22	» 28	05	10	67.9	13.0	aA	4	22	2.9	
23	June 6	00	07	64.0	11.5	aA	3	10	2.2	Another shock half an hour later.
24	July 1	02	00	62.6	18.0	bB	3	10	2.2	
25	» 8	—	—	62.4	17.3	—B	3	10	2.2	
26	» 14	17	05	66.7	13.0	aB	3	10	2.2	
27	Aug 28	02	58	60.7	5.2	aA	4	10	2.3	
28	Sep 11	—	—	69.5	25.5	—B	4	10	2.3	During the night Sep 10—11.
29	Oct 1	—	—	62.4	17.3	—B	3	10	2.2	
30	Dec 6	01	00	58.5	8.8	bA	4	10	2.3	
31	» 16	09	30	58.2	8.0	bA	3	10	2.2	
1896: I										
1	Jan 7	01	58	62.0	6.0	aB	4	89	4.0	
2	» 28	21	30	61.5	4.3	bC	4	120	4.2	
3	Mar 11	21	27	66.2	12.4	aB	4	40	3.4	
4	Apr 28	15	20	61.8	4.9	aB	4	47	3.5	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
1896: I										
(cont.)										
5	Sep 10	20	30	57.0	14.0	bB	4 ¹ / ₂	55	3.7	Probably small aftershocks on Sep 10, 23.30, and on Sep 21, 22.45.
6	» 19	21	15	61.4	4.5	aC	4	(35)	3.3	
7	» 22	—	—	58.7	16.5	—C	4	(30)	3.1	During the night Sep 21—22.
8	Oct 14	23	23	61.5	17.3	aB	4	40	3.4	
9	Nov 10	16	25	61.7	4.7	bC	4	28	3.1	
10	Dec 13	07	22	59.5	13.0	aB	5	100	4.3	
1896: II										
11	Jan 4	—	—	69.5	25.5	—B	4	10	2.3	During the night Jan 3—4.
12	» 7	21	44	63.4	10.3	aA	3	10	2.2	
13	» 8	00	15	63.4	10.3	bA	3	10	2.2	
14	» 10	01	35	63.1	7.8	aB	4	10	2.3	
15	» 19	21	00	61.3	5.2	aA	4	10	2.3	
16	» 25	21	15	60.9	5.0	aA	4	10	2.3	
17	» 28	23	35	60.6	6.4	aA	3	10	2.2	
18	Feb 25	21	00	68.8	17.1	bA	4	10	2.3	
19	Mar 1	12	43	64.4	21.3	aB	3	10	2.2	Doubtful.
20	» 8	15	41	60.7	11.3	aA	4	10	2.3	
21	» 17	21	26	61.6	4.7	aB	3	10	2.2	
22	Apr 13	21	40	63.4	10.4	aA	4	10	2.3	
23	Aug 10	03	45	61.8	5.0	aB	3	10	2.2	
24	» 17	01	42	61.6	5.0	aB	4	10	2.3	
25	» 20	05	05	69.5	25.5	aB	3	10	2.2	
26	» 28	20	30	61.7	4.8	aB	4	10	2.3	
27	Sep 28	19	45	61.8	5.0	aB	4	10	2.3	
28	Oct 12	18	40	64.4	21.3	aB	3	10	2.2	Doubtful.
29	» 21	16	25	56.5	14.5	bB	3	10	2.2	Two shocks, the second the strongest.
		17	00							
30	» 22	15	20	58.2	13.1	bA	3	10	2.2	
31	Nov 8	—	—	59.7	13.2	—A	3 ¹ / ₂	10	2.2	During the night Nov 7—8.
32	Dec 6	17	08	59.5	5.4	aA	4	13	2.6	
33	» 12	12	45	59.0	14.8	bA	3	10	2.2	
1897: I										
1	Jan 9	01	04	56.0	14.0	bB	4 ¹ / ₂	(45)	3.6	Three shocks; the shock at 01.15 probably the strongest, the one at 01.04 probably the weakest.
		01	15							
		01	45							
2	Feb 14	02	20	65.8	12.5	aB	5 ¹ / ₂	25	3.4	
3	Apr 14	09	30	61.5	5.0	aB	4	44	3.5	
4	» 16	23	50	62.0	5.0	bB	4	41	3.4	
5	June 14	04	20	66.2	12.2	bB	3 ¹ / ₂	70	3.7	
6	Nov 30	22	57	64.1	11.6	aA	4 ¹ / ₂	27	3.2	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
1897: II										
7	Jan 19	20	25	61.9	6.0	aA	3	10	2.2	
8	» 30	05	25	64.7	10.6	aB	4	10	2.3	
9	» 30	21	45	61.8	5.0	aB	3	10	2.2	
10	» 30	22	45	61.8	5.0	aB	3	10	2.2	
11	Feb 5	22	00	66.4	12.4	bB	4	10	2.3	
12	» 8	04	20	66.0	12.8	aA	4	10	2.3	
13	» 14	01	30	68.3	16.8	bA	4	10	2.3	
14	» 17	01	00	63.4	10.3	bA	4	10	2.3	
15	Mar 1	14	51	69.5	25.5	aB	3	10	2.2	
16	» 2	20	54	65.8	12.4	aA	4	10	2.3	
17	Apr 8	10	23	59.9	10.7	aA	3	10	2.2	
18	May 12	20	53	62.5	6.0	aB	3	10	2.2	
19	June 5	14	30	69.5	25.5	bB	3	10	2.2	
20	» 16	06	00	69.5	25.5	bB	4	10	2.3	
21	» 16	12	30	58.5	13.1	bA	3	10	2.2	
22	» 24	06	30	71.0	26.0	bB	3	10	2.2	
23	» 25	21	36	61.8	5.0	aA	3	13	2.4	
24	Sep 1	22	00	61.8	5.0	bB	3	10	2.2	
25	» 17	22	00	59.4	10.5	bA	3	10	2.2	
26	» 26	10	30	61.8	5.0	aB	3	10	2.2	
27	Oct 4	13	15	61.8	5.0	aB	4	10	2.3	
1898: I										
1	July 4	21	00	62.1	17.2	bB	4	65	3.7	
2	Sep 11	19	53	58.7	5.4	aB	4	47	3.5	
3	Nov 4	23	03	66.3	25.0	aA	5	240	5.0	See MOBERG (1900—01).
4	» 4	23	30	66.0	24.2	bB	4	126	4.3	
1898: II										
5	Jan 8	—	—	69.4	25.1	—B	3	(25)	2.9	
6	Feb 5	—	—	60.5	11.9	—B	4	10	2.3	Several shocks between Feb 5, 21.00, and Feb 6, 04.30.
7	May 2	09	30	56.1	12.9	bA	3 ^{1/2}	10	2.2	Three shocks between 09.30 and 10.00.
8	June 5	02	00	69.5	25.5	bB	3	10	2.2	
9	July 6	04	16	64.1	20.9	aB	3	10	2.2	
10	» 8	23	15	61.6	16.8	bB	3	10	2.2	
11	» 17	00	15	61.6	16.8	bB	3	10	2.2	
12	Sep 30	01	05	61.8	5.0	aB	3	10	2.2	
13	» —	—	—	65.5	27.1	—A	3	18	2.6	
14	Oct 21	03	40	61.8	5.0	aB	3	10	2.2	Two shocks.
		03	57							
15	Nov (15)	—	—	67.4	26.6	—A	4	18	2.8	Doubtful.
16	Dec 15	21	30	63.7	10.6	cA	4	10	2.3	Several shocks between Dec 15, 21.30, and Dec 16, 03.00.

