Table 28. GT0-GT10 events relocated using Pn and Sn phases with and without SSSCs

evid	date	time	lat	lon	depth	mb	ml	GT	data source	n-def	n-sta	n-Pn	n-Sn	gap	min dist	max dist	C	D	Diff-dist	Diff-area	with-dist	with-area	cw	cwo
Figure 28: Mining events in Finland and Sweden																								
283527	1995/01/19	16:28:00.0	67.080	20.940	0.0			2	SWE_NDC	6	3	3	3	176.5	3.1	7.5	C4	D1	4.4	2260.6	5.0	2400.5	1	1
288401	1995/01/25	17:25:00.0	67.080	20.940	0.0			2	SWE_NDC	5	3	3	2	180.0	3.2	7.4	C4	D4	-1	2850.7	29.0	4895.1	1	1
293590	1995/02/02	17:06:00.0	67.080	20.940	0.0			2	SWE_NDC	4	3	3	1	192.8	2.8	11.3	C4	D4	-30.2	4346.7	83.2	9002.3	1	1
302205	1995/02/15	16:30:00.0	67.080	20.940	0.0			2	SWE_NDC	6	5	5	1	138.3	3.0	11.2	C4	D1	-1.7	2043.5	9.2	3107.8	1	1
305295	1995/02/21	14:10:00.0	61.500	13.750	0.0			2	SWE_NDC	5	4	4	1	147.9	1.2	9.6	C4	D1	0.5	1280.9	16.0	3160.5	1	1
305736	1995/02/22	16:29:00.0	67.080	20.940	0.0			2	SWE_NDC	7	4	4	3	138.4	3.0	11.2	C4	D1	2.3	1694	4.3	1853.9	1	1
315647	1995/03/15	16:29:00.0	67.080	20.940	0.0			2	SWE_NDC	6	4	4	2	176.3	3.0	7.7	C4	D1	0.6	2376.4	5.1	2515.8	1	1
318298	1995/03/20	16:45:00.0	67.080	20.940	0.0			2	SWE_NDC	8	5	5	3	137.0	3.0	11.3	C4	D1	-6.6	1600.5	16.5	1715.0	1	1
320823	1995/03/22	16:29:00.0	67.080	20.940	0.0			2	SWE_NDC	5	4	4	1	173.3	2.9	7.8	C4	D1	-3.4	2655.7	14.9	2919.3	1	1
330425	1995/04/12	15:29:37.9	67.080	20.940	0.0		3.4	2	ISRAELSSON	8	5	5	3	175.4	3.0	7.6	C4	D1	0.7	2071.9	3.4	2046.7	1	1
332337	1995/04/15	12:30:15.3	67.080	20.940	0.0		3.4	2	ISRAELSSON	6	4	4	2	172.3	2.9	7.8	C4	D1	-2	2176.4	17.0	2561.9	1	1
338985	1995/04/24	15:29:00.0	67.080	20.940	0.0			2	SWE_NDC	8	5	5	3	169.3	2.9	7.8	C4	D4	-1.1	2050.3	27.2	2783.7	1	1
339694	1995/04/25	15:26:48.1	67.080	20.940	0.0		3.3	2	ISRAELSSON	7	5	5	2	174.0	3.0	7.7	C4	D1	-9.8	2291.6	14.4	1993.6	1	1
344520	1995/05/03	15:29:06.3	67.080	20.940	0.0		3.5	2	ISRAELSSON	6	5	5	1	137.3	3.0	11.3	C4	D1	-9.3	2091.6	16.2	2434.0	1	1
347197	1995/05/05	23:33:42.2	67.800	20.200	0.0		2.8	2	ISRAELSSON	3	3	3	0	200.6	2.6	10.5	C4	D1	-7	5003	13.6	6010.9	1	1
356870	1995/05/23	15:30:00.2	67.080	20.940	0.0		3.5	2	ISRAELSSON	8	4	4	4	172.3	3.0	7.7	C4	D3	-9.8	1905.8	21.3	2034.1	1	1
