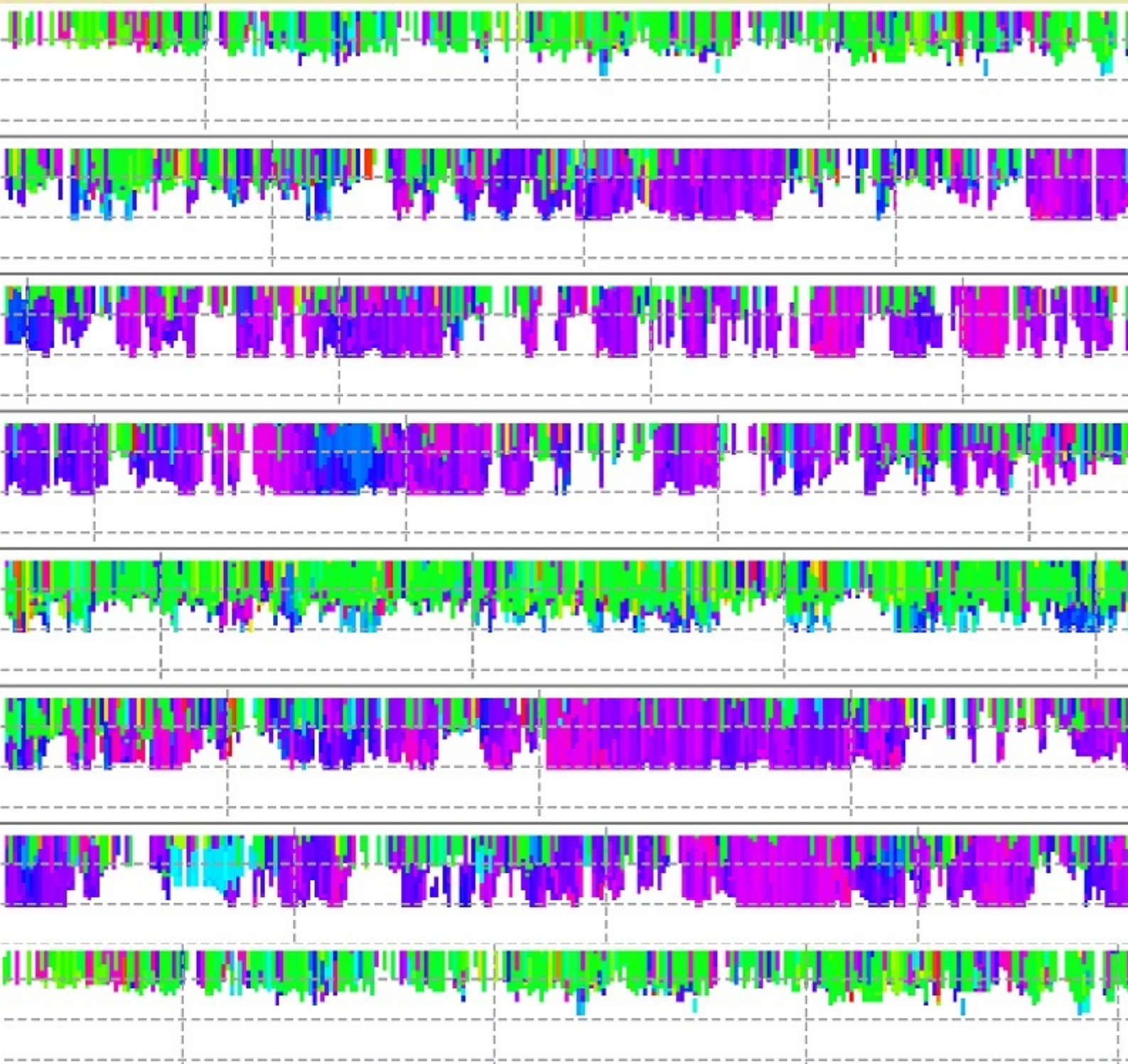


**Hungarian
Seismo-Acoustic
Bulletin**

2017-2018



Hungarian Seismo-Acoustic Bulletin

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The Hungarian National Infrasond Network

The Piskés-tető infrasond array (PSZI)

The Hungarian National Infrasond Network (HNIN, [doi:10.14470/UA114590](https://doi.org/10.14470/UA114590)) was established by the Kövesligethy Radó Seismological Observatory, Research Centre for Astronomy and Earth Sciences of the Hungarian Academy of Sciences (MTA CSFK), Budapest, Hungary with the deployment of the Piskés-tető (PSZI) infrasond array in 2017 (Czanik and Bondár, 2017). The PSZI infrasond array is registered at the International Registry of Seismographic Stations, and the HNIN has the FDSN network code HN (<https://geofon.gfz-potsdam.de/doi/network/HN>).

The Piskés-tető infrasond array is located in Northern Hungary, in the Mátra Mountains, at approximately 930 m above sea level. The array consists of four elements and has an aperture of approximately 300 m. Each element of the array is equipped with a SeismoWave MB3d microbarometer with a built-in digitizer. The central element of the infrasond array (PSZI1) is co-located with a permanent broadband seismological station, PSZ, jointly managed by the MTA CSFK Kövesligethy Radó Seismological Observatory and the GFZ German Research Centre for Geosciences. The site is covered with a temperate mixed forest with relatively dense undergrowth that helps to further reduce environmental noise. **Figure 1a** shows the elements of the array (red triangles) as well as the co-located seismic station, PSZ (blue circle). Note that the MTA CSFK owns the site and the fence around the site basically determined the actual geometry and the aperture of the array. **Figure 1b** shows that the effect of somewhat suboptimal geometry is apparent in the error distribution of azimuth and velocity estimations.

