

3.

LIST OF ORIGINS / HYPOCENTER PARAMETERS

Hypocenter Parameters

METHOD FOR HYPOCENTER PARAMETER DETERMINATION

HYPO71PC (Lee and Lahr, 1975) was used for the routine calculation of hypocenter parameters. The original program has been modified and a routine for Richter local magnitude calculation implemented. For the magnitude calculations, the method published by Bakun and Joyner (1984) has been used.

The hypocenter parameters have been calculated using phase readings of seismological stations from Hungary and from the neighboring countries. However, a distance weighting has been applied, phase data from stations with epicenter distance greater than 450 km have been weighted out. In some cases, when enough P readings were available, S phase readings were not used in the calculations.

CRUSTAL VELOCITY MODEL

The three-layer crustal velocity model used in the hypocenter calculations has been derived from crustal phase travel times of several hundreds of local earthquakes (Mónus, 1995).

<i>Velocity (v_P)</i> [km/s]	<i>Depth</i> [km]	<i>Thickness</i> [km]	v_P/v_S
5.60	0.0	20.0	1.78
6.57	20.0	11.0	
8.02	31.0	∞	

Hypocenter Parameters

LIST OF EVENTS

Day	Origin time UTC			Geographic coordinates		Depth (km)	ML	I _{MAX} (EMS)	Locality/Region
	hr	mn	sec	Lat	Long				
JANUARY, 2000									
02	6:50:58.8			46.442N	17.802E	16	1.4	-	Somogyaszaló
05	11:37:11.6			47.437N	18.446E	10	1.4	-	Vértés mt. (expl)
12	1:07:44.3			46.033N	17.671E	10	2.0	-	Nagydobsza
FEBRUARY, 2000									
04	12:20:07.7			47.716N	18.528E	14	1.8	-	Nyergesújfalú
15	11:09:30.9			45.873N	18.383E	10	0.1	-	Villányi mt. (exp)
16	13:22:26.4			47.525N	18.478E	13	2.4	-	Szárliget
23	11:52:46.6			47.453N	18.718E	10	1.0	-	Etyek
24	18:03:33.4			47.685N	18.506E	10	0.6	-	Héreg
26	19:28:24.3			45.667N	17.255E	15	1.8	-	Croatia
27	1:31:40.9			47.546N	18.484E	10	1.3	-	Szárliget
MARCH, 2000									
02	6:15:38.3			47.011N	21.608E	10	2.7	3.5	Füzesgyarmat
09	0:10:23.9			46.631N	16.504E	7	1.6	-	Lenti
11	0:56:44.8			45.930N	16.242E	8	1.9	-	Croatia
11	18:14:38.9			46.988N	18.256E	18	1.0	-	Lepsény
12	18:58:08.7			45.765N	16.165E	2	2.6	-	Croatia
22	10:54:04.2			47.487N	18.420E	7	1.5	-	Vértés mt. (expl)
29	9:52:20.3			47.329N	18.306E	0	1.8	-	Vértés mt. (expl)
APRIL, 2000									
01	22:14:34.2			46.992N	21.333E	34	1.9	-	Újiráz
03	9:45:27.1			47.406N	18.444E	10	2.7	-	Vértés mt. (expl)
04	10:27:53.6			47.468N	18.730E	9	1.0	-	Etyek
05	8:48:34.8			48.124N	16.753E	0	2.6	-	Austria
18	8:18:45.9			47.444N	18.575E	4	1.4	-	Vértés mt. (expl)
26	2:50:08.1			47.687N	19.281E	10	0.9	-	Órbottyán
MAY, 2000									
01	0:32:34.3			47.036N	19.097E	6	1.4	-	Kunszentmiklós

Hypocenter Parameters

01	17:54:42.0	47.759N	17.665E	4	2.6	4.0	Vámosszabadi
01	19:07:40.6	47.735N	17.733E	10	1.6	-	Vének
02	2:09:52.7	47.806N	17.721E	6	1.5	-	Hung-Slov border
02	6:08:43.9	45.839N	19.664E	5	2.0	-	Yugoslavia
02	11:17:58.2	47.220N	18.891E	10		-	Szigetújfalu
03	8:43:31.2	45.833N	18.420E	2	0.3	-	Villányi mt. (exp)
03	9:15:25.8	47.445N	18.374E	0	1.8	-	Vértés mt. (expl)
04	5:06:24.0	45.900N	18.134E	10	0.6	-	Babarcszőlős
09	7:53:51.9	45.842N	18.427E	0	0.3	-	Villányi mt. (exp)
10	8:32:41.0	47.370N	18.548E	0	1.5	-	Vértés mt. (expl)
10	10:48:21.6	47.441N	18.490E	10	1.5	-	Vértés mt. (expl)
15	8:54:32.5	47.373N	18.529E	0	1.5	-	Vértés mt. (expl)
16	9:05:40.4	45.834N	18.399E	10	0.2	-	Villányi mt. (exp)
22	12:02:31.1	47.487N	18.529E	0	1.7	-	Vértés mt. (expl)
22	12:04:25.4	47.424N	18.556E	4	1.5	-	Vértés mt. (expl)
25	4:47:40.1	47.823N	18.601E	10	1.5	-	Hung-Slov border
25	9:10:30.8	45.836N	18.420E	0	0.1	-	Villányi mt. (exp)
25	10:09:14.7	47.318N	18.501E	0	1.4	-	Vértés mt. (expl)
28	7:14:26.6	48.505N	17.417E	1	2.3	-	Slovakia
31	9:28:14.0	47.491N	18.514E	0	1.8	-	Vértés mt. (expl)
31	10:02:45.5	45.812N	18.432E	0	0.2	-	Villányi mt. (exp)

JUNE, 2000

02	15:02:18.6	47.118N	19.733E	10	1.9	-	Nagykőrös
02	15:17:30.2	47.105N	19.769E	17	2.6	3.5	Nagykőrös
02	15:19:49.8	47.132N	19.716E	10	1.3	-	Nagykőrös
06	8:19:01.0	47.390N	18.539E	0	1.9	-	Vértés mt. (expl)
07	21:15:02.2	47.332N	19.704E	16	1.4	-	Nagykáta (expl)
08	10:51:18.2	45.798N	18.992E	1	1.1	-	Yugoslavia
08	12:01:49.9	47.460N	18.512E	5	1.7	-	Vértés mt. (expl)
09	8:24:59.8	47.815N	18.514E	10	1.6	-	Hung-Slov border
09	22:39:47.2	46.807N	19.126E	7	1.2	-	Dunatetőtlen
13	3:05:43.8	47.442N	18.871E	10	1.9	-	Biatorbágy
13	7:39:27.1	47.435N	18.844E	10	1.6	-	Biatorbágy
14	21:39:21.3	46.434N	19.295E	9	0.9	-	Császártöltés
23	21:14:59.9	46.763N	16.517E	0	1.3	-	Kerkakutas (expl)
23	21:30:00.1	47.385N	17.233E	0	1.8	-	Kemenessztp. (exp)
23	21:45:04.2	46.970N	18.382E	0	0.7	-	Kisláng (expl)
23	22:30:00.3	47.663N	18.193E	10	2.6	-	Mocsa (expl)
24	0:45:00.4	47.495N	16.898E	0	1.5	-	Pusztacsalád (exp)
24	1:29:59.3	46.283N	16.989E	0	1.6	-	Somogybükkösd (ex)
24	21:14:59.7	46.158N	17.281E	0	2.1	-	Tarany (expl)

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24	21:30:00.5	47.151N	19.491E	0	2.3	-	Pusztavacs (expl)
24	21:45:00.2	46.353N	18.488E	0	1.6	-	Bonyhádvarasd (ex)
25	0:00:00.9	46.120N	17.507E	0	1.7	-	Homokszentgy (exp)
25	2:27:02.7	47.791N	17.701E	7	2.5	-	Hung-Slov border
25	21:14:58.9	46.108N	18.853E	0	1.8	-	Dunafalva (expl)
25	21:30:00.2	46.670N	18.280E	0	2.0	-	Tamási (expl)
25	21:45:00.3	46.797N	18.028E	0	1.3	-	Lulla (expl)
25	22:15:00.5	46.391N	18.883E	0	1.5	-	Bogyiszló (expl)
26	13:08:40.7	47.583N	16.346E	5	0.9	-	Austria
28	19:19:16.1	47.799N	17.689E	8	2.6	4.0	Vámosszabadi

JULY, 2000

03	9:58:12.8	45.837N	18.419E	0	0.1	-	Villányi mt. (exp)
03	11:14:20.4	45.971N	18.640E	10	0.6	-	Mohács
04	1:59:35.4	46.723N	17.896E	8	1.8	-	Somogyeggyes
10	11:07:00.5	47.492N	18.506E	0	1.5	-	Vértés mt. (expl)
11	2:49:48.4	47.917N	16.475E	1	4.4	6.0	Austria
11	6:47:16.0	47.928N	16.426E	5	1.3	3.5	Austria
11	10:56:04.9	47.962N	16.498E	10	3.8	5.0	Austria
12	0:13:24.6	45.910N	19.278E	10	1.4	-	Yugoslavia
12	7:55:57.0	47.922N	16.464E	6	1.8	3.5	Austria
12	21:19:54.3	47.937N	16.401E	1	2.3	4.0	Austria
13	10:10:14.6	47.403N	18.467E	9	1.5	-	Vértés mt. (expl)
15	1:06:59.3	47.922N	16.403E	5	0.9	-	Austria
16	2:28:06.3	47.912N	16.449E	4	1.8	3.0	Austria
16	4:34:54.4	47.833N	17.728E	2	1.9	-	Hung-Slov border
16	4:55:42.8	47.920N	16.433E	8	1.0	-	Austria
17	10:30:49.1	47.415N	18.500E	5	1.5	-	Vértés mt. (expl)
22	7:23:37.3	45.739N	21.389E	10	3.2	-	Romania
22	7:51:03.5	45.685N	21.338E	2	2.9	-	Romania
25	9:54:41.9	47.346N	18.353E	5	1.7	-	Vértés mt. (expl)
26	13:09:36.3	47.437N	16.298E	1		-	Austria
28	8:48:14.7	47.387N	18.783E	6	0.7	-	Pusztazámor
31	10:09:34.6	47.364N	18.568E	0	2.0	-	Vértés mt. (expl)

AUGUST, 2000

02	18:49:38.1	47.204N	17.942E	10	1.5	-	Eplény
03	9:20:45.0	45.852N	18.416E	0	-0.1	-	Villányi mt. (exp)
04	9:39:55.3	47.401N	18.549E	10	1.1	-	Vértés mt. (expl)
07	9:32:14.4	47.379N	18.281E	10	2.2	-	Vértés mt. (expl)
10	10:27:33.1	47.367N	18.298E	6	2.4	-	Vértés mt. (expl)
15	10:11:33.2	47.946N	19.104E	13	1.9	-	Tolmács

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16	22:13:58.7	45.507N	21.147E	1	2.8	-	Romania
21	9:20:31.6	45.671N	18.535E	0	1.3	-	Croatia
21	9:35:14.6	47.488N	18.433E	10	2.3	-	Vértesszőlős mts. (expl)
21	9:37:33.1	47.482N	18.444E	10	2.3	-	Vértesszőlős mts. (expl)
29	10:12:20.0	47.431N	18.414E	10	2.0	-	Vértesszőlős mts. (expl)
29	10:25:07.7	47.484N	18.444E	10	1.8	-	Vértesszőlős mts. (expl)
SEPTEMBER, 2000							
01	12:30:36.7	47.764N	19.460E	10	1.6	-	Erdőkürt
05	23:54:42.7	47.937N	16.455E	6	1.5	-	Austria
08	9:59:47.3	47.400N	18.257E	7	2.7	-	Vértesszőlős mts. (expl)
13	9:33:40.5	47.484N	18.492E	10	1.6	-	Vértesszőlős mts. (expl)
18	8:58:09.2	45.830N	18.449E	1	0.3	-	Villányi mts. (exp)
18	13:44:56.9	47.278N	19.243E	10	1.8	-	Ócsa
19	8:19:45.1	45.808N	18.449E	5	-0.1	-	Villányi mts. (exp)
19	10:52:43.9	45.903N	18.715E	5	0.9	-	Hung-Croatia bord
20	9:42:07.1	47.400N	18.348E	7	1.8	-	Vértesszőlős mts. (expl)
20	10:17:56.3	47.720N	17.960E	10	1.4	-	Ács
22	5:28:55.0	45.680N	18.836E	8	1.8	-	Croatia
23	0:08:15.5	46.585N	20.008E	10	1.8	-	Pusztaszer
26	9:18:37.5	47.371N	18.434E	10	1.4	-	Vértesszőlős mts. (expl)
29	22:09:14.4	47.846N	17.324E	1	1.9	-	Máriakálnok
OCTOBER, 2000							
04	14:18:48.9	47.657N	16.070E	10	1.5	4.0	Austria
05	23:04:11.9	45.750N	21.366E	10	3.3	-	Romania
07	0:42:11.8	47.390N	19.135E	13	2.1	4.0	Budapest
08	15:33:40.9	45.720N	17.492E	10	1.8	-	Croatia
09	10:21:54.2	47.354N	18.328E	4	1.4	-	Vértesszőlős mts. (expl)
11	9:57:02.4	47.363N	18.439E	8	1.3	-	Vértesszőlős mts. (expl)
13	11:41:19.6	45.805N	17.885E	3	2.6	-	Zaláta
13	11:55:47.8	45.690N	18.093E	19	1.9	-	Croatia
16	9:55:49.9	47.368N	18.430E	7	1.6	-	Vértesszőlős mts. (expl)
20	9:53:29.6	47.463N	18.493E	7	1.3	-	Vértesszőlős mts. (expl)
22	6:22:55.1	46.960N	19.347E	10	1.2	-	Kunbaracs
24	9:55:09.4	47.381N	18.263E	5	1.5	-	Vértesszőlős mts. (expl)
30	10:14:18.5	47.385N	18.459E	8	1.3	-	Vértesszőlős mts. (expl)
NOVEMBER, 2000							
01	22:18:42.5	45.690N	17.646E	10	1.8	-	Croatia
02	10:10:27.7	45.819N	18.385E	10	-0.1	-	Villányi mts. (exp)
06	13:58:14.2	47.699N	18.443E	12	1.5	-	Dunaszentmiklós

Hypocenter Parameters

13	10:18:36.1	47.385N	18.331E	10	2.0	-	Vértés mt. (expl)
16	11:13:40.4	47.401N	18.299E	10	1.4	-	Vértés mt. (expl)
20	10:47:27.0	47.462N	18.440E	0	1.5	-	Vértés mt. (expl)
23	2:32:14.8	46.908N	19.153E	10	2.1	-	Kunadacs
23	12:30:35.9	47.569N	18.736E	4	1.1	-	Tök
DECEMBER, 2000							
01	3:35:45.9	47.344N	18.467E	1	2.0	-	Csákvár
04	4:01:50.2	46.585N	21.289E	19	2.1	-	Elek
04	10:51:25.3	47.366N	18.310E	6	1.5	-	Vértés mt. (expl)
05	11:41:08.7	45.810N	18.420E	0	0.0	-	Villányi mt. (exp)
07	9:50:26.0	45.795N	18.457E	1	0.0	-	Villányi mt. (exp)
18	22:37:05.5	47.342N	19.665E	13	1.7	-	Tápiószentmárton
23	21:26:28.9	47.796N	20.022E	10	2.0	-	Visonta