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
	1899: I									
1	Jan 30	23	43	60.1	5.6	aA	6	160	5.0	I ₁ =5, r ₁ =44. See KOLDE- RUP (1899) and (1913, pp. 66-67).
	1899: II									
2	Jan 2	—	—	58.5	15.0	—A	4	10	2.3	
3	» 11	—	—	63.7	25.1	—A	3	10	2.2	During the night Jan 10 —11. Doubtful.
4	» 21	01	10	67.4	11.9	aB	3	10	2.2	
5	» 30	21	53	59.7	5.5	aA	3	10	2.2	Doubtful.
6	» 31	02	00	60.6	5.8	bB	3	10	2.2	
7	» 31	02	45	60.3	5.5	aA	3 ^{1/2}	10	2.2	
8	» 31	04	00	59.7	5.5	bA	3	10	2.2	
9	Feb 1	—	—	61.2	6.8	—A	3	10	2.2	
10	» 9	03	05	62.3	6.4	aA	3	20	2.7	
11	» 11	17	15	61.6	16.8	aA	3 ^{1/2}	10	2.2	
12	» 21	21	00	58.5	8.8	cB	4	10	2.3	
13	Mar 1	—	—	69.4	17.1	—A	4	10	2.3	
14	» 10	10	30	63.4	10.4	bA	4	10	2.3	
15	» —	21	20	65.5	28.0	—A	4	18	2.8	Doubtful.
16	Apr 4	17	48	59.6	5.6	aA	3 ^{1/2}	10	2.2	
17	» 13	19	58	61.6	5.0	bA	4	14	2.6	
18	» 22	02	14	59.9	6.7	aA	4	11	2.4	
19	June 6	08	14	69.5	25.5	bB	4	10	2.3	
20	» 23	15	58	68.4	16.0	aA	4	10	2.3	
21	July 16	13	00	68.1	16.3	bA	3	10	2.2	
22	» 17	03	20	66.3	27.9	cA	4	18	2.8	
23	Aug 3	—	—	59.2	6.0	—A	4	10	2.3	
24	» 31	09	32	66.4	12.4	aB	3	10	2.2	
25	Sep 21	20	13	66.7	12.6	aB	3	10	2.2	
26	Oct 20	11	00	63.1	25.8	bA	3	18	2.6	
27	» 21	21	55	63.0	25.9	bA	3	18	2.6	
28	» 29	19	45	61.4	5.0	aA	4	10	2.3	
29	Nov 3	00	00	60.4	5.4	cA	3	10	2.2	
	1900: I									
1	July 2	20	30	65.0	20.0	aB	3 ^{1/2}	(60)	3.6	
	1900: II									
2	Feb 8	21	15	63.3	10.2	bA	4 ^{1/2}	10	2.4	
3	» 24	14	00	61.6	5.0	bB	3	10	2.2	
4	» 24	15	00	61.3	5.2	bA	4	10	2.3	
5	Mar 4	11	00	69.5	25.5	bB	3	10	2.2	
6	» 7	—	—	63.4	10.4	—A	3 ^{1/2}	10	2.2	
7	» 16	11	03	64.4	21.3	aA	3 ^{1/2}	10	2.2	
8	July 11	14	00	68.6	15.4	cA	4	10	2.3	
9	» 30	22	55	66.7	12.6	aB	3	10	2.2	
10	Aug 7	15	15	59.0	10.0	bA	3	10	2.2	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
1900: II										
(cont.)										
11	Aug 14	05	12	61.6	5.0	aB	3	10	2.2	
12	» 30	03	18	63.9	11.3	aA	4	10	2.3	
13	Oct 2	21	00	66.4	12.4	bB	3	10	2.2	
14	Nov 1	00	30	62.4	5.6	bB	4	10	2.3	
15	» 15	—	—	61.6	5.0	—B	3	10	2.2	
16	» 17	21	42	62.3	6.5	aA	4	10	2.3	
17	» 19	17	53	62.3	6.4	aA	4	10	2.3	
18	Dec 27	22	00	57.1	12.8	bA	3	10	2.2	Doubtful.
1901: I										
1	Jan 13	19	45	61.6	17.1	bB	3	30	3.0	
2	Mar 8	05	43	61.7	4.7	bB	4	30	3.1	
3	June 25	09	35	68.5	23.6	bA	4	25	3.0	
4	Oct 30	10	50	60.7	22.7	bA	4	31	3.2	Two shocks. Doubtful.
5	Nov 9	22	58	59.7	13.8	aA	5	166	4.7	Small aftershock Nov 10, 01.30.
6	—	—	—	65.7	27.9	—A	5	25	3.3	Possibly not in 1901. Doubtful.
1901: II										
7	Jan 17	02	00	60.4	6.6	cA	3 ¹ / ₂	10	2.2	
8	» 17	11	15	60.3	6.3	aA	3 ¹ / ₂	10	2.2	
9	Feb 1	00	30	67.7	15.3	bA	4	10	2.3	
10	» 1	00	55	67.6	14.8	bB	4	(10)	2.3	
11	Mar 7	21	00	61.3	5.2	bA	3	10	2.2	
12	» 11	23	30	58.6	16.2	bA	3 ¹ / ₂	10	2.2	
13	May 11	22	45	62.1	5.6	bA	4	11	2.4	
14	July 15	19	25	61.8	6.5	bA	4 ¹ / ₂	10	2.4	
15	Oct 7	20	56	66.7	12.6	aB	3	10	2.2	
16	» 7	21	28	66.7	12.6	aB	3	10	2.2	
17	» 8	22	25	66.7	12.6	aB	3	10	2.2	
18	» 23	16	45	67.9	13.0	aA	3	10	2.2	
19	Nov 4	01	05	59.9	10.7	aA	3 ¹ / ₂	10	2.2	
20	» 4	11	15	59.9	5.2	bA	3	10	2.2	
21	Dec 8	16	27	65.0	24.8	aB	3	18	2.6	
22	» 13	06	40	62.6	8.4	aA	3	10	2.2	
23	» 13	07	10	60.5	6.7	bA	3	10	2.2	
1902: I										
1	Feb 9	02	49	59.5	4.0	aC	5 ¹ / ₂	100	4.5	
2	Mar (11)	02	50	65.3	27.2	cA	5	56	3.9	
3	Apr 10	19	30	64.3	27.6	aB	6	219	5.2	I ₁ =4 ¹ / ₂ , r ₁ =112. See ROSEBERG (1903—04).
4	» 29	13	15	57.2	13.4	bA	5	(70)	4.0	
5	Aug 17	13	45	58.6	9.8	aC	5	(55)	3.9	
6	Sep 4	09	00	65.5	11.0	bC	3 ¹ / ₂	(200)	4.5	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
1902: II										
7	Jan 25	15	00	61.6	5.0	bB	3	10	2.2	
8	Feb 8	18	00	60.0	6.1	bA	4	20	2.8	
9	Mar 1	16	15	58.7	5.6	bA	3 ¹ / ₂	10	2.2	
10	» 6	01	00	61.0	4.5	bB	4	10	2.3	
11	» 18	01	23	59.9	10.7	aA	3 ¹ / ₂	10	2.2	
12	May 13	06	35	60.7	30.1	bA	4	10	2.3	See ROSBERG (1903—04).
13	June 2	04	00	60.2	9.7	cA	4	10	2.3	
14	Aug 13	18	31	59.5	5.5	aA	3 ¹ / ₂	10	2.2	
15	» 31	19	20	63.1	22.9	cA	4	10	2.3	
16	Sep 6	05	30	67.4	11.9	aB	3 ¹ / ₂	10	2.2	
17	» 8	12	50	59.4	10.9	aA	3 ¹ / ₂	10	2.2	
18	» 8	13	25	59.4	10.9	aA	3 ¹ / ₂	10	2.2	
19	Oct 1	20	35	67.4	11.9	aB	3	10	2.2	
20	» 10	20	50	67.4	11.9	aB	3 ¹ / ₂	10	2.2	
21	» 12	—	—	55.5	13.9	—B	3	10	2.2	Two shocks of doubtful origin; date not exactly known.
	—18									
22	Dec 10	{ 13	25	64.5	25.6	bA	3	10	2.2	Two shocks. Doubtful.
		{ 13	45							
1903: I										
1	Apr 11	19	30	59.6	18.0	bA	4 ¹ / ₂	(20)	3.0	
2	Aug 26	17	58	59.8	14.7	aA	4 ¹ / ₂	55	3.7	
3	» 30	13	30	67.1	13.4	aC	4 ¹ / ₂	(40)	3.5	Several aftershocks: around 13.45, 14.25, and 17.00 on Aug 30 and 05.00 on Aug 31.
4	Sep 19	17	15	58.5	15.2	bA	5	25	3.3	
5	Oct 4	16	25	63.9	20.5	aA	4	(35)	3.3	
1903: II										
6	Jan 2	23	30	63.8	20.2	aA	3 ¹ / ₂	10	2.2	
7	» 19	14	00	61.6	5.4	bA	4	20	2.8	
8	Feb 1	23	00	61.6	5.4	bA	3 ¹ / ₂	20	2.7	
9	Mar 2	23	00	61.3	5.2	bA	3 ¹ / ₂	10	2.2	
10	Apr 12	11	45	61.8	6.0	cA	3 ¹ / ₂	17	2.6	
11	» 27	08	45	66.4	12.4	aB	3 ¹ / ₂	10	2.2	
12	May 10	13	30	59.7	10.1	bA	3	10	2.2	
13	June 21	12	00	61.8	6.2	cA	4	10	2.3	
14	Sep 16	06	35	61.6	5.0	aB	4	10	2.3	
15	Oct 10	19	50	64.5	28.2	bA	3	10	2.2	Doubtful.
16	» 16	16	13	61.6	5.0	aB	4	10	2.3	
17	» 20	12	00	68.3	13.7	bB	4	10	2.3	
18	Nov 11	17	15	58.3	7.5	aA	4 ¹ / ₂	10	2.4	
19	Dec 2	00	33	66.5	12.0	aB	3	10	2.2	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
1904: I										
I	Oct 23	10	27	59.2	10.5	aB	8	560	6.5	
<p>I₁ = 7^{1/2}, r₁ = 105; I₂ = 6, r₂ = 235; I₃ = 5, r₃ = 315. Origin time = 10.26.55 (Uppsala). Recorded at several stations. GUTENBERG and RICHTER (1954, p. 87) give the location as near 58^{1/2} N, 10^{1/2} E. This location does not fit the Uppsala record quite as well as our location, which is based on the macroseismic data. This earthquake, the largest in this catalogue, was preceded by a few small foreshocks and followed by a large number of aftershocks the following months. The most important of these are listed below and in table II. For the others see the following references. SVEDMARK (1904), SVEDMARK and ANDERSSON (1908), KOLDERUP (1905) and (1913, pp. 59—64), HARBOE (1910) and (1912), DOSS (1905), DEECKE (1903—05), STOLPE (1902—03), ROSENTHAL (1907, p. 133), ROSBERG (1912), KJELLÉN (1909, pp. 151—154).</p>										
2	Oct 25	00	25	59.2	10.5	aB	4	(60)	3.7	
3	» 26	05	27	59.2	10.5	aB	3 ^{1/2}	(80)	3.8	
4	Nov 18	02	30	59.6	11.5	bA	6	113	4.7	Small foreshocks on Nov 12, 20.30, and Nov 17, 20.30 and 23.00.
5	» 29	06	23	67.1	14.3	aA	5 ^{1/2}	43	3.8	Foreshocks about 02.00, 03.20, 04.00.
6	Dec 13	21	51	58.7	11.3	aB	4 ^{1/2}	100	4.2	
1904: II										
7	Jan 8	12	00	61.3	5.2	bA	3	10	2.2	
8	» 9	—	—	61.2	5.2	—A	3	10	2.2	During the night Jan 8—9.
9	» 16	01	03	60.1	6.2	aA	4	10	2.3	
10	Feb 28	20	11	60.3	6.7	aA	4	10	2.3	
11	Apr 5	22	40	61.9	6.2	aA	4	10	2.3	
12	» 22	22	30	59.6	10.3	bA	3 ^{1/2}	10	2.2	
13	» 29	23	12	59.1	9.7	aA	3 ^{1/2}	10	2.2	
14	June 4	07	45	67.4	11.9	bB	5	10	2.5	
15	» 4	12	35	67.4	11.9	aB	3	10	2.2	
16	July 14	04	53	67.7	11.9	aB	3 ^{1/2}	10	2.2	
17	Aug 5	09	00	59.8	12.6	cA	3	10	2.2	
18	Sep 11	19	27	62.0	5.5	aA	3	10	2.2	
19	» 27	—	—	58.3	14.6	—A	3	10	2.2	During the night Sep 26—27.
20	Oct 1	19	00	67.7	15.5	bA	3 ^{1/2}	10	2.2	
21	» 9	12	00	61.1	5.2	bA	3	10	2.2	
22	» 9	14	00	64.4	12.0	bA	3	10	2.2	
23	» 10	01	00	59.5	16.0	cA	3	10	2.2	Possibly Oct 9 instead of Oct 10.
24	» 17	21	30	57.6	16.2	bA	3	10	2.2	
25	» 18	—	—	62.7	13.7	—A	3	10	2.2	
26	» 20	03	50	62.5	17.6	bB	3	10	2.2	
27	» 20	—	—	59.3	18.1	—A	3 ^{1/2}	10	2.2	
28	» 20	13	55	62.5	17.8	aA	3	10	2.2	
29	» 21	03	15	57.6	12.1	aA	3 ^{1/2}	10	2.2	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks		
		h	m	°N	°E							
1904: II												
(cont.)												
30	Oct 23	00	45	61.3	17.1	bA	3 ¹ / ₂	10	2.2			
31	» 23	02	18	59.0	10.0	aB	4	17	2.7			
32	» 23	04	00	59.2	9.6	cA	3	10	2.2			
33	» 24	01	45	60.7	17.1	aA	3 ¹ / ₂	10	2.2			
34	» 26	00	30	58.8	11.8	bB	4	10	2.3			
35	» 26	01	00	55.8	13.3	bA	4	10	2.3			
36	» 26	02	46	56.2	12.9	aA	4	10	2.3			
37	» 27	14	45	61.3	5.2	bA	3	10	2.2			
38	» 28	22	00	59.2	11.3	bA	3 ¹ / ₂	10	2.2			
39	» 29	00	20	58.3	13.0	aA	3	10	2.2			
40	» 29	03	40	59.2	10.4	aA	3 ¹ / ₂	10	2.2			
41	» 29	16	15	61.3	5.2	bA	3 ¹ / ₂	10	2.2			
42	» 30	19	20	69.7	18.9	aA	3 ¹ / ₂	10	2.2			
43	Nov 4	03	00	59.9	10.7	cA	3 ¹ / ₂	10	2.2			
44	» 11	19	00	62.3	6.0	cA	3	10	2.2			
45	» 15	03	55	59.1	9.6	aA	3	10	2.2			
46	Dec 9	00	30	58.6	12.1	aA	3	10	2.2			
47	» 11	21	45	58.7	11.3	aB	3	10	2.2	Another small shock Dec 12, 02.10.		
48	» 27	20	00	59.5	10.7	bA	4	10	2.3			
49	» 27	21	30	59.1	9.6	bA	4	10	2.3			
1905: I												
1	Jan 13	22	00	60.0	16.0	cB	4 ¹ / ₂	70	3.9	Three shocks, of which the first two were of comparable magnitude and the third weaker. Small after-shock Jan 16, 04.00.		
	—14		23								02	aB
			02								00	cB
2	» 15	10	35	56.5	13.1	aA	3 ¹ / ₂	32	3.1			
3	» 29	12	55	59.8	10.6	aA	4 ¹ / ₂	27	3.2			
4	Feb 6	17	10	62.0	5.0	aC	5	154	4.7	Origin time = 17.09.(41) (Uppsala). Small foreshock at 16.00 and small after-shock at 17.35. See KOLDERUP (1913, pp. 67—68).		
5	July 3	21	27	58.6	10.9	aB	4	60	3.7			
6	Oct 9	12	07	59.3	13.9	aB	3 ¹ / ₂	60	3.6	Origin time = 12.07.08 (Uppsala).		
7	Nov 7	08	45	58.6	11.6	aA	3 ¹ / ₂	50	3.4			
8	Dec (25)	17	50	65.7	28.6	cA	4	45	3.5	Possibly in 1908 instead of 1905.		

Some of the shocks during the first half of January, 1905, seem to be doubtful. See also table II for 1905. They show characteristics very similar to the shocks in the beginning of January, 1894 (swarms of small shocks; formation of cracks in the frozen ground).

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁	M	Remarks
		h	m	°N	°E					
1905: II										
9	Jan 5	16	15	61.7	4.9	aB	3	10	2.2	
10	» 5	22	20	60.2	11.5	aA	3	10	2.2	
11	» 5	23	25	59.5	13.5	aA	3 ^{1/2}	10	2.2	Several small shocks during the night Jan 5—6.
12	» 6	06	25	67.9	13.0	aB	4	10	2.3	
13	» 8	—	—	58.7	11.5	—B	3	10	2.2	During the night Jan 7—8.
14	» 15	21	00	58.8	11.8	bA	3	10	2.2	
15	» 18	—	—	58.7	11.3	—B	3	10	2.2	During the night Jan 17—18.
16	» 28	23	40	59.9	10.7	aA	3	10	2.2	
17	Feb 2	01	00	61.1	4.7	cB	3	10	2.2	
18	» 3	08	30	58.8	11.8	bA	3	10	2.2	Doubtful.
19	» 6	—	—	59.7	9.8	—A	3 ^{1/2}	10	2.2	During the night Feb 5—6.
20	» 6	16	00	61.2	5.3	bA	3	10	2.2	
21	» 7	20	00	61.6	5.0	bB	4	10	2.3	
22	» 16	04	00	60.2	10.2	cA	4	10	2.3	
23	» 17	—	—	59.9	10.7	—A	3	10	2.2	During the night Feb 16—17.
24	Mar 1	20	13	60.3	5.3	aA	4	10	2.3	
25	» 16	00	54	57.8	13.1	aA	3 ^{1/2}	10	2.2	
26	» 17	06	00	59.9	10.7	cA	5	10	2.5	
27	» 20	11	30	58.8	11.8	bA	3	10	2.2	
28	Apr 2	01	30	59.1	10.9	bB	3	10	2.2	
29	» 21	07	30	59.5	15.1	bA	3 ^{1/2}	10	2.2	
30	» 28	22	15	59.9	10.7	bA	3	10	2.2	
31	May 21	21	30	62.0	5.6	bA	3 ^{1/2}	13	2.4	
32	July 4	00	30	59.0	11.1	bB	3	10	2.2	
33	Aug 23	12	40	61.7	4.9	bB	3 ^{1/2}	10	2.2	
34	» 25	19	28	64.8	11.5	aA	3	10	2.2	
35	Sep 7	13	48	58.5	15.1	aA	3	10	2.2	
36	Nov 6	05	30	60.4	10.3	aA	4	10	2.3	
37	» 7	08	45	58.9	11.5	aA	3 ^{1/2}	10	2.2	
38	» 26	12	30	60.0	6.1	bA	4	10	2.3	
39	—	—	—	60.6	24.9	—A	4	10	2.3	Possibly in the spring of 1905.
1906: I										
1	Jan 11	16	30	58.9	8.4	aA	4	37	3.3	
2	Feb 8	00	18	66.9	13.4	aB	5	50	3.8	See SZIRTES (1910, p. 14).
3	Mar 30	00	35	66.4	12.5	aB	4	47	3.5	
4	Apr 5	01	00	66.4	12.5	bB	4	47	3.5	
5	June 2	04	00	60.1	10.1	cA	4 ^{1/2}	20	3.0	
6	» 3	03	24	58.0	6.5	aB	5	93	4.3	Doubtful record at Uppsala.
7	Aug 7	19	50	64.5	25.0	cA	4	31	3.2	
8	» 29	23	00	67.3	14.6	aA	4	27	3.1	
9	Nov 17	19	26	61.7	5.0	aB	4	73	3.8	Possibly small aftershock 8 min later.