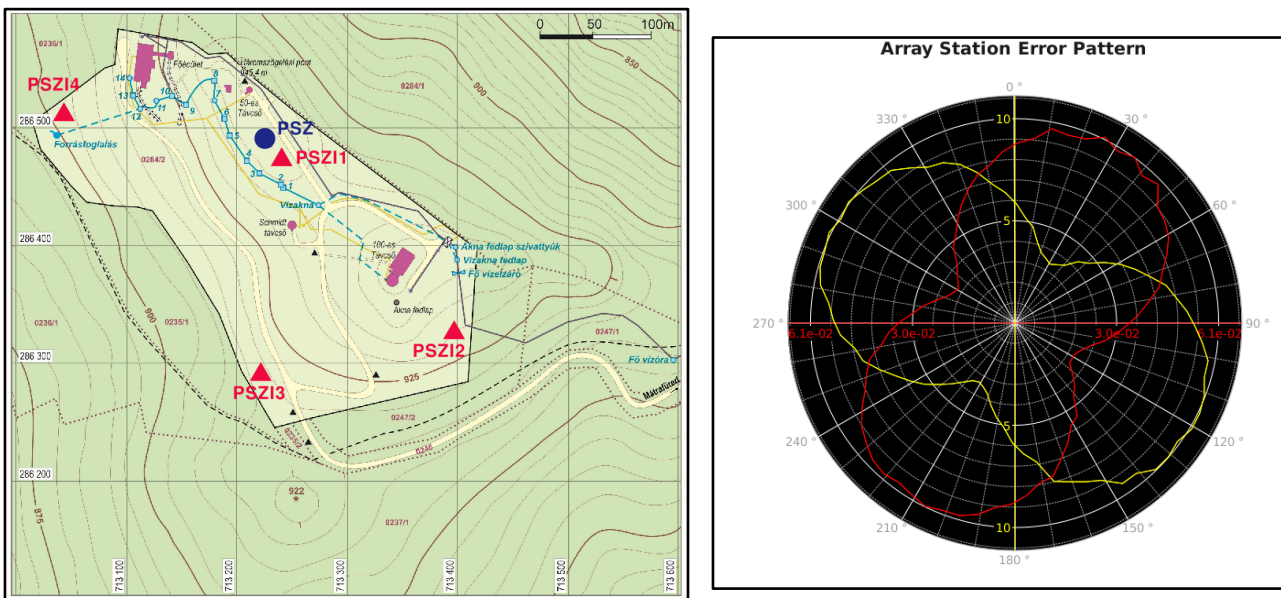


Figure 1. Left: red triangles mark the elements of the PSZI array. The PSZ broadband seismological station is marked with a blue circle. Right: error distribution of the azimuth and velocity estimations.

ARISE

The MTA CSFK Kövesligethy Radó Seismological Observatory has joined the Atmospheric dynamics Research InfraStructure in Europe (ARISE, <http://arise-project.eu>) in 2016. ARISE2 is an infrastructure Design Study project funded by the H2020 European Commission. ARISE2 is a collaboration of more than 25 European universities and research institutes (Blanc et al., 2015). ARISE2 aims to provide a

new atmosphere model with a high spatio-temporal resolution by integrating different techniques such as infrasound, lidar, radar and airglow stations, shown in **Figure 2**. The ARISE2 infrasound network component incorporates the Comprehensive Nuclear-Test-Ban-Treaty Organization (CTBTO) International Monitoring System (IMS) network globally distributed infrasound arrays as well several European infrasound arrays. PSZI closes a large gap in infrasound station coverage in Central Europe.

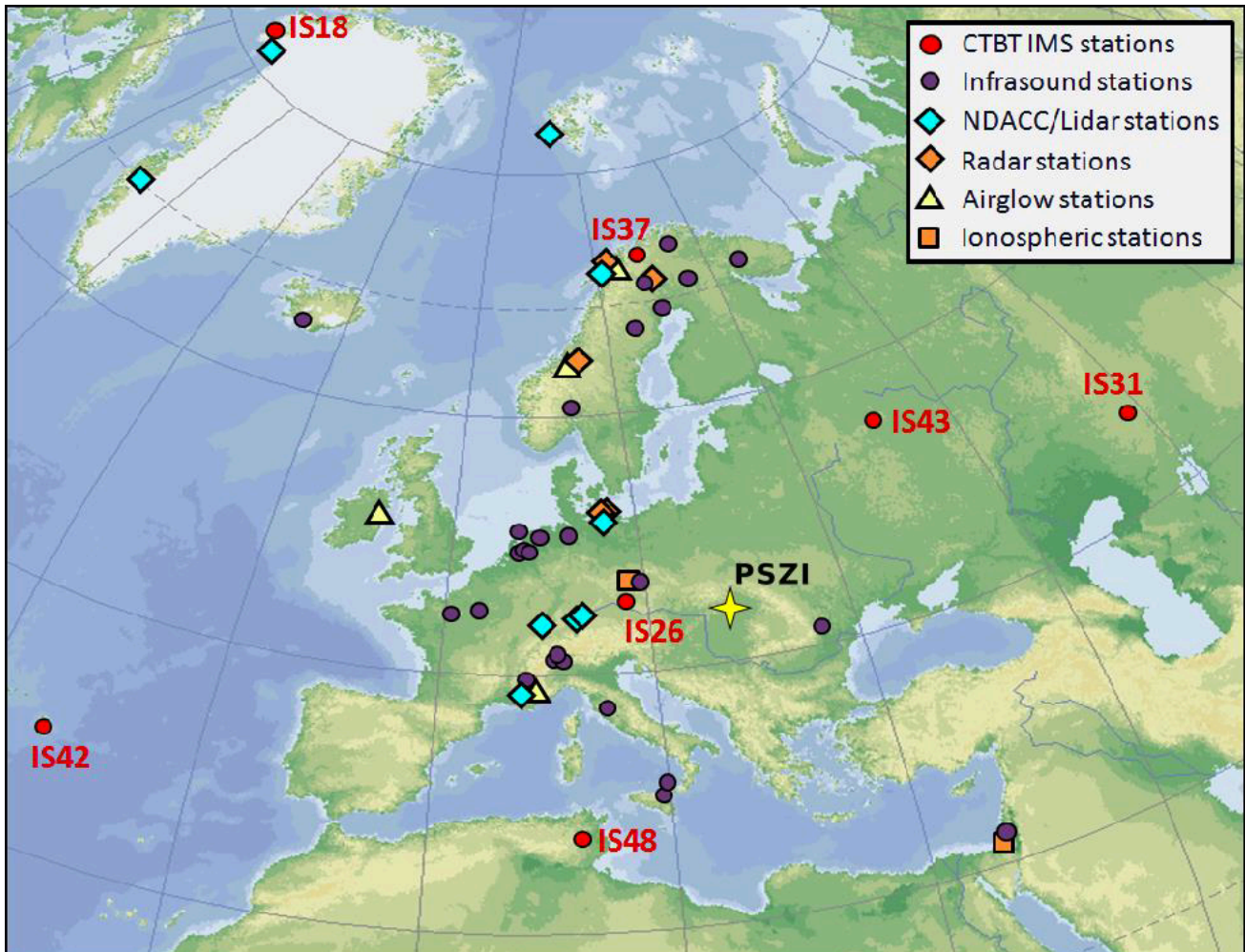


Figure 2. ARISE network (modified after <http://arise-project.eu>). The yellow star shows the location of PSZI array, red and indigo circles represent the IMS and European infrasound stations, respectively. PSZI closes a large gap in infrasound station coverage.

CEEIN

The MTA CSFK Kövesligethy Radó Seismological Observatory, Budapest, Hungary, the Institute of Atmospheric Physics, Czech Academy of Sciences, Prague, Czech Republic, the National Institute for Earth Physics, Bucharest, Romania and the Zentralanstalt für Meteorologie und Geodynamik, Vienna Austria have established the Central and Eastern European Infrasound Network (CEEIN) in 2018. Members of the CEEIN exchange data real time and collaborate in scientific research. **Table 1** shows the stations of the CEEIN.