Hypocenter Parameters

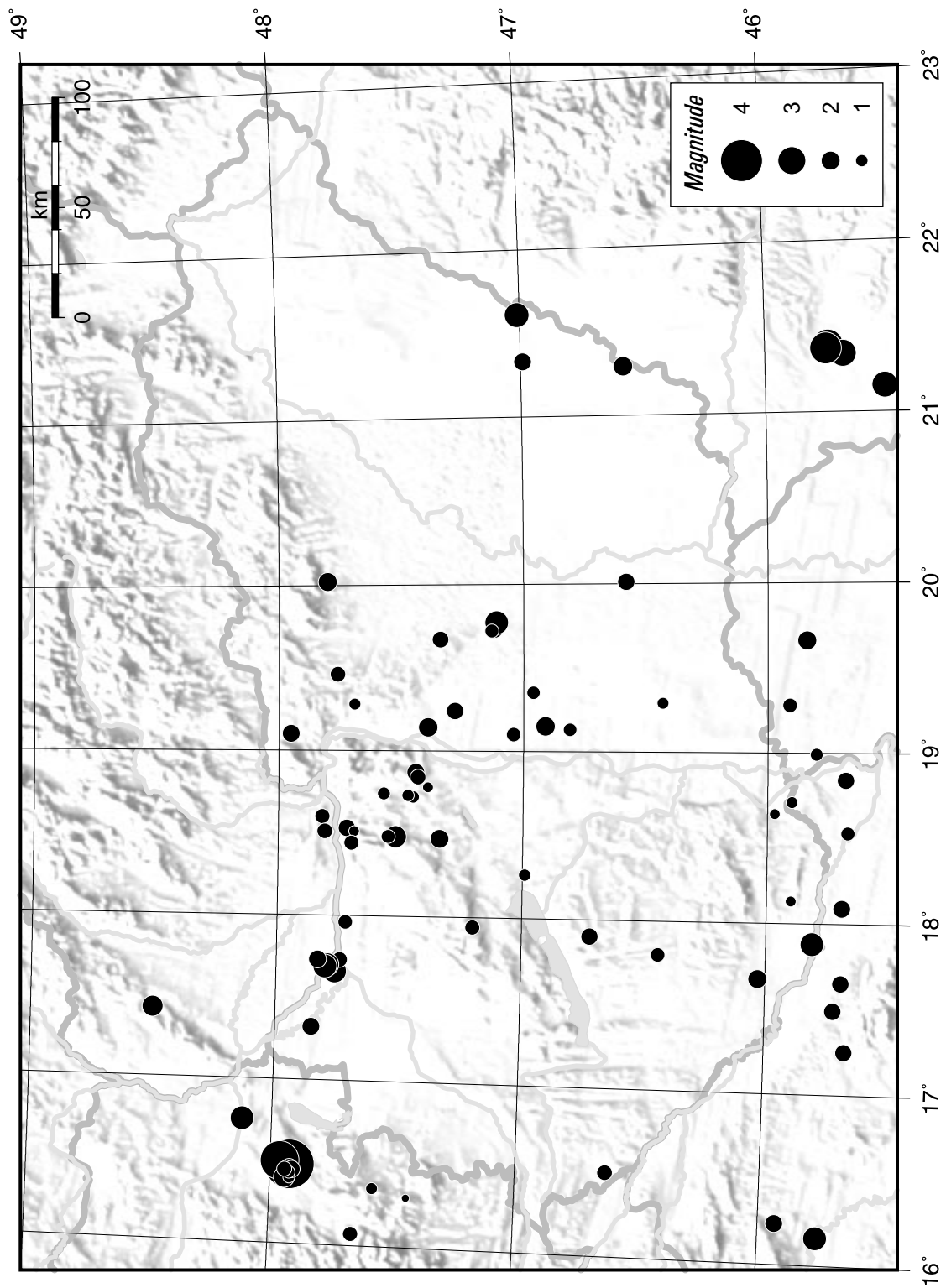


Figure 3.1.
Epicenters of 2000 earthquakes

Hypocenter Parameters

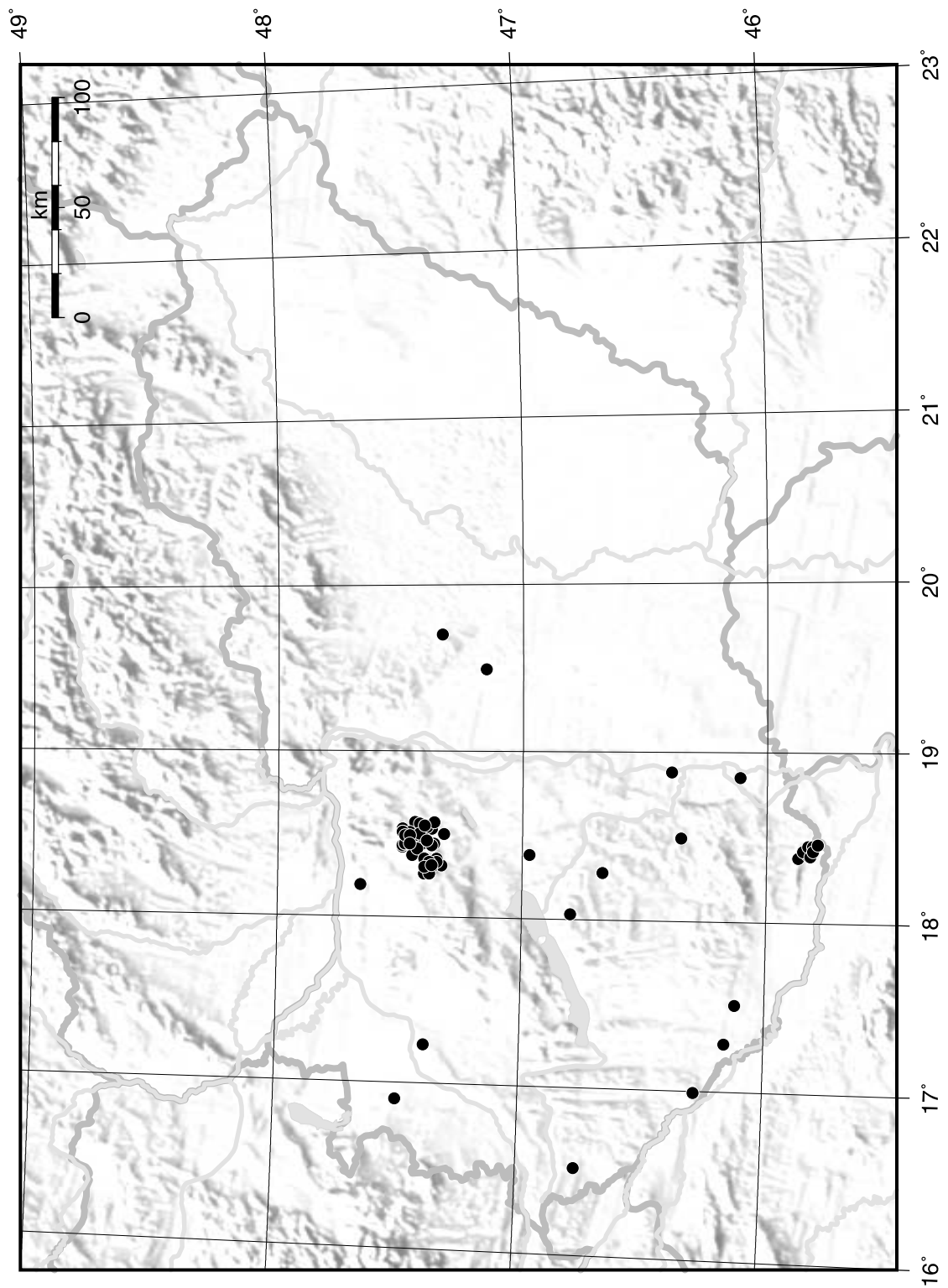


Figure 3.2.
Epicenters of 2000 explosions

Hypocenter Parameters

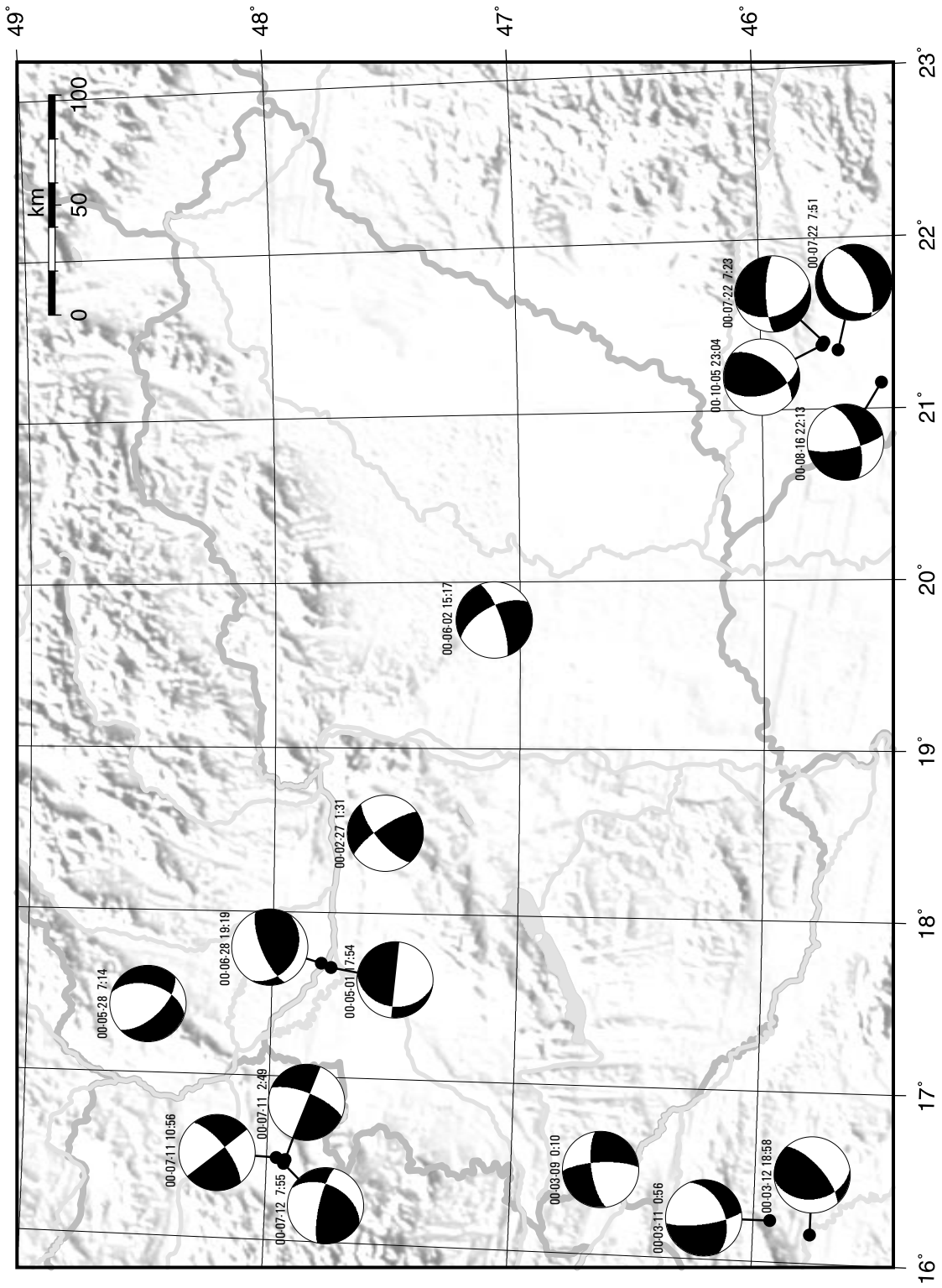


Figure 3.3.
Fault plane solutions of 2000 earthquakes

Hypocenter Parameters

PHASE DATA

Key to phase data encoding

time:	Time of occurrence of event in hours, mins and secs (UTC).
ML:	Richter local magnitude of the earthquake.
lat:	Latitude of the event in degrees.
lon:	Longitude of the event in degrees.
h:	Depth of the hypocenter in km.
erh:	Standard error of the epicenter in km. ($erh = \sqrt{SDX^2 + SDY^2}$, where SDX and SDY are the standard errors in latitude and longitude respectively, of the epicenter.) If $erh = ---$, this means that erh could not be computed because of insufficient data.
erz:	Standard error of the focal depth in km. If $erz = ---$, this means that erz could not be computed either because focal depth is fixed in the solution or because of insufficient data.
nr:	Number of station readings used in locating the earthquake. P and S arrivals for the same stations are regarded as 2 readings.
gap:	Largest azimuthal separation in degrees between stations.
rms:	Root mean square error of time residuals in seconds. ($rms = \sqrt{\sum R_i^2 / nr}$, where R_i is the time residual of the i^{th} station.
Locality:	A geographical indication of the epicenter area, usually the nearest settlement.
Comments:	Additional comments about the event, eg. maximum EMS intensity
sta:	Station name. (For details see Chapter 2.)
dist:	Distance from earthquake epicenter to station in km.
azm:	Azimuthal angle between epicenter to station measured from North in degrees.
phase:	Phase identifier; the first letter characterizes onset e = emergent i = impulsive, the second and third indicate the phase eg. Pn, Pg, Sn and Sg, the fourth indicates the polarity C=compression/up D=dilatation/down.
hr mn sec:	Arrival time of the phase from input data.
res:	Residual of the phase in secs. ($res = T_{obs} - T_{cal}$, where T_{obs} is the observed and T_{cal} is the calculated travel time respectively.

Fault plane solutions were attempted for each event where any information for the stress field could be drawn. Stereographic projections of the lower focal hemisphere are shown, P and T are the main compression and tension axes respectively.

Hypocenter Parameters

1.

2000- 1-02 time: 6:50:58.78 UTC ML= 1.4
 lat: 46.442N lon: 17.802E h= 16.2 km
 erh= 8.3km erz= 3.6km
 nr= 7 gap=270 rms=0.61
 Locality: Somogyaszaló
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKS9	40.0	66	iPgC	6:51:06.80	0.31
			eSg	51:13.00	0.49
PKSM	69.5	112	iPgD	6:51:11.20	-0.33
			iSg	51:20.90	-0.57
RHK2	83.5	114	iS*	6:51:26.50	1.13
PKSC	115.1	25	iPnC	6:51:18.60	0.50
			iSn	51:32.20	-0.96

2.

2000- 1-05 time: 11:37:11.65 UTC ML= 1.4
 lat: 47.437N lon: 18.446E h= 10.0 km
 erh=17.3km erz= 1.6km
 nr= 5 gap=346 rms=0.28
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	6.4	186	iPgC	11:37:13.70	-0.06
			iSg	37:15.20	-0.21
PKS9	95.4	188	ePg	11:37:29.20	0.42
PKSM	137.1	174	ePnC	11:37:34.80	0.31
			eSn	37:51.70	-0.61

3.

2000- 1-12 time: 1:07:44.30 UTC ML= 2.0
 lat: 46.033N lon: 17.671E h= 10.0 km
 erh=38.3km erz= 285km
 nr= 6 gap=314 rms=0.33
 Locality: Nagydobsza
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKS9	77.4	37	iPgC	1:07:58.20	-0.04
			eSg	08:09.70	0.58
PKSM	77.6	75	ePgC	1:07:57.80	-0.48
			eSg	08:08.90	-0.28
RHK2	87.1	83	ePg	1:08:00.40	0.43
			iSg	08:12.20	0.02

4.

2000- 2-04 time: 12:20:07.68 UTC ML= 1.8
 lat: 47.716N lon: 18.528E h= 13.7 km
 erh= 9.5km erz= 3.1km
 nr= 9 gap=302 rms=0.82
 Locality: Nyergesújfalu
 Comments:

sta	dist	azm	phase	hr mn sec	res
ETYK	34.7	152	iPgD	12:20:14.79	0.45
			iSg	20:19.50	-0.04
PKSC	37.9	190	iPgC	12:20:14.40	-0.48
			eSg	20:20.00	-0.49
PKS9	126.9	189	ePn	12:20:29.70	0.91
			eSn	20:46.00	0.74
PKSN	136.2	132	iPnD	12:20:23.90	-6.04
PKSM	167.4	177	iPnD	12:20:34.30	0.46
			iSn	20:53.50	-0.75

5.

2000- 2-15 time: 11:09:30.86 UTC ML= 0.1
 lat: 45.873N lon: 18.383E h= 10.0 km
 erh= 5.9km erz= 3.6km
 nr= 5 gap=254 rms=1.07
 Locality: Villányi mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
RHK3	10.2	282	ePgD	11:09:32.90	-0.51
			iSg	09:34.80	-0.60
PKSM	42.7	28	ePgC	11:09:38.60	-0.09
			iSg	09:43.70	-1.09
PKS9	79.8	354	iPgC	11:09:46.90	1.68

6.

2000- 2-16 time: 13:22:26.38 UTC ML= 2.4
 lat: 47.525N lon: 18.478E h= 13.3 km
 erh= 2.8km erz= 1.4km
 nr= 14 gap=122 rms=0.59
 Locality: Szárliget
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSC	16.3	191	ePgD	13:22:29.60	-0.53
			iSg	22:32.60	-0.46
ETYK	22.2	115	iPgC	13:22:31.10	0.10
			iSg	22:34.90	0.29
BUD	41.4	96	ePg	13:22:34.00	-0.14
			eSg	22:40.00	-0.20
PKS9	105.4	188	iPnD	13:22:46.20	1.35
			iSn	22:58.90	-0.36
PSZ	115.0	68	iPnD	13:22:46.30	0.25
			iSn	23:00.70	-0.70
ZST	127.1	306	ePn	13:22:48.20	0.64
			eSn	23:02.90	-1.19
PKSM	146.5	175	iPnC	13:22:50.40	0.42
			eSn	23:07.20	-1.20

7.

2000- 2-23 time: 11:52:46.58 UTC ML= 1.0
 lat: 47.453N lon: 18.718E h= 10.0 km
 erh=25.7km erz= 9.6km
 nr= 8 gap=170 rms=1.10
 Locality: Etyek
 Comments:

sta	dist	azm	phase	hr mn sec	res
ETYK	2.5	125	iPgC	11:52:47.81	-0.61
			iSg	52:50.80	0.95
PKSC	22.7	249	iPgD	11:52:50.70	-0.30
			eSg	52:54.50	0.05
BUD	23.3	82	ePgD	11:52:46.60	-4.51
			eSg	52:54.90	0.26
PSZ	102.4	60	iPgC	11:53:05.90	0.95
			eSg	53:19.30	0.02

8.

2000- 2-24 time: 18:03:33.43 UTC ML= 0.6
 lat: 47.685N lon: 18.506E h= 10.0 km
 erh=19.1km erz=24.2km
 nr= 6 gap=247 rms=1.05
 Locality: Héreg
 Comments:

sta	dist	azm	phase	hr mn sec	res
-----	------	-----	-------	-----------	-----

Hypocenter Parameters

```

ETYK 32.6 147  iPgD 18:03:38.63 -0.89
      32.6 147  iSg   03:44.80  0.52
PKSC 34.3 189  iPgC 18:03:40.30  0.49
      34.3 189  iSg   03:43.60 -1.18
PSZ  107.2 76  iP*D 18:03:54.30  1.75
      107.2 76  iS*   04:06.50 -0.95
    
```

9.

```

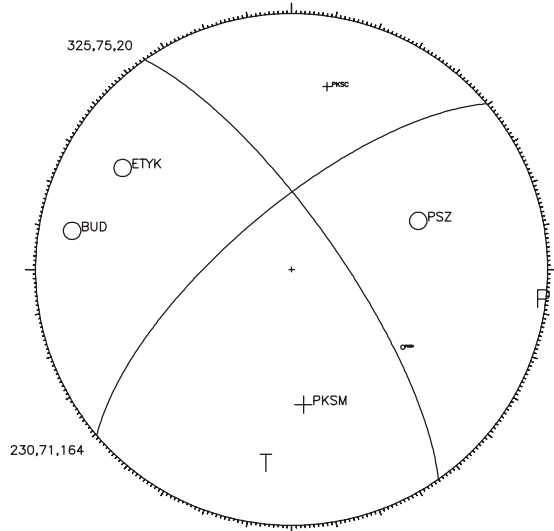
2000- 2-26 time: 19:28:24.27 UTC ML= 1.8
lat: 45.667N lon: 17.255E h= 14.8 km
      erh=20.5km erz= 9.7km
nr= 10 gap=213 rms=1.21
Locality: Croatia
Comments:
    
```

sta	dist	azm	phase	hr mn sec	res
RHK3	81.6	72	iP*C	19:28:38.70	-0.35
			eS*	28:48.50	-2.07
PTJ	103.2	285	iPn	19:28:42.40	0.11
			iSn	28:54.00	-2.34
PKSM	123.4	61	iPnC	19:28:44.60	-0.20
			iSn	28:59.80	-1.01
PKS9	129.3	38	iPnC	19:28:47.70	2.16
RHK2	129.7	67	iPnC	19:28:46.70	1.11
			eSn	29:02.30	0.09
PKS2	177.1	59	eSn	19:29:12.20	-0.52
PKSN	243.4	56	iPn	19:28:50.40	-9.36

10.

```

2000- 2-27 time: 1:31:40.89 UTC ML= 1.3
lat: 47.546N lon: 18.484E h= 10.0 km
      erh= 4.8km erz= 2.5km
nr= 12 gap=238 rms=0.69
Locality: Szárliget
Comments:
    
```



sta	dist	azm	phase	hr mn sec	res
PKSC	18.7	191	ePgC	1:31:44.20	-0.48
			iSg	31:47.20	-0.43
ETYK	22.9	121	iPgD	1:31:45.84	0.49
			iSg	31:49.40	0.56
BUD	41.3	100	iPgD	1:31:48.60	0.13
			iSg	31:53.80	-0.59
PSZ	113.6	69	iPnD	1:32:00.80	-0.02
			eSn	32:14.80	-1.56
PKSN	127.2	125	iPnD	1:31:54.10	-8.41
PKS2	129.6	155	ePn	1:32:04.20	1.39

```

PKSM 148.8 175  eSn 32:20.80  0.89
      148.8 175  iPnC 1:32:05.20  0.00
      148.8 175  eSn 32:21.80 -2.36
    
```

11.

```

2000- 3-02 time: 6:15:38.31 UTC ML= 2.7
lat: 47.011N lon: 21.608E h= 10.0 km
      erh=25.7km erz=26.7km
nr= 12 gap=301 rms=0.46
Locality: Füzesgyarmat
Comments: felt 3-4 EMS
    
```

sta	dist	azm	phase	hr mn sec	res
PSZ	164.0	308	iPnU	6:16:04.43	-0.08
BUD	202.6	285	ePn	6:16:13.00	3.67
ETYK	222.1	282	iPn	6:16:11.40	-0.36
			iSn	16:37.30	-0.55
PKS8	223.7	266	iPnC	6:16:11.60	-0.36
			eSn	16:38.20	-0.01
PKSC	243.8	280	iPnC	6:16:15.00	0.53
			eSn	16:43.30	0.63
PKSM	244.1	249	iPnC	6:16:14.60	0.10
			eSn	16:45.90	3.18
PKS9	258.5	259	iPnC	6:16:16.20	-0.10
SRO	264.2	290	ePn	6:16:18.10	1.09
ARSA	462.5	273	iPnC	6:16:42.00	0.27
KHC	643.2	291	ePn	6:17:01.00	-3.27
			eSn	18:12.50	1.18

12.

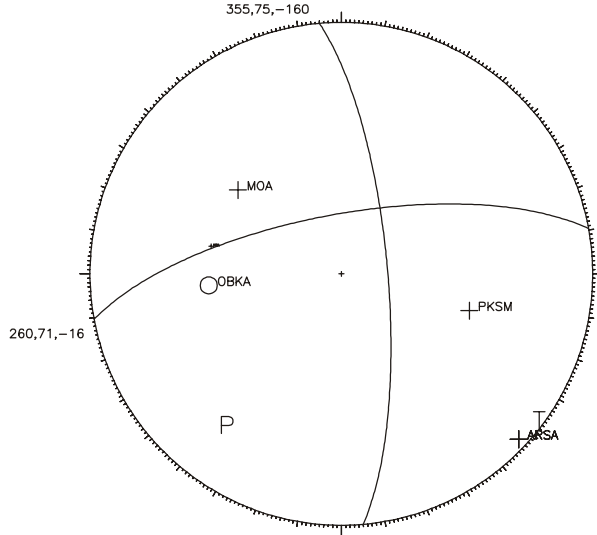
```

2000- 3-09 time: 0:10:23.87 UTC ML= 1.6
lat: 46.631N lon: 16.504E h= 7.0 km
      erh= 4.4km erz= 4.6km
nr= 17 gap= 99 rms=0.94
Locality: Lenti
Comments:
    
```

sta	dist	azm	phase	hr mn sec	res
PTJ	90.1	207	iPg	0:10:40.52	0.51
			iSg	10:51.93	-0.67
DOBS	95.9	236	iPg	0:10:40.20	-0.85
			iSg	10:53.20	-1.25
DOBS	95.9	236	iPg	0:10:40.26	-0.79
			iSg	10:53.20	-1.25
ZAG	97.5	204	iPg	0:10:42.15	0.83
			iSg	10:53.60	-1.33
ARSA	101.6	313	iPgC	0:10:42.00	-0.06
			iSg	10:55.70	-0.54
ARSA	101.6	313	iPgC	0:10:42.00	-0.06
			iSg	10:55.70	-0.54
CESS	108.5	228	iPg	0:10:42.70	-0.59
			iSg	10:56.60	-1.84
PKS9	136.0	92	ePn	0:10:47.50	0.53
			Sn	11:05.60	0.61
OBKA	150.5	265	iPnD	0:10:48.60	-0.18
			iSn	11:08.90	0.70
LJU	165.6	247	iPn	0:10:52.40	1.74
			iSn	11:12.10	0.55
PKS8	168.2	81	ePn	0:10:54.00	3.01
PKSC	169.0	60	ePn	0:10:50.50	-0.58
			eSn	11:08.90	-3.40
PKSM	170.8	106	iPnC	0:10:49.60	-1.70
			Sn	11:08.30	-4.40
CEY	188.6	238	iPn	0:10:53.30	-0.22
			iSn	11:18.70	2.05
VOY	211.8	252	ePn	0:10:59.30	2.88
			eSn	11:27.20	5.40
MOA	217.0	309	iPnC	0:10:57.90	0.84
			iSn	11:22.90	-0.05

Hypocenter Parameters

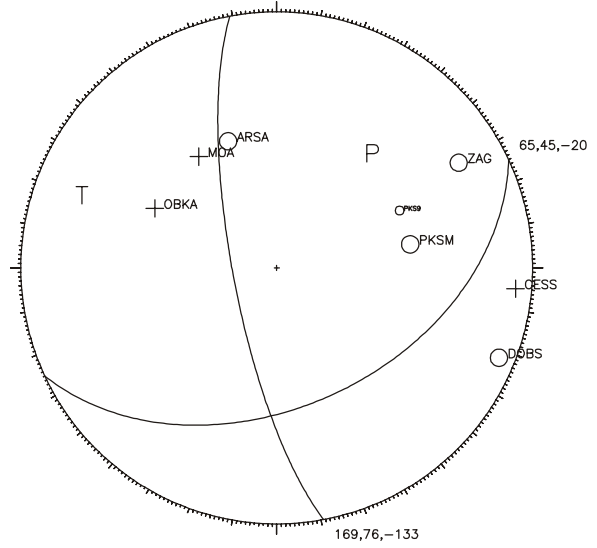
KBA 246.0 282 iPnC 0:11:06.10 5.41
 iSn 11:36.00 6.60
 KHC 353.8 322 ePn 0:11:16.00 1.88
 eSn 12:03.00 9.68



13.

2000- 3-11 time: 0:56:44.81 UTC ML= 1.9
 lat: 45.930N lon: 16.242E h= 7.6 km
 erh= 4.0km erz= 3.0km
 nr= 16 gap=158 rms=0.60
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
PTJ	21.0	264	iPg	0:56:48.88	0.09
			iSg	56:51.35	-0.55
ZAG	22.3	240	iPgD	0:56:50.00	0.99
			iSg	56:53.25	0.96
CESS	60.5	275	iPgC	0:56:55.26	-0.44
			iSg	57:02.04	-2.16
DOBS	64.6	292	iPgD	0:56:55.47	-0.95
			iSg	57:02.59	-2.88
VBY	90.1	238	iPg	0:57:00.82	-0.13
			iSg	57:12.62	-0.93
LJU	133.4	275	iPn	0:57:06.61	-0.89
			iSn	57:23.12	-2.08
CEY	142.6	261	iPn	0:57:08.70	0.05
			iSn	57:27.61	0.37
OBKA	145.6	296	iPnC	0:57:09.40	0.38
			iSn	57:26.80	-1.11
ARSA	156.8	339	iPnD	0:57:10.70	0.29
			iSn	57:28.90	-1.49
PKS9	173.2	65	ePnD	0:57:12.10	-0.37
			eSn	57:37.70	3.66
VOY	182.3	274	ePn	0:57:15.40	1.80
			eSn	57:38.30	2.24
PKSM	188.3	80	iPnD	0:57:14.10	-0.24
			iSn	57:42.20	4.82
PKSC	232.9	46	ePn	0:57:20.70	0.79
			eSn	57:57.60	10.31
PKS2	237.7	75	ePn	0:57:20.70	0.20
MOA	261.2	325	iPnC	0:57:24.40	0.97
			iSn	57:51.90	-1.65
KHC	408.5	331	ePn	0:57:41.50	-0.30
			eSn	58:23.50	-2.76



14.

2000- 3-11 time: 18:14:38.86 UTC ML= 1.0
 lat: 46.988N lon: 18.256E h= 18.1 km
 erh= 3.5km erz= 2.6km
 nr= 8 gap=200 rms=0.49
 Locality: Lepsény
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKS8	34.3	111	iPgD	18:14:46.30	0.52
			iSg	14:51.00	-0.19
PKS9	44.6	178	iPgC	18:14:47.90	0.44
			iSg	14:54.00	-0.17
PKSC	45.8	18	iPgC	18:14:47.70	0.05
			iSg	14:53.70	-0.80
PKSM	91.2	161	iP*D	18:14:55.20	0.41
			iS*	15:06.30	-0.91

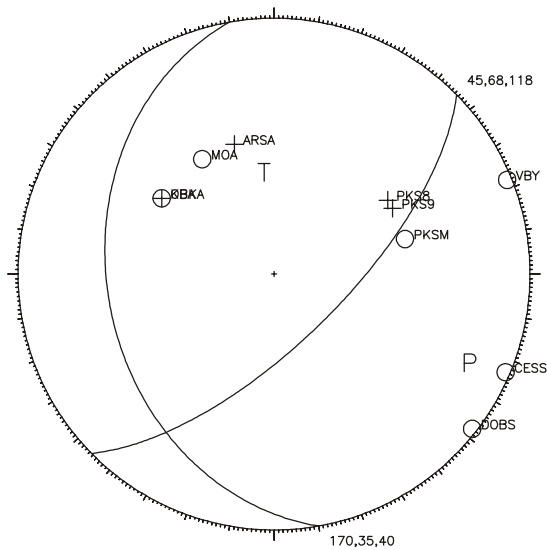
15.

2000- 3-12 time: 18:58:08.74 UTC ML= 2.6
 lat: 45.765N lon: 16.165E h= 2.5 km
 erh= 2.5km erz= 2.0km
 nr= 18 gap=172 rms=0.41
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
ZAG	15.1	298	iPg	18:58:11.80	0.33
			iSg	58:13.40	-0.19
PTJ	21.9	317	iPg	18:58:12.47	-0.20
CESS	59.2	293	iPgD	18:58:19.49	0.17
			iSg	58:25.89	-1.68
DOBS	68.8	308	iPgD	18:58:20.50	-0.54
			eSg	58:28.46	-2.17
VBY	76.5	248	iPgD	18:58:22.38	-0.03
LJU	130.8	284	ePn	18:58:31.22	-0.55
			eSn	58:46.19	-3.54
CEY	135.3	269	iPn	18:58:32.18	-0.15
			iSn	58:48.85	-1.87
OBKA	149.8	304	iPnD	18:58:34.00	-0.14
			iSn	58:52.40	-1.54
ARSA	172.3	343	iPnC	18:58:36.80	-0.15
			iSn	58:57.00	-1.95
VOY	178.8	280	ePn	18:58:38.80	1.05
			eSn	59:00.70	0.33
PKS9	187.1	61	iPnC	18:58:38.80	0.01

Hypocenter Parameters

		iSn	59:09.20	6.98	
PKSM	198.2	75	iPnD 18:58:40.20	0.02	
			iSn 59:02.40	-2.30	
PKS8	229.7	57	iPnC 18:58:43.50	-0.60	
			eSn 59:18.80	7.12	
PKS2	249.1	71	ePn 18:58:46.80	0.28	
			eSn 59:14.00	-1.98	
PKSC	250.2	44	ePn 18:58:49.60	2.94	
KBA	261.4	304	iPnC 18:58:48.30	0.25	
			iSn 59:19.10	0.39	
MOA	273.3	328	iPnD 18:58:50.50	0.96	
			iSn 59:20.10	-1.27	
PKS6	278.4	71	ePn 18:58:53.90	3.72	
			eSn 59:34.60	12.10	
KHC	422.0	332	ePn 18:59:08.40	0.32	
			eSn 59:51.00	-3.37	



16.