No.	Date	Origin time GMT		Epicentre		Quality	I_0	r_1 km	M	Remarks
		h	m	°N	°E					
	1906: I									
	(cont.)									
10	Dec 10	16	11	58.0	6.5	aC	$5\frac{1}{2}$	74	4.2	Origin time = 16.10.(36) (Uppsala).
	1906: II									
11	Jan 12	04	30	59.8	10.3	bA	4	10	2.3	
12	» 25	14	12	60.2	25.0	aA	3	10	2.2	Doubtful.
13	» 25	16	26	66.2	24.3	aA	4	10	2.3	
14	Mar 24	03	30	56.5	13.0	bA	4	17	2.7	
15	Apr 14	—	—	57.4	15.1	—A	3	10	2.2	A series of small shocks.
	—29									
16	» 29	01	00	66.2	13.9	cA	4	10	2.3	
17	» 30	13	08	59.1	10.4	aA	3	10	2.2	
18	May 7	16	43	57.4	15.1	aA	3	10	2.2	
19	» 27	13	53	64.9	20.2	aA	$3\frac{1}{2}$	18	2.7	
20	» 27	14	30	65.0	17.7	bA	4	10	2.3	
21	Aug 8	00	05	61.6	4.8	aB	4	10	2.3	
22	» 22	04	28	57.4	15.1	aA	3	10	2.2	Two shocks.
		05	13							
23	Oct 7	01	13	62.9	18.3	aA	3	10	2.2	
24	» 7	21	20	65.1	20.1	aA	3	10	2.2	
25	Nov 7	21	45	65.3	19.6	aA	3	10	2.2	
26	Dec 24	10	20	64.7	26.5	cA	4	10	2.3	Possibly 1908 instead of 1906.
	1907: I									
1	Jan 10	00	32	59.6	12.3	aB	$5\frac{1}{2}$	184	4.9	$I_1 = 4\frac{1}{2}$, $r_1 = 70$. Origin time = 00.31.52 (Uppsala). A few small foreshocks and aftershocks during the same night; a probable foreshock also on Jan 9, 05.30. See KOLDERUP (1913, p. 68).
2	» 14	13	03	65.5	11.0	aC	$5\frac{1}{2}$	(250)	5.2	Location possibly further out in the Atlantic. Recorded at Uppsala. See KOLDERUP (1913, pp. 68—69).
3	» 20	03	30	58.7	12.0	bB	3	30	3.0	
4	» 27	04	58	65.5	11.0	aC	6	(315)	5.4	See SZIRTES (1912, pp. 8—9). Recorded also at Uppsala. See KOLDERUP (1913, pp. 70—71).
5	Apr 5	01	25	58.4	13.1	bB	5	70	4.0	Possibly a small aftershock 10—15 min later.
6	May 26	10	32	64.4	20.3	aB	5	113	4.4	$I_1 = 4\frac{1}{2}$, $r_1 = 38$.
7	June 29	20	00	60.0	8.1	aA	$5\frac{1}{2}$	107	4.5	
8	Oct 5	04	07	59.7	10.0	aA	5	50	3.8	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
1907: II										
9	Jan 9	17	30	59.0	11.3	bA	3 ^{1/2}	10	2.2	
10	» 9	20	00	59.2	13.2	bA	3	10	2.2	
11	» 11	22	22	59.5	13.0	aC	3 ^{1/2}	10	2.2	
12	» 14	03	32	58.8	12.5	aA	4	10	2.3	
13	» (15)	05	00	56.7	13.0	bA	3	10	2.2	
14	» 17	12	30	59.4	13.1	bA	3	10	2.2	
15	» 17	21	33	61.5	5.0	aB	4	10	2.3	
16	» 19	00	19	61.5	5.0	aB	4	10	2.3	
17	» 20	01	34	61.5	5.0	aB	4	10	2.3	
18	» 20	02	45	61.2	5.3	bA	3	10	2.2	
19	» 29	—	—	56.8	13.2	—A	3	16	2.6	
20	» 31	03	30	56.9	14.0	bA	3	17	2.6	
21	Feb 6	17	00	58.1	13.6	bA	4	14	2.6	
22	» 19	10	30	62.4	5.6	bB	4	10	2.3	
23	» 23	04	45	62.4	17.3	bA	3 ^{1/2}	10	2.2	
24	Mar 2	22	30	56.9	13.5	bA	3	10	2.2	Two shocks of the same magnitude.
		—3	02	00	—	cA	—	—	—	
25	» 4	10	00	61.6	5.0	bB	3	10	2.2	
26	» 14	21	50	61.4	5.1	bA	3	10	2.2	
27	» 17	03	00	60.4	6.4	bA	3 ^{1/2}	10	2.2	
28	» 21	02	30	59.9	10.7	bA	3	10	2.2	
29	» 22	21	00	58.2	13.6	bA	4	10	2.3	Two shocks, the second the strongest.
		21	30	—	—	—	—	—	—	
30	» 31	20	30	61.8	5.0	bB	3	10	2.2	
31	Apr 9	20	30	58.2	12.8	bA	3	10	2.2	Doubtful.
32	May 23	18	26	61.5	5.0	aB	4	10	2.3	
33	» 29	—	—	65.8	24.1	—A	3	10	2.2	During the night May 28—29.
34	June 8	04	52	61.5	5.0	aB	4	10	2.3	
35	» 29	12	30	60.8	11.6	bA	3	10	2.2	
36	Aug 3	21	10	61.5	5.0	aB	3 ^{1/2}	10	2.2	
37	» 27	13	02	58.8	5.8	aA	3 ^{1/2}	10	2.2	
38	Sep 11	09	45	58.7	11.9	aA	3 ^{1/2}	14	2.5	
39	Oct 4	09	12	66.7	13.6	aA	4	10	2.3	
40	» 21	03	05	66.5	13.5	aA	4	10	2.3	
41	» 28	02	20	59.6	9.6	bA	3	10	2.2	
42	Nov 10	21	00	61.2	4.9	bA	4	18	2.8	
43	Dec 17	11	20	62.2	6.1	aA	3 ^{1/2}	10	2.2	
44	» 18	00	20	67.8	27.8	cB	4	10	2.3	
45	» 25	17	00	61.5	5.0	cB	3 ^{1/2}	10	2.2	
46	» 28	—	—	67.7	21.8	—B	4	11	2.4	
1908: I										
I	Jan 8	22	30	58.3	11.5	bA	5	III	4.4	I ₁ =4 ^{1/2} , r ₁ =21. Small foreshocks Jan 8, 19.00 and 20.00; small aftershocks Jan 9, 01.00 and 02.45.

No.	Date	Origin time GMT		Epicentre		Quality	I_0	r_1 km	M	Remarks
		h	m	°N	°E					
	1908: I (cont.)									
2	June 2	09	24	60.2	6.2	aA	4	44	3.5	
3	» 30	04	00	67.3	14.2	cB	$3\frac{1}{2}$	45	3.4	
4	» 30	04	53	67.3	14.3	aC	5	(180)	4.8	See SZIRTES (1913, p. 69). The waves given as P by SZIRTES are instead continental channel waves (Lg). Recorded also at Uppsala. Small foreshock at 03.45; small aftershock at 05.35.
5	Oct 9	10	44	61.6	4.7	aB	4	28	3.1	
6	Dec 16	20	10	66.4	12.5	aB	$4\frac{1}{2}$	50	3.7	Small aftershock at 22.00.
7	» 20	05	06	69.7	19.0	aA	$4\frac{1}{2}$	28	3.2	
8	» 29	18	38	59.4	5.3	aB	4	58	3.7	
9	» 31	21	17	64.4	22.1	aB	4	(65)	3.7	
	1908: II									
10	Jan 4	07	00	58.3	12.7	cA	3	12	2.3	
11	» 15	06	30	58.3	12.7	cA	3	10	2.2	Possibly Jan 16 instead of Jan 15.
12	» 20	03	30	60.2	5.0	bB	3	10	2.2	
13	» 30	17	20	63.7	22.7	cB	3	10	2.2	
14	Feb 1	01	30	58.9	12.8	bA	3	10	2.2	
15	» 3	18	35	58.9	12.8	bA	$3\frac{1}{2}$	18	2.7	Small foreshock at 18.20.
16	» 22	01	30	67.3	14.4	bB	$3\frac{1}{2}$	10	2.2	
17	» 24	00	00	58.1	6.8	cA	4	10	2.3	
18	» 28	20	00	59.6	9.6	cA	3	10	2.2	
19	Apr 2	05	00	61.8	5.0	cB	$3\frac{1}{2}$	10	2.2	
20	June 27	20	30	62.2	6.0	bA	4	16	2.7	
21	Aug 5	01	00	61.8	5.0	cB	4	10	2.3	
22	» 20	20	40	61.7	4.9	aB	3	10	2.2	
23	Nov 15	19	20	66.5	12.0	aC	3	28	2.9	
24	Dec 8	17	00	65.5	17.5	cB	4	10	2.3	
25	» 20	01	45	69.5	17.3	aB	$4\frac{1}{2}$	10	2.4	
26	» 25	—	—	63.6	23.0	—A	3	10	2.2	During the night Dec 24—25.
27	» 25	15	30	61.8	25.5	cA	3	25	2.9	It is possible that the shocks from Dec 25 to Dec 28 are not of seismic origin, but due to frost action.
28	» 26	17	20	62.6	23.8	cA	4	10	2.3	
29	» 27	—	—	60.6	24.9	—A	4	10	2.3	
30	» 27	22	44	60.6	24.9	aA	3	10	2.2	
31	» 28	23	20	64.9	25.8	cA	4	18	2.8	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
1909: I										
1	Feb 15	01	00	58.0	6.7	bB	4	34	3.2	Two shocks.
2	» 28	07	00	62.1	6.2	aA	4 ^{1/2}	20	3.0	
3	Mar 5	19	53	58.6	11.4	aB	4	65	3.7	
4	» 9	00	18	64.0	21.6	aB	5 ^{1/2}	190	5.0	
I ₁ =4 ^{1/2} , r ₁ =80. The solution given here is based on a combination of the Swedish data (SAHLSTRÖM, 1910) and the Finnish data (ROSBERG, 1912).										
5	» 15	07	58	59.0	11.2	aB	4 ^{1/2}	82	4.1	A small foreshock on Mar 14.
6	Apr 29	02	00	61.4	4.6	cB	4	56	3.6	
7	June 16	00	40	61.4	4.6	aB	4	36	3.3	
8	Aug 17	09	20	62.2	21.9	cA	4	47	3.5	Doubtful. See ROSBERG (1912).
9	Dec 15	05	10	61.7	4.5	bB	4	35	3.3	Possibly foreshock at 01.15.
1909: II										
10	Jan 8	23	50	63.5	27.2	bA	4	10	2.3	During the night Jan 9—10.
11	» 10	—	—	58.0	14.5	—A	3	10	2.2	
12	» 11	13	45	58.4	6.0	bB	3 ^{1/2}	10	2.2	
13	» 18	04	17	58.5	14.9	aA	3	10	2.2	
14	» 21	23	45	58.8	17.0	aA	3	10	2.2	
15	» 25	01	00	60.1	11.2	cA	4	10	2.3	
16	» 29	00	20	62.2	24.4	cA	4	10	2.3	
17	» 30	18	15	59.4	6.3	aA	3	10	2.2	
18	Feb 3	—	—	59.4	16.5	—A	3 ^{1/2}	10	2.2	
19	» 6	16	00	62.5	17.7	bA	3	10	2.2	
20	» 8	—	—	56.6	12.9	—A	3 ^{1/2}	10	2.2	
21	» 27	23	15	62.2	6.0	bA	3	10	2.2	
22	Mar 3	02	30	63.5	10.9	bA	3 ^{1/2}	10	2.2	
23	» 3	06	30	61.8	5.0	bB	3	10	2.2	
24	» 6	11	20	62.5	21.4	cA	4	10	2.3	
25	» 12	13	00	62.6	17.1	bA	3 ^{1/2}	10	2.2	
26	» 14	—	—	56.5	15.9	—A	3	10	2.2	
27	» 16	—	—	61.4	16.1	cA	3 ^{1/2}	10	2.2	A swarm of about 20 small shocks between 00 ^h and 03 ^h .
28	» 16	09	40	58.6	11.7	bA	3	10	2.2	
29	Apr 2	06	00	64.2	10.0	bB	4	20	2.8	
30	» 2	13	08	61.8	5.0	aB	3	10	2.2	
31	» 4	22	30	59.6	5.5	bA	3	10	2.2	
32	» 8	20	15	58.4	15.1	bA	4	20	2.8	
33	» 10	08	56	62.6	17.9	aA	4	12	2.4	
34	» 18	05	11	64.0	9.0	aB	3	10	2.2	
35	May 10	17	00	59.4	5.8	cA	4	10	2.3	
36	July 17	23	47	66.7	12.7	aB	3	10	2.2	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁	M	Remarks
		h	m	°N	°E					
	1909: II (cont.)									
37	July 27	—	—	56.0	14.0	—A	4 ^{1/2}	15	2.7	
38	Aug 17	14	20	62.2	21.4	cA	4	10	2.3	Doubtful.
39	» 18	—	—	62.2	21.4	—A	3	10	2.2	Doubtful.
40	» 19	—	—	62.2	21.4	—A	3	10	2.2	Doubtful.
41	» 24	—	—	62.5	21.4	—A	4	10	2.3	Doubtful.
42	Sep 26	21	57	61.6	4.7	aB	3	10	2.2	
43	Oct 21	07	00	62.1	5.0	bB	4	16	2.7	
44	» 25	14	30	59.2	10.9	bA	4	12	2.5	
45	» 27	03	38	61.6	4.7	aB	4	10	2.3	
46	Nov 9	15	37	61.4	6.8	aA	3	10	2.2	
47	Dec 13	21	40	59.2	10.8	bA	3	10	2.2	
48	» 20	08	10	60.7	5.1	aA	4	10	2.3	Two shocks.
		08	40							
49	» 21	06	30	60.1	5.9	bA	3	10	2.2	
	1910: I									
1	Feb 16	22	00	60.7	13.4	cA	4	24	3.0	
2	July 26	13	05	66.7	13.6	aA	4	42	3.4	
	1910: II									
3	Jan 16	08	45	65.7	24.0	aB	3	25	2.9	
4	» 19	22	45	61.4	10.0	bA	4	10	2.3	
5	Feb 12	22	00	58.5	14.9	cA	3	10	2.2	
6	Mar 3	08	30	60.4	6.4	bA	3	10	2.2	
7	» 8	05	00	63.3	19.0	bA	3	10	2.2	
8	» 11	21	00	63.3	19.0	cA	3	10	2.2	
9	» 15	—	—	56.3	14.7	—A	3 ^{1/2}	12	2.4	
10	» 23	23	45	61.6	4.7	aB	3 ^{1/2}	10	2.2	
11	May 3	21	30	61.8	16.8	bA	3 ^{1/2}	15	2.5	
12	» 15	—	—	61.5	17.1	—A	3	10	2.2	
13	» 15	23	00	59.4	17.7	cA	3 ^{1/2}	10	2.2	
14	» 16	22	00	59.0	11.2	cA	3	10	2.2	Possibly May 17 instead of May 16.
15	» 18	01	24	62.9	11.1	aA	4 ^{1/2}	10	2.4	
16	» 18	16	08	59.0	5.6	aB	3	10	2.2	
17	» 23	06	45	60.6	6.5	aA	3	10	2.2	
18	» 30	14	10	61.0	4.6	aB	3	10	2.2	
19	June 24	04	00	69.3	18.8	bB	3	10	2.2	
20	Aug 11	18	35	63.2	27.3	aA	4	10	2.3	
21	» 15	04	21	61.1	4.9	aA	4	22	2.9	
22	Oct 4	22	37	58.3	14.3	aA	3 ^{1/2}	10	2.2	
23	Nov 2	19	50	59.9	5.8	aA	3 ^{1/2}	10	2.2	
24	» 5	11	35	66.0	12.7	aA	3 ^{1/2}	10	2.2	
25	Dec 2	17	09	61.6	4.9	aA	3 ^{1/2}	12	2.4	
26	» 27	21	20	61.7	16.2	aA	3 ^{1/2}	10	2.2	
27	» 31	12	36	59.5	5.6	aA	3 ^{1/2}	12	2.4	