Table 1. CEEIN stations

Country	Net	Station code	Lat	Lon	Aperture (km)	No. of elements	Date of installation	Comment
Hungary	HN	PSZI	47.92	19.89	0.25	4	2017.05.25.	co-located with seismometer
Romania	R1	IPLOR	45.8512	26.649	2.4	6	2009-2012	co-located with seismic array
Romania	R1	BURARI	47.6151	25.215	1.2	4	2016.07.27.	co-located with seismic array
Romania	R1	I67RO	46.6712	23.122	0.9	4	2016.09.29.	CTBTO mobile temporary array co-located with seismometer
Czech Republic	C9	PVCI	50.53	14.57	0.2	3	2014.04.13.	co-located with seismometer
Czech Republic	C9	WBCI	50.25	12.44	6	4	2016.09.28.	co-located with seismometer
Czech Republic	N/A	Ionospheric Doppler Sounder	50.03	14.46		5	2012.01	Complementary measurements to WBCI.
Austria		ZAMG	47.78	16.03	0.7	4	2018	mobile array

Data and Resources

The seismo-acoustic bulletin was compiled by the MTA CSFK Kövesligethy Radó Seismological Observatory combined with infrasound data from the Central and East European Infrasound Network (CEEIN), the Comprehensive Nuclear-Test-Ban Treaty Organization International Monitoring System infrasound stations, and seismic data from the permanent stations of the Hungarian National Seismological Network and stations in the Central and East European Earthquake Research Network (CE3RN) as well as data from other permanent and temporary networks in the region. **Figure 3** shows the infrasound and seismic stations contributing to the Hungarian Seismo-Acoustic Bulletin.

Members of the Central and East European Earthquake Infrasound Network (CEEIN) include the

- Czech Microbarograph Network, Institute of Atmospheric Physics, Czech Academy of Sciences, <https://doi.org/10.7914/SN/C9>
- Hungarian National Infrasound Network, MTA CSFK Kövesligethy Radó Seismological Observatory, <doi:10.14470/UA114590>
- Romanian Infrasound Network, National Institute for Earth Physics (NIEP), <https://doi.org/10.7914/SN/R1>
- Austrian Infrasound Network, Zentralanstalt für Meteorologie und Geodynamik.

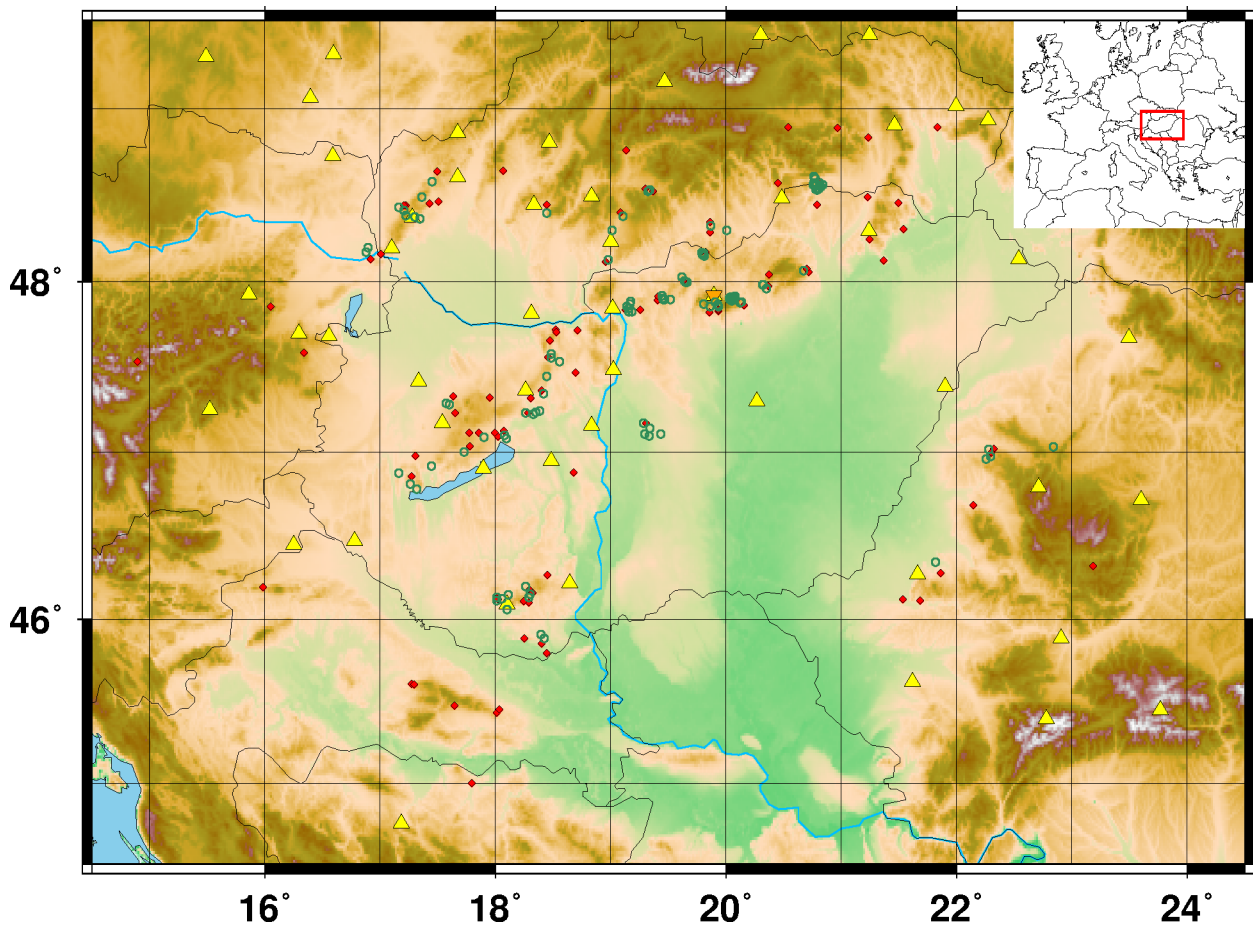


Figure 3. Infrasound (inverted orange triangles) and seismic stations (yellow triangles) contributing to the Hungarian Seismo-Acoustic Bulletin. Known quarry and mine locations are shown as red diamonds, green circles indicate the seismo-acoustic locations of quarry blasts.

Members of the Central and East European Earthquake Research Network (CE3RN, www.ce3rn.eu, doi:[10.7914/SN/C3](https://doi.org/10.7914/SN/C3)) include the

- Hungarian National Seismological Network (HNSN), Kövesligethy Radó Seismological Observatory MTA CSFK (Gráczer et al., 2018, doi:[10.14470/UH028726](https://doi.org/10.14470/UH028726)), Hungary
- Central Institute for Meteorology and Geodynamics (ZAMG), Austria
- University of Zagreb, Croatia
- National Institute for Earth Physics (NIEP, doi:[10.7914/SN/RO](https://doi.org/10.7914/SN/RO)), Romania
- Slovenian Environment Agency (ARSO, doi:[10.7914/SN/SL](https://doi.org/10.7914/SN/SL)), Slovenia
- National Network of Seismic Stations of Slovakia, Earth Science Institute of the Slovak Academy of Sciences (ESI SAS, doi:[10.14470/FX099882](https://doi.org/10.14470/FX099882))
- Carpathian Branch of the Institute of Geophysics, National Academy of Sciences of Ukraine (IGPH), Ukraine
- Institute of Physics of the Earth, Masaryk University Brno (IPE, doi:[10.7914/SN/D1](https://doi.org/10.7914/SN/D1)), Czech Republic
- Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (doi:[10.7914/SN/FV](https://doi.org/10.7914/SN/FV)), Italy
- University of Trieste, Italy
- Institute of GeoSciences, Energy, Water and Environment (IGEWE), Albania
- National Institute of Geophysics, Geodesy and Geography, Bulgaria