2000- 3-22 time: 10:54:04.22 UTC ML= 1.5
 lat: 47.487N lon: 18.420E h= 7.4 km
 erh=14.8km erz= 5.3km
 nr= 7 gap=276 rms=0.79
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	11.9	174	iPgC	10:54:06.40	-0.32
			iSg	54:08.00	-0.67
ETYK	25.0	102	iPgD	10:54:09.00	0.12
PKS8	70.3	164	ePg	10:54:18.70	1.85
PKS9	100.6	186	iPgC	10:54:22.80	0.57
PKSM	142.7	173	ePnC	10:54:27.50	-0.60
			eSn	54:45.00	-1.73

17.

2000- 3-29 time: 9:52:20.25 UTC ML= 1.8
 lat: 47.329N lon: 18.306E h= 0.0 km
 erh= ***km erz= ***km
 nr= 6 gap=238 rms=1.10
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	11.5	60	iPgC	9:52:21.90	-0.40
			iSg	52:23.30	-0.60
ETYK	35.4	70	eSg	9:52:32.10	0.60

PKS9	82.5	181	iPgC	9:52:38.30	3.32
PKSM	126.8	168	ePg	9:52:43.40	0.51
			iSg	52:59.60	-0.95

18.

2000- 4-01 time: 22:14:34.17 UTC ML= 1.9
 lat: 46.992N lon: 21.333E h= 33.9 km
 erh= ***km erz= ***km
 nr= 6 gap=339 rms=0.74
 Locality: Újiráz
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKS6	141.9	252	iPgC	22:14:55.10	-0.29
			Sg	15:12.80	0.86
PKS7	165.3	272	iPgD	22:14:58.00	-0.31
			eSg	15:17.10	-0.04
PKS2	171.3	251	iPgC	22:15:00.10	1.04
			iSg	15:17.30	-1.18

19.

2000- 4-03 time: 9:45:27.07 UTC ML= 2.7
 lat: 47.406N lon: 18.444E h= 10.0 km
 erh= 9.3km erz= 2.9km
 nr= 6 gap=251 rms=0.45
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	2.9	190	iPgC	9:45:28.80	-0.13
			iSg	45:30.00	-0.38
ETYK	23.0	80	eSg	9:45:35.10	0.04
PKS8	61.2	163	ePg	9:45:39.40	1.25
PKSM	133.6	174	ePnC	9:45:49.90	0.41
			iSn	46:06.70	-0.27

20.

2000- 4-04 time: 10:27:53.59 UTC ML= 1.0
 lat: 47.468N lon: 18.730E h= 9.4 km
 erh= 0.8km erz= 0.2km
 nr= 6 gap=273 rms=0.05
 Locality: Etyek
 Comments:

sta	dist	azm	phase	hr mn sec	res
ETYK	3.3	160	iPgD	10:27:55.40	0.02
			iSg	27:56.70	-0.07
BUD	22.2	85	ePg	10:27:58.50	0.59
PKSC	24.1	246	iPgD	10:27:58.30	0.08
			iSg	28:01.80	-0.03
PKSM	139.8	183	iPnC	10:28:16.80	-0.05
			iSn	28:35.00	0.01

21.

2000- 4-05 time: 8:48:34.76 UTC ML= 2.6
 lat: 48.124N lon: 16.753E h= 0.4 km
 erh=19.5km erz=14.6km
 nr= 6 gap=287 rms=0.21
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr mn sec	res
ZST	27.2	73	ePg	8:48:39.60	-0.02
			eSg	48:43.50	0.09
PKSC	150.9	123	iPnC	8:49:00.40	-0.16
			iSn	49:20.80	0.12
PKSM	256.3	146	iPnC	8:49:14.60	0.90
			eSn	49:43.60	-0.47

Hypocenter Parameters

22.

2000- 4-18 time: 8:18:45.91 UTC ML= 1.4
 lat: 47.444N lon: 18.575E h= 3.9 km
 erh= 6.4km erz= 5.7km
 nr= 6 gap=302 rms=0.58
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	12.5	236	iPgC	8:18:48.20	-0.06
			iSg	18:49.80	-0.29
PKS9	97.9	193	iPgC	8:19:04.70	1.29
			eSg	19:17.20	0.15
PKSM	137.1	178	iPnC	8:19:09.20	-0.34
			eSn	19:25.10	-2.87

23.

2000- 4-26 time: 2:50:08.12 UTC ML= 0.9
 lat: 47.687N lon: 19.281E h= 10.0 km
 erh= ---km erz= ---km
 nr= 4 gap=299 rms=0.17
 Locality: Órbottyán
 Comments:

sta	dist	azm	phase	hr mn sec	res
PENC	11.5	0	iPgD	2:50:10.80	-0.04
			iSg	50:12.96	-0.01
PSZ	52.7	61	ePg?	2:50:18.06	0.37
			iSg	50:24.96	-0.19

24.

2000- 5-01 time: 0:32:34.29 UTC ML= 1.4
 lat: 47.036N lon: 19.097E h= 5.9 km
 erh=10.9km erz=97.4km
 nr= 6 gap=191 rms=0.64
 Locality: Kunszentmiklós
 Comments:

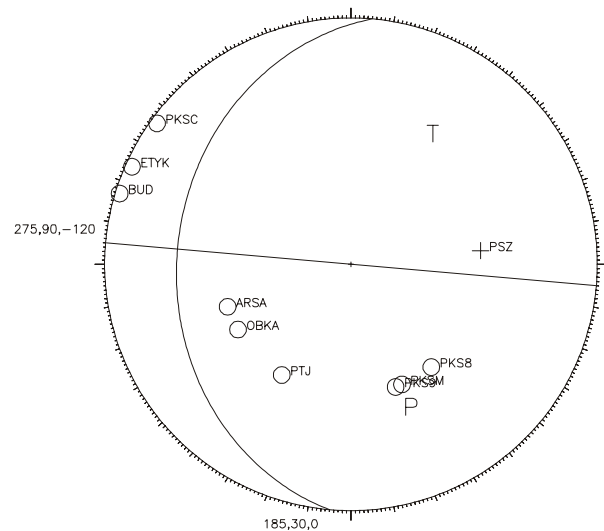
sta	dist	azm	phase	hr mn sec	res
PKS2	61.1	172	iPgD	0:32:43.84	-1.42
			eSg	32:54.10	0.29
PKSM	98.0	201	Pg	0:32:51.74	-0.09
			eSg	33:06.11	0.60
PSZ	115.1	31	ePg?	0:32:55.21	0.34
			iSg	33:11.06	0.15

25.

2000- 5-01 time: 17:54:41.95 UTC ML= 2.6
 lat: 47.759N lon: 17.665E h= 4.2 km
 erh= 2.5km erz= 2.2km
 nr= 13 gap=124 rms=0.34
 Locality: Vámoszabadi
 Comments: felt 4 EMS

sta	dist	azm	phase	hr mn sec	res
SRO	49.0	83	Pg	17:54:50.60	-0.12
			eSg	54:57.10	-0.47
ZST	64.2	319	ePg	17:54:53.30	-0.14
			eSg	55:01.40	-1.00
PKSC	71.7	126	iPgD	17:54:54.70	-0.08
			iSg	55:04.70	-0.09
ETYK	88.6	114	iPgD	17:54:58.30	0.51
			iSg	55:10.80	0.66
BUD	106.6	107	iPgD	17:55:00.70	-0.30
			iSg	55:14.50	-1.37
PKS8	124.2	142	iPnD	17:55:03.60	-0.34
			iSn	55:18.80	-2.29
PKS9	138.4	160	iPnD	17:55:06.10	0.40

			iSn	55:24.00	-0.23
PSZ	167.9	84	iPnC	17:55:09.80	0.42
			iSn	55:30.00	-0.77
ARSA	171.0	251	iPnD	17:55:09.70	-0.07
			iSn	55:32.50	1.03
PKS2	183.4	140	ePn	17:55:11.80	0.48
			Sn	55:36.90	2.67
PKSM	187.4	157	iPnD	17:55:11.40	-0.41
			iSn	55:32.10	-3.00
PTJ	242.8	212	iPnD	17:55:18.10	-0.62
			iSn	55:52.20	4.79
OBKA	274.2	240	iPnD	17:55:23.00	0.36
			iSn	55:54.30	-0.08
DPC	303.3	342	e n	17:55:26.40	0.14
			eSn	55:57.20	-3.63
PRU	337.6	317	ePn	17:55:40.00	9.46
			Sn	56:04.50	-3.94
KHC	338.7	297	ePn	17:55:30.00	-0.68
			Sn	56:05.50	-3.19



26.

2000- 5-01 time: 19:07:40.63 UTC ML= 1.6
 lat: 47.735N lon: 17.733E h= 10.0 km
 erh= 4.4km erz= 3.0km
 nr= 13 gap=187 rms=0.79
 Locality: Vének
 Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	44.4	79	Pg	19:07:48.20	-0.55
			eSg	07:54.20	-0.89
PKSC	66.0	127	iPgD	19:07:52.20	-0.36
			iSg	08:02.30	0.44
ETYK	82.9	113	iPg	19:07:55.70	0.16
			iSg	08:08.10	0.94
PKS8	119.0	143	iPnC	19:08:01.60	0.38
			iSn	08:15.50	-1.78
PKS9	134.2	162	ePn	19:08:07.10	3.99
PSZ	163.1	83	ePnC	19:08:07.60	0.87
			iSn	08:27.40	0.32
ARSA	175.0	252	iPnC	19:08:07.40	-0.81
			iSn	08:30.60	0.88
KHC	344.4	297	ePn	19:08:20.00	-9.33
			eSn	09:16.50	9.18

Hypocenter Parameters

27.

2000- 5-02 time: 2:09:52.68 UTC ML= 1.5
 lat: 47.806N lon: 17.721E h= 5.9 km
 erh= 3.8km erz= 3.1km
 gap=132 rms=0.82
 nr= 17
 Locality: Hungary-Slovakia border
 Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	44.4	89	Pg	2:10:01.30	0.62
			eSg	10:07.50	0.58
ZST	63.3	313	ePg	2:10:03.80	-0.23
			eSg	10:11.70	-1.19
PKSC	71.7	131	iPgC	2:10:05.20	-0.34
			iSg	10:15.00	-0.56
ETYK	87.1	118	iPgD	2:10:08.00	-0.27
			iSg	10:21.10	0.67
PKS8	125.9	145	iPnC	2:10:14.20	-0.47
			eSn	10:29.20	-2.62
PKS9	142.0	163	ePn	2:10:20.30	3.62
			eSn	10:34.40	-0.99
PSZ	163.1	86	ePnD	2:10:19.10	-0.21
			eSn	10:40.40	0.32
ARSA	176.6	250	iPnD	2:10:23.00	2.01
			iSn	10:42.90	-0.18
PKSM	190.6	158	eSn	2:10:46.20	0.02
KHC	339.9	296	e n	2:11:08.50	27.15
			eSn	11:31.50	12.19

28.

2000- 5-02 time: 6:08:43.86 UTC ML= 2.0
 lat: 45.839N lon: 19.664E h= 4.7 km
 erh= ---km erz= ---km
 gap=350 rms=0.15
 nr= 4
 Locality: Yugoslavia
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSM	89.4	298	iPgC	6:08:59.80	-0.04
			iSg	09:12.30	-0.01
PKS9	135.4	308	ePn	6:09:07.50	0.31
			eSn	09:25.10	-0.28

29.

2000- 5-02 time: 11:17:58.18 UTC ML=
 lat: 47.220N lon: 18.891E h= 10.0 km
 erh= ---km erz= ---km
 gap=317 rms=0.00
 Locality: Szigetújfalu
 Comments:

sta	dist	azm	phase	hr mn sec	res
ETYK	26.9	336	ePg	11:18:03.30	0.00
			eSg	18:07.30	0.00
BUD	31.0	19	ePg	11:18:04.00	0.00

30.

2000- 5-03 time: 8:43:31.23 UTC ML= 0.3
 lat: 45.833N lon: 18.420E h= 1.5 km
 erh= ---km erz= ---km
 gap=275 rms=0.15
 nr= 4
 Locality: Villányi mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
RHK3	14.5	297	iPgD	8:43:33.70	-0.13
			iSg	43:35.90	0.04
PKSM	45.5	22	iPgC	8:43:39.50	0.15

eSg 43:45.20 -0.49

31.

2000- 5-03 time: 9:15:25.79 UTC ML= 1.8
 lat: 47.445N lon: 18.374E h= 0.0 km
 erh=57.8km erz=46.7km
 gap=267 rms=1.47
 nr= 5
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	8.6	147	iPgC	9:15:26.50	-0.83
			iSg	15:28.00	-0.53
ETYK	27.9	91	ePg	9:15:31.30	0.52
			Sg	15:36.80	2.12
PKS8	67.1	160	Pg	9:15:41.00	3.23
PKS9	95.7	184	iPgC	9:15:43.00	0.12
PKSM	138.7	172	iPnC	9:15:47.60	-2.51
			eSn	16:04.40	-4.68

32.

2000- 5-04 time: 5:06:23.96 UTC ML= 0.6
 lat: 45.900N lon: 18.134E h= 10.0 km
 erh= ---km erz= ---km
 gap=313 rms=0.00
 nr= 3
 Locality: Babarcszölös
 Comments:

sta	dist	azm	phase	hr mn sec	res
RHK3	9.3	96	ePg	5:06:26.40	0.00
			iSg	06:28.30	0.00
PKSM	52.3	49	eSg	5:06:40.90	0.00

33.

2000- 5-09 time: 7:53:51.88 UTC ML= 0.3
 lat: 45.842N lon: 18.427E h= 0.3 km
 erh= ---km erz= ---km
 gap=270 rms=0.01
 nr= 4
 Locality: Villányi mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
RHK3	14.6	292	ePgC	7:53:54.50	0.01
			eSg	53:56.50	-0.02
PKSM	44.4	22	iPgD	7:53:59.80	-0.01
			eSg	54:06.00	0.01

34.

2000- 5-10 time: 8:32:41.01 UTC ML= 1.5
 lat: 47.370N lon: 18.548E h= 0.0 km
 erh= ---km erz= ---km
 gap=275 rms=0.02
 nr= 3
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	8.4	278	iPgC	8:32:42.50	-0.02
			iSg	32:43.70	0.01
PKS9	89.4	193	ePg	8:32:57.00	0.02

35.

2000- 5-10 time: 10:48:21.57 UTC ML= 1.5
 lat: 47.441N lon: 18.490E h= 10.0 km
 erh=13.3km erz= 4.4km
 gap=316 rms=0.71
 nr= 7
 Locality: Vértes mt.
 Comments: explosion

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
PKSC	7.8	211	iPgC	10:48:23.50	-0.33
			iSg	48:25.00	-0.59
PKS8	64.1	167	ePg	10:48:33.10	-0.05
			eSg	48:42.80	0.62
PKS9	96.3	190	iPgC	10:48:40.00	1.15
			eSg	48:52.20	-0.13
PKSM	137.1	175	eSn	10:49:01.30	-0.94

36.

2000- 5-15 time: 8:54:32.51 UTC ML= 1.5
 lat: 47.373N lon: 18.529E h= 0.0 km
 erh= ***km erz= ***km
 nr= 8 gap=148 rms=0.95
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	7.0	277	iPgC	8:54:33.50	-0.26
			iSg	54:34.50	-0.23
ETYK	17.9	65	iPgC	8:54:35.60	-0.12
			eSg	54:44.70	6.48
PKS8	56.1	168	iPgC	8:54:44.10	1.57
			eSg	54:50.80	0.46
PKSM	129.4	176	iPgC	8:54:55.10	-0.51
			iSg	55:11.30	-2.33

37.

2000- 5-16 time: 9:05:40.39 UTC ML= 0.2
 lat: 45.834N lon: 18.399E h= 10.0 km
 erh= 6.3km erz= 7.5km
 nr= 5 gap=275 rms=0.45
 Locality: Villányi mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
RHK3	12.9	299	ePg	9:05:43.10	-0.21
			eSg	05:45.30	-0.28
PKSM	46.0	24	iPgC	9:05:48.90	0.11
			eSg	05:54.90	-0.44
PKS9	84.2	354	iPgC	9:05:57.40	1.88

38.

2000- 5-22 time: 12:02:31.09 UTC ML= 1.7
 lat: 47.487N lon: 18.529E h= 0.0 km
 erh=14.8km erz=11.0km
 nr= 5 gap=326 rms=0.50
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	13.7	210	iPgC	12:02:33.50	-0.04
			iSg	02:35.40	-0.04
PKS9	101.9	191	iPgC	12:02:50.00	0.72
			eSg	03:02.00	-1.46
PKSM	142.0	177	iPnC	12:02:55.50	-0.33
			eSn	03:10.70	-4.43

39.

2000- 5-22 time: 12:04:25.38 UTC ML= 1.5
 lat: 47.424N lon: 18.556E h= 3.9 km
 erh= 3.3km erz= 2.4km
 nr= 6 gap=296 rms=0.77
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	10.1	242	iPgU	12:04:27.30	-0.02

sta	dist	azm	phase	hr mn sec	res
PKS9	95.4	193	iSg	04:28.19	-0.64
			iPgU	12:04:43.74	1.31
			eSg	04:56.22	0.49
PKSM	134.9	177	iPnU	12:04:48.56	-0.18
			eSn	05:05.62	-1.34

40.

2000- 5-25 time: 4:47:40.11 UTC ML= 1.5
 lat: 47.823N lon: 18.601E h= 10.0 km
 erh= 2.1km erz= 3.1km
 nr= 7 gap=176 rms=0.37
 Locality: Hungary-Slovakia border
 Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	21.5	267	eSg	4:47:47.30	-0.36
BUD	49.3	140	eSg	4:47:56.00	-0.10
PKSC	50.7	194	ePgD	4:47:49.90	0.57
			iSg	47:56.40	-0.12
PSZ	97.4	84	iPgC	4:47:58.00	0.41
			iSg	48:11.00	-0.23
PKSM	179.1	179	eSn	4:48:29.30	-0.80

41.

2000- 5-25 time: 9:10:30.81 UTC ML= 0.1
 lat: 45.836N lon: 18.420E h= 0.0 km
 erh= ---km erz= ---km
 nr= 4 gap=273 rms=0.19
 Locality: Villányi mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
RHK3	14.3	295	iPgC	9:10:33.30	-0.06
			eSg	10:35.40	0.05
PKSM	45.1	22	iPgD	9:10:39.10	0.23
			iSg	10:44.90	-0.25

42.

2000- 5-25 time: 10:09:14.69 UTC ML= 1.4
 lat: 47.318N lon: 18.501E h= 0.0 km
 erh= ---km erz= ---km
 nr= 4 gap=210 rms=0.37
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	8.5	325	iPgC	10:09:16.10	-0.11
			eSg	09:17.50	0.10
PKSM	123.4	175	ePg	10:09:37.40	0.67
			eSg	09:53.00	-0.92

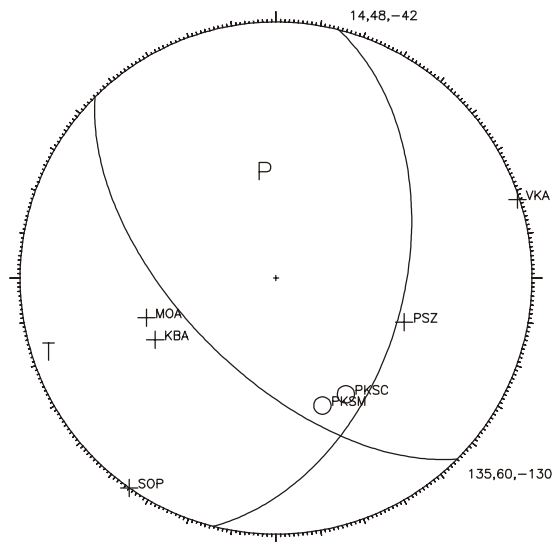
43.

2000- 5-28 time: 7:14:26.60 UTC ML= 2.3
 lat: 48.505N lon: 17.417E h= 0.9 km
 erh= 4.8km erz= 5.3km
 nr= 11 gap=143 rms=0.85
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr mn sec	res
ZST	41.5	214	Pg	7:14:34.20	0.19
			Sg	14:39.70	-0.08
VKA	85.6	252	iPgC	7:14:42.80	0.91
			iSg	14:56.40	2.58
SRO	101.8	139	Pg	7:14:44.80	0.03
			eSg	14:57.60	-1.35
VRAC	107.9	326	Pg	7:14:44.50	-1.36
			Sg	14:58.00	-2.89

Hypocenter Parameters

SOP	111.5	215	iPgC	7:14:45.50	-1.01
			Sg	15:00.40	-1.64
PKSC	146.4	149	iPnD	7:14:51.70	-0.08
			iSn	15:08.10	-3.32
PSZ	195.3	109	iPnC	7:14:59.50	1.62
			iSn	15:21.50	-0.78
ARSA	198.8	225	iPn	7:14:58.70	0.39
			iSn	15:25.60	2.56
MOA	245.4	253	iPnC	7:15:04.30	0.17
			iSn	15:29.30	-4.10
PRU	266.6	308	Pn	7:15:11.50	4.74
			Sn	15:44.00	5.91
PKSM	271.2	160	iPnD	7:15:06.20	-1.14
			eSn	15:32.20	-6.91
KHC	290.4	284	e n	7:15:10.00	0.26
			eSn	15:40.00	-3.38
KBA	343.9	243	iPnC	7:15:17.90	1.50
			iSn	16:09.30	14.05



44.

2000- 5-31 time: 9:28:14.02 UTC ML= 1.8
 lat: 47.491N lon: 18.514E h= 0.0 km
 erh= 6.9km erz= 4.4km
 nr= 5 gap=331 rms=0.64
 Locality: Vértés mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	13.6	205	iPgC	9:28:16.70	0.25
			iSg	28:17.90	-0.44
PKS9	102.1	190	iPgC	9:28:33.20	0.95
			eSg	28:46.20	-0.27
PKSM	142.6	176	iPn	9:28:37.90	-0.93
			eSn	28:53.90	-4.28

45.

2000- 5-31 time: 10:02:45.50 UTC ML= 0.2
 lat: 45.812N lon: 18.432E h= 0.0 km
 erh= ---km erz= ---km
 nr= 4 gap=283 rms=0.17
 Locality: Villányi mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
RHK3	16.4	303	iPgD	10:02:48.40	-0.04
			eSg	02:50.70	-0.03

PKSM	47.3	20	ePgC	10:02:54.20	0.24
			eSg	03:00.20	-0.35

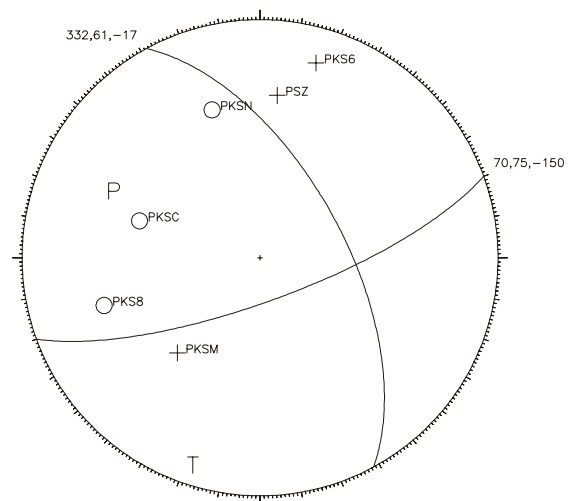
46.

