Table 27. 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 27: Miningevents in Finland and Sweden and the Kola calibration shots																								
1157358	1997/10/10	09:00:04.0	64.717	30.703	0.0			0	RUS_NDC	9	4	6	3	191.6	3.0	9.5	C0	D2	14.7	1872.1	6.7	1424.3	1	1
1160640	1997/10/12	03:37:27.7	67.676	33.730	0.0			0	RUS_NDC	4	3	3	1	256.7	3.3	11.4	C0	D2	43.2	8679.5	8.8	7532.5	1	1
329275	1995/04/10	11:12:19.8	63.120	27.740	0.0		3.4	5	ISRAELSSON	4	3	3	1	216.9	2.0	7.5	C4	D3	-18.3	3805.9	34.4	10777.0	1	1
330337	1995/04/12	10:59:09.4	63.120	27.740	0.0		3.7	5	ISRAELSSON	5	4	4	1	208.0	1.9	7.9	C4	D1	2	2581.2	11.1	4591.1	1	1
341341	1995/04/28	10:45:47.4	63.120	27.740	0.0		3.5	5	ISRAELSSON	6	4	4	2	208.0	1.9	7.9	C4	D1	4.7	2250.2	8.3	3955.9	1	1
345056	1995/05/04	10:53:34.5	63.120	27.740	0.0		3.2	5	ISRAELSSON	4	3	3	1	214.9	1.9	7.4	C4	D3	-14.8	4079.2	25.3	6435.7	1	1
364129	1995/05/31	10:44:55.2	63.120	27.740	0.0		3.6	5	ISRAELSSON	3	2	2	1	248.1	6.0	6.9	C4	D4	49.6	19134.3	40.9	33255.2	1	1
365256	1995/06/02	10:44:32.8	63.120	27.740	0.0		3.6	5	ISRAELSSON	5	3	3	2	208.2	1.9	7.3	C4	D1	0.8	2474.5	11.9	4697.4	1	1
370684	1995/06/12	11:07:58.3	63.120	27.740	0.0		3.4	5	ISRAELSSON	6	4	4	2	208.4	1.9	7.9	C4	D1	2.3	2185.4	9.8	3886.0	1	1
375295	1995/06/22	10:44:59.5	63.120	27.740	0.0		3.0	5	ISRAELSSON	4	4	4	0	216.1	1.9	7.4	C4	D1	-6	4028.6	16.5	5612.8	1	1
377760	1995/06/27	10:46:50.1	63.120	27.740	0.0		4.1	5	ISRAELSSON	3	2	2	1	256.0	6.3	7.2	C4	D4	5.2	18280.3	24.3	26674.7	1	1
379727	1995/07/04	10:45:26.0	63.120	27.740	0.0		3.8	5	ISRAELSSON	4	4	4	0	218.7	1.9	8.2	C4	D4	-23.5	3546.1	42.1	7670.2	1	1
396099	1995/08/04	10:47:04.2	63.120	27.740	0.0		3.7	5	ISRAELSSON	7	4	4	3	207.3	1.8	7.9	C4	D1	4.3	1780	10.4	3111.1	1	1
408465	1995/08/23	10:48:28.2	63.120	27.740	0.0		3.2	5	ISRAELSSON	4	4	4	0	216.7	1.9	8.1	C4	D3	-20.3	3504	33.0	6384.5	1	1
414000	1995/09/01	10:47:01.0	63.120	27.740	0.0		3.6	5	ISRAELSSON	4	3	3	1	222.2	1.9	7.6	C4	D4	-21.1	4385.6	50.5	7857.1	1	1
423451	1995/09/18	10:49:09.8	63.120	27.740	0.0		3.8	5	ISRAELSSON	7	5	5	2	210.4	1.8	7.9	C4	D1	-5.7	2094	13.7	4402.1	1	1