No.	Date	Origin time GMT		Epicentre		Quality	I_0	r_1 km	M	Remarks	
		h	m	°N	°E						
1911: I											
1	Jan 29	20	32	60.3	6.4	aA	$4\frac{1}{2}$	20	3.0	Three shocks, of which the one at 01.45 was the strongest. These shocks show characteristics very similar to those during the first half of January, 1905, and in the beginning of January, 1894. Their seismic origin is therefore not certain.	
2	» 29	23	30	59.5	13.8	bB	$4\frac{1}{2}$	60	3.8		
	—30	01	45			bB					
		05	00			cB					
3	Feb 3	11	26	60.0	5.9	aA	$4\frac{1}{2}$	72	3.9	$I_1 = 4\frac{1}{2}, r_1 = 28.$	
4	» 20	21	03	57.9	12.0	aA	$4\frac{1}{2}$	33	3.4		
5	» 24	18	13	64.6	11.5	aA	5	84	4.2		
6	Mar 22	20	10	64.6	21.2	aB	4	53	3.6		
7	Apr 18	06	40	58.0	7.4	aB	$4\frac{1}{2}$	56	3.7		
8	» 20	23	30	61.9	17.3	bB	4	60	3.7		
9	Aug 24	21	48	60.0	5.2	aA	5	204	4.9		
10	Sep 15	05	34	64.6	11.5	aA	$4\frac{1}{2}$	68	3.9		$I_1 = 4\frac{1}{2}, r_1 = 93.$ Origin time = 21.48.23 (Uppsala). See KOLDERUP (1913, pp. 70—71).
11	Oct 13	04	11	61.8	5.3	aB	$4\frac{1}{2}$	52	3.7		
12	Dec 26	08	55	62.9	27.6	aA	5	98	4.3		
13	» 27	—	—	65.1	27.5	—A	3	36	3.2	Origin time = 08.54.(41) (Uppsala). See ROSBERG (1912).	
14	» 28	—	—	65.1	27.1	—A	3	31	3.0	During the night Dec 26—27.	
15	» 29	15	55	61.9	4.7	aB	4	24	3.0		
1911: II											
16	Jan 3	01	30	59.9	10.7	bA	4	10	2.3	During the night Jan 30—31. See remark in 1911: I, Jan 29—30.	
17	» 3	20	20	59.9	10.7	aA	4	10	2.3		
18	» 9	05	00	55.5	14.3	cA	4	10	2.3		
19	» 11	09	00	61.8	12.7	cA	3	10	2.2		
20	» 29	20	45	63.2	17.2	aA	4	10	2.3		
21	» 31	—	—	60.3	12.8	—A	4	10	2.3		
22	Feb 10	23	05	59.9	5.9	aA	4	10	2.3		
23	» 19	16	35	58.9	9.5	aA	4	10	2.3		
24	Mar 11	22	15	64.7	21.1	aB	3	10	2.2		
25	Apr 1	16	00	60.6	10.8	cA	$3\frac{1}{2}$	10	2.2		
26	» 8	01	45	59.8	5.3	bA	$4\frac{1}{2}$	10	2.4		
27	» 10	23	20	63.1	21.6	cA	3	10	2.2		
28	» 16	02	55	60.6	15.6	aA	3	10	2.2		

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
1911: II										
(cont.)										
29	Apr 28	21	12	61.7	4.9	aB	3	10	2.2	
30	May 17	17	00	61.2	5.3	cA	3	10	2.2	
31	June 5	03	10	59.7	9.8	aA	4	10	2.3	
32	» 6	10	10	61.7	4.9	aB	4	10	2.3	
33	» 12	02	56	60.0	6.3	aA	4	20	2.8	
34	» 21	22	25	59.2	10.9	aA	4	10	2.3	
35	» 25	00	03	58.4	12.3	aA	3	10	2.2	
36	Aug 8	10	00	56.5	13.1	cA	3 ^{1/2}	10	2.2	
37	» 20	04	35	61.6	4.7	aB	3	10	2.2	
38	Sep 19	04	45	61.9	4.9	bB	4	10	2.3	
39	» 19	21	26	61.7	4.7	aB	4	20	2.8	
40	» 23	21	41	59.4	10.2	aA	4	10	2.3	
41	Nov 9	05	49	61.6	5.0	aB	3	10	2.2	
42	» 21	01	50	59.1	5.7	bA	4	22	2.9	
43	Dec 9	05	40	58.6	13.4	aA	3	10	2.2	Possibly Dec 2 instead of Dec 9.
44	» 24	—	—	64.9	26.9	—A	3	10	2.2	
45	» 26	—	—	65.3	27.3	—A	3	10	2.2	A series of small shocks from Dec 26, 1911, to Jan 10, 1912.
1912: I										
1	Jan 8	22	50	65.1	26.1	cA	3	40	3.2	
2	» 10	17	20	65.1	27.5	cA	4	36	3.3	
3	» 14	22	20	64.9	27.4	cA	4	25	3.0	
4	» 17	23	20	64.9	27.3	cA	4	25	3.0	
5	» 23	20	45	63.0	18.5	aA	4	35	3.3	
6	Feb 24	03	00	61.3	7.3	cA	5	22	3.2	
7	Mar 30	00	00	58.5	14.8	cA	4 ^{1/2}	20	3.0	
8	June 30	02	20	60.1	12.4	aA	4 ^{1/2}	28	3.2	
9	July 19	06	20	65.8	29.0	cA	4	40	3.4	
10	» 26	18	55	60.7	13.7	aB	4 ^{1/2}	35	3.4	
11	Sep 7	13	55	61.6	4.6	aB	4	24	3.0	
12	» 18	20	48	60.2	14.8	aA	5	70	4.0	Origin time = 20.48.24 (Uppsala).
13	» 21	09	08	59.6	12.6	aA	4	42	3.4	
14	Nov 18	10	12	61.0	5.2	aA	5	36	3.6	Origin time = 10.12.(29) (Uppsala).
15	Dec 4	04	30	59.4	12.2	bA	4 ^{1/2}	45	3.6	
1912: II										
16	Jan 1	15	00	61.6	4.7	bB	3	10	2.2	
17	» 17	09	35	61.6	4.7	aB	4	10	2.3	
18	» 22	03	25	58.9	11.8	aA	3	10	2.2	
19	» 23	03	30	58.9	11.8	cA	3	10	2.2	
20	» 28	23	20	58.8	11.8	aA	3	10	2.2	
21	Feb 2	03	40	66.7	13.0	aB	4	10	2.3	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
1912: II										
(cont.)										
22	Feb 2	05	00	60.3	16.4	cA	4	10	2.3	Possibly not seismic.
23	» 2	05	50	58.4	6.9	aA	5	10	2.5	
24	Mar 16	07	00	61.6	4.7	bB	4	10	2.3	Two shocks of similar magnitude.
25	» 18	11	15	65.0	21.3	bB	3 ^{1/2}	15	2.5	
26	Apr 2	08	25	61.7	5.0	aB	3	10	2.2	
27	» 24	00	00	59.3	9.9	bA	3	10	2.2	
28	May 15	10	00	63.5	16.5	cA	3	10	2.2	
29	June 29	15	26	65.3	12.1	aA	4	22	2.9	
30	July 3	02	54	61.6	4.7	aB	4	10	2.3	Several shocks of doubtful origin.
31	» 6	16	30	65.4	12.5	bA	5	10	2.5	
32	» 28	—	—	62.4	17.3	—A	3	10	2.2	
	—30									
33	Aug 13	15	30	63.8	20.3	bA	3	10	2.2	
34	Sep 9	01	00	62.1	5.1	bB	4	10	2.3	
35	Oct 29	19	00	57.5	14.7	cA	3	10	2.2	
1913: I										
1	May 13	23	15	61.6	4.7	aB	4	44	3.4	Origin time = 15.50.(15) (Uppsala). I ₁ = 5, r ₁ = 100. Origin time = 07.38.(20) (Uppsala). Origin time = 02.34.(00) (Uppsala).
2	» 27	23	36	61.3	4.7	aB	4	26	3.1	
3	July 19	15	50	64.0	8.0	aB	5	200	4.9	
4	Aug 4	07	38	61.4	5.8	aA	5 ^{1/2}	270	5.2	
5	Sep 11	02	34	67.5	13.5	aB	6	160	5.0	
6	Dec 14	02	00	57.9	7.5	cB	4 ^{1/2}	36	3.4	
1913: II										
7	Jan 13	19	52	61.7	4.9	aB	3	10	2.2	
8	» 16	11	30	61.7	4.8	bA	4	20	2.8	
9	» 30	00	30	66.2	13.3	bA	3	10	2.2	
10	Feb 27	03	00	56.2	15.3	cA	3 ^{1/2}	10	2.2	
11	Aug 6	14	30	61.2	5.0	aA	4	20	2.8	
12	Oct 7	01	50	61.7	5.0	aA	4	14	2.6	
13	Dec 22	22	30	61.2	5.0	aA	3	10	2.2	
1914: I										
1	Jan 24	22	14	64.5	21.0	aA	4 ^{1/2}	55	3.7	Aftershock at 22.50.
2	Dec 14	02	00	60.2	6.0	cA	4	28	3.1	
1914: II										
3	Jan 6	21	00	60.0	16.0	bA	3 ^{1/2}	15	2.5	
4	» 10	07	00	58.4	9.0	bB	4	20	2.8	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁	M	Remarks	
		h	m	°N	°E						km
1914: II											
(cont.)											
5	Jan 11	02	18	57.8	13.0	aA	4	10	2.3	Doubtful.	
		02	33								
6	Feb 2	06	57	60.5	6.8	aA	4	10	2.3		
7	Mar 8	02	00	68.4	16.8	cA	4	10	2.3		
8	June 20	20	00	61.8	4.9	bB	4	10	2.3		
9	July 2	06	30	56.8	13.4	bA	3 ^{1/2}	15	2.5		
10	» 11	17	38	61.7	4.9	aB	3 ^{1/2}	10	2.2		
11	» 22	01	30	55.5	13.0	bB	3	10	2.2		
12	Oct 11	—	—	61.3	30.7	—A	3	10	2.2		
13	» 22	—	—	61.3	30.7	—A	3	10	2.2		
14	Dec 15	16	30	60.2	6.3	bA	3	10	2.2		
15	—	—	—	65.9	26.7	—A	4	18	2.8		Possibly already in 1913.
1915: I											
1	Feb 5	08	11	63.2	21.5	aA	4	31	3.2		Origin time = 08.10.36 (Uppsala).
2	» 5	18	03	62.1	6.5	aA	5	24	3.2		
3	Mar 18	02	18	58.2	6.2	aB	4 ^{1/2}	34	3.4		
4	Aug 30	18	00	64.6	21.3	bA	4	36	3.3		
5	Nov 10	11	35	59.1	12.7	aA	4	35	3.3		
1915: II											
6	Jan 5	21	00	60.1	16.0	bA	3 ^{1/2}	15	2.5	Possibly Feb 22 instead of Feb 23.	
7	» 7	09	35	60.9	13.4	aA	3 ^{1/2}	10	2.2		
8	» 24	00	30	64.5	21.0	bB	4	10	2.3		
9	Feb 4	10	00	64.3	21.0	bA	3	10	2.2		
10	» 6	01	20	63.1	21.6	cA	3	10	2.2		
11	» 22	20	20	64.3	21.0	aA	3 ^{1/2}	10	2.2		
12	» 23	03	00	65.9	23.4	cA	4	20	2.8		
13	» 28	20	15	58.0	7.3	aB	3 ^{1/2}	10	2.2		
14	July 24	23	30	58.2	7.1	bA	3	10	2.2		
15	Aug 8	03	45	58.2	7.0	aA	4	10	2.3		
16	Oct 31	16	27	64.1	11.8	aA	3	10	2.2		
17	Nov 29	11	24	59.6	6.1	aA	4	10	2.3		
1916: I											
1	Mar 11	11	50	65.3	28.8	cA	4	44	3.4		
2	Aug 13	14	10	61.4	5.0	aB	4 ^{1/2}	36	3.4		
3	Sep 27	02	45	59.3	12.5	aB	4	53	3.6		
4	Oct 28	18	00	63.2	18.7	bB	4 ^{1/2}	60	3.8		
5	Nov 4	23	05	58.6	13.2	aB	4 ^{1/2}	47	3.6		
1916: II											
6	Jan 5	22	28	61.4	6.7	aA	3 ^{1/2}	10	2.2		
7	» 9	14	00	61.3	5.2	bA	4	10	2.3		
8	» 10	01	00	61.3	5.2	bA	(4)	10	2.3		