2000- 6-02 time: 15:02:18.59 UTC ML= 1.9
 lat: 47.118N lon: 19.733E h= 10.0 km
 erh= 2.3km erz= 3.5km
 nr= 11 gap=150 rms=0.63
 Locality: Nagykőrös
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSN	26.6	157	iPgC	15:02:23.90	0.23
			iSg	02:27.80	0.18
PKS8	84.7	252	iPgC	15:02:34.00	0.18
			iSg	02:45.00	-0.70
PSZ	89.8	8	iPgD	15:02:34.90	0.17
			iSg	02:46.10	-1.21
PKSC	102.4	287	iPgD	15:02:37.90	0.94
			eSg	02:51.40	0.11
PKS9	125.7	242	ePn	15:02:40.50	0.48
PKSM	130.9	220	ePn	15:02:39.90	-0.77
			eSn	02:56.40	-1.49

47.

2000- 6-02 time: 15:17:30.21 UTC ML= 2.6
 lat: 47.105N lon: 19.769E h= 16.9 km
 erh= 5.4km erz= 4.8km
 nr= 14 gap=156 rms=0.68
 Locality: Nagykőrös
 Comments: felt 3-4 EMS



sta	dist	azm	phase	hr mn sec	res
PKSN	24.3	162	iPgD	15:17:35.50	0.00
			iSg	17:39.50	-0.12
PKS6	58.3	196	iPgC	15:17:41.10	0.05
			eSg	17:49.50	-0.01
PKS8	86.9	253	iP*D	15:17:45.50	-0.08
			iS*	17:57.30	-0.28
PSZ	90.9	6	iP*C	15:17:46.60	0.40
			iS*	17:57.70	-0.97
PKSC	105.4	287	iPnD	15:17:49.60	1.38
			eSn	18:03.10	0.83
PKS9	127.4	243	iPn	15:17:51.30	0.33
			eSn	18:07.20	0.03
PKSM	131.6	221	iPnC	15:17:49.70	-1.79
			eSn	18:08.10	0.01

Hypocenter Parameters

48.

2000- 6-02 time: 15:19:49.76 UTC ML= 1.3
 lat: 47.132N lon: 19.716E h= 10.0 km
 erh= 2.3km erz= 2.2km
 nr= 10 gap=148 rms=0.47
 Locality: Nagykőrös
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSN	28.5	156	iPgC	15:19:55.20	0.04
			eSg	19:59.40	0.03
PKS8	84.0	250	iPgC	15:20:05.00	0.14
			eSg	20:16.20	-0.43
PSZ	88.4	9	iPgC	15:20:06.20	0.55
			iSg	20:17.50	-0.55
PKS9	125.3	241	ePnC	15:20:12.90	1.77
			eSn	20:28.00	0.19
PKSM	131.3	219	ePnC	15:20:11.20	-0.69
			iSn	20:28.80	-0.34

49.

2000- 6-06 time: 8:19:01.05 UTC ML= 1.9
 lat: 47.390N lon: 18.539E h= 0.0 km
 erh= ***km erz= ***km
 nr= 6 gap=267 rms=0.82
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	7.7	262	iPgC	8:19:02.20	-0.23
			iSg	19:03.60	0.09
PKS8	57.8	170	ePg	8:19:11.90	0.53
			Sg	19:17.00	-2.42
PKS9	91.4	192	iPgC	8:19:18.70	1.32
			eSg	19:29.00	-1.11

50.

2000- 6-07 time: 21:15:02.23 UTC ML= 1.4
 lat: 47.332N lon: 19.704E h= 15.5 km
 erh= 4.4km erz= 1.3km
 nr= 7 gap=246 rms=0.15
 Locality: Nagykáta
 Comments: explosion No. 1-505-0, felt

sta	dist	azm	phase	hr mn sec	res
PKSN	49.9	166	ePgC	21:15:11.60	0.03
			eSg	15:17.10	-1.75
ETYK	73.4	279	ePg	21:15:15.60	-0.03
PKS6	82.1	187	eP*	21:15:17.10	0.09
PKS8	92.9	237	iP*C	21:15:18.80	0.15
			eS*	15:31.10	-0.35
PKSC	95.8	273	iP*C	21:15:19.00	-0.10
			eS*	15:31.20	-1.06
PKS9	136.5	233	iPnC	21:15:24.40	0.11
			eSn	15:41.60	0.10
PKSM	148.7	213	iPnC	21:15:25.50	-0.31
			eSn	15:42.90	-1.30

51.

2000- 6-08 time: 10:51:18.21 UTC ML= 1.1
 lat: 45.798N lon: 18.992E h= 0.8 km
 erh= ---km erz= ---km
 nr= 4 gap=311 rms=0.05
 Locality: Yugoslavia
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSM	53.4	329	ePgC	10:51:27.80	0.05

			eSg	51:35.10	-0.09
RHK3	58.3	280	iPgC	10:51:28.60	-0.02
			eSg	51:36.80	0.06

52.

2000- 6-08 time: 12:01:49.86 UTC ML= 1.7
 lat: 47.460N lon: 18.512E h= 4.7 km
 erh= 8.0km erz= 5.5km
 nr= 8 gap=316 rms=0.55
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	10.5	213	iPgC	12:01:51.90	-0.02
			iSg	01:53.30	-0.22
PKS8	65.8	169	ePg	12:02:01.70	0.05
			eSg	02:10.00	-0.85
PKS9	98.7	190	iPgC	12:02:08.40	0.89
			eSg	02:21.50	0.23
PKSM	139.1	176	iPnC	12:02:13.00	-0.64
			eSn	02:29.30	-2.89

53.

2000- 6-09 time: 8:24:59.77 UTC ML= 1.6
 lat: 47.815N lon: 18.514E h= 10.0 km
 erh= 3.3km erz= 1.7km
 nr= 10 gap=248 rms=0.32
 Locality: Hungary-Slovakia border
 Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	15.0	269	ePg	8:25:02.80	-0.20
			eSg	25:05.50	-0.01
ETYK	45.1	157	iPgD	8:25:08.10	0.08
			iSg	25:14.20	-0.26
PKSC	48.6	187	iPgC	8:25:08.90	0.27
			eSg	25:15.10	-0.44
PKS8	104.8	173	iP*C	8:25:18.80	0.28
			eS*	25:30.60	-2.55
PKSM	178.5	177	ePn	8:25:27.50	-0.28
			eSn	25:47.70	-1.93

54.

2000- 6-09 time: 22:39:47.20 UTC ML= 1.2
 lat: 46.807N lon: 19.126E h= 7.1 km
 erh= 1.7km erz=12.0km
 nr= 12 gap=119 rms=0.45
 Locality: Dunatetőtlen
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKS8	35.2	283	iPgD	22:39:53.80	0.19
			eSg	39:58.20	-0.42
PKS2	35.6	169	ePgD	22:39:54.00	0.31
			eSg	39:58.50	-0.26
PKSN	57.4	80	ePg	22:39:57.80	0.26
			eSg	40:05.20	-0.40
PKS9	69.2	249	iPgC	22:39:59.90	0.27
			eSg	40:09.80	0.47
PKSM	75.9	209	ePgD	22:40:00.00	-0.81
			eSg	41:09.90	-1.53
PKSC	82.5	321	iPgC	22:40:02.10	0.12
			eSg	40:11.90	-1.62

Hypocenter Parameters

55.

2000- 6-13 time: 3:05:43.75 UTC ML= 1.9
 lat: 47.442N lon: 18.871E h= 10.0 km
 erh= 3.1km erz= 3.7km
 nr= 10 gap=130 rms=0.47
 Locality: Biatorbágy
 Comments:

sta	dist	azm	phase	hr mn sec	res
ETYK	9.5	269	iPgC	3:05:46.20	-0.02
			eSg	05:47.40	-0.74
BUD	12.4	68	iPgD	3:05:47.20	0.60
			eSg	05:49.50	0.69
PENC	49.5	39	iPgC	3:05:53.10	0.33
			eSg	06:00.10	0.29
PKS8	64.3	193	iPgC	3:05:55.40	0.02
			eSg	06:03.60	-0.85
PSZ	93.3	55	iPgC	3:06:00.30	-0.21
			iSg	06:12.70	-0.89

56.

2000- 6-13 time: 7:39:27.08 UTC ML= 1.6
 lat: 47.435N lon: 18.844E h= 10.0 km
 erh= 2.0km erz= 2.1km
 nr= 8 gap=141 rms=0.25
 Locality: Biatorbágy
 Comments:

sta	dist	azm	phase	hr mn sec	res
ETYK	7.5	275	ePgD	7:39:29.50	0.19
			iSg	39:30.80	-0.25
BUD	14.6	68	iPgD	7:39:30.50	0.25
			iSg	39:32.80	0.08
PKS8	63.1	192	iPgC	7:39:38.60	0.11
			eSg	39:47.00	-0.39
PSZ	95.5	56	ePg	7:39:43.80	-0.43
			eSg	39:56.00	-1.61

57.

2000- 6-14 time: 21:39:21.30 UTC ML= 0.9
 lat: 46.434N lon: 19.295E h= 8.9 km
 erh= ---km erz= ---km
 nr= 4 gap=268 rms=0.02
 Locality: Császártöltés
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKS2	9.0	316	ePg	21:39:23.60	0.03
			eSg	39:25.30	-0.04
PKS6	27.8	48	iPgD	21:39:26.50	-0.01
			eSg	39:30.60	0.03

58.

2000- 6-23 time: 21:14:59.87 UTC ML= 1.3
 lat: 46.763N lon: 16.517E h= 0.0 km
 erh= 3.4km erz= 3.3km
 nr= 6 gap=149 rms=0.56
 Locality: Kerkakutas
 Comments: explosion No. 1-703-0

sta	dist	azm	phase	hr mn sec	res
ARSA	93.1	306	iPgC	21:15:15.90	-0.59
PKS9	136.2	98	ePnC	21:15:24.00	0.11
			eSn	15:38.30	-4.32
OBKA	153.3	259	iPnC	21:15:26.40	0.38
PKSC	161.2	65	ePnC	21:15:27.10	0.09
PKSM	174.2	111	ePnC	21:15:28.00	-0.63
			eSn	15:39.10	-11.95

MOA 208.8 305 iPnD 21:15:34.00 1.06

59.

2000- 6-23 time: 21:30:00.14 UTC ML= 1.8
 lat: 47.385N lon: 17.233E h= 0.0 km
 erh= 3.0km erz= 3.2km
 nr= 10 gap=123 rms=0.63
 Locality: Kemenesszentpéter
 Comments: explosion No. 1-804-0

sta	dist	azm	phase	hr mn sec	res
PKSC	91.0	90	iPgC	21:30:16.80	0.42
			eSg	30:26.50	-2.55
MOD	110.0	2	ePg	21:30:19.80	0.02
ETYK	114.3	87	ePgC	21:30:21.20	0.65
PKS9	119.2	138	ePg	21:30:22.10	0.67
			eSg	30:35.40	-2.63
ARSA	130.1	263	iPgC	21:30:23.40	0.02
PKSM	169.1	140	iPnC	21:30:27.50	-0.75
			eSn	30:45.00	-5.18
VYH	171.9	44	Pn	21:30:27.00	-1.61
			Sn	30:29.00	-21.81
PKS2	180.6	123	iPnC	21:30:29.40	-0.29
PSZ	208.6	73	iPnC	21:30:32.70	-0.48
MOA	228.9	283	iPnC	21:30:36.70	0.98

60.

2000- 6-23 time: 21:45:04.23 UTC ML= 0.7
 lat: 46.970N lon: 18.382E h= 0.0 km
 erh= ---km erz= ---km
 nr= 4 gap=175 rms=0.12
 Locality: Kisláng
 Comments: explosion No. 1-806-0

sta	dist	azm	phase	hr mn sec	res
PKS9	43.3	191	iPgD	21:45:12.00	0.03
			eSg	45:17.00	-1.01
PKSC	45.8	5	ePgC	21:45:12.30	-0.11
			eSg	45:16.70	-2.10
PKSM	86.6	167	ePg	21:45:19.60	-0.10
			eSg	45:29.90	-1.86
PSZ	155.3	47	ePnC	21:45:30.90	0.27

61.

2000- 6-23 time: 22:30:00.26 UTC ML= 2.6
 lat: 47.663N lon: 18.193E h= 9.5 km
 erh= 2.3km erz= 2.7km
 nr= 12 gap= 93 rms=0.46
 Locality: Mocsa
 Comments: explosion No. 1-103-1

sta	dist	azm	phase	hr mn sec	res
PKSC	36.4	150	ePgC	22:30:06.60	-0.38
			eSg	30:10.10	-2.13
ETYK	48.4	121	ePgC	22:30:09.90	0.83
			eSg	30:16.60	0.66
VYH	104.1	27	Pg	22:30:18.80	-0.12
			eSg	30:33.30	-0.18
MOD	104.4	319	Pg	22:30:19.10	0.12
			eSg	30:33.50	-0.09
PKS9	119.8	177	iPn	22:30:21.20	0.18
PKSM	164.9	168	iPnC	22:30:26.20	-0.44
			eSn	30:44.70	-2.52
ARSA	206.5	257	iPnC	22:30:31.90	0.08

Hypocenter Parameters

62.

2000- 6-24 time: 0:45:00.36 UTC ML= 1.5
 lat: 47.495N lon: 16.898E h= 0.0 km
 erh= 4.2km erz= 5.2km
 nr= 11 gap=118 rms=0.76
 Locality: Pusztacsallád
 Comments: explosion No. 1-803-0

sta	dist	azm	phase	hr mn sec	res
SOP	33.0	309	iPgC	0:45:05.80	-0.46
			eSg	45:13.20	2.35
VKA	95.9	333	iPgC	0:45:17.80	0.31
MOD	101.7	16	e g	0:45:17.50	-1.01
ARSA	107.4	255	iPgD	0:45:19.00	-0.53
			iSg	45:33.00	-1.49
PKSC	116.8	96	iPgC	0:45:21.40	0.19
			eSg	45:36.70	-0.78
ETYK	139.3	93	iPnC	0:45:25.90	1.13
PKS9	145.6	134	ePn	0:45:25.60	0.05
			eSn	45:43.50	-1.70
VYH	182.3	52	Pn	0:45:27.60	-2.53
			Sn	45:52.90	-0.44
PKSM	195.0	137	iPnC	0:45:31.60	-0.11
			eSn	45:49.90	-6.26
MOA	201.6	281	iPnC	0:45:34.00	1.47
			iSn	45:58.60	0.98
PSZ	229.7	78	iPnC	0:45:35.80	-0.24
KHC	306.2	306	ePn	0:45:49.10	3.53
			eSn	46:28.40	7.57
PRU	327.0	328	Pn	0:45:54.20	6.04
			Sn	46:32.20	6.76

63.

2000- 6-24 time: 1:29:59.28 UTC ML= 1.6
 lat: 46.283N lon: 16.989E h= 0.0 km
 erh= 9.1km erz=12.2km
 nr= 8 gap=288 rms=0.73
 Locality: Somogybükkösd
 Comments: explosion No. 1-705-0

sta	dist	azm	phase	hr mn sec	res
PKS9	104.7	71	iPgC	1:30:18.30	0.32
			eSg	30:33.60	1.03
RHK3	107.1	114	iPgC	1:30:19.10	0.70
			eSg	30:33.40	0.08
PKSM	127.7	94	iPgC	1:30:21.00	-1.08
			eSg	30:38.90	-0.96
PKSC	164.6	42	ePn	1:30:26.50	-0.34
PSZ	285.9	51	ePn	1:30:40.30	-1.66

64.

2000- 6-24 time: 21:14:59.68 UTC ML= 2.1
 lat: 46.158N lon: 17.281E h= 0.0 km
 erh= 6.1km erz= 4.9km
 nr= 13 gap=169 rms=1.00
 Locality: Tarany
 Comments: explosion No. 1-706-0

sta	dist	azm	phase	hr mn sec	res
RHK3	80.9	111	Pg	21:15:16.20	2.07
			eSg	15:26.30	0.89
PKS9	90.4	58	iPgC	21:15:17.30	1.47
			eSg	15:28.20	-0.22
PKSM	105.2	87	ePgC	21:15:18.80	0.33
			eSg	15:29.80	-3.32
RHK2	116.5	91	ePgC	21:15:20.50	0.01
			eSg	15:34.00	-2.71
PKS2	153.4	76	iPnC	21:15:25.30	-0.54
			eSn	15:44.20	-2.04
PKSC	162.1	33	iPnC	21:15:26.80	-0.13

			eSn	15:46.30	-1.89
ARSA	181.2	312	iPnC	21:15:29.40	0.09
PKS6	182.4	74	iPnC	21:15:28.60	-0.86
			eSn	15:50.10	-2.59
OBKA	214.0	281	iPnC	21:15:32.90	-0.50
PKSN	214.8	67	ePn	21:15:30.90	-2.60
PSZ	278.9	45	ePn	21:15:38.90	-2.59
VYH	285.1	24	Pn	21:15:42.20	-0.07
			eSn	15:51.80	-23.68
MOA	296.6	309	iPnC	21:15:45.00	1.30

65.

2000- 6-24 time: 21:30:00.54 UTC ML= 2.3
 lat: 47.151N lon: 19.491E h= 0.0 km
 erh= 4.0km erz=10.5km
 nr= 10 gap=115 rms=0.79
 Locality: Pusztavacs
 Comments: explosion No. 1-504-0

sta	dist	azm	phase	hr mn sec	res
PKSN	40.2	135	iPgC	21:30:08.10	0.39
			Sg	30:14.20	0.89
PKS6	61.5	175	iPgC	21:30:12.00	0.47
			eSg	30:20.30	0.21
ETYK	65.0	300	iPgD	21:30:13.20	1.06
PENC	72.8	347	ePgC	21:30:14.20	0.65
			eSg	30:25.10	1.40
PKS2	76.3	196	iPgC	21:30:14.70	0.54
			eSg	30:25.90	1.12
PKSC	83.8	288	iPgC	21:30:15.70	0.20
			eSg	30:25.60	-1.56
PSZ	90.6	20	iPgC	21:30:15.80	-0.92
			iSg	30:28.90	-0.44
PKS9	111.7	236	iPgC	21:30:20.10	-0.38
			iSg	30:33.00	-3.04
PKSM	123.0	212	iPgC	21:30:20.80	-1.70
			eSg	30:34.70	-4.93
VYH	157.2	342	Pn	21:30:26.20	-0.98
			Sn	30:45.30	-2.65

66.

2000- 6-24 time: 21:45:00.23 UTC ML= 1.6
 lat: 46.353N lon: 18.488E h= 0.0 km
 erh= 1.8km erz=22.4km
 nr= 10 gap=129 rms=0.37
 Locality: Bonyhádvarasd
 Comments: explosion No. 1-809-0

sta	dist	azm	phase	hr mn sec	res
PKSM	19.6	143	iPgC	21:45:03.80	0.07
			eSg	45:05.90	-0.56
PKS9	30.6	328	iPgC	21:45:06.10	0.41
			eSg	45:09.70	-0.26
RHK2	33.8	137	iPgC	21:45:06.30	0.03
			eSg	45:10.90	-0.07
RHK3	54.4	199	iPgC	21:45:09.70	-0.24
			eSg	45:15.00	-2.51
PKS2	57.8	74	iPgC	21:45:10.80	0.24
			eSg	45:19.10	0.49
PKS6	87.1	72	iPgC	21:45:16.10	0.32
			eSg	45:27.10	-0.81
PKSC	114.3	358	iPgC	21:45:20.40	-0.25
			eSg	45:33.70	-2.87
PKSN	121.7	60	ePgC	21:45:20.80	-1.17
			eSg	45:37.60	-1.32
ETYK	122.5	9	iPgC	21:45:22.00	-0.10
PSZ	204.2	32	iPnC	21:45:30.30	-2.42

Hypocenter Parameters

67.

2000- 6-25 time: 0:00:00.92 UTC ML= 1.7
 lat: 46.120N lon: 17.507E h= 0.0 km
 erh= 4.5km erz= 4.4km
 nr= 9 gap=194 rms=0.72
 Locality: Homokszentgyörgy
 Comments: explosion No. 1-707-0

sta	dist	azm	phase	hr mn sec	res
RHK3	63.2	114	iPgC	0:00:11.70	-0.51
			eSg	00:28.00	6.99
PKS9	78.9	49	ePgC	0:00:17.10	2.10
			eSg	00:28.20	2.21
PKSM	88.2	83	iPgD	0:00:16.90	0.23
			eSg	00:27.40	-1.56
RHK2	99.1	89	iPgC	0:00:19.30	0.69
			eSg	00:31.60	-0.80
PKSC	157.1	27	iPnC	0:00:27.80	0.26
			eSn	00:48.60	0.30
PKS6	167.1	71	iPnC	0:00:27.80	-0.99
			eSn	00:50.10	-0.42
ARSA	197.0	310	iPnC	0:00:32.00	-0.52
PKSN	200.7	65	eSn	0:00:59.40	1.42
PSZ	270.0	42	ePnD	0:00:40.70	-0.92
			eSn	00:51.30	-22.07
MOA	312.6	308	iPnC	0:00:47.50	0.56

68.

2000- 6-25 time: 2:27:02.65 UTC ML= 2.5
 lat: 47.791N lon: 17.701E h= 7.4 km
 erh= 2.9km erz= 2.3km
 nr= 14 gap= 88 rms=0.51
 Locality: Hungary-Slovakia border
 Comments:

sta	dist	azm	phase	hr mn sec	res
ZST	63.4	315	Pg	2:27:13.90	-0.15
PKSC	71.8	129	iPgC	2:27:15.40	-0.13
			iSg	27:26.10	0.52
SOP	86.5	262	ePg	2:27:18.30	0.15
			iSg	27:28.00	-2.24
ETYK	87.7	116	ePgC	2:27:18.70	0.34
			eSg	27:30.50	-0.11
BUD	105.2	109	ePg	2:27:21.10	-0.37
			eSg	27:31.90	-4.25
VKA	115.8	297	iPnC	2:27:23.00	-0.18
			iSn	27:40.10	0.91
PENC	118.5	90	ePnC	2:27:22.90	-0.61
			eSn	27:39.50	-0.29
PKS9	140.8	162	iPnC	2:27:28.70	2.40
			iSn	27:45.30	0.55
PSZ	164.8	85	iPnC	2:27:30.50	1.21
			eSn	27:48.30	-1.77
ARSA	174.6	250	iPnC	2:27:30.40	-0.12
			iSn	27:51.40	-0.85
VRAC	187.5	334	Pn	2:27:31.40	-0.72
			Sn	27:52.40	-2.71
PKSM	189.6	158	iPnC	2:27:32.20	-0.18
			iSn	27:53.40	-2.16
OKC	230.0	8	ePn	2:27:38.10	0.69
MOA	257.3	271	iPnC	2:27:42.10	1.28
			iSn	28:16.00	5.40
DPC	300.7	342	eSn	2:28:18.10	-2.13
GEC2	318.9	292	ePn	2:27:48.50	-0.01
			eSn	28:32.10	7.82
PRU	336.7	317	ePn	2:28:02.50	11.77
			Sn	28:38.60	10.37
KHC	339.4	296	ePn	2:27:50.50	-0.55
			eSn	28:25.00	-3.81

69.

2000- 6-25 time: 21:14:58.89 UTC ML= 1.8
 lat: 46.108N lon: 18.853E h= 0.0 km
 erh= 3.9km erz= 3.2km
 nr= 11 gap=201 rms=0.59
 Locality: Dunafalva
 Comments: explosion No. 1-501-0

sta	dist	azm	phase	hr mn sec	res
RHK2	5.6	297	ePgC	21:15:01.20	1.31
			eSg	15:02.30	1.63
PKSM	20.0	305	iPgC	21:15:02.40	-0.06
			eSg	15:04.80	-0.45
RHK3	52.3	243	iPgC	21:15:08.00	-0.23
			eSg	15:14.10	-1.41
PKS9	69.2	320	iPgC	21:15:11.50	0.25
			eSg	15:19.30	-1.59
PKSN	117.3	42	ePg	21:15:21.50	1.66
			eSg	15:35.90	-0.28
PKSC	145.0	347	iPnC	21:15:23.50	-0.51
			eSn	15:40.60	-2.99
ETYK	148.3	357	ePn	21:15:24.30	-0.12
			eSn	15:41.70	-2.64
PSZ	216.3	21	iPnC	21:15:32.70	-0.20
MOD	278.7	335	e n	21:15:40.60	-0.08
ARSA	284.7	296	iPnD	21:15:40.50	-0.92
MOA	399.1	299	iPnC	21:15:56.40	0.71

70.