428673	1995/09/27	11:45:18.8	63.120	27.740	0.0		4.1	5	ISRAELSSON	6	4	4	2	257.2	2.2	7.9	C4	D4	-3.6	8534.4	23.3	12187.2	1	1
436243	1995/10/05	11:45:49.5	63.120	27.740	0.0			5	ISRAELSSON	3	2	2	1	264.8	6.4	7.9	C4	D4	-10	16147.6	30.1	15687.3	1	1
438106	1995/10/11	11:45:33.8	63.120	27.740	0.0		3.7	5	ISRAELSSON	4	3	3	1	259.0	2.3	7.3	C4	D1	-7.7	14417.9	13.4	20245.8	1	1
442325	1995/10/18	11:46:59.1	63.120	27.740	0.0		3.8	5	ISRAELSSON	5	4	4	1	259.1	2.3	8.0	C4	D3	-18.3	7114.3	23.3	15136.3	1	1
451274	1995/10/30	11:44:58.8	63.120	27.740	0.0		2.6	5	ISRAELSSON	8	4	4	4	257.4	2.2	7.9	C4	D1	8.9	4375	7.2	5471.2	1	1
457823	1995/11/07	11:47:06.9	63.120	27.740	0.0		2.7	5	ISRAELSSON	4	3	3	1	259.1	2.3	7.4	C4	D3	-13	8015.6	19.7	14420.8	1	1
462785	1995/11/13	11:44:34.0	63.120	27.740	0.0		3.2	5	ISRAELSSON	4	3	3	1	251.5	6.2	7.6	C4	D2	48.2	13752.2	15.3	23865.8	1	1
469798	1995/11/22	11:50:47.0	63.120	27.740	0.0		2.5	5	ISRAELSSON	5	4	4	1	215.5	1.9	8.1	C4	D1	1.3	2911.2	8.1	3680.1	1	1
471165	1995/11/24	11:44:26.6	63.120	27.740	0.0		3.2	5	ISRAELSSON	8	5	5	3	212.9	1.9	8.0	C3	D3	-15.7	1903.5	19.2	2987.8	1	1
473617	1995/11/27	11:44:27.0	63.120	27.740	0.0		3.2	5	ISRAELSSON	4	3	3	1	251.5	6.1	7.6	C4	D2	49	13611.4	14.8	15844.2	1	1
508786	1995/12/11	11:47:33.8	63.120	27.740	0.0		2.6	5	ISRAELSSON	6	4	4	2	216.7	1.9	7.4	C4	D1	2.2	2401.9	10.6	2504.1	1	1
535010	1996/01/09	11:45:32.0	63.120	27.740	0.0		3.0	5	ISRAELSSON	6	4	3	3	216.0	1.9	7.4	C4	D1	4.2	3237	6.5	3156.6	1	1
548320	1996/01/16	11:44:33.1	63.120	27.740	0.0		3.0	5	ISRAELSSON	5	3	3	2	259.0	2.3	7.3	C3	D1	-2.1	5983.5	6.7	9110.3	1	1
578346	1996/02/21	11:49:02.0	63.120	27.740	0.0		2.6	5	ISRAELSSON	5	4	4	1	256.1	2.1	7.9	C4	D4	7.7	14129.1	20.4	14186.6	1	1
590494	1996/03/05	11:52:57.4	63.120	27.740	0.0		2.7	5	ISRAELSSON	5	5	5	0	218.0	1.9	8.2	C4	D3	-5.2	3517.8	22.5	4147.4	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
598646	1996/03/13	11:48:00.4	63.120	27.740	0.0		2.5	5	ISRAELSSON	5	4	4	1	260.0	2.4	8.1	C4	D1	-7.4	6960.8	15.9	11180.4	1	1
604766	1996/03/18	11:53:05.4	63.120	27.740	0.0		3.1	5	ISRAELSSON	4	3	3	1	257.9	2.3	7.3	C4	D3	-13.5	7781.5	28.2	12733.2	1	1