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
1916: II										
(cont.)										
9	Feb 11	07	00	66.4	13.3	bA	4	10	2.3	
10	» 17	00	30	57.1	13.3	bB	3	10	2.2	
11	» 24	—	—	57.1	13.3	—B	3	10	2.2	Several small doubtful shocks.
12	Mar 7	06	20	57.1	13.3	bB	3 ^{1/2}	10	2.2	Two doubtful shocks.
13	» 8	—	—	64.0	24.7	—A	3	10	2.2	Doubtful.
1917: I										
1	Jan 30	14	30	58.4	15.0	aA	3 ^{1/2}	33	3.2	
2	Apr 21	20	15	61.2	12.1	aA	4	28	3.1	
3	July 8	14	41	68.9	15.6	aA	5	68	4.0	Recorded at Uppsala.
4	Oct 11	10	14	61.4	5.2	aA	4 ^{1/2}	60	3.8	Origin time = 10.13.(47) (Uppsala).
1917: II										
5	Jan 31	19	00	57.2	12.4	bA	3	15	2.5	
6	Mar 24	11	30	61.3	5.1	aA	3	10	2.2	
7	Apr —	—	—	65.5	28.2	—A	4	18	2.8	
8	July 11	22	00	58.4	8.6	bA	3 ^{1/2}	10	2.2	
9	Aug 21	19	02	58.1	7.0	aA	3 ^{1/2}	10	2.2	
10	Oct 1	00	00	69.6	25.5	bB	5	10	2.5	
11	» 10	05	32	59.7	5.9	aA	4	10	2.3	
12	Nov 24	13	30	61.7	4.9	bB	4	10	2.3	
13	Dec 23	23	55	59.5	10.3	aA	4	10	2.3	
1918: I										
1	Apr 10	00	26	61.4	6.5	aA	5 ^{1/2}	180	4.9	I ₁ = 4, r ₁ = 90. After-shock at 02.35.
2	May 30	03	00	59.1	11.6	cB	4	(30)	3.1	
3	June 8	03	15	57.8	13.4	aB	4	30	3.1	
4	Aug 22	20	22	60.6	6.0	aA	5	74	4.0	
1918: II										
5	Feb 1	00	55	60.6	12.0	aA	4	20	2.8	
6	Apr 5	19	11	61.5	4.9	aA	4	24	2.9	
7	» 15	00	32	62.3	6.3	aA	3 ^{1/2}	10	2.2	
8	May 2	15	30	61.9	6.0	bA	3 ^{1/2}	10	2.2	
9	» 6	04	00	61.6	4.9	cA	3	24	2.8	
10	» 11	11	15	69.1	18.8	aA	4	16	2.7	
11	July 21	03	00	61.3	5.2	cA	3 ^{1/2}	10	2.2	
12	Aug 20	23	00	64.4	21.3	bA	3 ^{1/2}	10	2.2	
13	Oct 28	13	16	58.3	6.3	aB	3	10	2.2	
14	Nov 11	08	12	62.2	6.1	aA	3	10	2.2	
15	» 17	08	20	61.7	4.9	aB	4	10	2.3	
16	» 21	01	15	64.5	20.6	aA	3	10	2.2	
17	Dec 9	05	30	59.1	6.1	bA	3	10	2.2	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
1919: I										
1	Aug 17	10	05	61.5	5.3	aA	5	36	3.6	
2	Oct 14	05	45	60.9	4.6	aB	4	25	3.0	
1919: II										
3	Jan 6	23	50	61.8	6.2	aA	3	10	2.2	
4	» 28	23	54	60.2	5.6	aA	4	10	2.3	
5	Mar 1	13	30	64.0	10.2	bA	3	10	2.2	
6	» 30	12	30	59.4	5.5	bA	4	10	2.3	
7	Apr 17	12	00	59.7	5.4	bA	3 ^{1/2}	10	2.2	
8	» 23	22	28	60.5	6.7	aA	3 ^{1/2}	10	2.2	
9	May 5	15	40	60.8	4.7	aB	3	10	2.2	
10	» 9	13	22	60.8	4.7	aB	3 ^{1/2}	10	2.2	
11	» 9	14	21	60.8	4.7	aB	4	10	2.3	
12	» 10	13	06	60.8	4.7	aB	3 ^{1/2}	10	2.2	
13	» 12	10	17	60.8	4.7	aB	3 ^{1/2}	10	2.2	
14	June 30	10	20	61.6	4.7	aB	3 ^{1/2}	10	2.2	
15	Sep 1	11	30	63.4	10.5	bA	4	10	2.3	
16	» 4	18	40	61.0	4.6	aB	4	10	2.3	
17	Oct 21	13	30	64.0	10.2	bA	4	10	2.3	
18	» 21	18	30	61.9	6.0	aA	3 ^{1/2}	10	2.2	
19	Nov 9	00	19	61.6	5.0	aB	4	10	2.3	
20	Dec 21	09	49	60.6	5.2	aA	4	10	2.3	
1920: I										
1	Jan 9	09	05	57.4	13.0	aA	4	44	3.4	
2	Feb 28	01	12	59.7	13.4	aA	4 ^{1/2}	68	3.9	
3	Sep 6	04	36	66.9	14.0	aA	5	124	4.5	I ₁ = 4, r ₁ = 38. Origin time = 01.11.35 (Uppsala). Origin time = 04.36.17 (Uppsala, Abisko).
1920: II										
4	May 10	11	30	61.7	5.0	bB	3 ^{1/2}	10	2.2	
5	» 10	20	42	61.7	5.0	aA	3 ^{1/2}	10	2.2	
6	Oct 22	00	40	57.4	14.3	aA	3	10	2.2	
7	» 27	04	45	58.2	12.5	aA	3	10	2.2	
8	Nov 27	13	00	61.6	5.1	cA	3 ^{1/2}	10	2.2	
9	Dec 15	04	27	64.6	18.7	aA	3	10	2.2	
1921: I										
1	Aug 23	22	00	55.0	15.0	bC	5	(65)	4.0	Two main shocks of comparable magnitude.
2	» 23	23	45							
3	Nov 30	21	00	61.5	31.9	bA	5	18	3.0	
1921: II										
4	Jan 15	18	15	65.9	12.6	bA	5	16	2.9	
5	» 23	05	10	60.7	4.9	aA	4 ^{1/2}	10	2.4	
6	Mar 14	23	25	61.8	5.4	aA	4	10	2.3	
7	» 18	14	00	59.2	11.7	cA	3 ^{1/2}	10	2.2	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
1921: II										
(cont.)										
8	May 28	23	00	59.4	5.7	bA	3 ¹ / ₂	10	2.2	
9	July 13	04	05	61.7	4.8	aB	4 ¹ / ₂	10	2.4	
10	Aug 4	15	00	61.8	5.0	bB	4	10	2.3	
1922: I										
1	June 11	12	44	59.6	14.5	aA	4 ¹ / ₂	116	4.3	I ₁ =4, r ₁ =54. Origin time = 12.43.31 (Uppsala).
2	July 13	18	58	61.6	5.7	aA	5	84	4.2	Origin time = 18.57.(52) (Uppsala).
3	» 24	13	58	61.6	5.7	aA	4	58	3.7	
4	Aug 17	01	07	59.3	15.0	aB	4 ¹ / ₂	56	3.7	Origin time = 01.07.24 (Uppsala).
5	Oct 27	05	10	59.7	12.0	aB	4 ¹ / ₂	103	4.2	Origin time = 05.09.32 (Uppsala).
1922: II										
6	Apr 16	13	35	60.6	5.1	aA	3 ¹ / ₂	10	2.2	
7	May 27	19	55	61.0	10.7	aA	3 ¹ / ₂	18	2.7	
8	Aug 24	—	—	59.4	13.2	—A	3	10	2.2	A series of small shocks between Aug 23, 23.30, and Aug 24, 01.00. Doubtful.
9	Dec 28	15	45	60.5	6.5	bA	3	10	2.2	
1923: I										
1	Feb 26	05	00	60.0	13.0	bA	4	36	3.3	
2	Mar 3	20	36	59.8	12.7	aA	4	44	3.4	Origin time = 20.35.42 (Uppsala).
3	» 23	01	10	61.3	5.6	aA	5	90	4.2	Origin time = 01.10.11 (Uppsala, Bergen).
4	May 5	03	09	62.4	6.0	aB	4	114	4.2	Origin time = 03.08.(48) (Uppsala).
5	Oct 5	23	15	59.1	12.3	aA	4	33	3.2	
6	» 13	04	00	58.3	11.5	cB	3 ¹ / ₂	28	3.0	
7	» 13	14	40	61.3	4.7	aB	4	32	3.2	
1923: II										
8	Feb 24	21	20	60.2	25.0	aA	4	10	2.3	Doubtful.
9	Apr 8	05	00	61.5	5.2	bA	4	22	2.9	
10	May 13	13	30	61.7	4.8	aB	4	10	2.3	
11	Sep 7	20	45	67.4	15.1	bA	4	24	2.9	
1924: I										
1	Jan 5	09	01	59.2	11.5	aB	4	36	3.3	
2	May 5	06	20	61.8	5.4	aA	5	64	4.0	
3	Oct 5	21	30	66.1	22.0	bA	4	36	3.3	

No.	Date	Origin time GMT		Epicentre		Quality	I_0	r_1	M	Remarks
		h	m	°N	°E					
1924: II										
4	Jan 19	21	05	59.2	15.1	aA	4	16	2.6	
5	June 1	06	10	61.8	5.4	aA	4	24	2.9	
6	Aug 25	11	25	59.9	12.6	aA	3 ^{1/2}	14	2.5	
7	» (25)	—	—	66.8	25.3	—B	4	10	2.3	
8	Nov 14	10	00	61.7	4.8	cB	3	16	2.5	
9	Dec 15	03	30	60.4	10.4	bA	4	12	2.4	
10	—	—	—	67.0	29.2	—B	4	10	2.3	
1925: I										
1	Apr 21	22	00	61.0	4.4	bC	4	52	3.6	
2	Oct 20	21	33	61.5	7.7	aA	5	(30)	3.4	Small aftershock at 21.36.
3	Nov 15	20	50	60.7	10.0	aA	4 ^{1/2}	22	3.1	
1925: II										
4	Feb 5	05	45	61.3	6.9	bA	4	12	2.5	Small aftershock 10 min later.
5	Mar 30	10	03	66.9	30.3	aA	4	18	2.8	
6	Apr 16	07	45	60.2	5.5	aA	3	10	2.2	
7	» 17	08	12	59.6	5.4	aA	3 ^{1/2}	10	2.2	
8	May 7	05	30	65.9	22.1	bA	4	22	2.9	
9	Oct 5	06	30	61.7	4.9	bB	3	10	2.2	
10	Nov —	22	50	60.6	21.8	—A	5	10	2.5	Doubtful.
11	» 28	22	00	65.1	28.6	cA	3	10	2.2	
12	Dec 15	15	30	61.7	4.9	aB	4	10	2.3	
13	» (20)	—	—	65.0	28.1	—A	3	10	2.2	
1926: I										
1	Jan 4	08	30	69.9	29.4	bB	4	89	4.0	
2	Apr 10	02	12	67.4	15.0	aA	4 ^{1/2}	42	3.5	
3	» 22	04	30	60.9	21.5	bA	4	40	3.4	
4	Aug 5	17	10	65.4	29.2	aA	4	25	3.0	
5	» 18	13	58	65.8	28.5	aA	6	183	5.1	$I_1 = 5$, $r_1 = 62$; $I_2 = 4$, $r_2 = 114$; $I_3 = 3$, $r_3 = 139$. Origin time = 13.57.36 (Uppsala, Helsinki, Abisko). Recorded also at Wien, Hamburg, Pulkovo, Leningrad, Königsberg). See RENQVIST (1926).
6	Oct 9	19	00	65.6	28.6	bA	4	40	3.4	
7	» 16	—	—	65.5	28.3	—A	4	25	3.0	
8	» 17	22	55	59.5	5.3	aB	4 ^{1/2}	52	3.7	
9	» 19	17	17	57.8	7.5	aB	5	92	4.2	Origin time = 17.17.(29) (Uppsala).
1926: II										
10	Jan 7	15	00	59.5	5.3	cA	3	25	2.9	
11	» 14	15	33	61.5	4.8	aB	3	24	2.8	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
1926: II										
(cont.)										
12	Jan 17	22	00	61.3	30.7	cA	3	18	2.6	
13	Feb —	21	00	61.0	29.9	—A	4	10	2.3	Doubtful.
14	Mar 3	20	00	61.0	29.9	cA	4	10	2.3	Doubtful.
15	» 8	22	00	61.0	29.9	cA	4	10	2.3	Doubtful
16	Apr 14	02	30	63.7	11.3	cA	4	10	2.3	
17	Aug 25	14	20	65.5	26.8	aA	3	10	2.2	
18	Oct 3	00	30	65.7	23.1	cB	4	10	2.3	Doubtful.
19	Nov —	—	—	65.9	29.1	—A	3	10	2.2	
1927: I										
1	Jan 24	05	18	59.0	3.0	aB	6	440	5.7	Origin time = 05.18.18 (Uppsala, Helsinki, Copenhagen, Hamburg). Recorded also at several other stations (see Int. Seism. Summary). See GUTENBERG and RICHTER (1954, p. 223), KOLDERUP and KRUMBACH (1930) and (1931), TYRRELL (1932), BATH (1953, p. 193). Possibly a small foreshock about 02.00.
2	Feb 25	20	00	65.5	29.0	bA	5	86	4.2	
3	May 27	20	30	66.1	29.5	bA	4	31	3.2	
4	June 15	06	16	61.7	4.4	aA	4 ^{1/2}	110	4.3	Origin time = 06.16.21 (Uppsala, Bergen).
5	Sep 24	20	30	63.7	10.0	bA	4 ^{1/2}	26	3.2	
6	Oct 4	19	00	60.2	22.5	bA	4	25	3.0	
1927: II										
7	Jan 22	04	00	61.3	30.7	cA	3	10	2.2	
8	» 23	09	20	61.3	30.7	aA	3	10	2.2	Two shocks.
9	Feb 2	11	10	58.5	6.0	aB	4	20	2.8	
10	» 11	05	24	65.3	27.3	aA	3	10	2.2	
11	» 11	08	30	64.9	29.6	bA	3	10	2.2	
12	» 15	16	55	57.6	13.5	aA	3 ^{1/2}	18	2.6	
13	» 16	20	25	68.1	19.8	aA	3 ^{1/2}	25	2.9	
14	Mar 2	08	45	58.6	13.6	aA	4	17	2.7	
15	» 3	00	25	65.4	28.4	aA	3	10	2.2	
16	» (11)	—	—	65.4	28.7	—A	5	10	2.5	
17	Apr 26	00	00	61.3	30.7	cA	3	10	2.2	
18	May 24	23	40	65.8	30.0	bA	4	10	2.3	
19	June 24	22	00	61.3	30.7	cA	3	10	2.2	
20	Oct 15	14	28	60.1	6.5	aA	3 ^{1/2}	10	2.2	
21	Dec 1	04	00	59.3	14.1	cA	3 ^{1/2}	12	2.3	

No.	Date	Origin time GMT		Epicentre		Quality	I_0	r_1	M	Remarks
		h	m	°N	°E					
1928: I										
1	Feb 17	03	30	61.7	4.6	bB	$3\frac{1}{2}$	28	3.0	Two shocks, the first probably the strongest.
2	Apr 2	04	00	58.4	11.4	cA	4	26	3.0	
3	May 7	05	25	61.9	6.1	aA	4	30	3.1	
4	June 1	03	30	66.0	29.4	bA	4	30	3.1	
5	Dec 23	22	23	60.2	6.6	aA	5	38	3.6	
1928: II										
6	Jan 21	19	19	61.7	4.9	aB	4	10	2.3	Origin time = 22.31.55 (Uppsala).
7	Mar 20	03	35	58.2	13.6	aA	4	23	2.9	
8	Apr 8	02	16	61.6	4.9	aB	3	10	2.2	
9	» 27	22	32	60.0	15.8	aA	4	24	2.9	
10	June 13	16	50	60.2	10.3	aA	4	24	2.9	
11	July 23	05	40	61.6	4.8	bB	4	16	2.7	
12	» 27	14	55	58.8	14.0	aA	4	24	2.9	
13	Oct 29	18	40	59.6	5.9	bA	4	10	2.3	
14	Nov 28	14	00	60.9	11.5	cA	4	10	2.3	
15	Dec 24	01	00	60.6	6.4	cA	$3\frac{1}{2}$	10	2.2	
1929: I										
1	Jan 26	21	00	68.1	24.3	bC	4	31	3.2	Origin time = 08.05.(22) (Abisko). Origin time = 18.36.18. Location and origin time obtained by correcting the data given in the Int. Seism. Summary. See also LEHMANN (1929). Origin time = 23.31.05. See also Int. Seism. Summary. Possibly small aftershock on May 30, 03.00.
2	Apr 13	08	05	65.3	21.6	aB	$4\frac{1}{2}$	82	4.1	
3	May 23	18	36	57.5	7.4	aA	6	140	4.9	
4	» 29	23	31	57.7	7.3	aA	5	163	4.7	
5	July 8	13	40	61.0	10.5	aA	$4\frac{1}{2}$	48	3.6	
6	» 19	05	30	62.0	6.5	bA	$4\frac{1}{2}$	38	3.4	
7	Sep 1	20	13	60.8	4.8	aB	4	62	3.7	
8	Oct 26	13	44	57.0	13.5	aA	5	89	4.2	
9	Dec 1	19	10	58.1	16.7	bA	4	28	3.1	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
On June 10 an earthquake was felt over the whole of northern Norway. Origin time = 23.03.06 and probable location 71 N, 10 E. Magnitude \approx 6.0. See Int. Seism. Summary.										
1929: II										
10	Jan 17	22	30	61.4	12.1	bA	4	10	2.3	
1930: I										
1	Jan 10	12	05	60.0	13.0	aA	4	42	3.4	
2	Mar 10	22	36	62.9	17.7	aB	4 ^{1/2}	80	4.0	
3	» 28	22	47	59.1	5.9	aA	4	41	3.4	Recorded at Bergen.
4	Apr 3	17	47	69.0	24.0	aA	5	81	4.2	Origin time = 17.46.50 (Uppsala, Abisko, Pul-kovo). Aftershock on Apr 4, 01.00.
5	May 5	08	15	60.8	5.4	aA	5	34	3.5	
6	June 10	00	15	61.0	5.4	aB	4 ^{1/2}	81	4.1	Origin time = 00.14.31 (Uppsala, Bergen).
7	Sep 23	15	12	59.3	12.2	aA	4 ^{1/2}	59	3.8	Origin time = 15.11.41 (Uppsala).
8	Oct 31	23	17	55.3	12.8	aA	5	135	4.5	Origin time = 23.16.40. See Int. Seism. Summary and LEHMANN (1931). Possibly a small foreshock during the night Oct 8—9.
9	Nov 12	04	55	58.4	13.8	aA	4	61	3.7	
10	» 16	23	19	61.4	5.0	aB	4 ^{1/2}	35	3.4	
11	Dec 7	08	53	61.5	4.6	aB	3	32	3.1	
12	» 10	22	27	61.3	5.0	aB	4	43	3.4	
13	» 23	17	12	60.4	6.2	aA	4	47	3.5	Origin time = 17.12.12 (Bergen).
1930: II										
14	May —	—	—	55.4	13.5	—B	3	10	2.2	
15	Aug 31	01	30	56.5	13.3	bA	4	18	2.8	
16	Sep 26	05	23	60.7	5.7	aA	4	10	2.3	
17	Oct 2	17	05	58.4	16.6	aA	3	10	2.2	Doubtful.
18	Dec 26	21	09	62.2	6.0	aA	4	11	2.4	
1931: I										
1	May 25	23	30	59.2	10.8	aB	4 ^{1/2}	45	3.6	
2	June 7	00	15	61.2	6.4	aA	4	29	3.1	
3	» 28	00	40	67.1	14.5	aB	4 ^{1/2}	45	3.6	
4	Nov 7	22	10	62.3	6.2	aA	4 ^{1/2}	52	3.7	
5	» 9	19	43	67.7	15.3	aA	4	25	3.0	
6	» 16	03	21	62.5	25.8	aA	6	154	4.9	I ₁ = 5, r ₁ = 66; I ₂ = 4, r ₂ = 127. Origin time = 03.20.49 (Uppsala, Pul-kovo). Recorded also at Helsinki. Several small aftershocks. See KARJALAINEN (1936).