Other permanent and temporary networks include:

- Comprehensive Nuclear-Test-Ban Treaty Organization, International Monitoring System (CTBTO IMS, www.ctbto.org)
- GEOFON Seismic Network, Deutsches GeoForschungsZentrum ([doi:10.14470/TR560404](https://doi.org/10.14470/TR560404)),
- AlpArray Seismic Network (AASN) temporary network (Hetényi et al., 2018 [doi:10.12686/alparray/z3_2015](https://doi.org/10.12686/alparray/z3_2015))

For data acquisition *SeisComp3* (www.seiscomp3.org) and for infrasound data processing the *DTK-PMCC* (Cansi, 1995) are used. Both programs are found in the CTBTO NDC-in-a-Box software package. The seismo-acoustic and infrasound-only events are located with *iLoc* (Bondár et al., 2018), the successor of the International Seismological Centre (ISC) location algorithm (Bondár and Storchak, 2011; Bondár and McLaughlin, 2009). The *iLoc* locator, together with the RSTT global 3D velocity model (Myers et al., 2010) can be downloaded from the IRIS software depository, <https://seiscode.iris.washington.edu/projects/iloc>. Waveforms are collected in real-time at the GEOFON European Integrated Data Archive (EIDA) node (<https://geofon.gfz-potsdam.de/doi/network/HN>).

Overview of Infrasound Detections

The PSZI array detects continuous and transient infrasound signals from several different sources. These sources include microbaroms, quarry blasts and accidental explosions, thunderstorms and bolides. **Figure 4** shows that during winter time – from mid-September to April – microbaroms are continuously detectable from the North Atlantic Ocean. In the summer period signals are detected from South-East direction in the frequency range of 1-2 Hz, presumably originating from the Black sea. The station detects continuous high frequency noise from the Mátra Power Plant located 20 km to the south-east (138°) from PSZI. The station detected signals from the Etna eruption in late December 2018. **Figure 5** shows the azimuthal distribution of the detections in **Figure 4**.

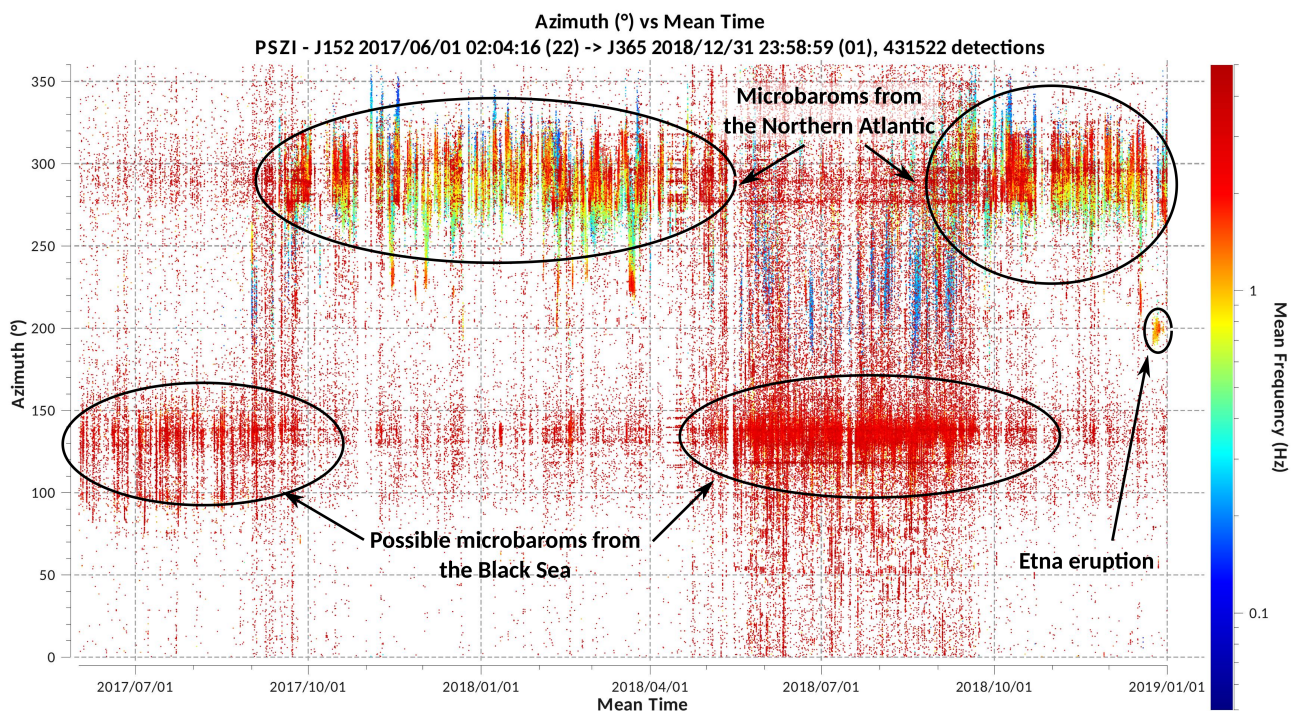


Figure 4. Infrasound detections of PSZI between 2017/06/01 and 2018/12/31. The detections were made by the PMCC method and are shown as a function of time and back-azimuth, color-coded by frequency. The figure was made by DTK-DIVA, part of the NDC-in-a-box software package.