631308	1996/04/11	10:50:31.0	63.120	27.740	0.0		2.9	5	ISRAELSSON	5	4	4	1	259.1	2.4	8.1	C4	D3	-12.5	7893.5	24.7	12051.2	1	1
671961	1996/05/13	10:46:19.3	63.120	27.740	0.0		3.5	5	ISRAELSSON	8	6	4	4	218.3	1.2	8.1	C4	D3	-1.2	2615.8	18.9	3064.1	1	1
682238	1996/05/23	10:48:05.3	63.120	27.740	0.0		2.9	5	ISRAELSSON	3	3	3	0	214.5	1.8	7.3	C4	D3	-13.1	3604.1	21.6	17714.3	1	1
682770	1996/05/24	10:45:15.9	63.120	27.740	0.0		3.2	5	ISRAELSSON	6	5	4	2	217.6	1.9	8.1	C4	D1	4.1	3864.9	10.7	3970.2	1	1
692829	1996/06/04	10:45:37.3	63.120	27.740	0.0		2.9	5	ISRAELSSON	7	4	4	3	209.8	1.8	7.9	C4	D3	-10.3	1890.9	18.1	3633.4	1	1
694969	1996/06/06	10:49:35.5	63.120	27.740	0.0		3.4	5	ISRAELSSON	4	3	3	1	252.0	6.2	7.6	C4	D2	48.1	13611.3	11.6	14094.9	1	1
711802	1996/06/19	10:45:46.8	63.120	27.740	0.0		3.2	5	ISRAELSSON	3	2	2	1	255.7	6.3	7.2	C4	D4	10.2	18253.2	21.2	27358.9	1	1
720588	1996/06/27	10:45:09.9	63.120	27.740	0.0		3.3	5	ISRAELSSON	3	2	2	1	256.3	6.3	7.2	C4	D4	-0.4	17322.3	26.2	26431.8	1	1
749043	1996/07/24	10:46:34.6	63.120	27.740	0.0		3.0	5	ISRAELSSON	5	4	4	1	214.6	1.8	7.3	C4	D1	-0.3	2876.3	7.7	4945.9	1	1
755323	1996/07/30	10:54:31.1	63.120	27.740	0.0		3.1	5	ISRAELSSON	7	5	5	2	216.6	1.9	8.1	C4	D1	0.2	2365.1	11.9	3637.4	1	1
760439	1996/08/06	11:00:59.5	63.120	27.740	0.0		3.2	5	ISRAELSSON	5	5	5	0	213.5	1.8	8.0	C3	D1	-1.5	3269.1	6.3	4732.3	1	1
766402	1996/08/13	10:44:56.0	63.120	27.740	0.0		3.3	5	ISRAELSSON	5	5	5	0	217.3	1.9	8.1	C4	D3	-6.4	3410.9	21.8	3645.1	1	1
772183	1996/08/20	10:46:36.0	63.120	27.740	0.0		3.5	5	ISRAELSSON	4	3	3	1	339.0	2.1	7.8	C4	D4	-28.3	-22220.2	57.4	104775.0	1	1
778909	1996/08/27	10:46:58.7	63.120	27.740	0.0		3.4	5	ISRAELSSON	5	3	3	2	254.7	6.2	7.8	C4	D4	19.7	9731.7	18.9	16187.4	1	1
794165	1996/09/10	10:43:04.8	63.120	27.740	0.0		3.0	5	ISRAELSSON	6	5	5	1	213.7	1.8	8.0	C4	D1	-10.8	2539.9	16.6	4293.0	1	1
803183	1996/09/18	10:44:29.3	63.120	27.740	0.0		3.0	5	ISRAELSSON	7	4	4	3	216.8	1.9	7.5	C4	D1	5.3	2350	9.1	2626.0	1	1
814420	1996/09/29	06:05:46.0	67.670	33.730	0.0			0	RUS_NDC	24	7	18	6	226.0	3.3	11.6	C0	D2	21.4	923.3	7.6	771.5	1	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