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
	1931: I									
	(cont.)									
7	Nov 16	19	30	62.5	25.8	aA	5	91	4.3	I ₁ = 4, r ₁ = 29.
	1931: II									
8	Jan 26	02	00	58.4	13.9	cA	3	10	2.2	
9	Apr 14	13	43	61.7	4.7	aB	4	16	2.7	
10	Sep 27	09	48	58.6	13.7	aA	4	12	2.4	
	1932: I									
1	Feb 11	16	33	56.0	14.6	aA	4	52	3.6	Origin time = 16.32.51 (Lund, Copenhagen).
2	Mar 18	07	30	63.0	22.7	bA	5	30	3.4	I ₁ = 3 ^{1/2} , r ₁ = 22. See KARJALAINEN (1936).
3	Apr 21	02	55	59.7	6.2	aA	4	35	3.3	Foreshock on Apr 20, 23.30; aftershock on Apr 21, 20.54.
4	Sep 3	19	06	58.6	13.0	aA	4 ^{1/2}	103	4.2	Origin time = 19.06.17 (Uppsala, Lund).
	1932: II									
5	Jan 4	21	17	61.8	14.0	aA	3 ^{1/2}	10	2.2	Doubtful.
6	Mar 10	02	00	62.5	23.1	bA	4	10	2.3	
7	» 17	18	00	63.2	23.1	bA	3	10	2.2	
8	» 24	19	40	62.8	22.9	bA	4	10	2.3	
9	» 24	23	40	62.8	22.9	bA	5	10	2.5	
10	Apr 12	06	55	56.2	14.3	aA	3	10	2.2	
11	» 12	20	09	56.2	14.3	aA	3	10	2.2	
12	July 2	02	00	59.0	12.0	cA	4	10	2.3	
13	Oct 18	05	50	58.9	5.6	aA	3	13	2.4	
	1933: I									
1	Aug 5	23	58	59.4	13.0	aA	5	125	4.5	I ₁ = 4 ^{1/2} , r ₁ = 31. Origin time = 23.57.52 (Uppsala, Lund).
2	Oct 31	23	02	61.5	5.5	aA	5	30	3.4	
	1933: II									
3	Mar 2	01	30	65.6	28.3	bA	3	10	2.2	
4	» 2	18	30	66.0	29.3	bA	3	10	2.2	
5	May 29	10	00	65.0	26.5	cA	3	10	2.2	
6	Oct 24	19	12	60.1	6.2	aA	4	10	2.3	
7	Nov 24	16	00	63.4	19.1	bA	4	10	2.3	One shock already at 03.00.
8	Dec 4	13	50	60.8	5.2	aA	5	13	2.8	
9	—	—	—	60.0	13.6	—A	4	13	2.6	In the early spring of 1933; two doubtful shocks at 04 ^h and 05 ^h .

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
1934: I										
1	Jan 3	13	45	64.6	18.8	bA	4	59	3.7	I ₁ = 4, r ₁ = 25; I ₂ = 3, r ₂ = 47. Small aftershocks during the following night. I ₁ = 4, r ₁ = 24; I ₂ = 3, r ₂ = 39. I ₁ = 4, r ₁ = 36; I ₂ = 3, r ₂ = 54. I ₁ = 5, r ₁ = 27; I ₂ = 4, r ₂ = 60. Recorded at Uppsala. See EKSTRÖM (1939). I ₁ = 3, r ₁ = 44.
2	» 11	22	05	62.0	23.8	aA	4 ^{1/2}	54	3.7	
3	Mar 23	20	00	66.2	22.3	bA	4	54	3.6	
4	Sep 26	03	15	66.8	24.5	aA	4 ^{1/2}	52	3.7	
5	Nov 2	16	40	62.2	28.0	bB	5	71	4.0	
6	Dec 12	20	10	60.2	23.2	aA	6	74	4.4	
7	» 13	19	36	60.2	23.2	aA	4 ^{1/2}	56	3.7	
1934: II										
8	Feb 10	23	30	63.7	9.6	bA	4	13	2.5	
9	Mar 1	11	30	66.4	21.6	bA	4	10	2.3	
10	Apr 24	07	00	67.0	23.1	bA	3	11	2.2	
11	July 24	22	30	61.9	16.9	bA	4	18	2.7	
12	Sep 26	15	00	67.5	25.0	bB	3	10	2.2	
13	» 28	00	05	59.2	9.6	aA	3	10	2.2	
14	Oct 3	19	15	65.0	20.1	aA	4	10	2.3	
15	Ncv 17	12	35	60.1	6.2	aA	3	10	2.2	
16	Dec 14	00	00	60.2	23.2	cA	3	15	2.5	
17	» 14	03	00	60.2	23.2	cA	3	15	2.5	
1935: I										
1	Jan 7	17	32	65.0	20.2	aA	4 ^{1/2}	80	4.0	I ₁ = 5, r ₁ = 10; I ₂ = 4, r ₂ = 53. See EKSTRÖM (1939). I ₁ = 3, r ₁ = 42. Further small aftershocks during the night. Origin time = 15.11.(46) (Uppsala). I ₁ = 4 ^{1/2} , r ₁ = 24. Origin time = 05.51.36 (Uppsala).
2	» 11	22	27	60.2	23.2	aA	5 ^{1/2}	74	4.2	
3	» 11	23	08	60.2	23.2	aA	4 ^{1/2}	62	3.8	
4	» 28	15	12	65.6	11.9	aB	4 ^{1/2}	79	4.0	
5	Aug 13	22	30	57.4	13.5	bA	4	34	3.3	
6	Oct 6	07	42	61.7	6.1	aA	4	79	3.9	
7	» 10	05	52	62.5	17.1	aA	5	74	4.0	
On July 17 an earthquake was felt over a large part of central Norway. Origin time = 00.04.19 and location 65.9 N, 7.2 E according to the International Seismological Summary. Magnitude ≈ 5.0 .										
1935: II										
8	Mar 15	17	58	66.0	24.2	aA	3 ^{1/2}	23	2.8	I ₁ = 3, r ₁ = 13.

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁	M	Remarks
		h	m	°N	°E					
1935: II										
(cont.)										
9	Mar 31	14	59	58.7	13.6	aB	4	18	2.7	
10	Apr 24	03	54	63.1	17.7	aA	5	10	2.5	
11	Aug 29	06	32	61.7	4.8	aB	4	20	2.8	
12	Dec 31	22	25	65.0	20.1	aA	3	10	2.2	
1936: I										
1	Jan 20	02	30	64.1	10.1	aB	4	60	3.7	
2	Apr 5	21	22	64.0	18.0	aB	4	98	4.1	Small foreshocks on Mar 20, (23), and 27; small aftershock on Apr 6.
3	Aug 14	10	53	59.6	6.0	aA	4 ^{1/2}	30	3.3	
4	Dec 2	10	10	63.3	15.7	aA	4	36	3.3	
1936: II										
5	Jan 1	02	19	61.8	17.2	aA	4	16	2.7	
6	Mar 23	19	30	57.9	12.6	bA	4	23	2.9	
7	Sep 12	13	40	59.4	12.2	aA	4	18	2.7	
8	» 19	16	17	63.1	18.1	aA	4	17	2.6	
1937: I										
1	Jan 9	00	19	61.5	5.5	aA	4	83	3.9	
2	Feb 28	06	50	63.3	10.1	aA	4	30	3.1	
3	Oct 9	21	03	56.8	13.0	aA	4 ^{1/2}	46	3.6	Origin time = 21.03.04 (Copenhagen). Aftershock at 23.30.
1937: II										
4	Jan 2	01	00	65.6	17.5	cA	3 ^{1/2}	10	2.2	
5	Mar 5	16	55	56.5	13.0	aA	4	20	2.8	Small aftershock on Mar 6, 01.00.
6	Apr 13	06	45	66.0	29.6	aA	3 ^{1/2}	25	2.9	I ₁ = 3, r ₁ = 13.
7	» 13	12	00	66.2	29.7	bA	3	10	2.2	
8	» 13	19	40	64.5	12.2	aA	4	18	2.8	
9	Aug 4	10	45	66.8	13.4	aB	3	10	2.2	Two shocks.
		17	18							
1938: I										
1	Mar 11	16	08	61.9	4.2	aA	5 ^{1/2}	268	5.2	Origin time = 16.08.20 (Uppsala, Abisko, Bergen, Copenhagen, Hamburg). See BÅTH (1953, p. 194).
2	Apr 2	18	10	71.1	26.5	aB	5	45	3.7	
3	May 19	11	40	66.8	17.9	aA	4	42	3.4	
4	Sep 9	23	30	60.0	7.0	bB	4 ^{1/2}	(55)	3.7	
5	» 15	04	43	60.1	5.0	aB	3 ^{1/2}	32	3.1	Origin time = 04.42.(30) (Bergen).
6	» 27	20	42	58.1	13.3	aA	4	33	3.2	

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
	1938: I									
	(cont.)									
7	Dec 1	22	50	60.3	10.1	aA	3 ¹ / ₂	41	3.3	
8	» 8	16	09	58.6	13.5	aA	4	43	3.4	Origin time = 16.08.(56) (Uppsala).
	1938: II									
9	Mar 11	09	40	58.9	11.1	bB	3	23	2.8	
10	Aug 11	04	34	59.9	8.8	aA	3	10	2.2	
11	Nov 19	03	30	69.1	23.1	bB	4	10	2.3	
	1939: I									
1	Jan 5	03	45	65.8	22.3	aA	4	38	3.4	
2	Feb 14	02	40	61.6	6.0	aA	4	52	3.6	
3	Apr 11	17	30	60.3	8.5	aA	5	(45)	3.7	
4	» 30	09	30	69.4	19.7	bA	5	27	3.3	
5	June 22	14	11	61.4	5.0	aA	5	72	4.0	Origin time = 14.11.22 (Uppsala, Bergen, Copenhagen). See BATH (1953, p. 195).
6	July 22	06	21	61.7	4.8	aB	3 ¹ / ₂	27	3.0	
7	Oct 9	10	09	58.0	7.6	aB	5	135	4.6	
8	Dec 9	03	00	65.6	21.8	bA	4	34	3.3	
9	» 11	18	41	59.8	5.0	aB	4	54	3.6	Recorded at Bergen.
	1939: II									
	1940: I									
1	Feb 4	11	00	64.5	20.8	bA	4	54	3.6	Several small aftershocks, about 11.40, 12.30, 13.10 and possibly also at 14.00 and 15.00.
	1940: II									
	1941: I									
1	Jan 27	01	21	61.2	5.8	aB	5	113	4.4	Origin time = 01.20.52 (Bergen).
2	Mar 5	06	15	60.0	4.8	aA	5	61	3.9	Recorded at Bergen.
3	July 7	14	40	63.4	21.3	aB	5	61	3.9	I ₁ = 4, r ₁ = 26; I ₂ = 3, r ₂ = 47.
	1941: II									
4	May 17	17	02	60.0	9.9	aA	4	23	2.9	
	1942: I									
1	Jan 4	22	39	60.0	6.0	aA	5 ¹ / ₂	56	4.0	I ₁ = 5, r ₁ = 8; I ₂ = 4, r ₂ = 39. Origin time = 22.39.15 (Bergen).

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
1942: I										
(cont.)										
2	Oct 5	15	45	66.8	21.5	aA	4 ^{1/2}	38	3.4	
3	Nov 26	03	09	59.9	6.4	aA	5 ^{1/2}	155	4.8	I ₁ = 5, r ₁ = 28; I ₂ = 4, r ₂ = 111. Origin time = 03.08.48 (Uppsala, Bergen).
1942: II										
4	Feb 20	06	30	57.6	11.6	bB	3	(25)	2.9	Doubtful.
1943: I										
1	Feb 24	04	00	61.3	7.3	aA	5	35	3.5	
2	Aug 29	05	35	59.0	6.2	aA	5 ^{1/2}	65	4.1	I ₁ = 5, r ₁ = 35.
1943: II										
3	Jan 18	03	55	—	—	a—	—	—	—	60 km from Bergen according to the seismograph records there. Origin time = 03.55.18. No macroseismic observations.
4	Mar 13	21	00	67.4	22.4	bA	4	21	2.9	
5	» 24	16	00	60.0	6.0	bA	3	10	2.2	
1944: I										
1	Jan 14	12	22	60.1	14.4	aA	4 ^{1/2}	69	3.9	Origin time = 12.21.33 (Uppsala).
2	Mar 8	19	22	61.8	5.2	aA	5 ^{1/2}	50	3.9	I ₁ = 5, r ₁ = 18.
3	May 8	13	04	60.3	15.6	aA	4 ^{1/2}	24	3.1	Origin time = 13.04.23 (Uppsala).
4	Nov 4	13	00	63.0	16.2	bA	4 ^{1/2}	26	3.2	
5	» 20	01	36	60.0	4.8	aA	(5 ^{1/2})	—	—	Origin time = 01.36.01 (Bergen, Copenhagen, Uppsala). r ₁ cannot be given. The location given here is based on the records at Bergen, Copenhagen, and Uppsala.
1944: II										
6	Nov 6	21	00	62.5	17.4	bB	4	10	2.3	Possibly not seismic.
7	» 16	19	45	60.4	10.0	bA	4 ^{1/2}	15	2.7	
8	Dec 26	06	30	66.0	13.0	bA	4	23	2.9	
1945: I										
1	Jan 12	02	15	57.4	12.5	aA	4	26	3.0	
2	Mar 12	04	43	64.5	21.0	aB	4 ^{1/2}	56	3.7	Foreshocks on Feb 18, 20, 45, and on Mar 12, 02.30; aftershocks on Mar 12, 05.05, 06.00, and 07.