2000- 6-25 time: 21:30:00.17 UTC ML= 2.0
 lat: 46.670N lon: 18.280E h= 0.0 km
 erh= 4.6km erz= 5.0km
 nr= 10 gap=112 rms=0.77
 Locality: Tamási
 Comments: explosion No. 1-808-0

sta	dist	azm	phase	hr mn sec	res
PKS9	9.2	181	iPgC	21:30:02.90	1.10
			eSg	30:04.40	1.32
PKSM	58.0	151	iPgC	21:30:10.60	0.09
			eSg	30:19.40	0.81
RHK2	71.5	147	ePgC	21:30:13.00	0.07
			Sg	30:19.90	-2.99
PKSC	79.9	9	ePgC	21:30:14.90	0.46
			eSg	30:23.70	-1.88
RHK3	86.5	181	ePg	21:30:14.70	-0.91
			Sg	30:24.90	-2.76
ETYK	92.7	22	ePg	21:30:18.00	1.29
PSZ	184.9	41	iPnD	21:30:29.10	-1.15
MOD	204.0	338	e n	21:30:31.90	-0.73
VYH	207.1	12	ePn	21:30:33.50	0.48
			eSn	30:36.30	-22.35
MOA	331.0	293	iPnC	21:30:47.80	-0.67

71.

2000- 6-25 time: 21:45:00.28 UTC ML= 1.3
 lat: 46.797N lon: 18.028E h= 0.0 km
 erh= 6.1km erz= 6.6km
 nr= 9 gap=122 rms=0.72
 Locality: Lulla
 Comments: explosion No. 1-807-0

sta	dist	azm	phase	hr mn sec	res
PKS9	30.2	141	iPgC	21:45:06.80	1.13
			eSg	45:12.50	2.63
PKSC	72.0	26	iPg	21:45:13.20	0.07
			eSg	45:24.70	1.55
PKSM	80.3	144	ePg	21:45:14.30	-0.31
			eSg	45:25.60	-0.19

Hypocenter Parameters

ETVK 89.9 37 ePgC 21:45:17.20 0.87
 eSg 45:31.00 2.15
 RHK2 94.3 142 iPgC 21:45:17.30 0.19
 eSg 45:29.70 -0.54
 RHK3 102.1 170 iPgC 21:45:17.80 -0.71
 eSg 45:31.90 -0.84
 PSZ 188.2 49 iPnC 21:45:29.60 -1.18
 VYH 198.2 18 Pn 21:45:31.50 -0.53
 MOA 307.6 292 iPnD 21:45:46.20 0.54

72.

2000- 6-25 time: 22:15:00.46 UTC ML= 1.5
 lat: 46.391N lon: 18.883E h= 0.0 km
 erh= 3.1km erz=40.6km
 nr= 7 gap=141 rms=0.40
 Locality: Bogyiszló
 Comments: explosion No. 1-502-0

sta	dist	azm	phase	hr mn sec	res
PKSM	27.3	223	iPgC	22:15:05.30	-0.04
			iSg	15:09.20	0.06
RHK2	29.9	194	iPgC	22:15:05.80	0.01
			eSg	15:09.60	-0.35
PKS9	51.2	295	iPgC	22:15:10.10	0.49
			eSg	15:15.70	-1.04
RHK3	73.8	221	ePgC	22:15:13.20	-0.45
			eSg	15:22.40	-1.53
PKSN	94.0	53	ePg	22:15:17.80	0.55
PKSC	115.1	343	iPgC	22:15:20.50	-0.51
			eSg	15:33.60	-3.44
PSZ	186.3	24	ePnC	22:15:27.90	-2.82

73.

2000- 6-26 time: 13:08:40.68 UTC ML= 0.9
 lat: 47.583N lon: 16.346E h= 5.2 km
 erh=12.0km erz= 6.9km
 nr= 8 gap=184 rms=0.91
 Locality: Austria
 Comments:

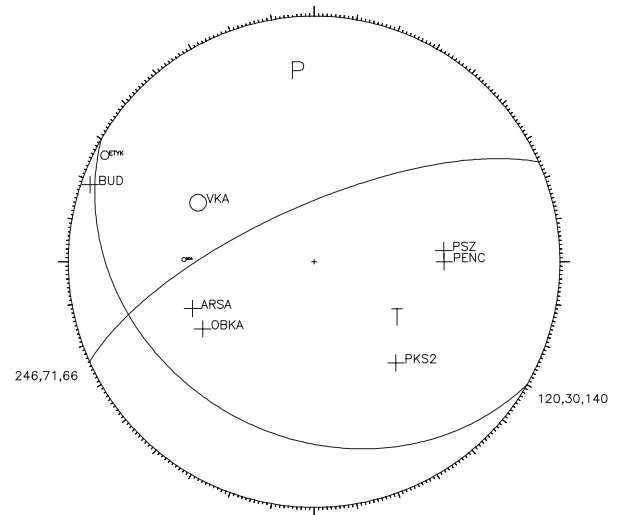
sta	dist	azm	phase	hr mn sec	res
SOP	19.5	55	iPgC	13:08:44.30	0.02
			iSg	08:47.40	0.30
ARSA	72.2	239	iPgC	13:08:53.30	-0.31
			iSg	09:02.50	-1.19
ZST	88.7	40	ePg	13:08:55.50	-1.04
			eSg	09:07.90	-1.01
MOA	158.9	281	iPnC	13:09:08.40	1.54
			iSn	09:28.70	1.42

74.

2000- 6-28 time: 19:19:16.07 UTC ML= 2.6
 lat: 47.799N lon: 17.689E h= 8.2 km
 erh= 3.3km erz= 2.5km
 nr= 14 gap= 77 rms=0.58
 Locality: Vámoszabadi
 Comments: felt 4 EMS

sta	dist	azm	phase	hr mn sec	res
SRO	46.8	88	iPg	19:19:24.60	0.04
			eSg	19:30.40	-0.78
ZST	62.2	315	iPg	19:19:27.20	-0.07
			iSg	19:35.30	-0.70
SOP	85.7	261	ePg	19:19:31.40	-0.05
			iSg	19:41.20	-2.25
ETVK	88.9	117	ePgD	19:19:32.20	0.19
			eSg	19:44.10	-0.34
BUD	106.3	109	iPgC	19:19:34.60	-0.51
			eSg	19:46.00	-3.96
VKA	114.6	297	iPnD	19:19:36.60	0.26

			iSn	19:51.50	-0.65
PENC	119.4	90	iPnC	19:19:36.20	-0.74
			eSn	19:52.60	-0.61
PSZ	165.6	85	iPnC	19:19:43.80	1.10
			eSn	20:01.90	-1.57
ARSA	174.1	249	iPnC	19:19:43.50	-0.26
			iSn	20:07.10	1.74
PKS2	185.7	141	iPnC	19:19:46.70	1.49
			eSn	20:10.10	2.16
VRAC	186.3	334	Pn	19:19:44.80	-0.48
			Sn	20:05.90	-2.17
OKC	229.2	8	ePn	19:19:51.00	0.37
PTJ	247.5	212	ePn	19:19:51.60	-1.32
MOA	256.4	271	iPnD	19:19:56.50	2.48
			iSn	20:28.70	5.08
OBKA	278.0	239	iPnC	19:19:56.90	0.19
			iSn	20:37.90	9.49
DPC	299.5	342	eSn	19:20:31.20	-2.00
PRU	335.5	317	Pn	19:20:10.70	6.82
			Sn	20:37.90	-3.27
KHC	338.2	296	ePn	19:20:04.40	0.18
			eSn	20:39.90	-1.87



75.

2000- 7-03 time: 9:58:12.81 UTC ML= 0.1
 lat: 45.837N lon: 18.419E h= 0.4 km
 erh=26.5km erz= 983km
 nr= 5 gap=273 rms=0.15
 Locality: Villányi mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
RHK3	14.2	295	iPg	9:58:15.20	-0.13
			iSg	58:17.40	0.09
PKSM	45.1	22	iPgC	9:58:21.00	0.15
			iSg	58:27.00	-0.13
PKS9	84.0	353	ePg	9:58:29.40	1.59

76.

2000- 7-03 time: 11:14:20.44 UTC ML= 0.6
 lat: 45.971N lon: 18.640E h= 10.0 km
 erh= ---km erz= ---km
 nr= 4 gap=253 rms=0.20
 Locality: Mohács
 Comments:

sta	dist	azm	phase	hr mn sec	res
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Hypocenter Parameters

PKSM 26.8 0 ePg 11:14:25.40 -0.14
 eSg 14:29.80 0.28
 RHK3 31.2 254 iPgC 11:14:26.50 0.21
 Sg 14:30.60 -0.26

77.

2000- 7-04 time: 1:59:35.38 UTC ML= 1.8
 lat: 46.723N lon: 17.896E h= 7.8 km
 erh= 2.9km erz= 3.1km
 nr= 13 gap=226 rms=0.55
 Locality: Somogygye
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKS9	33.0	117	ePgC	1:59:42.10	0.66
			iSg	59:46.70	0.54
PKSM	80.7	135	iPgC	1:59:49.50	-0.36
			eSg	59:59.80	-1.35
PKSC	83.9	29	iPgC	1:59:50.30	-0.13
			eSg	2:00:01.10	-1.07
RHK2	95.1	134	iPgC	1:59:52.40	-0.02
			iSg	2:00:04.80	-0.90
RHK3	96.4	163	iPgC	1:59:53.20	0.54
			iSg	2:00:06.10	-0.04
ETYK	102.6	39	ePgC	1:59:54.60	0.85
			eSg	2:00:07.30	-0.78
PKS6	128.5	96	iSn	1:60:15.00	0.36

78.

2000- 7-10 time: 11:07:00.53 UTC ML= 1.5
 lat: 47.492N lon: 18.506E h= 0.0 km
 erh= 6.0km erz= 2.7km
 nr= 5 gap=333 rms=0.66
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	13.4	203	iPgC	11:07:03.00	0.07
			iSg	07:04.40	-0.40
PKS9	102.1	190	iPgC	11:07:19.50	0.74
PKSM	142.7	176	ePn	11:07:24.20	-1.16
			eSn	07:40.30	-4.43

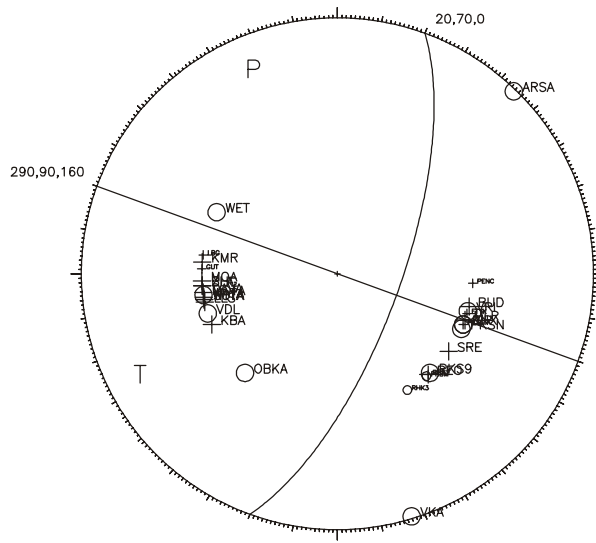
79.

2000- 7-11 time: 2:49:48.44 UTC ML= 4.4
 lat: 47.917N lon: 16.475E h= 1.0 km
 erh= 1.1km erz= 1.4km
 nr= 27 gap= 73 rms=0.35
 Locality: Austria
 Comments: felt 6 EMS

sta	dist	azm	phase	hr mn sec	res
VKA	40.4	343	iPgD	2:49:55.60	-0.05
ZST	56.1	56	Pg	2:49:58.80	0.34
			Sg	50:05.70	-0.58
ARSA	103.1	224	iPgD	2:50:06.60	-0.25
			iSg	50:19.70	-1.51
SRO	138.0	95	ePn	2:50:11.60	-0.96
			eSn	50:32.20	0.83
PKSC	159.0	112	ePnC	2:50:14.80	-0.38
			eSn	50:32.80	-3.23
MOA	165.4	267	iPnC	2:50:15.60	-0.37
			iSn	50:36.90	-0.55
BISS	174.1	216	ePn	2:50:17.10	0.04
			iSn	50:39.20	-0.18
KMR	175.6	275	iPn+	2:50:17.50	0.26
			iSn	50:39.90	0.20
ETYK	178.5	107	ePnC	2:50:17.60	0.00
			eSn	50:42.80	2.45

BUD	197.3	104	iPnC	2:50:20.00	0.05
			iSn	50:48.00	3.48
PKS9	201.3	137	iPnD	2:50:20.80	0.35
			iSn	50:50.10	4.69
PENC	210.5	94	ePnC	2:50:21.30	-0.29
			eSn	50:54.60	7.15
DOBS	210.9	201	ePn	2:50:21.50	-0.14
			eSn	50:51.50	3.96
OBKA	214.0	223	iPnD	2:50:22.50	0.47
			iSn	50:53.60	5.37
CESS	229.5	200	ePn	2:50:24.10	0.14
			eSn	50:55.60	3.94
PKSM	251.1	139	ePnD	2:50:26.40	-0.25
			eSn	50:52.30	-4.16
KHC	253.0	302	ePn	2:50:26.50	-0.39
			eSn	50:54.20	-2.68
KBA	253.7	248	iPnC	2:50:27.80	0.83
			iSn	51:00.80	3.77
LJU	255.6	215	ePn	2:50:27.90	0.68
			eSn	51:02.70	5.23
RHK3	262.9	149	ePnD	2:50:28.10	-0.02
			eSn	51:05.20	6.13
RHK2	265.3	138	ePnC	2:50:28.40	-0.02
BHG	270.2	265	iPnC	2:50:29.00	-0.04
PRU	270.4	328	Pn	2:50:27.30	-1.76
			Sn	51:00.50	-0.24
DPC	271.5	359	ePn	2:50:27.50	-1.70
			eSn	51:01.10	0.11
PKSN	280.0	114	iPnD	2:50:30.70	0.44
VBY	284.0	199	ePn	2:50:31.20	0.45
			eSn	51:11.20	7.45
VOY	287.3	223	ePn	2:50:31.80	0.63
CEY	288.3	213	ePn	2:50:31.70	0.41
			iSn	51:10.10	5.39
WET	298.6	297	iPnD	2:50:31.90	-0.68
WTTA	371.1	259	iPnC	2:50:41.80	0.18
			iSn	51:34.10	10.99
WATA	373.9	260	iPnC	2:50:42.70	0.74
			iSn	51:34.90	11.19
SQTA	403.8	259	iPnC	2:50:46.60	0.91
			iSn	51:44.30	13.95
MOTA	408.7	261	iPnD	2:50:46.20	-0.11
			iSn	51:44.20	12.76
BEO	460.7	138	iPnC	2:50:52.50	-0.29
			iSn	52:02.50	19.52
DAVA	500.9	262	iPnC	2:50:57.70	-0.10
			iSn	52:11.70	19.80
GUT	549.6	272	ePnC	2:51:02.80	-1.07
			eSn	51:56.60	-6.11
VDL	554.1	253	iPnD	2:51:05.70	1.26
LBG	576.0	278	ePnC	2:51:06.10	-1.06
LLS	576.5	258	iPnC	2:51:07.20	-0.03
ZLA	608.9	265	iPnC	2:51:10.20	-1.06
SRE	632.4	125	iPnC	2:51:17.42	3.22
MTUR	723.2	114	iPn	2:51:31.20	5.68
SNX	748.4	112	iPnD	2:51:28.96	0.29
MLR	772.7	110	iPnC	2:51:32.03	0.34
VRI	813.6	106	iPnD	2:51:37.03	0.23
ISR	832.1	112	iPnD	2:51:44.28	5.18
CFR	945.7	109	iPn	2:51:51.70	-1.57

Hypocenter Parameters



80.

2000- 7-11 time: 6:47:15.96 UTC ML= 1.3
 lat: 47.928N lon: 16.426E h= 5.3 km
 erh= 3.2km erz= 4.2km
 nr= 13 gap=101 rms=0.70
 Locality: Austria
 Comments: felt 3-4 EMS

sta	dist	azm	phase	hr mn sec	res
SOP	28.9	160	iPgD	6:47:22.00	0.79
			iSg	47:25.60	0.29
ZST	58.6	59	iPg	6:47:26.10	-0.37
			eSg	47:33.50	-1.17
ARSA	101.4	222	iPgD	6:47:34.10	0.01
			iSg	47:47.10	-1.13
MOA	161.8	267	iPnC	6:47:43.50	1.02
			iSn	48:03.10	-0.06
GEC2	226.1	297	ePn	6:47:53.50	3.00
			eSn	48:16.70	-0.74
KHC	249.3	302	ePn	6:47:53.00	-0.39
			eSn	48:22.00	-0.59
PRU	267.5	329	ePn	6:47:59.20	3.54
			Sn	48:25.80	-0.83
DPC	270.3	360	eSn	6:48:32.70	5.45

81.

2000- 7-11 time: 10:56:04.94 UTC ML= 3.8
 lat: 47.962N lon: 16.498E h= 10.0 km
 erh= 1.3km erz= 1.2km
 nr= 34 gap= 31 rms=0.48
 Locality: Austria
 Comments: felt 5 EMS

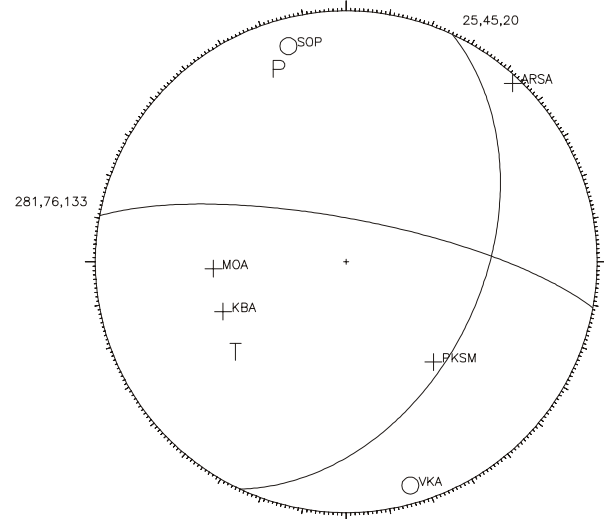
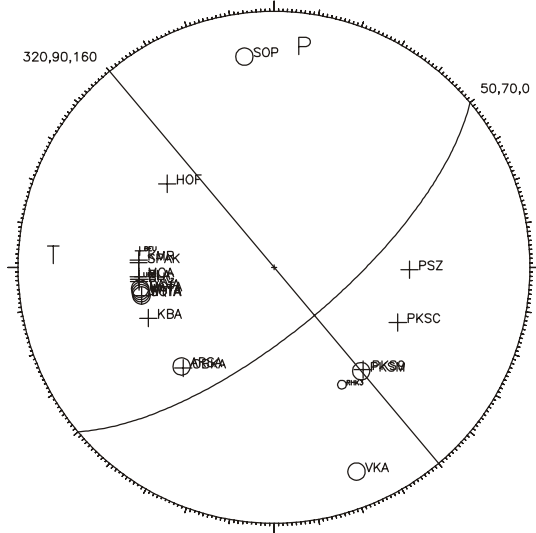
sta	dist	azm	phase	hr mn sec	res
SOP	31.3	172	iPgD	10:56:10.60	-0.21
			iSg	56:14.40	-0.99
VKA	36.3	338	iPgD	10:56:11.60	-0.06
ZST	52.0	60	iPg	10:56:14.60	0.20
			eSg	56:21.50	-0.28
ARSA	107.9	223	iPnD	10:56:21.90	-2.25
			iSn	56:34.50	-4.63
SRO	136.8	97	iPn	10:56:27.30	-0.45
			eSn	56:47.30	1.76
VRAC	150.0	3	Pn	10:56:28.80	-0.60
PKSC	159.3	114	iPnC	10:56:30.60	0.03
			eSn	56:47.30	-3.25

MOA	167.4	266	iPnC	10:56:31.30	-0.27
			iSn	56:52.00	-0.33
KMR	176.9	273	iPn	10:56:33.40	0.65
			iSn	56:55.80	1.36
KMR	176.9	273	iPn+	10:56:33.40	0.65
			iSn	56:55.80	1.36
ETYK	178.3	109	ePn	10:56:33.40	0.46
			eSn	56:57.40	2.63
BISS	179.2	215	iPn	10:56:32.80	-0.24
			iSn	56:53.70	-1.25
BUD	196.8	106	ePn	10:56:35.00	-0.24
PKS9	203.8	139	iPnC	10:56:36.70	0.59
			eSn	57:04.80	4.38
DOBS	216.1	201	iPn	10:56:37.50	-0.15
OBKA	218.8	222	iPnC	10:56:38.50	0.52
			iSn	57:08.80	5.05
GERE	229.2	295	Pn	10:56:39.20	-0.08
CESS	234.7	200	iPn	10:56:40.40	0.44
			iSn	57:11.80	4.52
OKC	241.1	30	ePn	10:56:41.10	0.34
			eSn	57:07.20	-1.50
KHC	251.8	301	ePn	10:56:41.10	-0.99
			eSn	57:07.20	-3.86
KHC	251.8	301	ePn	10:56:41.80	-0.29
			eSn	57:09.90	-1.16
PKSM	253.7	140	iPnD	10:56:42.00	-0.33
			eSn	57:18.40	6.91
PSZ	253.8	91	iPnC	10:56:42.50	0.15
			eSn	57:25.40	13.88
KBA	257.0	248	iPnC	10:56:43.60	0.85
			iSn	57:16.30	4.07
LJU	260.7	215	iPn	10:56:43.70	0.50
			iSn	57:19.20	6.16
RHK3	266.2	150	ePnD	10:56:43.90	0.01
			iSn	57:24.20	9.93
DPC	266.6	359	ePn	10:56:43.40	-0.54
			eSn	57:12.60	-1.76
DPC	266.6	359	ePn	10:56:43.40	-0.54
PRU	267.0	328	Pn	10:56:44.00	0.01
			Sn	57:15.20	0.75
BHG	272.2	264	iPnC	10:56:44.80	0.16
VBY	289.2	199	iPn	10:56:47.00	0.24
			eSn	57:26.30	6.92
VOY	292.1	223	ePn	10:56:47.70	0.58
			eSn	57:20.50	0.49
CEY	293.3	213	iPn	10:56:47.70	0.43
			iSn	57:27.20	6.91
WET	297.8	296	ePn	10:56:47.60	-0.23
KSP	320.8	357	ePn	10:56:50.30	-0.40
OJC	348.1	44	ePn	10:56:55.00	0.90
			iSn	57:26.10	-6.34
BRG	373.1	330	ePn	10:56:56.70	-0.52
WTTA	373.7	258	iPnC	10:56:57.60	0.31
			iSn	57:49.40	11.27
ROTZ	373.9	303	ePn	10:56:57.20	-0.12
WATA	376.3	259	iPnD	10:56:58.80	1.18
			iSn	57:50.10	11.40
FUR	389.9	273	ePn	10:56:59.50	0.19
SQTA	406.3	258	iPnD	10:57:02.40	1.04
			iSn	57:59.80	14.43
MOTA	411.0	260	iPnD	10:57:02.70	0.75
			iSn	57:59.70	13.28
HOF	426.7	308	iPnC	10:57:05.10	1.19
GRF	432.6	296	ePn	10:57:06.70	2.06
			eSn	58:07.10	15.91
GRA1	432.6	296	ePn	10:57:06.70	2.06
			eSn	58:07.10	15.91
CLL	449.9	326	iPn	10:57:07.10	0.30
BEO	463.2	139	iPn	10:57:16.00	7.55
MOX	463.9	310	ePn	10:57:10.30	1.76
HDH	472.1	278	Pn	10:57:09.30	-0.27
			Sn	57:55.10	-4.87
UBR	479.5	266	ePnC	10:57:10.70	0.21

Hypocenter Parameters

		Sn	57:57.80	-3.82	
OSS	500.9	254	ePn	10:57:14.20	1.05
DAVA	503.1	261	iPnD	10:57:13.70	0.27
			iSn	58:27.10	20.25
BEU	530.3	277	ePnC	10:57:16.30	-0.52
			Sn	58:07.70	-5.19
SPAK	575.4	272	iPnC	10:57:21.90	-0.54
ZLA	610.7	265	iPnC	10:57:26.00	-0.85

PKSM	252.0	139	iPnC	7:56:34.50	-0.27
			Sn	57:00.20	-4.00
KHC	252.0	302	eSn	7:56:59.60	-4.61
KBA	253.1	248	iPnC	7:56:36.90	2.00
			iSn	57:10.80	6.35
PRU	269.5	328	ePn	7:56:38.40	1.45
			Sn	57:05.50	-2.59
DPC	271.0	359	ePn	7:56:40.60	3.47
			eSn	57:12.40	3.99



82.