357487	1995/05/24	15:35:36.3	67.080	20.940	0.0		3.3	2	ISRAELSSON	9	5	5	4	137.4	3.0	11.2	C4	D1	-11.3	1559.8	14.8	2253.6	1	1
358724	1995/05/26	17:03:11.3	67.080	20.940	0.0		3.4	2	ISRAELSSON	8	5	5	3	137.9	3.0	11.2	C3	D1	-7.5	1592.4	9.4	2086.0	1	1
367213	1995/06/06	15:56:22.3	67.080	20.940	0.0		3.4	2	ISRAELSSON	7	5	5	2	136.5	3.0	11.3	C4	D1	-3.6	1946.9	15.7	3749.3	1	1
369177	1995/06/08	21:19:00.0	62.670	17.980	0.0			2	SWE_NDC	11	6	6	5	143.6	2.2	14.2	C4	D2	1.7	1072	17.0	1071.1	1	1
369191	1995/06/08	22:10:00.0	62.670	17.980	0.0			2	SWE_NDC	10	5	5	5	143.3	2.2	7.4	C4	D1	6.7	1125	10.5	1141.6	1	1
369214	1995/06/08	23:00:00.0	62.670	17.980	0.0			2	SWE_NDC	10	5	5	5	144.3	2.2	7.4	C4	D2	7.1	1130	15.2	1145.1	1	1
369215	1995/06/08	23:30:00.0	62.670	17.980	0.0			2	SWE_NDC	8	4	4	4	143.1	3.3	7.4	C4	D1	6.8	1443.5	9.7	1724.8	1	1
369224	1995/06/09	00:29:00.0	63.380	14.080	0.0			2	SWE_NDC	8	4	4	4	185.0	3.1	7.5	C4	D1	1.8	1941.5	14.9	2651.5	1	1
369627	1995/06/09	23:29:00.0	62.940	17.080	0.0			2	SWE_NDC	6	4	4	2	214.1	2.6	4.5	C4	D1	-2	4733.2	5.8	5246.3	1	1
369674	1995/06/10	02:59:00.0	63.370	14.080	0.0			2	SWE_NDC	6	4	4	2	185.6	3.0	7.6	C4	D1	1.9	2432.9	7.3	4135.8	1	1
370816	1995/06/12	20:29:00.0	62.940	17.080	0.0			2	SWE_NDC	6	4	4	2	153.2	2.6	7.4	C4	D1	6.8	1875.7	4.7	2054.8	1	1
370824	1995/06/12	21:29:00.0	62.670	17.980	0.0			2	SWE_NDC	9	5	5	4	144.1	2.2	7.4	C4	D2	6.5	1242.4	15.8	1274.0	1	1
370836	1995/06/12	21:59:00.0	62.670	17.980	0.0			2	SWE_NDC	7	4	4	3	144.4	3.4	7.4	C4	D2	7.4	1835.7	15.9	2125.2	1	1
370837	1995/06/12	22:29:00.0	62.670	17.980	0.0			2	SWE_NDC	8	4	4	4	144.1	3.4	7.4	C4	D2	5.5	1449.3	17.5	1440.0	1	1
370849	1995/06/12	23:00:00.0	62.670	17.980	0.0			2	SWE_NDC	9	5	5	4	142.9	2.2	7.4	C4	D1	8	1236.1	6.8	1078.0	1	1

evid	date	time	lat	lon	depth	mb	ml	GT	data source	n-def	n-sta	n-Pn	n-Sn	gap	min dist	max dist	C	D	Diff-dist	Diff-area	with-dist	with-area	cw	cwo
370850	1995/06/12	23:30:00.0	62.670	17.980	0.0			2	SWE_NDC	9	5	5	4	143.2	2.2	7.4	C4	D1	7.7	1246.2	9.0	1273.4	1	1
370872	1995/06/13	00:29:00.0	63.080	16.030	0.0			2	SWE_NDC	5	5	5	0	167.1	3.1	7.4	C4	D4	4.1	2385.2	18.5	2777.7	1	1