No.	Date	Origin time GMT		Epicentre		Quality	I ₀	r ₁ km	M	Remarks
		h	m	°N	°E					
1945: II										
3	Jan 18	22	56	59.9	10.7	aA	3	10	2.2	
4	Feb 13	20	50	59.0	11.5	aA	5	13	2.7	
5	» 18	20	45	64.1	20.9	aB	3	10	2.2	
6	Mar 12	02	30	64.1	20.9	bB	3	10	2.2	
7	» 18	11	00	66.1	13.6	aA	4	10	2.3	
8	» 18	17	55	66.2	13.0	bA	5	10	2.5	
9	» 19	00	25	66.2	13.0	aA	5	10	2.5	
10	» 19	01	25	66.2	13.0	aA	5	10	2.5	
11	Apr 26	19	30	56.1	14.4	bA	3	10	2.2	
12	» 27	02	00	56.1	14.7	bA	4	16	2.7	Foreshocks on Apr 26.
13	» 27	19	00	56.1	14.7	bA	4	16	2.7	
1946: I										
1	Apr 24	17	45	55.4	15.6	bB	5	(100)	4.3	Several shocks of which those at 18.30 and 19.10 appear as the strongest. Foreshocks on Apr 24, 10—11, 11.30, 15—16.30. Aftershocks on Apr 24, 20.30, 21.20; Apr 25, 10.30, 11, 11.30, 12—12.30, 12.45, 13.25, 14, 14.30—15, 17.30, 20; Apr 26, 04.45, 06. Possibly not seismic.
		18	30							
		19	10							
2	Aug 20	15	45	58.1	14.5	bA	4	25	3.0	
3	Nov 30	21	55	58.5	11.6	aA	4	39	3.4	
1946: II										
4	Mar 15	19	50	61.9	16.7	aA	4	20	2.8	
5	Dec 7	03	47	58.2	13.7	aA	4	20	2.8	
1947: I										
1	Feb 8	20	45	62.2	8.2	aB	5	70	4.0	I ₁ = 4, r ₁ = 45.
2	» 27	22	42	57.4	13.5	aA	4 ^{1/2}	39	3.5	
3	Apr 9	22	37	59.0	10.0	aB	5	36	3.5	
4	Sep 1	12	59	59.2	10.1	aA	5	36	3.5	
1947: II										
5	Jan 20	14	25	60.4	5.5	aA	3	10	2.2	Presumably a small foreshock 20 min earlier.
6	Feb 3	10	45	60.8	15.4	aA	4	19	2.8	
7	May 15	05	45	58.4	8.8	bA	4	10	2.3	
8	Oct 15	09	00	67.4	22.4	bA	4	13	2.5	
9	» 28	16	55	60.2	10.2	aA	4	10	2.3	
1948: I										
1	Mar 4	06	45	58.6	13.7	aA	4	25	3.0	

No.	Date	Origin time GMT		Epicentre		Quality	I_0	r_1	M	Remarks
		h	m	°N	°E					
	1948: I									
	(cont.)									
2	July 22	19	15	55.4	15.6	bB	4 $\frac{1}{2}$	(75)	4.0	Two shocks, the second probably the strongest. Origin time = 08.30.(50) (Uppsala).
3	» 23	08	31	62.5	6.0	aB	5 $\frac{1}{2}$	56	4.0	
4	Aug 11	07	49	59.7	5.0	aA	5	36	3.5	
	1948: II									
5	May 8	22	00	57.2	12.7	bA	4	15	2.6	Possibly a few more shocks in the same district: July 1, 11.00, 19.30; July 8, 09.30; all doubtful.
6	July 1	18	30	64.6	21.4	bB	4	10	2.3	
		18	40							
	1949: I									
	1949: II									
1	Feb 25	22	30	65.8	23.2	bA	4	13	2.5	
2	» 27	03	00	59.5	5.5	bA	5	10	2.5	
	1950: I									
1	Apr 2	14	25	62.0	6.0	aB	4 $\frac{1}{2}$	25	3.1	
2	Sep 1	18	05	60.0	12.2	aA	4 $\frac{1}{2}$	30	3.3	
3	» 8	02	30	60.0	6.3	aB	5	47	3.7	
	1950: II									
4	Mar 1	21	52	58.8	6.0	aA	4	10	2.3	
5	» 29	10	12	64.5	20.8	aA	4	22	2.9	
6	Apr 3	05	10	64.5	20.8	aA	4	13	2.4	

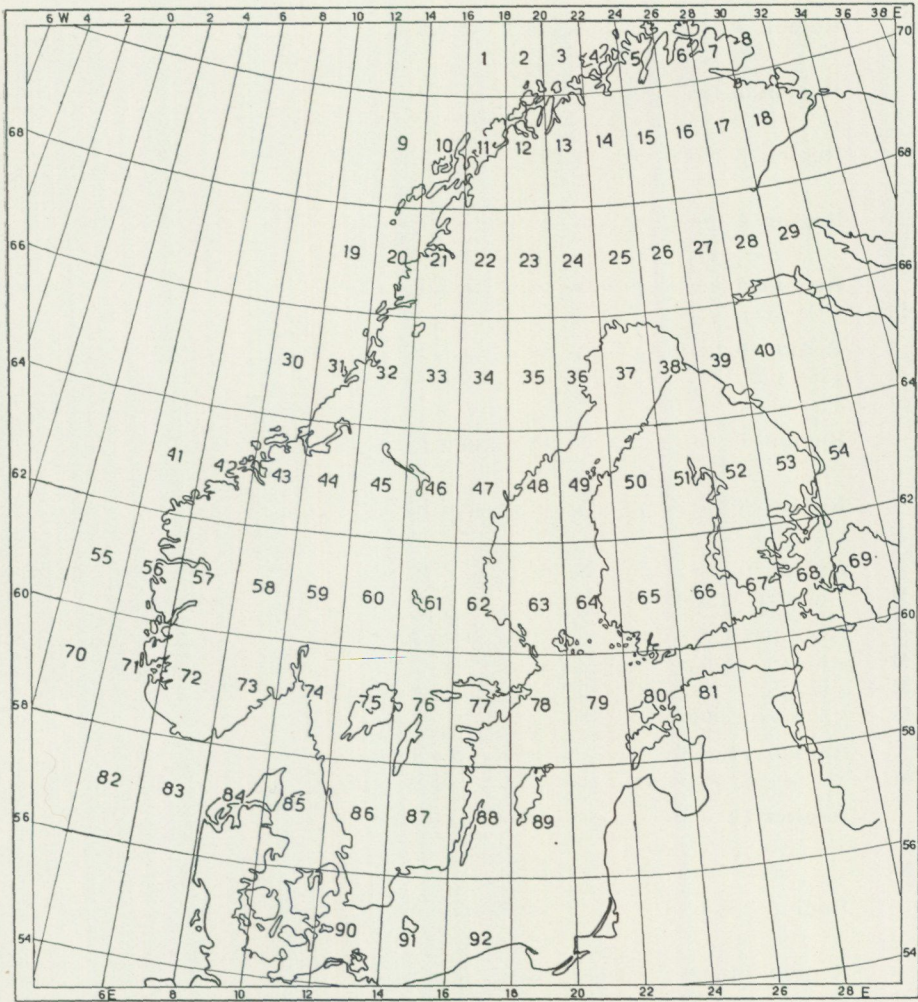


Fig. 1. The map shows the division into regions, each comprising 2° lat. × 2° long.

Geographical and Magnitude Index.

- — —
Region 1 (70.1—72.0 N, 16.1—18.0 E)
- — —
Region 2 (70.1—72.0 N, 18.1—20.0 E)
- — —
Region 3 (70.1—72.0 N, 20.1—22.0 E)
- — —
Region 4 (70.1—72.0 N, 22.1—24.0 E)
- — —
Region 5 (70.1—72.0 N, 24.1—26.0 E)
M < 3.0 : 9424, 9722.
- — —
Region 6 (70.1—72.0 N, 26.1—28.0 E)
M = 3.0—3.9 : 3802.
M < 3.0 : —
- — —
Region 7 (70.1—72.0 N, 28.1—30.0 E)
- — —
Region 8 (70.1—72.0 N, 30.1—32.0 E)
- — —
Region 9 (68.1—70.0 N, 12.1—14.0 E)
M < 3.0 : 0317.
- — —
Region 10 (68.1—70.0 N, 14.1—16.0 E)
M = 4.0—4.9 : 1703.
M = 3.0—3.9 : —
M < 3.0 : 9920, 0008.
- — —
Region 11 (68.1—70.0 N, 16.1—18.0 E)
M < 3.0 : 9513, 9618, 9713, 9913, 9921, 0825, 1407.
- — —
Region 12 (68.1—70.0 N, 18.1—20.0 E)
M = 3.0—3.9 : 0807, 3904.
M < 3.0 : 0442, 1019, 1810, 2713.
- — —
Region 13 (68.1—70.0 N, 20.1—22.0 E)
- — —
Region 14 (68.1—70.0 N, 22.1—24.0 E)
M = 4.0—4.9 : 3004.
M = 3.0—3.9 : 0103.
M < 3.0 : 3811.
- — —
Region 15 (68.1—70.0 N, 24.1—26.0 E)
M = 3.0—3.9 : 2901.
M < 3.0 : 9423, 9518, 9519, 9528, 9611, 9625, 9715, 9719, 9720, 9805, 9808, 9919,
0005, 1710.
- — —
Region 16 (68.1—70.0 N, 26.1—28.0 E)
M = 3.0—3.9 : 9103.
M < 3.0 : —

Region 17 (68.1—70.0 N, 28.1—30.0 E)

M = 4.0—4.9 : 2601.

M = 3.0—3.9 : —

M < 3.0 : —

Region 18 (68.1—70.0 N, 30.1—32.0 E)**Region 19** (66.1—68.0 N, 10.1—12.0 E)

M < 3.0 : 9904, 0216, 0219, 0220, 0319, 0414, 0415, 0416, 0823.

Region 20 (66.1—68.0 N, 12.1—14.0 E)

M ≥ 5.0 : 1305.

M = 4.0—4.9 : 9407, 2003.

M = 3.0—3.9 : 9301, 9505, 9603, 9705, 0303, 0602, 0603, 0604, 0806, 1002.

M < 3.0 : 9106, 9110, 9112, 9113, 9217, 9520, 9522, 9526, 9711, 9924, 9925, 0009,
0013, 0115, 0116, 0117, 0118, 0311, 0512, 0616, 0739, 0740, 0936, 1221,
1309, 1609, 3709, 4507, 4508, 4509, 4510.**Region 21** (66.1—68.0 N, 14.1—16.0 E)

M ≥ 5.0 : 9404.

M = 4.0—4.9 : 0804.

M = 3.0—3.9 : 0405, 0608, 0803, 2602, 3103, 3105.

M < 3.0 : 0109, 0110, 0420, 0816, 2311.

Region 22 (66.1—68.0 N, 16.1—18.0 E)

M = 3.0—3.9 : 3803.

M < 3.0 : —

Region 23 (66.1—68.0 N, 18.1—20.0 E)**Region 24** (66.1—68.0 N, 20.1—22.0 E)

M = 3.0—3.9 : 2403, 4202.

M < 3.0 : 0746, 3409.

Region 25 (66.1—68.0 N, 22.1—24.0 E)

M = 3.0—3.9 : 3403.

M < 3.0 : 3410, 4304, 4708.

Region 26 (66.1—68.0 N, 24.1—26.0 E)

M ≥ 5.0 : 9803.

M = 4.0—4.9 : —

M = 3.0—3.9 : 3404.

M < 3.0 : 0613, 2407, 3412.

Region 27 (66.1—68.0 N, 26.1—28.0 E)

M < 3.0 : 9815, 9922, 0744.

Region 28 (66.1—68.0 N, 28.1—30.0 E)

M = 3.0—3.9 : 9203, 9204, 2703.

M < 3.0 : 2410, 3707.

Region 29 (66.1—68.0 N, 30.1—32.0 E)

M < 3.0 : 2505.

Region 30 (64.1—66.0 N, 8.1—10.0 E)

M < 3.0 : 0929.

Region 31 (64.1—66.0 N, 10.1—12.0 E)

M ≥ 5.0 : 0702, 0704.

M = 4.0—4.9 : 0206, 1105, 3504.

M = 3.0—3.9 : 9706, 1110, 3601.

M < 3.0 : 9708, 0422, 0534, 1516.

Region 32 (64.1—66.0 N, 12.1—14.0 E)

M = 3.0—3.9 : 9702.

M < 3.0 : 9416, 9419, 9712, 9716, 1024, 1229, 1231, 2104, 3708, 4408.

Region 33 (64.1—66.0 N, 14.1—16.0 E)

— — —

Region 34 (64.1—66.0 N, 16.1—18.0 E)

M < 3.0 : 0620, 0824, 3704.

Region 35 (64.1—66.0 N, 18.1—20.0 E)

M = 3.0—3.9 : 0001, 3401.

M < 3.0 : 9316, 0625, 2009.

Region 36 (64.1—66.0 N, 20.1—22.0 E)

M = 4.0—4.9 : 0706, 2902, 3501.

M = 3.0—3.9 : 1106, 1401, 1504, 3908, 4001, 4502.

M < 3.0 : 9208, 9309, 9318, 9516, 9619, 9628, 9809, 0007, 0619, 0624, 1124, 1225,
1508, 1509, 1511, 1812, 1816, 3414, 3512, 4505, 4506, 4806, 5005, 5006.**Region 37** (64.1—66.0 N, 22.1—24.0 E)

M = 3.0—3.9 : 0809, 3901.

M < 3.0 : 1003, 1512, 2508, 2618, 4901.

Region 38 (64.1—66.0 N, 24.1—26.0 E)

M = 4.0—4.9 : 9804.

M = 3.0—3.9 : 0607.

M < 3.0 : 0121, 0222, 0733, 0831, 3508.

Region 39 (64.1—66.0 N, 26.1—28.0 E)

M ≥ 5.0 : 0203.

M = 4.0—4.9 : —

M = 3.0—3.9 : 0106, 0202, 1113, 1114, 1201, 1202, 1203, 1204.

M < 3.0 : 9813, 9915, 0626, 1144, 1145, 1415, 2617, 2710, 3305.

Region 40 (64.1—66.0 N, 28.1—30.0 E)

M ≥ 5.0 : 2605.