2000- 7-12 time: 0:13:24.59 UTC ML= 1.4
 lat: 45.910N lon: 19.278E h= 10.0 km
 erh= ---km erz= ---km
 nr= 4 gap=359 rms=0.61
 Locality: Yugoslavia
 Comments:

sta	dist	azm	phase	hr mn sec	res
RHK2	45.2	303	ePg	0:13:33.20	0.35
			eSg	13:39.30	0.00
PKSM	59.6	304	ePg	0:13:35.20	-0.18
			Sg	13:40.40	-3.40

83.

2000- 7-12 time: 7:55:57.03 UTC ML= 1.8
 lat: 47.922N lon: 16.464E h= 5.6 km
 erh= 2.9km erz= 3.5km
 nr= 9 gap= 73 rms=0.53
 Locality: Austria
 Comments: felt 3-4 EMS

sta	dist	azm	phase	hr mn sec	res
SOP	27.5	165	iPgD	7:56:02.70	0.67
			iSg	56:06.60	0.66
VKA	39.6	344	iPgD	7:56:04.10	-0.08
			iSg	56:09.90	0.14
ZST	56.5	57	iPg	7:56:07.00	-0.17
			eSg	56:14.30	-0.77
ARSA	102.9	223	iPgC	7:56:14.70	-0.73
			iSg	56:27.90	-1.88
PKSC	160.0	112	ePn	7:56:23.40	0.11
			Sn	56:44.10	0.32
MOA	164.6	267	iPnC	7:56:23.90	0.03
			iSn	56:44.10	-0.71

84.

2000- 7-12 time: 21:19:54.32 UTC ML= 2.3
 lat: 47.937N lon: 16.401E h= 1.5 km
 erh= 2.7km erz= 3.1km
 nr= 16 gap= 50 rms=0.66
 Locality: Austria
 Comments: felt 4 EMS

sta	dist	azm	phase	hr mn sec	res
SOP	30.6	157	iPgD	21:20:00.00	0.22
			iSg	21:03.80	-0.24
VKA	37.0	350	iPgD	21:20:01.40	0.47
			iSg	20:07.00	0.92
ZST	59.7	61	iPg	21:20:04.30	-0.68
ARSA	100.9	221	iPgD	21:20:11.80	-0.54
			iSg	20:24.90	-1.50
MOA	160.0	267	iPnC	21:20:20.70	-0.41
			iSn	20:41.50	-0.51
KMR	169.9	274	iPn+	21:20:23.10	0.76
			iSn	20:44.40	0.19
BISS	172.7	214	ePn	21:20:21.90	-0.80
ETVK	184.4	107	ePnD	21:20:25.60	1.44
			eSn	20:48.70	1.27
BUD	203.2	104	ePn	21:20:34.00	7.51
DOBS	211.0	200	ePn	21:20:27.20	-0.27
OBKA	211.9	221	iPnC	21:20:28.10	0.52
			iSn	20:59.40	5.88
OKC	247.1	31	ePn	21:20:30.70	-1.27
KHC	247.2	302	ePn	21:20:33.10	1.12
			eSn	20:58.90	-2.46
KBA	249.3	247	iPnC	21:20:33.00	0.76
			iSn	21:07.70	5.87
PRU	265.7	329	Pn	21:20:33.60	-0.69
			Sn	21:02.80	-2.67
DPC	269.3	0	ePn	21:20:33.30	-1.44
			eSn	21:09.80	3.53
CEY	287.1	212	ePn	21:20:37.10	0.14
WET	292.7	297	iPnD	21:20:43.60	5.94

Hypocenter Parameters

KSP 323.3 359 ePn 21:20:40.40 -1.08
 WTTA 366.1 258 iPnC 21:20:48.30 1.49
 iSn 21:42:60 14.85
 BRG 372.1 331 iPn 21:20:56.60 9.04
 MOTA 403.5 261 iPnD 21:20:52.60 1.13
 iSn 21:49:20 13.14
 CLL 448.4 327 iPn 21:20:57.40 0.33
 MOX 460.4 311 ePn 21:20:59.20 0.63
 iSn 22:01:40 12.72
 DAVA 495.6 262 iPnC 21:21:03.40 0.44
 iSn 22:16:00 19.50

85.

2000- 7-13 time: 10:10:14.62 UTC ML= 1.5
 lat: 47.403N lon: 18.467E h= 8.7 km
 erh= ---km erz= ---km
 nr= 4 gap=313 rms=0.37
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	3.3	222	iPgC	10:10:16.00	-0.29
			iSg	10:17:80	0.21
PKSM	133.1	174	ePnC	10:10:37.90	0.76
			Sn	10:54:40	-0.30

86.

2000- 7-15 time: 1:06:59.31 UTC ML= 0.9
 lat: 47.922N lon: 16.403E h= 4.8 km
 erh= 2.5km erz= 2.9km
 nr= 12 gap= 97 rms=0.61
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr mn sec	res
SOP	29.0	156	iPgD	1:07:05.20	0.64
			eSg	07:09.10	0.45
VKA	38.6	351	iPgC	1:07:06.30	0.04
			iSg	07:11.90	0.22
ZST	60.4	60	ePg	1:07:09.00	-1.13
			eSg	07:16.40	-2.17
ARSA	99.8	222	iPg	1:07:17.30	0.16
			iSg	07:30.00	-1.06
MOA	160.0	267	iPnC	1:07:26.10	0.42
			iSn	07:46.10	-0.16
KHC	248.2	303	eSn	1:08:06.90	1.08
PRU	267.1	329	Sn	1:08:09.10	-0.94

87.

2000- 7-16 time: 2:28:06.30 UTC ML= 1.8
 lat: 47.912N lon: 16.449E h= 3.9 km
 erh= 2.3km erz= 2.6km
 nr= 10 gap= 85 rms=0.40
 Locality: Austria
 Comments: felt 3 EMS

sta	dist	azm	phase	hr mn sec	res
VKA	40.4	346	iPgD	2:28:13.70	0.15
			iSg	28:19.80	0.59
ZST	58.1	57	iPg	2:28:16.60	-0.09
			eSg	28:23.70	-1.10
ARSA	101.3	223	iPgC	2:28:24.30	-0.10
			iSg	28:37.40	-1.12
SRO	139.9	95	ePn	2:28:29.30	-0.98
PKSC	160.7	112	ePn	2:28:33.30	0.44
			eSn	28:55.90	2.32
MOA	163.4	268	iPnC	2:28:33.10	-0.11
			iSn	28:54.30	0.10
ETYK	180.2	107	ePn	2:28:41.20	5.90
			eSn	29:01.30	3.38

PKS9 202.2 137 iPnC 2:28:38.70 0.65
 KHC 251.7 303 Pn 2:28:45.50 1.29
 Sn 29:12.80 -0.98
 PKSM 251.9 139 ePnD 2:28:44.10 -0.14
 eSn 29:10.00 -3.84
 PRU 269.9 329 ePn 2:28:46.00 -0.48
 eSn 29:15.30 -2.52
 DPC 272.1 359 ePn 2:28:52.50 5.75
 eSn 29:22.10 3.79
 WET 297.1 297 ePn 2:28:56.30 6.42
 BRG 376.2 331 ePn 2:29:08.40 8.66
 MOX 464.9 311 ePn 2:29:13.10 2.31

88.

2000- 7-16 time: 4:34:54.40 UTC ML= 1.9
 lat: 47.833N lon: 17.728E h= 1.7 km
 erh= 4.8km erz= 4.4km
 nr= 9 gap=169 rms=0.58
 Locality: Hungary-Slovakia border
 Comments:

sta	dist	azm	phase	hr mn sec	res
ZST	61.7	311	ePg	4:35:05.70	0.29
			eSg	35:13.30	-0.71
PKSC	73.3	133	ePgC	4:35:07.20	-0.30
			eSg	35:16.30	-1.42
ETYK	88.1	120	iPgC	4:35:10.60	0.48
			eSg	35:22.60	0.21
SOP	89.2	259	iPgD	4:35:10.00	-0.34
ARSA	178.2	249	iPnC	4:35:24.60	1.18
			iSn	35:45.40	-0.67

89.

2000- 7-16 time: 4:55:42.76 UTC ML= 1.0
 lat: 47.920N lon: 16.433E h= 7.6 km
 erh= 2.3km erz= 2.8km
 nr= 15 gap=102 rms=0.72
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr mn sec	res
SOP	28.0	160	iPgD	4:55:48.80	0.86
			iSg	55:52.60	0.62
VKA	39.3	347	iPgD	4:55:50.20	0.30
			iSg	55:55.50	0.03
ZST	58.6	58	iPg	4:55:52.70	-0.61
			eSg	55:59.90	-1.65
ARSA	101.1	223	iPgC	4:56:00.50	-0.37
			iSg	56:13.70	-1.30
MOA	162.2	267	iPnC	4:56:09.40	0.35
			iSn	56:29.80	0.25
OKC	247.5	31	ePn	4:56:20.00	0.32
			eSn	56:45.80	-2.68
KHC	250.2	303	ePn	4:56:22.50	2.49
			Sn	56:50.50	1.43
PRU	268.5	329	ePn	4:56:27.20	4.91
			eSn	56:53.10	-0.03

90.

2000- 7-17 time: 10:30:49.06 UTC ML= 1.5
 lat: 47.415N lon: 18.500E h= 4.7 km
 erh=18.4km erz=12.3km
 nr= 5 gap=304 rms=0.90
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	6.1	231	iPgC	10:30:50.10	-0.34
			eSg	30:51.70	0.19
PKS9	93.6	190	iPgC	10:31:06.60	0.80

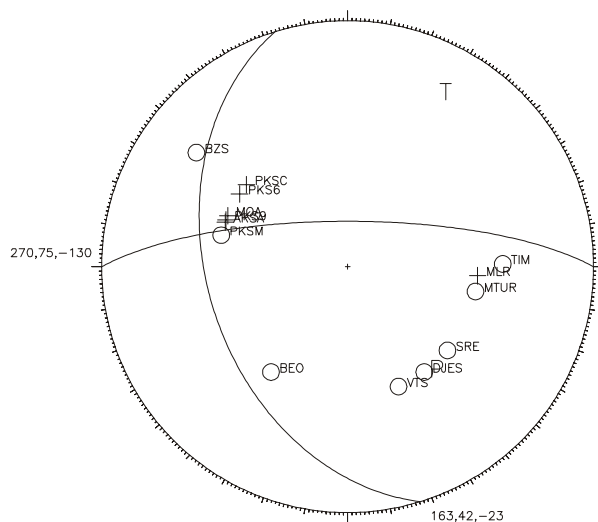
Hypocenter Parameters

PKSM 134.2 175 eSg 31:18.80 -0.05
eSn 10:31:26.50 -3.80

91.

2000- 7-22 time: 7:23:37.25 UTC ML= 3.2
lat: 45.739N lon: 21.389E h= 10.0 km
erh= 5.2km erz= 2.0km
nr= 11 gap=171 rms=0.56
Locality: Romania
Comments:

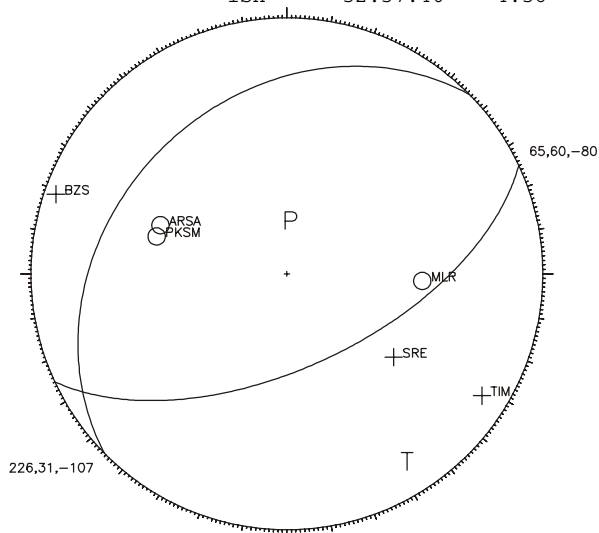
sta	dist	azm	phase	hr mn sec	res
TIM	13.1	269	iPgD	7:23:40.50	0.31
			iSg	23:42.70	0.22
BZS	22.3	127	iPgD	7:23:40.90	-0.71
BEO	125.6	216	iPnD	7:23:58.50	-0.16
			iSn	24:13.50	-1.86
DJES	151.9	144	iPnD	7:24:02.20	0.26
			iSn	24:18.20	-3.01
PKS6	170.3	304	iPnD	7:24:04.30	0.06
SRE	186.3	130	iPnD	7:24:08.08	1.85
			eSn	24:31.64	2.81
PKS2	187.9	296	iPn	7:24:06.60	0.17
PKSM	219.3	284	iPnD	7:24:09.70	-0.65
PKS9	258.1	291	iPnD	7:24:14.90	-0.28
			iSn	24:54.20	9.43
BUD	265.4	317	ePn	7:24:16.00	-0.10
PKSC	290.8	309	iPnD	7:24:19.00	-0.26
			iSn	25:02.00	9.98
MTUR	292.9	101	iPnD	7:24:22.10	2.58
			eSn	24:55.01	2.52
SNX	324.9	98	iPn	7:24:27.40	3.88
MLR	356.3	94	iPnD	7:24:29.43	2.00
VTG	378.8	157	iPnD	7:24:29.50	-0.73
PGB	418.3	148	ePn	7:24:35.00	-0.16
KKB	451.3	162	ePn	7:24:39.00	-0.28
SZH	454.0	127	ePn	7:24:38.50	-1.11
ARSA	480.7	290	iPnD	7:24:42.90	-0.04
			iSn	25:31.60	-2.57
MMB	498.2	158	ePn	7:24:45.00	-0.12
OJC	512.1	347	ePn	7:24:48.50	1.64
RZN	523.9	149	ePn	7:24:47.50	-0.83
MOA	592.3	293	iPnD	7:24:58.80	1.94
			iSn	25:58.90	-0.05
KHC	699.6	303	ePn	7:25:13.00	2.76
			eSn	26:32.00	9.23



92.

2000- 7-22 time: 7:51:03.52 UTC ML= 2.9
lat: 45.685N lon: 21.338E h= 2.1 km
erh= 8.7km erz= 6.3km
nr= 9 gap=151 rms=1.04
Locality: Romania
Comments:

sta	dist	azm	phase	hr mn sec	res
TIM	10.7	302	iPgC	7:51:06.00	0.53
			eSg	51:08.50	1.51
BZS	23.0	109	iPgC	7:51:06.70	-0.94
BEO	118.3	216	iPg	7:51:26.00	1.35
			eSg	51:41.50	0.36
DJES	149.6	141	iPn	7:51:28.30	-0.64
			iSn	51:45.70	-3.07
SRE	185.7	128	iPnD	7:51:34.58	1.14
			eSn	51:59.34	2.56
PKS2	187.2	299	eSn	7:51:59.40	2.28
PKSM	217.1	286	iPnD	7:51:36.10	-1.26
PKS9	256.8	293	ePn	7:51:41.00	-1.31
PKSC	291.6	310	iSn	7:52:28.20	7.90
SNX	328.3	96	iPn	7:51:52.90	1.67
MLR	360.0	93	iPnD	7:51:56.92	1.74
ARSA	479.3	291	iPnD	7:52:09.10	-0.96
			iSn	52:57.40	-4.56



93.

2000- 7-25 time: 9:54:41.88 UTC ML= 1.7
lat: 47.346N lon: 18.353E h= 5.2 km
erh= 5.7km erz= 3.0km
nr= 5 gap=249 rms=0.60
Locality: Vértes mt.
Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	7.5	59	iPgC	9:54:43.10	-0.40
			iSg	54:44.10	-0.66
ETVK	31.4	70	iPgD	9:54:48.30	0.74
			eSg	54:52.90	0.91
PKSM	128.0	170	ePnD	9:55:04.10	-0.11

Hypocenter Parameters

94.

2000- 7-26 time: 13:09:36.26 UTC ML=
 lat: 47.437N lon: 16.298E h= 1.3 km
 erh= 9.3km erz= 4.3km
 nr= 5 gap=215 rms=0.31
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr mn sec	res
SOP	33.7	36	ePg	13:09:42.00	-0.28
ARSA	62.1	250	iPgC	13:09:47.10	-0.26
			iSg	09:55.90	-0.12
MOA	159.5	287	iPnC	13:10:03.50	0.49
			iSn	10:24.20	0.33

95.

2000- 7-28 time: 8:48:14.72 UTC ML= 0.7
 lat: 47.387N lon: 18.783E h= 5.5 km
 erh=37.4km erz=37.6km
 nr= 6 gap=214 rms=0.62
 Locality: Pusztazámor
 Comments:

sta	dist	azm	phase	hr mn sec	res
ETYK	6.6	334	ePgD	8:48:16.00	-0.26
			eSg	48:18.00	0.54
BUD	21.1	59	ePg	8:48:25.00	6.38
PKSC	26.1	268	iPgD	8:48:19.00	-0.49
			iSg	48:23.00	-0.21
PSZ	102.3	55	iPgC	8:48:34.10	1.08
			iSg	48:46.70	-0.59

96.

2000- 7-31 time: 10:09:34.60 UTC ML= 2.0
 lat: 47.364N lon: 18.568E h= 0.0 km
 erh= ---km erz= ---km
 nr= 3 gap=257 rms=0.00
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	10.1	280	iPgC	10:09:36.40	0.00
			iSg	09:37.80	0.00
PKSM	128.2	178	iPgC	10:09:57.50	0.00

97.

2000- 8-02 time: 18:49:38.07 UTC ML= 1.5
 lat: 47.204N lon: 17.942E h= 10.0 km
 erh=20.7km erz=92.0km
 nr= 8 gap=223 rms=1.52
 Locality: Eplény
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSC	42.3	62	iPgC	18:49:46.60	0.77
			eSg	49:49.50	-2.39
ETYK	66.2	67	ePg	18:49:47.70	-2.32
			eSg	50:01.00	1.66
PKS9	73.2	159	iPgD	18:49:51.10	-0.17
			eSg	50:03.30	1.73
SRO	73.3	22	e g	18:49:51.70	0.42
BUD	87.5	69	ePg	18:49:58.00	4.21

98.

2000- 8-03 time: 9:20:44.99 UTC ML=-0.1
 lat: 45.852N lon: 18.416E h= 0.3 km
 erh= ---km erz= ---km
 nr= 4 gap=266 rms=0.16
 Locality: Villányi mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
RHK3	13.4	289	iPgC	9:20:47.30	-0.08
			eSg	20:49.40	0.16
PKSM	43.7	24	ePgC	9:20:53.00	0.21
			eSg	20:58.60	-0.28

99.

2000- 8-04 time: 9:39:55.26 UTC ML= 1.1
 lat: 47.401N lon: 18.549E h= 10.0 km
 erh= ---km erz= ---km
 nr= 4 gap=282 rms=0.74
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	8.7	255	iPgC	9:39:57.30	-0.33
			eSg	39:58.00	-1.48
PKSM	132.4	177	iPnC	9:40:18.40	0.88
			eSn	40:34.50	-0.38

100.

2000- 8-07 time: 9:32:14.39 UTC ML= 2.2
 lat: 47.379N lon: 18.281E h= 10.0 km
 erh= 2.7km erz= 1.2km
 nr= 6 gap=271 rms=0.63
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	11.8	89	iPgC	9:32:16.70	-0.46
			eSg	32:17.60	-1.71
ETYK	35.7	79	iPgC	9:32:21.60	0.59
			eSg	32:26.10	-0.08
PKSM	132.6	168	ePn	9:32:37.30	0.62
			eSn	32:53.50	-0.56

101.

2000- 8-10 time: 10:27:33.09 UTC ML= 2.4
 lat: 47.367N lon: 18.298E h= 6.5 km
 erh= 4.2km erz= 2.3km
 nr= 6 gap=268 rms=0.53
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	10.6	82	iPgC	10:27:34.80	-0.51
			eSg	27:35.60	-1.44
ETYK	34.7	76	iPgC	10:27:39.80	0.41
			eSg	27:45.10	0.79
PKSM	131.1	168	iPnC	10:27:55.90	0.25
			eSn	28:12.80	-0.44

102.

2000- 8-15 time: 10:11:33.15 UTC ML= 1.9
 lat: 47.946N lon: 19.104E h= 13.4 km
 erh= 2.7km erz= 1.3km
 nr= 6 gap=284 rms=0.18
 Locality: Tolmács
 Comments:

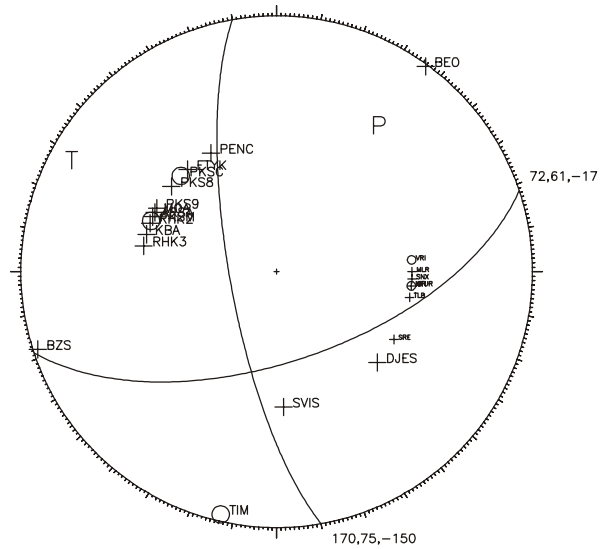
Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
PENC	21.8	143	iPgC	10:11:37.70	-0.02
			eSg	11:41.20	-0.09
ETYK	62.4	206	eSg	10:11:53.60	0.16
PKSC	80.4	219	ePgC	10:11:47.80	0.09
			eSg	11:57.80	-1.26
PKS9	163.5	202	eSn	10:12:18.80	-0.12

103.