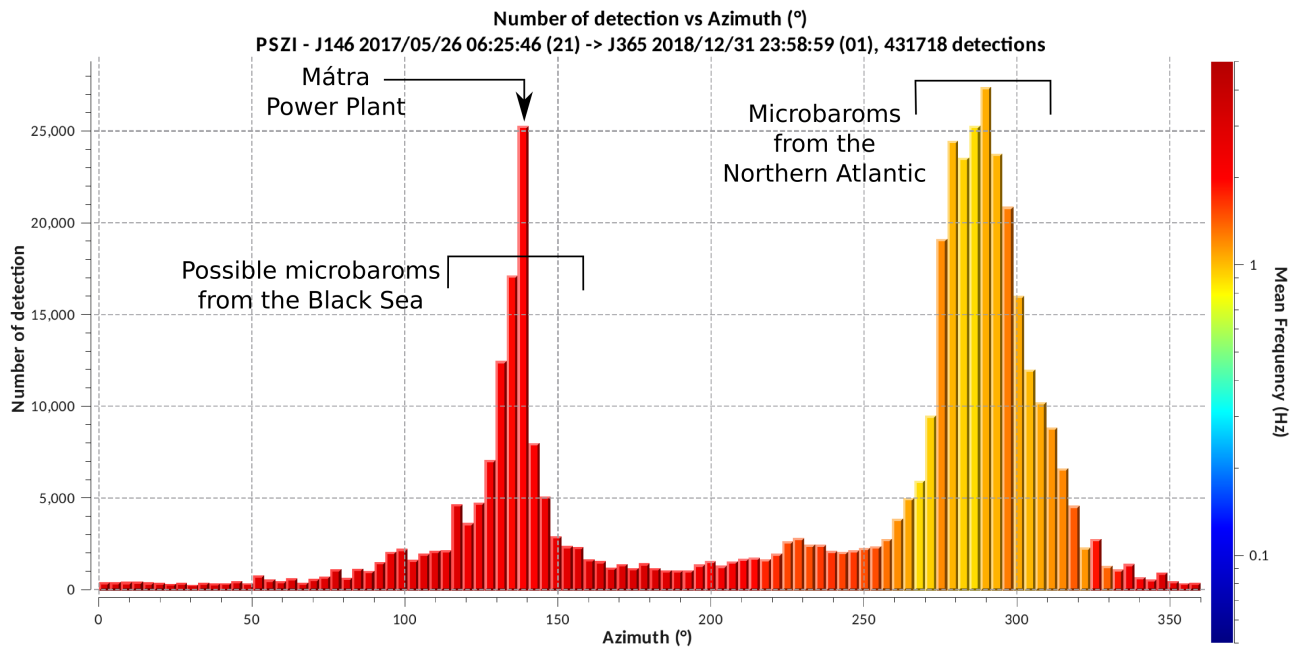


Figure 5. Distribution of PMCC detections as a function of source azimuth at PSZI between 2017/06/01 and 2018/12/31. The figure was made by DTK-DIVA, part of the NDC-in-a-box software package.

Seismo-Acoustic Events

Confirmed Quarry Blasts and Explosions in Hungary

Anthropogenic events constitute some 50% of the recorded seismicity in the region. Hence, it is important to discriminate explosions from natural earthquakes in order to study natural seismicity and produce reliable seismic hazard estimates.

Between the operational start date of the PSZI array (2017-06-01) and 2018-12-31 the Hungarian National Seismological Network recorded the seismic signals of more than 1200 explosions, most of them originating from known surface quarries in Hungary, Slovakia, Austria and Romania. Approximately 25% of these explosions were also recorded by the PSZI infrasound array.

Many, but not all, mines regularly send confirmation of their explosions to the MTA CSFK Kövesligethy Radó Seismological Observatory. These events serve as ground truth, and in the bulletin the author BUD_GT indicates the GT coordinates, while the author ILOC stands for the seismo-acoustic location of the events. The magnitude range of the events is between M0.5-2.5.

Figure 3 shows the locations of the quarries (red diamonds); green circles indicate the seismo-acoustic locations obtained with *iLoc*. Note that most seismo-acoustic locations are all within 5 km of the ground truth locations. **Figure 6** shows the hour-of-day distribution of the quarry blasts.

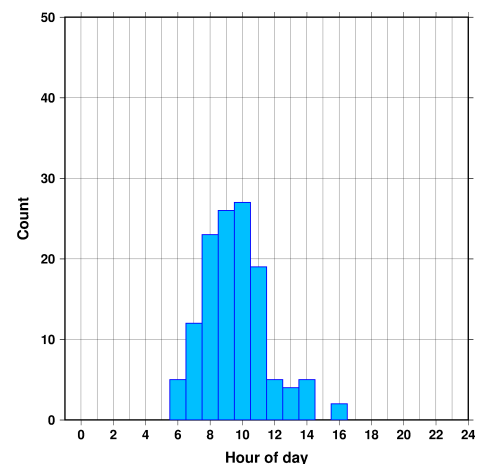


Figure 6. Hour of day of the seismo-acoustic event locations.

Figure 7 shows examples of PMCC detections and waveforms of the explosions.

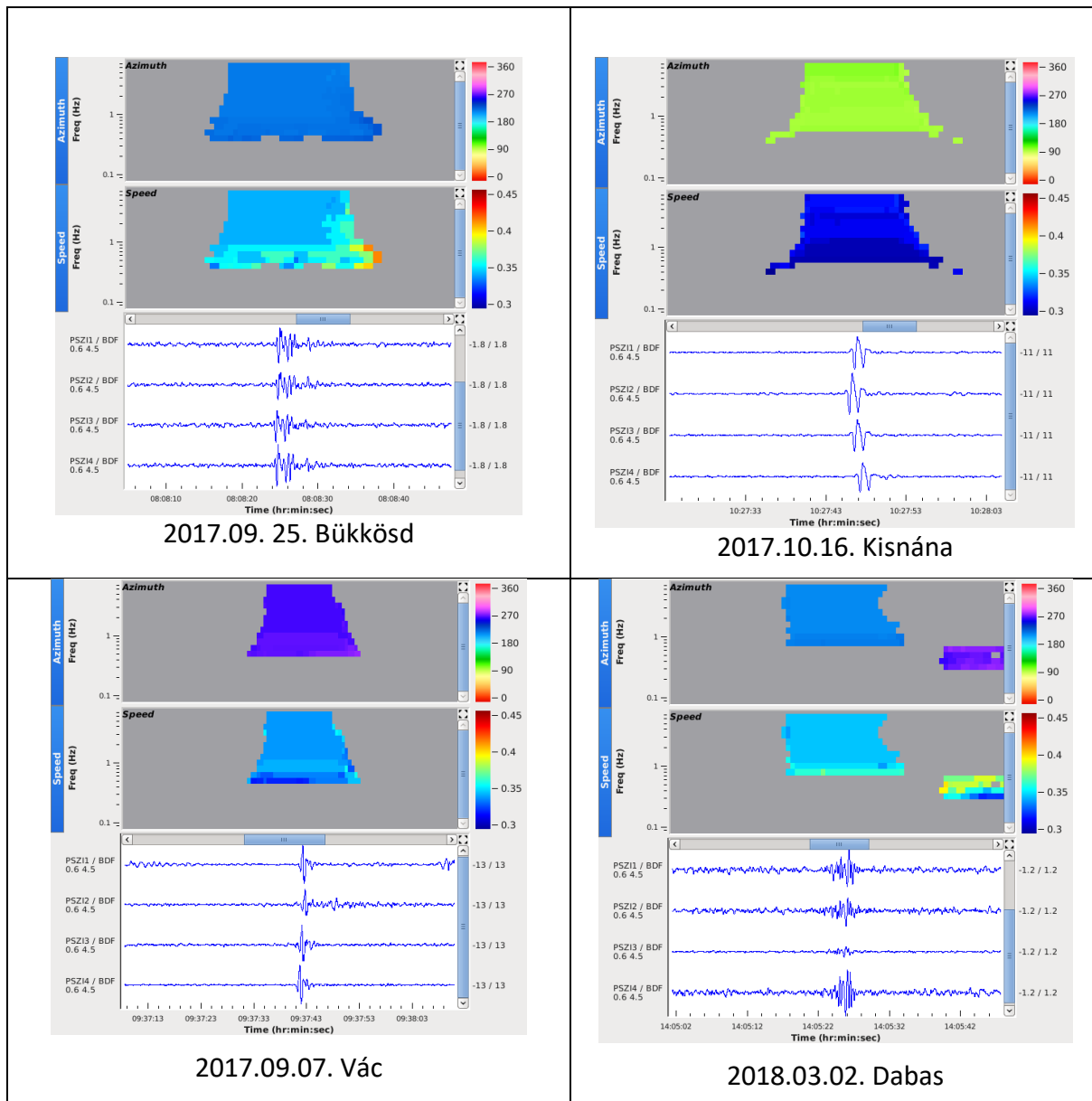


Figure 7. Infrasound waveforms (lower block) and PMCC detections (top and middle block) of explosions. PMCC detections are plotted as a function of time and frequency and are color-coded by back-azimuth (top) and apparent velocity (middle). The figures were made by DTK-PMCC, part of the NDC-in-a-box software package.