M = 4.0—4.9 : 2702.

M = 3.0—3.9 : 9101, 9102, 0508, 1209, 1601, 2604, 2606, 2607, 2804.

M < 3.0 : 9114, 0315, 1707, 2511, 2513, 2619, 2711, 2715, 2716, 2718, 3303, 3304,
3706.**Region 41** (62.1—64.0 N, 4.1—6.0 E)

M = 4.0—4.9 : 2304, 4803.

M = 3.0—3.9 : —

M < 3.0 : 9413, 9718, 0014, 0113, 0444, 0722, 0820, 0921, 0943, 1234, 3018.

Region 42 (62.1—64.0 N, 6.1—8.0 E)

M = 4.0—4.9 : 1303.

M = 3.0—3.9 : 0902, 1502, 3104.

M < 3.0 : 9425, 9614, 9910, 0016, 0017, 0743, 1807, 1814.

Region 43 (62.1—64.0 N, 8.1—10.0 E)

M = 4.0—4.9 : 4701.

M = 3.0—3.9 : 2705.

M < 3.0 : 9515, 0122, 0934, 3408.

Region 44 (62.1—64.0 N, 10.1—12.0 E)

M = 3.0—3.9 : 3702.

M < 3.0 : 9523, 9612, 9613, 9622, 9714, 9816, 9914, 0002, 0006, 0012, 0922, 1015,
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Region 45 (62.1—64.0 N, 12.1—14.0 E)

M < 3.0 : 0425.

Region 46 (62.1—64.0 N, 14.1—16.0 E)

M = 3.0—3.9 : 3604.

M < 3.0 : 9105.

Region 47 (62.1—64.0 N, 16.1—18.0 E)

M = 4.0—4.9 : 3002, 3507, 3602.

M = 3.0—3.9 : 9504, 9801, 4404.

M < 3.0 : 9115, 9307, 9308, 9414, 9521, 9524, 9525, 9529, 0426, 0428, 0723, 0919,
0925, 0933, 1120, 1228, 1232, 3510, 4406.**Region 48** (62.1—64.0 N, 18.1—20.0 E)

M = 3.0—3.9 : 1205, 1604.

M < 3.0 : 9118, 0623, 1007, 1008, 3307, 3608.

Region 49 (62.1—64.0 N, 20.1—22.0 E)

M ≥ 5.0 : 0904.

M = 4.0—4.9 : —

M = 3.0—3.9 : 0305, 0908, 1501, 4103.

M < 3.0 : 0306, 0924, 0938, 0939, 0940, 0941, 1127, 1233, 1510.

Region 50 (62.1—64.0 N, 22.1—24.0 E)

M = 3.0—3.9 : 3202.

M < 3.0 : 9209, 0215, 0813, 0826, 0828, 3206, 3207, 3208, 3209.

Region 51 (62.1—64.0 N, 24.1—26.0 E)

M = 4.0—4.9 : 3106, 3107.

M = 3.0—3.9 : —

M < 3.0 : 9231, 9903, 9926, 9927, 0916, 1613.

Region 52 (62.1—64.0 N, 26.1—28.0 E)

M = 4.0—4.9 : 1112, 3405.

M = 3.0—3.9 : —

M < 3.0 : 0910, 1020.

Region 53 (62.1—64.0 N, 28.1—30.0 E)

— — —

Region 54 (62.1—64.0 N, 30.1—32.0 E)

— — —

Region 55 (60.1—62.0 N, 2.1—4.0 E)

— — —

Region 56 (60.1—62.0 N, 4.1—6.0 E)

M ≥ 5.0 : 9201, 9901, 1304, 3801.

M = 4.0—4.9 : 9205, 9303, 9601, 9602, 0504, 1804, 2202, 2303, 2402, 2704, 3006,
3905, 4101.M = 3.0—3.9 : 9202, 9207, 9405, 9604, 9606, 9609, 9703, 9704, 0102, 0609, 0805,
0906, 0907, 0909, 1111, 1115, 1211, 1214, 1301, 1302, 1402, 1602,
1704, 1901, 1902, 2203, 2307, 2501, 2801, 2907, 3005, 3010, 3011,
3012, 3302, 3701, 3805, 3902, 3906, 4402, 5001.M < 3.0 : 9104, 9109, 9117, 9210, 9211, 9212, 9213, 9214, 9215, 9216, 9221, 9222,
9223, 9227, 9228, 9310, 9312, 9313, 9314, 9317, 9319, 9421, 9527, 9615,
9616, 9621, 9623, 9624, 9626, 9627, 9707, 9709, 9710, 9723, 9724, 9726,
9727, 9812, 9814, 9906, 9907, 9917, 9928, 9929, 0003, 0004, 0011, 0015,
0111, 0207, 0210, 0307, 0308, 0309, 0310, 0314, 0316, 0407, 0408, 0418,
0421, 0437, 0441, 0509, 0517, 0520, 0521, 0524, 0531, 0533, 0621, 0715,

0716, 0717, 0718, 0725, 0726, 0730, 0732, 0734, 0736, 0742, 0745, 0812, 0819, 0821, 0822, 0923, 0930, 0942, 0945, 0948, 0949, 1010, 1018, 1021, 1025, 1129, 1130, 1132, 1137, 1138, 1139, 1141, 1216, 1217, 1224, 1226, 1230, 1307, 1308, 1311, 1312, 1313, 1408, 1410, 1607, 1608, 1706, 1712, 1806, 1808, 1809, 1811, 1815, 1904, 1909, 1910, 1911, 1912, 1913, 1914, 1916, 1918, 1919, 1920, 2004, 2005, 2008, 2105, 2106, 2109, 2110, 2206, 2309, 2310, 2405, 2408, 2506, 2509, 2512, 2611, 2806, 2808, 2811, 3016, 3109, 3308, 3511, 4303, 4705.

Region 57 (60.1—62.0 N, 6.1—8.0 E)

M \geq 5.0 : 9503.

M = 4.0—4.9 : 1801.

M = 3.0—3.9 : 0802, 1101, 1206, 2502, 2803, 2805, 2906, 3013, 3102, 3506, 4301.

M < 3.0 : 9517, 9617, 9909, 0107, 0108, 0114, 0123, 0313, 0409, 0410, 0411, 0727, 0946, 1006, 1017, 1406, 1414, 1606, 1903, 1908, 2209, 2504, 2720, 2815, 3306, 3415.

Region 58 (60.1—62.0 N, 8.1—10.0 E)

M = 3.0—3.9 : 2503, 3903.

M < 3.0 : 0213, 1004, 4407.

Region 59 (60.1—62.0 N, 10.1—12.0 E)

M = 3.0—3.9 : 9501, 0605, 2905, 3807.

M < 3.0 : 9220, 9409, 9620, 9806, 0510, 0522, 0536, 0735, 0915, 1125, 1805, 2207, 2409, 2810, 2814, 4709.

Region 60 (60.1—62.0 N, 12.1—14.0 E)

M = 3.0—3.9 : 1001, 1208, 1210, 1702.

M < 3.0 : 9111, 1119, 1121, 1507, 2910, 3205.

Region 61 (60.1—62.0 N, 14.1—16.0 E)

M = 4.0—4.9 : 1212.

M = 3.0—3.9 : 4401, 4403.

M < 3.0 : 9411, 1128, 1506, 4706.

Region 62 (60.1—62.0 N, 16.1—18.0 E)

M = 3.0—3.9 : 9302, 9608, 0101, 1108.

M < 3.0 : 9108, 9119, 9420, 9810, 9811, 9911, 0430, 0433, 0927, 1011, 1012, 1026, 1222, 3411, 3605, 4604.

Region 63 (60.1—62.0 N, 18.1—20.0 E)

— — —

Region 64 (60.1—62.0 N, 20.1—22.0 E)

M = 3.0—3.9 : 2603.

M < 3.0 : 2510.

Region 65 (60.1—62.0 N, 22.1—24.0 E)

M = 4.0—4.9 : 3406, 3502.

M = 3.0—3.9 : 0104, 2706, 3402, 3407, 3503.

M < 3.0 : 3416, 3417.

Region 66 (60.1—62.0 N, 24.1—26.0 E)

M < 3.0 : 0539, 0612, 0827, 0829, 0830, 2308.

Region 67 (60.1—62.0 N, 26.1—28.0 E)

M < 3.0 : 9408.

Region 68 (60.1—62.0 N, 28.1—30.0 E)

M < 3.0 : 2613, 2614, 2615.

Region 69 (60.1—62.0 N, 30.1—32.0 E)

M = 3.0—3.9 : 2103.

M < 3.0 : 0212, 1412, 1413, 2612, 2707, 2708, 2717, 2719.

Region 70 (58.1—60.0 N, 2.1—4.0 E)

M ≥ 5.0 : 2701.

M = 4.0—4.9 : 0201.

M = 3.0—3.9 : —

M < 3.0 : —

Region 71 (58.1—60.0 N, 4.1—6.0 E)

M = 4.0—4.9 : 1109, 4201, 4405.

M = 3.0—3.9 : 9406, 9506, 9802, 0808, 1103, 2608, 3003, 3603, 3909, 4102, 4804.

M < 3.0 : 9225, 9229, 9230, 9304, 9305, 9311, 9418, 9510, 9632, 9905, 9908, 9916, 9923, 0120, 0209, 0214, 0737, 0912, 0931, 0935, 1016, 1023, 1027, 1122, 1126, 1142, 1711, 1906, 1907, 2108, 2507, 2610, 2709, 2813, 3213, 4305, 4902, 5004.

Region 72 (58.1—60.0 N, 6.1—8.0 E)

M = 4.0—4.9 : 9206, 4203, 4302.

M = 3.0—3.9 : 9502, 1503, 3203, 3804, 5003.

M < 3.0 : 9531, 9918, 0208, 0318, 0538, 0817, 0917, 1133, 1223, 1514, 1515, 1517, 1709, 1813, 1817.

Region 73 (58.1—60.0 N, 8.1—10.0 E)

M = 4.0—4.9 : 0707.

M = 3.0—3.9 : 0205, 0601, 0708, 4703.

M < 3.0 : 9116, 9417, 9422, 9530, 9912, 0010, 0413, 0431, 0432, 0445, 0449, 0519, 0741, 0818, 1123, 1131, 1227, 1404, 1708, 3413, 3810, 4104, 4707.

Region 74 (58.1—60.0 N, 10.1—12.0 E)

M ≥ 5.0 : 0401.

M = 4.0—4.9 : 0404, 0406, 0801, 0905, 2205.

M = 3.0—3.9 : 0402, 0403, 0503, 0505, 0507, 0703, 0903, 1802, 2306, 2401, 2802, 3101, 4603, 4704.

M < 3.0 : 9218, 9219, 9226, 9511, 9512, 9514, 9717, 9725, 0119, 0211, 0217, 0218, 0312, 0412, 0434, 0438, 0440, 0443, 0447, 0448, 0513, 0514, 0515, 0516, 0518, 0523, 0526, 0527, 0528, 0530, 0532, 0537, 0611, 0617, 0709, 0728, 0738, 0928, 0944, 0947, 1014, 1116, 1117, 1134, 1140, 1218, 1219, 1220, 1713, 2107, 3212, 3809, 4503, 4504.

Region 75 (58.1—60.0 N, 12.1—14.0 E)

M = 4.0—4.9 : 9610, 0105, 0701, 0705, 3204, 3301.

M = 3.0—3.9 : 0506, 1102, 1213, 1215, 1505, 1603, 1605, 2002, 2301, 2302, 2305, 3001, 3007, 3009, 3806, 3808, 4801, 5002.

M < 3.0 : 9306, 9315, 9410, 9630, 9631, 9721, 0417, 0439, 0446, 0511, 0710, 0711, 0712, 0714, 0721, 0729, 0731, 0810, 0811, 0814, 0815, 1135, 1143, 2007, 2208, 2406, 2714, 2807, 2812, 3108, 3110, 3309, 3509, 3607, 4605.

Region 76 (58.1—60.0 N, 14.1—16.0 E)

M ≥ 5.0 : 9401.

M = 4.0—4.9 : 2201.

M = 3.0—3.9 : 0302, 0304, 0501, 1207, 1701, 2204, 4602.

M < 3.0 : 9633, 9902, 0419, 0423, 0529, 0535, 0913, 0932, 1005, 1022, 1403, 2404, 2721, 2809.

Region 77 (58.1—60.0 N, 16.1—18.0 E)

M = 3.0—3.9 : 9402, 9607, 0301, 2909.

M < 3.0 : 9107, 0112, 0914, 0918, 1013, 3017.

- Region 78** (58.1—60.0 N, 18.1—20.0 E)
 M < 3.0 : 0427.
- Region 79** (58.1—60.0 N, 20.1—22.0 E)
 — — —
- Region 80** (58.1—60.0 N, 22.1—24.0 E)
 — — —
- Region 81** (58.1—60.0 N, 24.1—26.0 E)
 — — —
- Region 82** (56.1—58.0 N, 4.1—6.0 E)
 — — —
- Region 83** (56.1—58.0 N, 6.1—8.0 E)
 M = 4.0—4.9 : 9507, 0606, 0610, 2609, 2903, 2904, 3907.
 M = 3.0—3.9 : 0901, 1107, 1306.
 M < 3.0 : 9412, 1513.
- Region 84** (56.1—58.0 N, 8.1—10.0 E)
 — — —
- Region 85** (56.1—58.0 N, 10.1—12.0 E)
 M = 3.0—3.9 : 1104.
 M < 3.0 : 4204.
- Region 86** (56.1—58.0 N, 12.1—14.0 E)
 M = 4.0—4.9 : 0204, 2908.
 M = 3.0—3.9 : 9605, 0502, 1803, 2001, 3505, 3703, 4501, 4702.
 M < 3.0 : 9508, 9509, 9807, 0018, 0429, 0436, 0525, 0614, 0713, 0719, 0720, 0724,
 0920, 1136, 1405, 1409, 1610, 1611, 1612, 1705, 2712, 3015, 3606, 3705,
 4805.
- Region 87** (56.1—58.0 N, 14.1—16.0 E)
 M < 3.0 : 9224, 9629, 0615, 0618, 0622, 0911, 0926, 1009, 1235, 1310, 2006, 3210,
 3211, 4511, 4512, 4513.
- Region 88** (56.1—58.0 N, 16.1—18.0 E)
 M < 3.0 : 0424.
- Region 89** (56.1—58.0 N, 18.1—20.0 E)
 — — —
- Region 90** (54.1—56.0 N, 12.1—14.0 E)
 M = 4.0—4.9 : 3008.
 M = 3.0—3.9 : 9701.
 M < 3.0 : 9415, 0221, 0435, 0937, 1411, 3014.
- Region 91** (54.1—56.0 N, 14.1—16.0 E)
 M = 4.0—4.9 : 9403, 2101, 2102, 4601, 4802.
 M = 3.0—3.9 : 3201.
 M < 3.0 : 1118.
- Region 92** (54.1—56.0 N, 16.1—18.0 E)
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