2000- 8-16 time: 22:13:58.70 UTC ML= 2.8
 lat: 45.507N lon: 21.147E h= 1.4 km
 erh= 3.1km erz= 3.9km
 nr= 26 gap= 61 rms=0.93
 Locality: Romania
 Comments:

sta	dist	azm	phase	hr mn sec	res
TIM	26.1	13	iPgD	22:14:03.40	0.04
			eSg	14:10.00	3.00
BZS	38.6	72	iPgC	22:14:04.40	-1.20
BEO	93.6	216	iPgC	22:14:16.20	0.78
			iSg	14:30.20	1.73
SVIS	134.7	177	iPnC	22:14:22.10	-0.26
			iSn	14:39.80	-1.01
DJES	145.6	132	iPnC	22:14:22.70	-1.02
			iSn	14:38.70	-4.53
PTNS	169.7	214	iPn	22:14:24.20	-2.52
			iSn	14:49.40	0.83
PKSN	183.4	327	ePn	22:14:29.40	0.98
			ePnC	22:14:31.10	2.19
SRE	187.3	120	iSn	14:52.02	-0.46
			iPnC	22:14:30.30	0.30
PKSM	209.8	292	iPnD	22:14:31.70	-0.01
			eSn	14:55.50	-1.97
RHK3	229.4	281	iPnC	22:14:34.00	-0.16
			eSn	15:08.50	6.69
PKS8	244.2	309	iPnC	22:14:35.80	-0.20
			eSn	15:01.40	-3.70
PKS9	252.4	298	iPnC	22:14:37.00	-0.03
			eSn	15:04.10	-2.82
ETYK	283.2	319	iPnC	22:14:41.10	0.23
PENC	291.2	331	iPnC	22:14:41.50	-0.37
PKSC	294.5	315	iPnD	22:14:42.10	-0.18
			eSn	15:13.20	-3.07
MTUR	308.4	96	ePnD	22:14:47.23	3.22
SNX	342.1	93	ePnC	22:14:51.85	3.64
			iSn	15:30.73	3.90
MLR	374.9	90	ePnC	22:14:53.21	0.91
SKO	393.5	177	ePn	22:15:01.00	6.38
PTJ	405.4	276	ePn	22:14:56.10	-0.01
			eSn	15:39.50	-1.38
ISR	425.2	96	ePnC	22:14:59.93	1.36
ZST	429.6	314	e n	22:14:58.00	-1.12
URI	436.4	85	ePnD	22:15:01.33	1.36
ARSA	474.1	294	iPnC	22:15:05.00	0.33
			iSn	15:54.30	-1.83
VAY	479.2	166	ePn	22:15:04.50	-0.80
OHR	489.2	183	ePn	22:15:08.60	2.04
OKC	531.6	335	ePn	22:15:13.40	1.56
TLB	552.0	101	ePnC	22:15:13.49	-0.90
VOY	567.3	276	eSn	22:16:44.30	27.49
MOA	587.4	296	iPnC	22:15:20.10	1.30
			iSn	16:20.80	-0.47
KBA	626.1	286	iPnC	22:15:23.60	-0.02
			iSn	16:28.10	-1.76
KHC	699.9	305	ePn	22:15:32.00	-0.82
			eSn	16:41.50	-4.73
PRU	702.6	315	Pn	22:15:31.90	-1.26
			eSn	16:52.90	6.06



104.

2000- 8-21 time: 9:20:31.61 UTC ML= 1.3
 lat: 45.671N lon: 18.535E h= 0.1 km
 erh= ***km erz= ***km
 nr= 5 gap=310 rms=1.03
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
RHK3	32.8	318	ePg	9:20:37.50	0.03
			eSg	20:40.30	-1.75
PKSM	60.7	8	ePgC	9:20:42.90	0.45
			eSg	20:49.20	-1.70
PKS9	103.7	349	eSg	9:21:05.70	1.12

105.

2000- 8-21 time: 9:35:14.59 UTC ML= 2.3
 lat: 47.488N lon: 18.433E h= 10.0 km
 erh= 8.7km erz= 1.0km
 nr= 5 gap=347 rms=0.82
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	12.0	179	iPgC	9:35:17.10	-0.28
			eSg	35:17.90	-1.66
PKS9	100.9	187	iPgC	9:35:33.60	0.90
PKSM	142.8	174	Pn	9:35:38.20	0.04
			eSn	35:54.60	-1.94

106.

2000- 8-21 time: 9:37:33.12 UTC ML= 2.3
 lat: 47.482N lon: 18.444E h= 10.0 km
 erh=18.1km erz= 2.1km
 nr= 6 gap=347 rms=0.60
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	11.3	182	iPgC	9:37:35.50	-0.32
			eSg	37:36.90	-1.02
PKS9	100.3	187	iPgC	9:37:52.00	0.87
			eSg	38:04.50	-0.67
PKSM	142.0	174	iPnC	9:37:56.60	0.01
			eSn	38:14.30	-0.59

Hypocenter Parameters

107.

2000- 8-29 time: 10:12:19.99 UTC ML= 2.0
 lat: 47.431N lon: 18.414E h= 10.0 km
 erh=12.3km erz= 1.5km
 nr= 6 gap=336 rms=0.90
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	5.8	163	iPgC	10:12:21.60	-0.46
			eSg	12:22.20	-1.47
PKS9	94.3	186	iPgC	10:12:38.10	1.17
			eSg	12:50.10	-0.05
PKSM	136.6	173	iPnC	10:12:42.70	-0.08
			eSn	12:57.80	-2.75

108.

2000- 8-29 time: 10:25:07.69 UTC ML= 1.8
 lat: 47.484N lon: 18.444E h= 10.0 km
 erh=12.6km erz= 1.5km
 nr= 6 gap=347 rms=0.55
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	11.5	182	iPgC	10:25:10.10	-0.31
			eSg	25:11.30	-1.23
PKS9	100.5	187	iPgC	10:25:26.50	0.77
			eSg	25:39.40	-0.39
PKSM	142.2	174	iPnC	10:25:31.20	0.02
			eSn	25:49.00	-0.50

109.

2000- 9-01 time: 12:30:36.74 UTC ML= 1.6
 lat: 47.764N lon: 19.460E h= 10.0 km
 erh= ---km erz= ---km
 nr= 4 gap=289 rms=0.75
 Locality: Erdőkürt
 Comments:

sta	dist	azm	phase	hr mn sec	res
PENC	13.7	282	iPgC	12:30:39.40	-0.37
			eSg	30:42.50	0.37
PKS8	114.9	211	ePn	12:30:57.90	1.08
			eSn	31:10.80	-1.69

110.

2000- 9-05 time: 23:54:42.68 UTC ML= 1.5
 lat: 47.937N lon: 16.455E h= 6.3 km
 erh= 3.3km erz= 3.7km
 nr= 11 gap= 58 rms=0.67
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr mn sec	res
SOP	29.3	165	iPgD	23:54:48.50	0.47
			iSg	54:52.50	0.30
VKA	37.8	344	iPgC	23:54:49.90	0.38
			iSg	54:55.00	0.14
ZST	56.2	59	iPg	23:54:52.50	-0.28
			eSg	54:59.80	-0.86
ARSA	103.6	223	iPgC	23:55:00.50	-0.72
			iSg	55:13.00	-2.68
VRAC	152.9	4	Pn	23:55:07.00	-0.97
			Sn	55:24.70	-3.00
PKSC	161.3	113	ePn	23:55:09.10	0.08
			eSn	55:29.90	0.33
MOA	164.0	267	iPnC	23:55:09.40	0.04

			iSn	55:29.40	-0.77
ETYK	180.6	108	iPnC	23:55:15.20	3.77
			eSn	55:36.30	2.44
GEC2	227.5	296	ePn	23:55:19.30	2.02
			eSn	55:44.70	0.43
OKC	244.7	30	eSn	23:55:45.30	-2.78
KHC	250.5	302	ePn	23:55:22.00	1.86
			eSn	55:50.00	0.63
PRU	267.7	328	Pn	23:55:22.50	0.21
			Sn	55:52.30	-0.88
DPC	269.3	359	eSn	23:55:58.80	5.27

111.

2000- 9-08 time: 9:59:47.32 UTC ML= 2.7
 lat: 47.400N lon: 18.257E h= 7.4 km
 erh= 7.5km erz= 4.6km
 nr= 6 gap=276 rms=0.73
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	13.8	99	iPgC	9:59:49.80	-0.31
			iSg	59:51.40	-0.89
ETYK	37.1	83	ePg	9:59:54.70	0.63
			eSg	10:00:01.00	1.66
PKSM	135.3	167	iPnC	9:60:10.90	0.63
			eSn	60:27.30	-0.87

112.

2000- 9-13 time: 9:33:40.55 UTC ML= 1.6
 lat: 47.484N lon: 18.492E h= 10.0 km
 erh=32.0km erz= 7.4km
 nr= 6 gap=336 rms=0.72
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	12.2	200	iPgC	9:33:43.00	-0.37
			eSg	33:43.70	-1.86
PKS9	101.0	189	iPgC	9:33:59.50	0.82
			eSg	34:13.50	0.69
PKSM	141.8	175	iPnC	9:34:03.90	-0.10
			eSn	34:21.00	-1.28

113.

2000- 9-18 time: 8:58:09.16 UTC ML= 0.3
 lat: 45.830N lon: 18.449E h= 1.4 km
 erh= ---km erz= ---km
 nr= 4 gap=275 rms=0.14
 Locality: Villányi mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
RHK3	16.6	294	ePgC	8:58:12.00	-0.14
			eSg	58:14.60	0.13
PKSM	45.0	19	iPgD	8:58:17.30	0.10
			eSg	58:23.20	-0.28

114.

2000- 9-18 time: 13:44:56.88 UTC ML= 1.8
 lat: 47.278N lon: 19.243E h= 10.0 km
 erh=13.7km erz=34.0km
 nr= 8 gap=278 rms=0.85
 Locality: Ócsa
 Comments:

sta	dist	azm	phase	hr mn sec	res
BUD	28.2	324	PgD	13:45:02.00	-0.22

Hypocenter Parameters

ETYK	41.7	296	eSg	45:07.00	0.62
			iPgC	13:45:05.30	0.76
			eSg	45:09.40	-1.11
PENC	57.0	3	iPgD	13:45:07.40	0.19
			eSg	45:13.00	-2.27
PKSC	62.0	281	ePgD	13:45:08.10	0.02
			eSg	45:14.40	-2.42

115.

2000- 9-19 time: 8:19:45.10 UTC ML=-0.1
 lat: 45.808N lon: 18.449E h= 5.3 km
 erh= ---km erz= ---km
 nr= 4 gap=283 rms=0.01
 Locality: Villányi mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
RHK3	17.8	301	iPgD	8:19:48.40	-0.01
			eSg	19:51.00	0.01
PKSM	47.3	18	iPgC	8:19:53.60	0.01
			eSg	20:00.20	-0.02

116.

2000- 9-19 time: 10:52:43.93 UTC ML= 0.9
 lat: 45.903N lon: 18.715E h= 4.9 km
 erh= ---km erz= ---km
 nr= 4 gap=277 rms=0.01
 Locality: Hungary-Croatia border
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSM	34.8	351	iPgD	10:52:50.20	-0.01
			eSg	52:55.10	0.00
RHK3	35.8	268	ePg	10:52:50.40	0.02
			eSg	52:55.40	-0.02

117.

2000- 9-20 time: 9:42:07.09 UTC ML= 1.8
 lat: 47.400N lon: 18.348E h= 6.8 km
 erh=13.7km erz= 5.4km
 nr= 8 gap=258 rms=0.97
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	7.1	108	iPgC	9:42:08.40	-0.44
			iSg	42:09.30	-0.91
ETYK	30.3	82	ePgC	9:42:13.40	0.77
			eSg	42:18.00	1.04
PKS9	90.6	183	iPgD	9:42:24.80	1.50
			eSg	42:37.80	1.85
PKSM	134.0	170	iPnC	9:42:29.60	-0.36
			eSn	42:45.60	-2.20

118.

2000- 9-20 time: 10:17:56.25 UTC ML= 1.4
 lat: 47.720N lon: 17.960E h= 10.0 km
 erh=52.2km erz=33.1km
 nr= 5 gap=260 rms=1.08
 Locality: Ács
 Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	28.5	69	e g	10:18:01.20	-0.44
PKSC	52.1	136	iPgC	10:18:04.50	-1.22
			eSg	18:09.60	-3.51
ETYK	66.7	118	ePgD	10:18:09.20	0.90
PKS9	128.3	169	ePn	10:18:20.10	2.10

PKSM	175.5	163	iPnC	10:18:23.90	0.01
			eSn	18:42.90	-2.55

119.

2000- 9-22 time: 5:28:54.98 UTC ML= 1.8
 lat: 45.680N lon: 18.836E h= 7.9 km
 erh= 5.1km erz=28.6km
 nr= 6 gap=312 rms=0.25
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
RHK3	51.0	297	iPgD	5:29:04.10	-0.09
			eSg	29:11.60	0.22
PKSM	61.0	346	iPgC	5:29:05.90	-0.06
			eSg	29:14.40	-0.12
PKS9	109.6	337	ePgC	5:29:15.20	0.60
			eSg	29:29.50	-0.40

120.

2000- 9-23 time: 0:08:15.48 UTC ML= 1.8
 lat: 46.585N lon: 20.008E h= 10.0 km
 erh=17.7km erz=14.8km
 nr= 8 gap=295 rms=0.63
 Locality: Pusztaszer
 Comments:

sta	dist	azm	phase	hr mn sec	res
RHK2	106.5	242	iP*D	0:08:34.70	0.20
			eS*	08:51.20	1.87
PKSM	113.0	248	iPnC	0:08:34.90	-0.42
			eSn	08:50.80	0.00
PKS9	132.5	270	iPnD	0:08:37.30	-0.46
			iSn	08:54.80	-0.33
PKSC	148.7	307	ePn	0:08:41.40	1.63
			eSn	08:59.30	0.58

121.

2000- 9-26 time: 9:18:37.46 UTC ML= 1.4
 lat: 47.371N lon: 18.434E h= 10.0 km
 erh= ---km erz= ---km
 nr= 4 gap=198 rms=0.49
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	1.1	11	iPgC	9:18:38.90	-0.35
			eSg	18:40.70	0.05
PKSM	129.8	173	iPnC	9:19:00.00	0.60
			eSn	19:15.70	-0.81

122.

2000- 9-29 time: 22:09:14.35 UTC ML= 1.9
 lat: 47.846N lon: 17.324E h= 1.1 km
 erh= 4.8km erz= 6.4km
 nr= 6 gap=136 rms=0.43
 Locality: Máriakálnok
 Comments:

sta	dist	azm	phase	hr mn sec	res
ZST	42.3	337	ePg	22:09:21.80	-0.11
			eSg	09:27.80	0.00
SOP	60.2	253	iPgD	22:09:25.00	-0.10
			eSg	09:31.30	-2.18
PKSC	98.4	122	iPgD	22:09:31.60	-0.32
			eSg	09:43.50	-2.13
ETYK	115.9	113	iPgC	22:09:35.40	0.35
ARSA	150.8	244	iPnC	22:09:40.10	0.05

Hypocenter Parameters

MOA 228.9 270 iSn 09:58.30 -1.79
 iPnC 22:09:54.70 4.92
 iSn 10:22.90 5.49

123.

2000-10-04 time: 14:18:48.88 UTC ML= 1.5
 lat: 47.657N lon: 16.070E h= 10.0 km
 erh= 8.2km erz= 6.5km
 nr= 15 gap=137 rms=2.03
 Locality: Austria
 Comments: felt 4 EMS

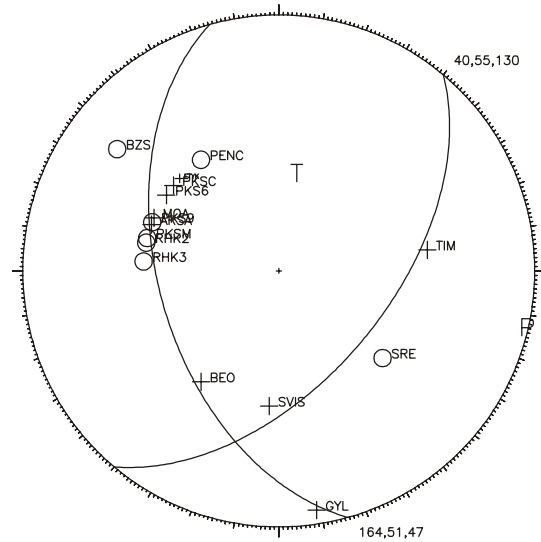
sta	dist	azm	phase	hr mn sec	res
SOP	36.8	85	iPgC	14:18:56.80	1.12
			iSg	19:01.90	0.91
ARSA	61.2	222	iPgC	14:18:59.40	-0.55
			iSg	19:06.30	-2.29
ZST	97.7	52	iPg	14:19:03.20	-3.22
			eSg	19:15.30	-4.80
MOA	137.0	279	iPnC	14:19:11.70	-0.02
			iSn	19:27.40	-2.13
OBKA	172.1	222	iPnC	14:19:18.80	2.70
			iSn	19:39.00	1.67
KBA	215.7	253	iPnC	14:19:23.10	1.57
			iSn	19:50.90	3.90
KHC	246.9	312	ePn	14:19:27.60	2.19
			eSn	19:56.50	2.59
PRU	282.5	337	Pn	14:19:36.80	6.94
			Sn	20:05.30	3.47
DPC	301.5	5	eSn	14:20:13.80	7.77
WTTA	337.2	263	iPnC	14:19:39.10	2.42
			iSn	20:13.80	-0.16

124.

2000-10-05 time: 23:04:11.92 UTC ML= 3.3
 lat: 45.750N lon: 21.366E h= 10.0 km
 erh= 6.2km erz= 3.9km
 nr= 15 gap=111 rms=1.26
 Locality: Romania
 Comments:

sta	dist	azm	phase	hr mn sec	res
TIM	11.4	262	iPgC	23:04:15.14	0.52
BZS	24.5	127	iPgD	23:04:15.73	-0.91
GYL	95.4	351	iPgC	23:04:29.50	0.45
			iSg	04:42.70	0.28
BEO	125.5	215	iPnC	23:04:32.00	-1.32
			iSn	04:50.10	0.08
SVIS	162.0	184	iPnC	23:04:44.10	6.23
			iSn	05:04.60	6.48
PKS6	168.1	304	iPnC	23:04:38.80	0.17
			iSn	04:58.90	-0.57
SRE	188.5	130	iPnD	23:04:42.50	1.33
RHK2	204.3	282	iPnD	23:04:42.50	-0.65
PKSM	217.3	284	iPnD	23:04:44.10	-0.66
			eSn	05:07.60	-2.78
RHK3	242.3	274	iPnD	23:04:47.10	-0.79
			eSn	05:20.40	4.45
PKS9	255.9	291	iPnD	23:04:49.20	-0.38
			iSn	05:17.90	-1.06
ETYK	275.0	313	ePnC	23:04:52.40	0.44
			iSn	05:31.90	8.70
PENC	277.1	325	iPnD	23:04:52.30	0.08
PKSC	288.6	309	iPnC	23:04:53.30	-0.35
			eSn	05:35.50	9.30
MTUR	294.9	101	iPn	23:04:56.50	2.06
SRO	327.0	315	ePn	23:04:59.70	1.25
			eSn	05:48.00	13.26
MLR	358.2	95	ePn	23:05:03.50	1.17
ISR	410.9	100	iPn	23:05:11.00	2.10
PTJ	419.4	272	ePn	23:05:09.50	-0.47
			eSn	05:59.50	4.25

ZST 423.3 310 ePn 23:05:07.40 -3.05
 eSn 05:49.20 -6.91
 ARSA 478.5 290 iPnC 23:05:17.30 -0.04
 iSn 06:05.20 -3.16
 MOA 590.1 293 iPnC 23:05:32.60 1.35
 iSn 06:33.20 0.06



125.

2000-10-07 time: 0:42:11.77 UTC ML= 2.1
 lat: 47.390N lon: 19.135E h= 12.6 km
 erh= 6.1km erz= 5.0km
 nr= 11 gap=198 rms=0.47
 Locality: Budapest
 Comments: felt 4 EMS

sta	dist	azm	phase	hr mn sec	res
BUD	13.4	321	iPgD	0:42:14.70	-0.36
ETYK	30.0	281	iPgD	0:42:17.70	0.12
			iSg	42:23.00	0.89
PKSC	52.7	269	iPg	0:42:21.40	-0.05
			iSg	42:28.80	-0.20
PKS6	93.7	160	iP*C	0:42:28.80	0.22
			eS*	42:42.10	0.40
PKS9	110.5	216	iPnD	0:42:31.10	0.13
			iSn	42:47.10	1.16
PKSM	136.3	196	iPnD	0:42:33.80	-0.38
			iSn	42:50.60	-1.06
GYL	178.0	120	eSn	0:43:03.60	2.68

126.

2000-10-08 time: 15:33:40.86 UTC ML= 1.8
 lat: 45.720N lon: 17.492E h= 10.0 km
 erh=20.6km erz=11.4km
 nr= 8 gap=219 rms=1.00
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
RHK3	62.2	72	iPgD	15:33:51.20	-0.91
			eSg	34:11.20	10.31
PKSM	104.5	58	iP*D	15:33:59.90	0.33
			eS*	34:23.80	9.64
PKS9	113.9	32	ePn	15:34:01.80	0.98
			eSn	34:38.40	22.02
PKSC	198.3	21	ePn	15:34:12.40	1.06
			eSn	35:00.90	25.79

Hypocenter Parameters

ARSA 227.6 318 iPnC 15:34:14.00 -0.99
 iSn 34:49.20 7.59
 OBKA 243.8 291 iPnC 15:34:18.40 1.39
 iSn 34:57.60 12.38
 MOA 341.6 314 iPnC 15:34:28.00 -1.21
 iSn 35:15.20 8.27
 KHC 480.6 322 ePn 15:34:44.50 -2.04

127.

2000-10-09 time: 10:21:54.24 UTC ML= 1.4
 lat: 47.354N lon: 18.328E h= 4.0 km
 erh= 6.6km erz= 5.0km
 nr= 6 gap=261 rms=0.39
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	8.8	70	iPgC	10:21:55.80	-0.16
			iSg	21:57.00	-0.30
ETYK	32.9	73	ePgD	10:22:00.70	0.55
			eSg	22:06.00	1.23
PKSM	129.2	169	iPnC	10:22:17.00	0.14
			eSn	22:33.80	-0.71

128.

2000-10-11 time: 9:57:02.37 UTC ML= 1.3
 lat: 47.363N lon: 18.439E h= 7.6 km
 erh= ---km erz= ---km
 nr= 4 gap=184 rms=0.03
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	1.9	357	ePgC	9:57:03.80	0.04
			eSg	57:04.80	-0.05
PKSM	128.9	173	ePnC	9:57:24.50	-0.02
			eSn	57:41.80	0.01

129.

2000-10-13 time: 11:41:19.60 UTC ML= 2.6
 lat: 45.805N lon: 17.885E h= 3.1 km
 erh= 3.4km erz= 2.1km
 nr= 8 gap=240 rms=0.38
 Locality: Zaláta
 Comments:

sta	dist	azm	phase	hr mn sec	res
RHK3	30.3	72	ePgD	11:41:25.10	0.07
			eSg	41:29.50	0.23
PKSM	74.0	52	ePgD	11:41:32.50	-0.33
			eSg	41:42.30	-0.85
PKS9	92.1	19	ePgD	11:41:36.50	0.45
			eSg	41:49.00	0.12
PKS2	127.9	53	eSn	11:42:00.10	0.30
ARSA	242.2	312	iPnD	11:41:55.90	-0.53
VOY	310.7	275	ePn	11:42:12.20	7.23
			eSn	42:52.10	11.74
MOA	357.6	309	iPnC	11:42:10.80	-0.02

130.

2000-10-13 time: 11:55:47.79 UTC ML= 1.9
 lat: 45.690N lon: 18.093E h= 18.5 km
 erh= 3.6km erz= 0.7km
 nr= 6 gap=332 rms=0.13
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSC	13.1	90	iPgC	9:55:11.70	-0.26

RHK3 25.7 29 iPgD 11:55:53.40 -0.04
 eSg 55:57.90 0.06
 PKSM 71.9 36 iP*D 11:56:00.90 0.16
 eS* 56:10.60 -0.24
 PKS9 100.7 8 iPnC 11:56:04.90 -0.12
 eSn 56:18.60 0.15

131.

2000-10-16 time: 9:55:49.86 UTC ML= 1.6
 lat: 47.368N lon: 18.430E h= 7.0 km
 erh= ---km erz= ---km
 nr= 4 gap=209 rms=0.06
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	1.6	22	iPgC	9:55:51.10	-0.04
			eSg	55:52.20	0.07
PKSM	129.5	173	iPnD	9:56:12.20	0.05
			eSn	56:29.40	-0.13

132.