Ammunition Storage Explosions in Kalynivka, Ukraine, September 2017

Accidental successive explosions occurred between 26 and 27 September 2017 at a military ammunition depot in central Ukraine, near Kalynivka, in Vinnytska region. 7 event locations related to this deflagration were reported in the IDC LEB bulletins. Four of the CEEIN stations (located within the distance range of 300 to 1000 km from the blasts' site) have detected infrasound signals which could be associated to the Kalynivka explosions. The seismic signals generated by the explosion were recorded by several seismological stations in Ukraine and Romania. The seismic and infrasound detections combined with the IMS data were used to relocate the event with the *iLoc* location algorithm. **Figure 8** shows the regional station network and the locations of the explosions.



Figure 8. Left panel: Regional seismic and infrasound station that recorded the Kalynivka, Ukraine ammunition storage explosions. Right panel: Seismo-acoustic event locations. IDC REB locations and error ellipses are shown in blue, iLoc locations using both IMS and regional data are shown in red. Green rectangle indicates the ammunition storage site.

Explosion in Ingolstadt, Germany, September 1, 2018

On 1 September 2018 an explosion occurred in an oil refinery near Ingolstadt, Southern Germany. The explosion produced infrasound signals that were detected by 5 CEEIN stations. The event was relocated using seismic arrivals reported to the ISC (as of 2019-03-05) and infrasound detections from the CEEIN stations. **Figure 9** shows the regional station network and the locations of the explosion.

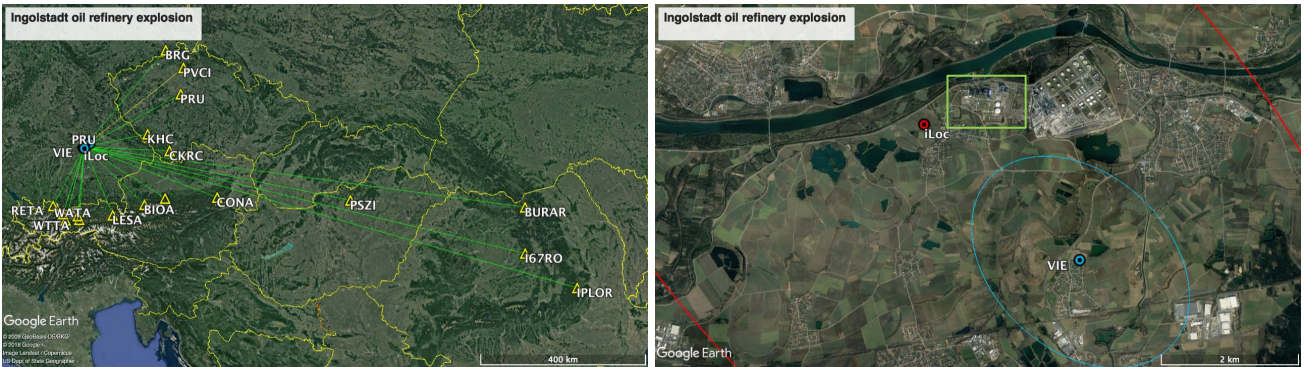


Figure 9. Left panel: Regional seismic and infrasound station that recorded the Ingolstadt, Germany oil refinery explosion. Right panel: Seismo-acoustic event locations. ZAMG, Austria location and error ellipse are shown in blue, the iLoc location is indicated in red. Green rectangle indicates the oil refinery site.

Infrasound-only Events

Bolide over Russia, June 21, 2018

On 21 June, 2018 a large bolide exploded over Western Russia. The event was detected by 10 IMS infrasound stations and 5 CEEIN stations. The event was relocated using IMS and CEEIN detections. **Figure 10** shows the infrasound station network and the location of the bolide explosion.

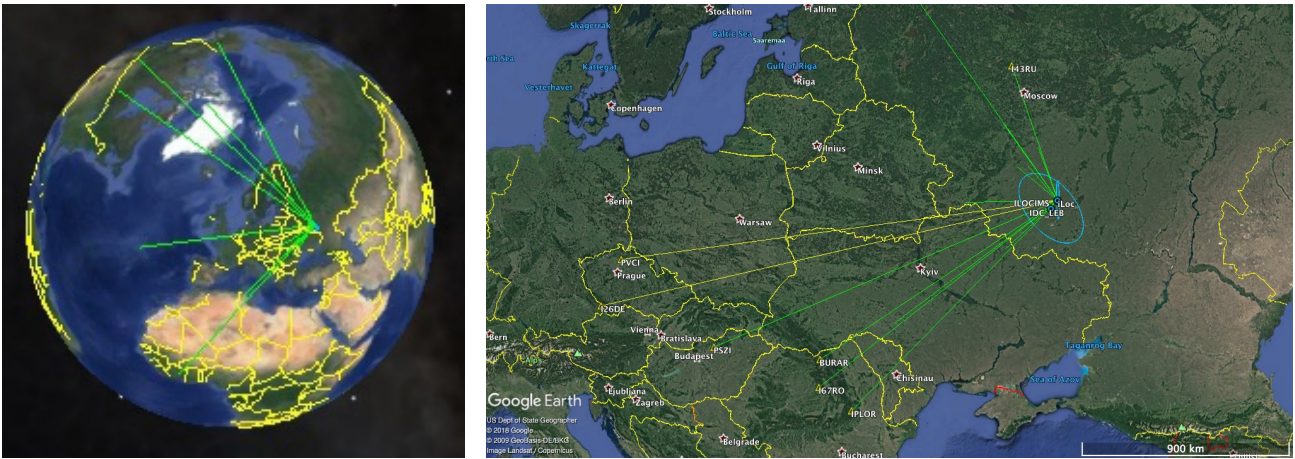


Figure 10. Left panel: Infrasound network that recorded the Russian fireball. Right panel: Event locations by the IDC and iLoc.

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Hungarian Seismo-Acoustic Bulletin

The Hungarian Seismo-Acoustic Bulletin is presented in International Seismic Format (ISF2).