371186	1995/06/13	19:59:00.0	63.370	14.080	0.0			2	SWE_NDC	5	4	4	1	155.1	3.0	14.8	C4	D1	-5	3102.3	15.8	2685.0	1	1
371215	1995/06/13	22:00:00.0	63.370	14.080	0.0			2	SWE_NDC	5	3	3	2	257.5	2.9	5.9	C4	D1	1.6	5871.6	3.3	7027.3	1	1
372179	1995/06/15	15:30:50.8	67.080	20.940	0.0		3.3	2	ISRAELSSON	7	5	5	2	162.0	4.1	11.3	C4	D1	-5	2790.3	16.3	4838.6	1	1
372615	1995/06/16	15:29:52.0	67.080	20.940	0.0		3.4	2	ISRAELSSON	6	5	5	1	138.5	3.0	11.2	C4	D1	-3.5	2101.8	13.1	3742.6	1	1
374315	1995/06/20	15:30:06.2	67.080	20.940	0.0		3.4	2	ISRAELSSON	4	3	3	1	177.6	3.0	7.6	C4	D1	2.7	3577.2	8.6	8663.0	1	1
376899	1995/06/26	14:30:00.0	61.560	13.810	0.0			2	SWE_NDC	4	4	4	0	150.0	1.4	9.3	C4	D1	-0.1	1875.1	6.8	3854.6	1	1
380215	1995/07/05	15:35:00.3	67.080	20.940	0.0		3.4	2	ISRAELSSON	8	5	5	3	172.3	2.9	7.7	C4	D1	-1.5	1976	15.0	2516.3	1	1
388080	1995/07/23	11:53:00.0	62.650	17.980	0.0			2	SWE_NDC	8	4	4	4	143.8	3.4	7.4	C4	D2	6.2	1463.8	16.8	1249.3	1	1
396780	1995/08/05	22:41:39.2	67.180	20.670	0.0		2.9	2	ISRAELSSON	6	4	4	2	177.7	3.0	7.7	C4	D1	0.4	2408.8	4.3	2494.9	1	1
397976	1995/08/08	15:28:30.5	67.080	20.940	0.0		3.4	2	ISRAELSSON	7	4	4	3	174.3	3.0	7.6	C4	D1	2	2621.8	2.3	3383.3	1	1
398414	1995/08/09	15:29:55.4	67.080	20.940	0.0		3.5	2	ISRAELSSON	7	4	4	3	173.1	2.9	7.7	C4	D1	-5.9	2153.8	15.9	2472.1	1	1
400558	1995/08/13	23:50:35.3	67.180	20.670	0.0		3.4	2	ISRAELSSON	8	5	5	3	177.7	3.0	7.7	C4	D1	-1.1	2027.5	6.2	2313.1	1	1
402391	1995/08/15	17:18:14.2	67.080	20.940	0.0		3.5	2	ISRAELSSON	8	5	5	3	174.0	3.0	7.7	C4	D1	-1.4	2010.6	5.9	2895.1	1	1
407771	1995/08/19	23:30:48.5	67.800	20.200	0.0		3.4	2	ISRAELSSON	5	3	3	2	192.0	2.6	8.0	C2	D1	4.4	2908.9	2.0	5029.6	1	1
408589	1995/08/23	15:51:44.8	67.080	20.940	0.0		3.5	2	ISRAELSSON	10	6	6	4	137.5	3.0	11.2	C4	D3	-13.8	1360.1	18.1	1681.2	1	1
409669	1995/08/21	23:38:39.6	67.800	20.200	0.0		3.4	2	ISRAELSSON	5	3	3	2	199.3	2.5	8.3	C4	D1	2.4	2975	13.6	2972.7	1	1
414380	1995/08/30	15:33:00.0	67.080	20.940	0.0			2	SWE_NDC	5	3	3	2	169.3	2.9	7.7	C4	D4	-2.5	2539.9	29.5	2128.0	1	1
419787	1995/09/11	15:29:00.0	67.080	20.940	0.0			2	SWE_NDC	5	3	3	2	276.6	4.4	6.1	C4	D4	14.1	8439.6	204.2	9941.2	1	1