2000-10-20 time: 9:53:29.58 UTC ML= 1.3
 lat: 47.463N lon: 18.493E h= 6.9 km
 erh= 12.3km erz= 5.7km
 nr= 7 gap=323 rms=0.51
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	10.1	205	iPgC	9:53:31.50	-0.25
			eSg	53:32.60	-0.85
PKS8	66.4	168	ePg	9:53:41.60	0.10
			eSg	53:50.90	0.09
PKS9	98.7	189	iPgC	9:53:47.90	0.65
PKSM	139.6	175	ePnC	9:53:52.60	-0.53
			eSn	54:08.10	-3.41

133.

2000-10-22 time: 6:22:55.12 UTC ML= 1.2
 lat: 46.960N lon: 19.347E h= 10.0 km
 erh= 4.3km erz= 27.1km
 nr= 10 gap=156 rms=0.91
 Locality: Kunbaracs
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSN	40.3	100	ePg	6:23:02.00	-0.52
			eSg	23:09.70	1.40
PKS8	51.8	260	iPgD	6:23:04.60	0.06
			eSg	23:09.60	-2.30
PKSC	83.3	304	iPgC	6:23:10.60	0.49
			eSg	23:20.10	-1.70
PKS9	91.5	243	iPgD	6:23:12.70	1.15
			eSg	23:24.00	-0.37
PKSM	99.2	213	iPgD	6:23:12.40	-0.51
			eSg	23:25.00	-1.79

134.

2000-10-24 time: 9:55:09.45 UTC ML= 1.5
 lat: 47.381N lon: 18.263E h= 5.1 km
 erh= 6.4km erz= 5.4km
 nr= 7 gap=272 rms=0.47
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	13.1	90	iPgC	9:55:11.70	-0.26

Hypocenter Parameters

ETYK	37.0	80	eSg	55:13.10	-0.82
			ePgC	9:55:16.30	0.19
			eSg	55:21.90	0.60
PKS8	64.0	151	eSg	9:55:30.20	0.34
PKSM	133.1	167	ePnC	9:55:32.90	0.47
			eSn	55:49.10	-1.26

135.

2000-10-30 time: 10:14:18.50 UTC ML= 1.3
 lat: 47.385N lon: 18.459E h= 8.3 km
 erh= ---km erz= ---km
 nr= 4 gap=281 rms=0.22
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	1.8	253	ePgC	10:14:20.00	-0.02
			eSg	14:21.10	-0.10
PKSM	131.2	174	ePnC	10:14:41.10	0.27
			eSn	14:57.80	-0.45

136.

2000-11-01 time: 22:18:42.47 UTC ML= 1.8
 lat: 45.690N lon: 17.646E h= 10.0 km
 erh=18.0km erz= 7.9km
 nr= 9 gap=317 rms=0.43
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSM	96.5	53	iPgD	22:19:00.00	0.20
			eSg	20:11.90	-1.41
RHK2	101.3	61	ePgC	22:19:01.00	0.36
			eSg	19:14.60	-0.22
PKS9	111.0	26	iPnD	22:19:02.60	0.53
			iSn	19:17.60	0.25
PKS8	154.1	31	iPnD	22:19:06.80	-0.64
			eSn	19:26.70	-0.22
PKSC	197.5	18	iPnC	22:19:12.60	-0.24

137.

2000-11-02 time: 10:10:27.74 UTC ML=-0.1
 lat: 45.819N lon: 18.385E h= 10.0 km
 erh= 5.0km erz= 5.1km
 nr= 5 gap=284 rms=0.65
 Locality: Villányi mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
RHK3	13.0	308	ePg	10:10:30.50	-0.18
			eSg	10:32.90	-0.07
PKSM	48.0	24	iPgD	10:10:36.30	-0.20
			eSg	10:42.30	-1.03
PKS9	85.8	355	ePg	10:10:44.50	1.33

138.

2000-11-06 time: 13:58:14.18 UTC ML= 1.5
 lat: 47.699N lon: 18.443E h= 11.7 km
 erh= 3.0km erz= 1.8km
 nr= 7 gap=321 rms=0.17
 Locality: Dunaszentmiklós
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSC	35.4	181	ePgD	13:58:20.60	-0.23
			eSg	58:26.20	0.18
ETYK	36.6	142	ePgD	13:58:21.00	-0.04
			eSg	58:26.30	-0.10

PKS8	92.9	169	iPgD	13:58:31.10	0.20
			eSg	58:43.60	-0.33
PKSM	166.0	175	iPnD	13:58:40.40	-0.02

2000-11-13 time: 10:18:36.13 UTC ML= 2.0
 lat: 47.385N lon: 18.331E h= 10.0 km
 erh= 1.3km erz= 0.4km
 nr= 5 gap=269 rms=0.77
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	8.0	93	iPgC	10:18:38.20	-0.21
			iSg	18:39.40	-0.80
ETYK	31.8	79	ePgC	10:18:43.30	1.22
			eSg	18:48.20	1.48
PKSM	132.5	170	eSn	10:19:15.60	-0.18

140.

2000-11-16 time: 11:13:40.44 UTC ML= 1.4
 lat: 47.401N lon: 18.299E h= 10.0 km
 erh= 2.4km erz= 1.0km
 nr= 6 gap=274 rms=0.81
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	10.7	102	iPgC	11:13:42.30	-0.76
			eSg	13:43.30	-1.79
ETYK	33.9	83	iPgC	11:13:47.50	0.74
			eSg	13:52.50	0.81
PKSM	134.7	169	ePn	11:14:03.50	0.50
			eSn	14:20.30	-0.29

141.

2000-11-20 time: 10:47:26.98 UTC ML= 1.5
 lat: 47.462N lon: 18.440E h= 0.1 km
 erh= ---km erz= ---km
 nr= 4 gap=343 rms=0.05
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	9.0	181	iPgC	10:47:28.60	0.01
			eSg	47:29.70	-0.14
PKS8	67.2	165	iPgC	10:47:39.00	0.01
			eSg	47:48.40	0.05

142.

2000-11-23 time: 2:32:14.83 UTC ML= 2.1
 lat: 46.908N lon: 19.153E h= 10.0 km
 erh= 3.1km erz= 3.0km
 nr= 12 gap=207 rms=0.46
 Locality: Kunadacs
 Comments: felt

sta	dist	azm	phase	hr mn sec	res
PKS8	36.5	265	iPgD	2:32:22.50	0.92
			eSg	32:26.10	-0.75
BUD	64.7	351	iPg	2:32:26.50	-0.03
			iSg	32:36.00	0.35
ETYK	66.8	332	iPgC	2:32:26.50	-0.39
			eSg	32:36.10	-0.19
PKSC	75.6	314	iPgC	2:32:28.50	0.06
			eSg	32:37.80	-1.26
RHK2	90.8	198	ePgD	2:32:31.10	-0.04
			eSg	32:43.30	-0.56
RHK3	132.5	211	iPnD	2:32:36.80	-0.30
			eSn	32:55.00	0.52

Hypocenter Parameters

143.

2000-11-23 time: 12:30:35.92 UTC ML= 1.1
 lat: 47.569N lon: 18.736E h= 4.1 km
 erh= 1.6km erz= 3.5km
 nr= 5 gap=310 rms=0.05
 Locality: Tök
 Comments:

sta	dist	azm	phase	hr mn sec	res
ETYK	14.3	177	ePgC	12:30:38.50	-0.08
			eSg	30:40.70	0.05
PKSC	30.8	227	iPgD	12:30:41.50	0.04
			eSg	30:45.70	-0.09
PKS8	76.9	183	ePg	12:30:49.70	0.03

144.

2000-12-01 time: 3:35:45.92 UTC ML= 2.0
 lat: 47.344N lon: 18.467E h= 0.9 km
 erh= 6.2km erz=53.2km
 nr= 7 gap=141 rms=0.62
 Locality: Csákvár
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSC	4.6	331	iPgD	3:35:46.40	-0.37
			eSg	35:47.90	0.47
ETYK	23.5	63	iPgC	3:35:50.70	0.58
			iSg	35:52.60	-0.80
PKS9	85.4	190	iPgD	3:36:01.20	0.03
			eSg	36:12.00	-1.07
PKSN	117.3	115	eSg	3:36:24.40	1.19

145.

2000-12-04 time: 4:01:50.19 UTC ML= 2.1
 lat: 46.585N lon: 21.289E h= 19.1 km
 erh= 6.6km erz= 1.6km
 nr= 12 gap=235 rms=0.75
 Locality: Elek
 Comments:

sta	dist	azm	phase	hr mn sec	res
GYL	9.3	279	iPgC	4:01:53.65	-0.35
			iSg	01:57.20	0.23
TIM	94.5	183	iS*	4:02:19.50	0.24
BZS	110.5	167	iPnC	4:02:08.60	0.04
			iSn	02:22.50	-0.38
PKSN	114.1	288	iPnC	4:02:08.80	-0.20
			eSn	02:23.00	-0.68
RHK2	199.0	255	ePnC	4:02:22.70	3.11
PKSM	207.8	258	ePn	4:02:19.70	-0.99
			eSn	02:47.10	2.62
PKS9	230.7	270	ePnC	4:02:28.30	4.75
			eSn	02:55.20	5.64
PKSC	234.3	292	iPnC	4:02:23.40	-0.60
			eSn	02:57.80	7.43

146.

2000-12-04 time: 10:51:25.33 UTC ML= 1.5
 lat: 47.366N lon: 18.310E h= 6.4 km
 erh= 2.6km erz= 1.4km
 nr= 6 gap=267 rms=0.44
 Locality: Vértes mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
PKSC	9.8	80	iPgC	10:51:27.00	-0.41
			eSg	51:28.00	-1.04
ETYK	33.9	76	iPgC	10:51:31.80	0.32
			eSg	51:37.00	0.72
PKSM	130.7	169	ePnC	10:51:48.10	0.26
			eSn	52:05.40	-0.01

147.

2000-12-05 time: 11:41:08.73 UTC ML= 0.0
 lat: 45.810N lon: 18.420E h= 0.4 km
 erh= 3.4km erz=99.3km
 nr= 5 gap=284 rms=0.58
 Locality: Villányi mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
RHK3	15.8	305	ePgC	11:41:11.40	-0.15
			eSg	41:13.30	-0.45
PKSM	47.9	21	iPgC	11:41:17.20	-0.08
			eSg	41:23.00	-0.94
PKS9	87.1	353	ePgC	11:41:25.40	1.12

148.

2000-12-07 time: 9:50:26.05 UTC ML= 0.0
 lat: 45.795N lon: 18.457E h= 0.6 km
 erh= 1.4km erz=30.0km
 nr= 5 gap=287 rms=0.47
 Locality: Villányi mt.
 Comments: explosion

sta	dist	azm	phase	hr mn sec	res
RHK3	19.1	304	ePgC	9:50:29.30	-0.16
			eSg	50:31.90	-0.22
PKSM	48.5	17	ePgC	9:50:34.50	-0.20
			eSg	50:40.90	-0.55
PKS9	89.1	351	ePg	9:50:42.80	0.84

149.

2000-12-18 time: 22:37:05.47 UTC ML= 1.7
 lat: 47.342N lon: 19.665E h= 12.7 km
 erh= 5.5km erz= 3.7km
 nr= 10 gap=250 rms=0.46
 Locality: Tápiószentmárton
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSN	51.8	163	iPgD	22:37:14.90	-0.10
			eSg	37:22.30	-0.13
PKS6	82.9	185	iPgD	22:37:20.70	0.25
			eSg	37:32.20	0.07
PKSC	92.9	273	iP*C	22:37:22.60	0.44
			eS*	37:34.30	-0.87
PKS9	134.8	231	iPnD	22:37:27.10	-0.59
			eSn	37:46.20	1.17
PKSM	148.0	212	ePn	22:37:28.80	-0.54
			eSn	37:48.70	0.75

150.

2000-12-23 time: 21:26:28.85 UTC ML= 2.0
 lat: 47.796N lon: 20.022E h= 10.3 km
 erh= 9.9km erz= 5.9km
 nr= 12 gap=298 rms=1.08
 Locality: Visonta
 Comments: felt

sta	dist	azm	phase	hr mn sec	res
PKSN	100.6	187	iPgD	21:26:46.70	-0.21
			eSg	27:01.50	0.50
ETYK	103.9	248	eP*C	21:26:47.30	-0.13
			eS*	27:02.40	0.47
PKSC	127.9	249	ePn	21:26:51.00	0.49
			eSn	27:09.20	1.79
PKS6	137.4	195	ePnC	21:26:52.90	1.20
			eSn	27:09.20	-0.33
PKS8	144.1	225	iPnC	21:26:51.10	-1.43
			eSn	27:09.50	-1.50
PKS9	188.5	225	iPnC	21:27:01.40	3.33
PKSM	205.1	211	iPnC	21:26:58.40	-1.74

Hypocenter Parameters

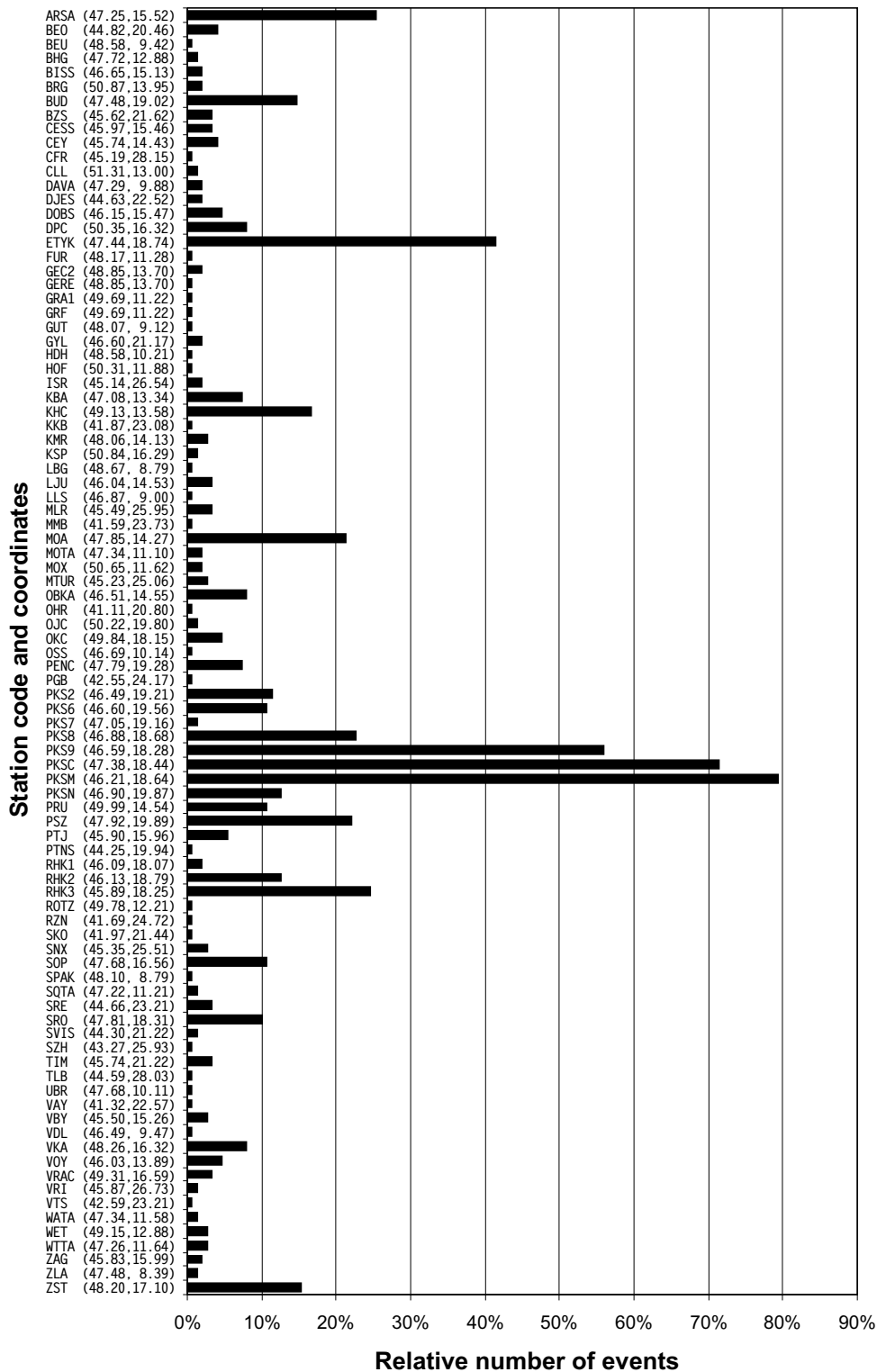


Figure 3.4.
Contribution of stations to hypocenter determination

Hypocenter Parameters

CELEBRATION 2000

During the year a large scale international experiment CELEBRATION 2000 (*Central European Lithospheric Experiment Based on Refraction*) provided ground truth information for testing the detection and location capability of the seismic network. More than 30 experimental shots were exploded in the territory of Hungary ranging from 300 to 750 kg in yield. (Source: E. Hegedűs, ELGI, personal communication)

ID	Latitude (N)	Longitude (E)	Elev. (m)	Date and Time (UTC)	Charge (kg)
1-101-0	46.52661	16.85280	240	2000. 06. 14. 22:00:00	500
1-101-1	46.52661	16.85280	240	2000. 06. 23. 22:15:00	500
1-102-0	47.18431	17.56434	310	2000. 06. 24. 00:00:00	300
1-103-0	47.62941	18.15415	130	2000. 06. 14. 21:45:00	600
1-103-1	47.62941	18.15415	130	2000. 06. 23. 22:30:00	750
1-412-0	48.47741	21.08012	280	2000. 06. 08. 21:15:00	500
1-413-0	48.24999	21.16824	124	2000. 06. 09. 01:30:00	400
1-414-0	47.99742	21.28671	94	2000. 06. 09. 21:30:00	500
1-415-0	47.72016	21.42468	98	2000. 06. 07. 21:45:00	500
1-416-0	47.43034	21.57549	102	2000. 06. 08. 02:00:00	500
1-417-0	47.17635	21.68382	96	2000. 06. 07. 22:00:00	700
1-501-0	46.11364	18.70811	110	2000. 06. 25. 21:15:00	750
1-502-0	46.38794	18.91357	90	2000. 06. 25. 22:15:00	400
1-504-0	47.15566	19.54133	140	2000. 06. 24. 21:30:00	750
1-505-0	47.41651	19.78320	101	2000. 06. 07. 21:15:00	300
1-507-0	47.83388	20.17310	145	2000. 06. 08. 01:30:00	400
1-508-0	48.09726	20.33531	330	2000. 06. 07. 21:30:00	500
1-509-0	48.33754	20.51403	270	2000. 06. 08. 21:45:00	400
1-510-0	48.48067	20.64792	272	2000. 06. 08. 21:30:00	300
1-665-0	48.28456	22.06876	99	2000. 06. 09. 22:15:00	500
1-666-0	48.03173	22.20916	140	2000. 06. 09. 21:00:00	500
1-667-0	47.78679	22.33337	125	2000. 06. 09. 21:15:00	500
1-670-0	47.30394	20.83486	87	2000. 06. 07. 22:15:00	400
1-702-0	46.99319	16.37015	232	2000. 06. 24. 00:30:00	300
1-703-0	46.78577	16.50535	230	2000. 06. 23. 21:15:00	500
1-705-0	46.33048	17.03203	220	2000. 06. 24. 01:30:00	450
1-706-0	46.13066	17.27291	140	2000. 06. 24. 21:15:00	450
1-707-0	45.98846	17.44764	120	2000. 06. 25. 00:00:00	450
1-803-0	47.55032	16.90479	150	2000. 06. 24. 00:45:00	750
1-804-0	47.40271	17.28358	128	2000. 06. 23. 21:30:00	500
1-806-0	46.99708	17.71941	245	2000. 06. 23. 21:45:00	400
1-807-0	46.79357	17.98522	168	2000. 06. 25. 21:45:00	450
1-808-0	46.63882	18.17284	130	2000. 06. 25. 21:30:00	450
1-809-0	46.34944	18.47971	142	2000. 06. 24. 21:45:00	500

Hypocenter Parameters

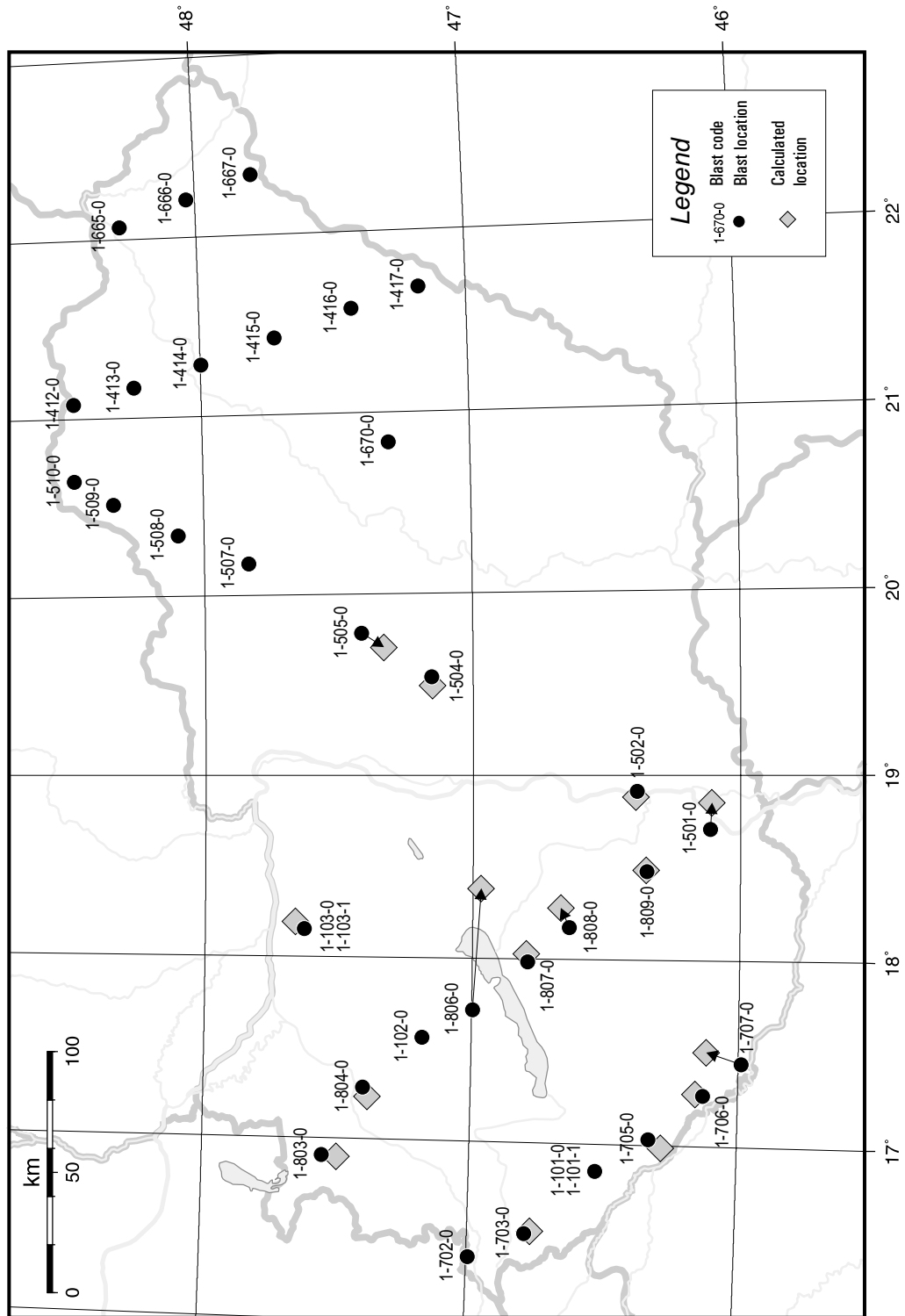


Figure 3.5.
 CELEBRATION 2000 experimental shots (black dots)
 and their calculated epicenters (gray squares)