BEGIN IMS2.0

DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2017rnr Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
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(GT info : GT2 explosion)																						
(Locality : Sejce_Vac)																						
2017/09/07	09:34:51.82	1.45	0.71	47.8265	19.1835	4.4	2.9	75	0.0f		9	5	200	0.11	0.71	kx	ILOC	1	ILOC			262
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.4	0.5	4 ILOC	1

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACH	L	
A270A	0.11	279.6	Pg	09:34:54.900	0.3					T__		184.2		___	ML	1.9	14982098	FDSN	Z3	00	BUD	iLoc	HHZ	HHZ	_
A270A	0.11	279.6	Lg	09:34:56.621	-0.1					T__				___		14982099	FDSN	Z3	00	BUD	iLoc	HHE	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
A336A	0.43	343.1	Pg	09:35:01.244	0.7					T__		9.7		___	ML	1.5	14982100	FDSN	Z3	00	BUD	iLoc	HHZ	HHZ	_
A336A	0.43	343.1	Lg	09:35:06.946	-0.1					T__				___		14982101	FDSN	Z3	00	BUD	iLoc	HH3	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									
PSZI	0.49	78.9	I	09:37:31.600	1.1	260.2	0.8			TA_				___		1	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	0.49	78.9	Pg	09:35:02.580	0.1					T__		3.9		___	ML	1.2	14982102	FDSN	GE	--	BUD	iLoc	HHZ	HHZ	_
(Reading ML: 1.2 magdef=1)																									
(Station ML: 1.2 magdef=1)																									
VYHS	0.71	340.9	Pg	09:35:06.125	-0.0					T__		0.9		___	ML	0.8	14982103	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.71	340.9	Lg	09:35:15.602	-1.1					T__				___		14982104	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 0.8 magdef=1)																									
(Station ML: 0.8 magdef=1)																									

Event bud2017snht Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2017/09/21	10:19:57.17			47.8650	20.1529				0.0		7	0	228	0.18	1.08	kx	BUD_GT	14981393	BUD				341
(GT info : GT2 explosion)																							
(Locality : Kisanana)																							
2017/09/21	10:19:57.85	1.21	0.57	47.8789	20.1227	4.2	1.0	104	0.0f		9	5	223	0.16	1.06	kx	ILOC	2	ILOC				338
(#PRIME)																							

Magnitude	Err	Nsta	Author	OrigID
ML	1.6	0.2	3 ILOC	2

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.16	284.5	Pg	10:20:01.726	-0.1					T__		30.1		___	ML	1.2	14982158	FDSN	GE	--	BUD	iLoc	HHZ	HHZ	_
PSZ	0.16	284.5	Lg	10:20:04.842	-0.2					T__				___		14982159	FDSN	GE	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.2 magdef=1)																									
(Station ML: 1.2 magdef=1)																									
PSZI	0.16	284.3	I	10:20:48.600	-0.4	103.6	-0.5			TA_				___		2	FDSN	HN	--	BUD	iLoc	BDF	???	_	
A336A	0.83	295.6	Pn	10:20:15.890	0.1					T__		5.9		___	ML	1.7	14982162	FDSN	Z3	00	BUD	iLoc	HHZ	HHZ	_
A336A	0.83	295.6	Sn	10:20:29.281	-0.4					T__				___		14982163	FDSN	Z3	00	BUD	iLoc	HH3	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
ABAH	0.86	60.5	Pg	10:20:15.416	0.5					T__		4.1		___	ML	1.6	14982160	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
ABAH	0.86	60.5	Lg	10:20:28.066	-1.0					T__				___		14982161	FDSN	HU	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
VYHS	1.06	306.0	Lg	10:20:35.220	0.6					T__				___		14982164	FDSN	SK	--	BUD	iLoc	HHN	???	_	

Event bud2017sula Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2017/09/25	07:54:20.00		0.67	45.9652	18.0598				0.0			0					kx BUD	30558237	KM			360
2017/09/25	07:54:20.00f		0.50	46.1138	18.0442	8.8	4.4	128	0.0f		6	3	271	0.05	2.20		kx ILOC	3	ILOC			318
(#PRIME)																						
(quarry blast, Bukkosd, Hungary)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.05	123.4	Pg	07:54:21.932	0.3					T__		28.2		___	ML	0.9	30558238	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
KOVH	0.05	123.4	Lg	07:54:23.035	-0.0					T__				___		30558239	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 0.9 magdef=1)																									
(Station ML: 0.9 magdef=0)																									
MORH	0.43	76.1	Pg	07:54:29.313	0.3					T__		0.7		___	ML	0.3	30558241	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	0.43	76.1	Lg	07:54:35.385	-0.6					T__				___		30558240	FDSN	HU	--	BUD	iLoc	BHE	???	_	
(Reading ML: 0.3 magdef=1)																									
(Station ML: 0.3 magdef=0)																									
PSZI	2.20	34.4	I	08:08:15.000	0.6	215.1	-0.6			TA_				___		3	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2017suwy Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2017/09/25	13:56:57.39	1.78	1.40	47.1344	19.4140	16.4	6.7	124	0.0		4	0	187	0.40	1.06		kx BUD	14961545	iLoc			297
2017/09/25	13:56:57.39f		1.42	47.1276	19.4349	15.8	4.9	110	0.0f		5	4	189	0.41	1.06		kx ILOC	4	ILOC			252
(#PRIME)																						
(bomb demolition, Dabas, Hungary)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.5	0.4	3 ILOC	4

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
A271A	0.41	274.0	Pg	13:57:06.292	0.1					T__		23.2		___	ML	1.8	14961547	FDSN	Z3	--	BUD	iLoc	HHZ	HHZ	_
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
PSZI	0.85	21.3	I	14:01:45.200	2.1	210.5	8.9			T__				___		4	FDSN	HN	--	BUD	iLoc	BDF	???	_	

PSZ 0.85 21.3 Pn 13:57:16.192 0.3 T__ 3.5 ___ ML 1.5 14961548 FDSN GE -- BUD iLoc BHZ BHZ _
 PSZ 0.85 21.3 Lg 13:57:27.787 -1.2 T__ ___ 14961549 FDSN GE -- BUD iLoc BHN ??? _
 (Reading ML: 1.5 magdef=1
 (Station ML: 1.5 magdef=1
 MORH 1.06 211.1 Pg 13:57:18.799 0.1 T__ 0.9 ___ ML 1.0 14961550 FDSN HU -- BUD iLoc BHZ BHZ _
 (Reading ML: 1.0 magdef=1
 (Station ML: 1.0 magdef=1

Event 611164563 Ukraine - Moldova - Southwestern Russia region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2017/09/26	19:02:31.05	3.94	99.99	49.4058	28.4999	33.0	28.8	17	0.0	5	0	304	1.38	34.43	uk	IDC	09201713					
2017/09/26	19:02:29.98	1.45	4.83	49.3822	28.4420	7.9	2.9	133	0.0f	15	9	123	1.06	34.47	uk	ILOC	1	ILOC				146