424377	1995/09/18	02:29:33.7	67.800	20.200	0.0		3.2	2	ISRAELSSON	3	3	3	0	197.1	2.6	8.1	C4	D1	1.5	5040.5	12.1	7098.9	1	1
424827	1995/09/20	15:30:40.0	67.080	20.940	0.0		3.4	2	ISRAELSSON	7	6	6	1	178.2	3.0	7.7	C4	D1	6	2306.6	7.3	2784.1	1	1
428772	1995/09/27	16:30:30.4	67.080	20.940	0.0		3.4	2	ISRAELSSON	6	4	4	2	174.9	3.0	7.6	C4	D1	-5.4	2818.2	8.8	4571.8	1	1
428889	1995/09/27	23:15:37.0	67.180	20.670	0.0		3.4	2	ISRAELSSON	6	5	5	1	181.3	3.0	7.7	C4	D1	5.4	2698	4.9	4738.0	1	1
432578	1995/09/30	23:03:50.0	67.180	20.670	0.0		3.0	2	ISRAELSSON	6	5	5	1	177.3	2.9	18.7	C4	D1	-6.2	2825.2	13.3	2217.3	1	1
438327	1995/10/12	00:30:19.8	67.800	20.200	0.0		3.4	2	ISRAELSSON	9	5	5	4	189.6	2.5	8.2	C4	D4	-11.1	2164.8	29.4	2520.5	1	1
438765	1995/10/12	16:30:30.3	67.080	20.940	0.0		3.5	2	ISRAELSSON	9	6	6	3	173.2	3.0	7.7	C4	D1	-0.5	1755.9	9.7	2500.2	1	1
445539	1995/10/23	16:31:00.0	67.080	20.940	0.0			2	SWE_NDC	11	9	9	2	136.2	3.0	18.6	C4	D3	-3.2	1398.6	20.6	1294.3	1	1
447833	1995/10/26	17:09:00.0	67.080	20.940	0.0			2	SWE_NDC	12	6	6	6	175.9	3.0	7.6	C4	D1	1.5	1472.1	3.8	1460.4	1	1
464632	1995/11/17	00:29:23.6	67.800	20.200	0.0		2.6	2	ISRAELSSON	7	6	6	1	143.7	2.5	10.4	C4	D1	-7.8	1984	16.0	2716.5	1	1
506643	1995/12/09	23:11:05.0	67.180	20.670	0.0		2.7	2	ISRAELSSON	9	6	6	3	177.2	3.0	7.7	C4	D1	-3.9	1950.9	10.9	1925.6	1	1
512176	1995/12/14	23:22:18.6	67.180	20.670	0.0		2.5	2	ISRAELSSON	4	4	4	0	174.8	2.9	7.7	C4	D3	-7	3875.1	24.3	5986.6	1	1
523193	1995/12/28	16:40:40.1	67.080	20.940	0.0		2.8	2	ISRAELSSON	9	6	6	3	170.9	2.9	7.7	C4	D4	-3.6	1680.9	22.9	1602.2	1	1

evid	date	time	lat	lon	depth	mb	ml	GT	data source	n-def	n-sta	n-Pn	n-Sn	gap	min dist	max dist	C	D	Diff-dist	Diff-area	with-dist	with-area	cw	cwo
537527	1996/01/11	17:31:19.7	67.080	20.940	0.0		2.8	2	ISRAELSSON	11	7	7	4	137.6	3.0	11.2	C4	D1	-6.5	1363.7	9.3	1872.6	1	1
540094	1996/01/14	00:29:52.2	67.800	20.200	0.0		2.8	2	ISRAELSSON	10	6	6	4	143.3	2.6	10.5	C4	D1	-7.2	1363.7	11.0	2284.4	1	1
556518	1996/01/27	12:59:46.9	67.080	20.940	0.0		2.8	2	ISRAELSSON	11	6	6	5	136.5	2.9	11.2	C4	D3	-15.1	1263.2	27.9	1364.8	1	1
569138	1996/02/08	17:27:06.0	67.080	20.940	0.0		2.7	2	ISRAELSSON	8	5	5	3	173.1	3.0	7.7	C4	D1	-1	2020.3	9.4	2699.8	1	1
571928	1996/02/13	16:30:02.2	67.080	20.940	0.0		2.6	2	ISRAELSSON	10	5	5	5	176.2	3.0	7.7	C4	D1	-0.1	1750.5	5.4	2111.8	1	1
573035	1996/02/15	16:42:38.9	67.080	20.940	0.0			2	ISRAELSSON	7	5	5	2	172.4	3.0	7.7	C4	D1	-4.2	1974.9	15.3	1707.7	1	1
575206	1996/02/18	00:30:32.2	67.800	20.200	0.0			2	ISRAELSSON	3	3	3	0	299.6	6.4	7.7	C4	D4	2.7	106844	56.6	87381.8	1	1
577857	1996/02/21	00:30:23.7	67.800	20.200	0.0		3.0	2	ISRAELSSON	7	5	5	2	191.7	2.6	8.2	C4	D1	-6.4	2506.8	15.3	2493.8	1	1
584012	1996/02/28	16:49:09.7	67.080	20.940	0.0		2.8	2	ISRAELSSON	5	4	4	1	172.8	3.0	7.6	C4	D1	-1.4	3138.9	11.4	4660.0	1	1
590133	1996/03/04	22:57:28.3	67.180	20.670	0.0		2.5	2	ISRAELSSON	9	5	5	4	179.1	3.0	7.7	C3	D1	-3	1823.1	4.6	1771.1	1	1
621659	1996/04/01	15:30:36.8	67.080	20.940	0.0		2.7	2	ISRAELSSON	8	5	5	3	172.0	3.0	7.7	C4	D1	-1.7	1960.5	15.2	2585.0	1	1
633203	1996/04/12	15:39:53.4	67.080	20.940	0.0		2.9	2	ISRAELSSON	11	6	6	5	174.6	3.0	7.7	C3	D1	-7.1	1549.7	8.8	1363.2	1	1
650546	1996/04/25	16:12:09.1	67.080	20.940	0.0		2.6	2	ISRAELSSON	7	5	5	2	174.9	3.0	7.6	C4	D1	-0.5	2399.4	3.0	3906.3	1	1
659236	1996/05/02	15:37:00.5	67.080	20.940	0.0		2.8	2	ISRAELSSON	9	6	6	3	175.9	3.0	7.7	C2	D1	3.5	1881.1	0.7	1999.2	1	1
670395	1996/05/11	23:29:59.3	67.800	20.200	0.0		2.5	2	ISRAELSSON	7	5	4	3	190.7	2.6	8.2	C4	D1	1.8	2296	10.8	2488.0	1	1
678619	1996/05/19	16:48:28.0	67.080	20.940	0.0		2.6	2	ISRAELSSON	8	6	6	2	176.3	3.0	7.7	C4	D1	-0.4	2183.4	6.1	2472.5	1	1
678763	1996/05/19	21:55:01.6	67.180	20.670	0.0		2.5	2	ISRAELSSON	7	4	4	3	179.0	3.0	7.7	C2	D1	0.5	2205.7	1.8	2979.5	1	1
682311	1996/05/23	22:02:19.5	67.180	20.670	0.0		2.6	2	ISRAELSSON	10	6	6	4	177.3	3.0	7.7	C4	D1	0	1766.2	7.5	1705.9	1	1
688091	1996/05/30	16:07:59.0	67.080	20.940	0.0		3.0	2	ISRAELSSON	7	5	5	2	175.6	3.0	7.7	C4	D1	-0.8	2331.1	3.6	3016.2	1	1
695160	1996/06/06	15:38:44.5	67.080	20.940	0.0		2.7	2	ISRAELSSON	11	6	6	5	174.4	3.0	7.7	C4	D1	-6.3	1442.3	10.4	1586.0	1	1
717956	1996/06/24	15:34:07.7	67.080	20.940	0.0		3.0	2	ISRAELSSON	11	6	6	5	174.1	3.0	7.7	C4	D1	-6.6	1464.2	11.4	1524.1	1	1
738490	1996/07/10	15:30:34.8	67.080	20.940	0.0		2.6	2	ISRAELSSON	7	5	5	2	176.3	3.0	7.7	C2	D1	4.7	2333.6	0.8	2567.4	1	1
743793	1996/07/17	15:30:09.9	67.080	20.940	0.0		2.6	2	ISRAELSSON	7	4	4	3	183.1	3.0	7.7	C4	D1	0.6	2609	5.3	2938.0	1	1
758496	1996/08/03	23:30:54.5	67.800	20.200	0.0		2.5	2	ISRAELSSON	9	5	5	4	187.2	2.5	8.3	C4	D4	-5.2	1901.3	33.4	2017.4	1	1
762189	1996/08/07	15:29:55.1	67.080	20.940	0.0		2.8	2	ISRAELSSON	8	5	5	3	175.3	3.0	7.7	C3	D1	-1.4	1958.7	2.7	2251.1	1	1
779414	1996/08/28	15:29:07.6	67.080	20.940	0.0		3.0	2	ISRAELSSON	9	5	5	4	175.4	3.0	7.7	C3	D1	-6.2	1874.4	7.6	2181.2	1	1
787203	1996/09/05	15:32:53.2	67.080	20.940	0.0	3.6	2.9	2	ISRAELSSON	6	4	4	2	174.5	3.0	7.7	C2	D1	0.5	2317.6	1.8	3329.2	1	1
802365	1996/09/17	15:34:57.5	67.080	20.940	0.0		3.0	2	ISRAELSSON	6	4	4	2	174.0	3.0	7.7	C4	D1	-0.2	2256.4	4.7	3072.3	1	1
824646	1996/10/09	14:33:57.3	67.080	20.940	0.0		2.9	2	ISRAELSSON	6	4	4	2	175.1	3.0	7.6	C2	D1	1.7	2283.4	1.7	2848.3	1	1
335356	1995/04/20	15:40:00.0	67.080	20.940	0.0			2	SWE_NDC	7	4	4	3	143.1	2.8	11.3	C4	D4	-19.8	1858.2	58.0	2422.5	0	1

evid: event ID.

date, time, lat, lon, depth, mb, ml: GT information on the event.

GT: GT category of the event. GTX means location accuracy better than X km.

data source: data source for the origin information and sometimes for the arrival information as well (e.g. ENGDAHL_HDC, ISRAELSSON_JHD).

n-def: Number of defining phases.
n-sta: Number of defining stations.
n-Pn: Number of defining Pn phases with SSSCs.
n-Sn: Number of defining Sn phases with SSSCs.
gap, mindist, maxdist: azimuthal gap and minimum/maximum epicentral distance (in degrees)
C: Class C, defined based on locations relative to the GT accuracy
D: Class D, defined based on locations relative to 18 km mislocation
diff-dist: GT distance without SSSCs minus GT distance with SSSCs (km). Positive numbers indicate improvement.
diff-area: Ellipse area without SSSCs minus area with SSSCs (sqkm). Positive numbers indicate improvement.
with-dist: GT distance with SSSCs (km).
with-area: Ellipse area with SSSCs (sqkm)
cw: coverage with SSSCs. 1- covered; 0: otherwise
cwo: coverage without SSSCs. 1- covered; 0: otherwise