(#PRIME)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
NDNU	1.06	222.4	Lg	19:03:07.000	2.2					T__					52	FDSN	IR	--	BUD	iLoc	???	???	c	
HORU	1.33	263.5	Sn	19:03:16.400	-0.2					T__					53	FDSN	IR	--	BUD	iLoc	???	???	c	
AKASG	1.41	20.6	Pn	19:02:56.900	-0.4	202.2	1.0	13.90	0.6	TA_	3.5	0.33	___	ML	1.8	28453672	FDSN	IR	--	BUD	iLoc	???	???	c
AKASG	1.41	20.6	Lg	19:03:15.100	-1.7	199.7	-1.5	25.10	-7.5	TA_	4.8	0.33	___	ML	2.0	28453673	FDSN	IR	--	BUD	iLoc	???	???	c
(Reading ML: 2.0 magdef=1 (Station ML: 2.0 magdef=0)																								
BURAR	2.78	231.7	I	19:20:08.645	8.9	53.9	4.6			TA_					10	FDSN	IR	--	BUD	iLoc	???	???	c	
IPLOR	3.74	199.6	I	19:25:46.574	-8.7	21.5	3.2			TA_					24	FDSN	IR	--	BUD	iLoc	???	???	c	
PSZI	5.85	258.7	I	19:45:04.936	445.0	71.2	-1.1			_A_					1	FDSN	IR	--	BUD	iLoc	???	???	c	
I43RU	9.05	32.3	I	19:52:40.000	-999	217.8	-1.6	328.20	-30.5	_A_	0.1	0.73	___	i	0.0	28453675	FDSN	IR	--	BUD	iLoc	???	???	c
I31KZ	19.04	75.6	I	21:00:10.000	230.9	273.3	-5.1	329.20	-29.5	_A_						28453674	FDSN	IR	--	BUD	iLoc	???	???	c
I46RU	34.47	60.4	I	22:33:30.000	10.8	285.0	-0.9	331.40	-35.6	TA_						28453676	FDSN	IR	--	BUD	iLoc	???	???	c
HHC	56.46	64.6	P	19:12:22.000	8.5					___						47057069	FDSN	IR	--	BUD	iLoc	???	???	c

Event 611164564 Ukraine - Moldova - Southwestern Russia region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2017/09/26	19:43:43.83	3.96	99.99	49.4414	28.4631	54.6	32.6	112	0.0	5	0	305	1.35	34.43	uk	IDC	09201715					
2017/09/26	19:43:42.95	2.43	0.08	49.4485	28.4914	15.4	5.3	153	0.0f	11	7	123	1.34	34.41	uk	ILOC	2	ILOC				155

(#PRIME)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
AKASG	1.34	20.4	Pn	19:44:09.350	0.1	202.9	2.0	13.80	0.5	TA_	3.0	0.33	___	ML	1.7	28453790	FDSN	IR	--	BUD	iLoc	???	???	_
AKASG	1.34	20.4	Lg	19:44:27.255	-0.1	209.1	8.2	26.50	-6.0	TA_	4.1	0.33	___	ML	1.9	28453791	FDSN	IR	--	BUD	iLoc	???	???	_
BURAR	2.85	231.1	I	20:03:15.296	98.2	49.2	0.6			_A_					12	FDSN	IR	--	BUD	iLoc	???	???	_	
IPLOR	3.81	199.8	I	20:08:41.050	64.7	19.5	1.1			_A_					25	FDSN	IR	--	BUD	iLoc	???	???	_	
PSZI	5.90	258.2	I	20:20:54.043	108.8	71.2	-0.6			_A_					2	FDSN	IR	--	BUD	iLoc	???	???	_	
I43RU	8.97	32.4	I	20:33:54.926	-999	218.9	-0.5	329.90	-28.7	_A_	0.7	0.75	___	i	0.0	28453793	FDSN	IR	--	BUD	iLoc	???	???	_
I31KZ	18.99	75.8	I	21:38:30.000	75.0	274.3	-4.3	319.70	-39.0	_A_						28453792	FDSN	IR	--	BUD	iLoc	???	???	_
I46RU	34.41	60.5	I	23:14:10.000	0.1	283.9	-2.1	332.30	-34.7	TA_						28453794	FDSN	IR	--	BUD	iLoc	???	???	_

Event 611164565 Ukraine - Moldova - Southwestern Russia region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2017/09/26	19:59:27.97	3.45	99.99	49.4201	28.4961	30.6	27.4	179	0.0		9	0	157	1.37	34.42		uk IDC	09201716					
2017/09/26	19:59:27.24	1.17	1.52	49.3950	28.5557	12.2	4.1	137	0.0f		29	18	125	1.12	34.40		uk ILOC	3	ILOC			149	

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
mb	3.2	0.3	1 IDC	09201716
mbtmp	3.4	0.3	1 IDC	09201716

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
NDNU	1.12	224.8	Pn	19:59:50.700	0.2					T__						54	FDSN	IR	--	BUD	iLoc	???	???	_	
NDNU	1.12	224.8	Sn	20:00:08.200	-0.5					T__						55	FDSN	IR	--	BUD	iLoc	???	???	_	
AKASG	1.38	18.0	Pn	19:59:54.000	-0.1	203.3	4.8	13.80	0.5	TA_		21.9	0.33	___	ML	2.6	28453795	FDSN	IR	--	BUD	iLoc	???	???	_
AKASG	1.38	18.0	Lg	20:00:11.475	-1.4	199.5	1.0	24.70	-7.9	TA_		27.2	0.33	___	ML	2.7	28453796	FDSN	IR	--	BUD	iLoc	???	???	_
AKASG	1.38	18.0	Rg	20:00:19.000		202.1	3.6	35.60		___		2.4	0.25	___		0.0	28453797	FDSN	IR	--	BUD	iLoc	???	???	_
HORU	1.41	263.4	Pn	19:59:54.700	0.3					T__						56	FDSN	IR	--	BUD	iLoc	???	???	_	
HORU	1.41	263.4	Sn	20:00:16.200	0.6					T__						57	FDSN	IR	--	BUD	iLoc	???	???	_	
KSV	2.55	246.2	Pn	20:00:11.500	1.5					T__						58	FDSN	IR	--	BUD	iLoc	???	???	_	
KSV	2.55	246.2	Sn	20:00:45.600	2.6					T__						59	FDSN	IR	--	BUD	iLoc	???	???	_	
STNU	2.75	257.1	Pg	20:00:16.800	-1.9					T__						60	FDSN	IR	--	BUD	iLoc	???	???	_	
STNU	2.75	257.1	Sn	20:00:52.300	3.9					T__						61	FDSN	IR	--	BUD	iLoc	???	???	_	
BURAR	2.85	232.5	I	20:17:16.197	-5.2	50.0	0.0			TA_						14	FDSN	IR	--	BUD	iLoc	???	???	_	
IPLOR	3.77	200.7	I	20:24:03.619	56.7	14.3	-5.0			_A_						27	FDSN	IR	--	BUD	iLoc	???	???	_	
PSZI	5.93	258.8	I	20:39:30.948	272.8	74.2	1.8			_A_						6	FDSN	IR	--	BUD	iLoc	???	???	_	
I43RU	9.00	32.1	I	20:51:00.662	-999	219.2	0.2	327.70	-31.0	_A_		0.1	0.66	___i		0.0	28453805	FDSN	IR	--	BUD	iLoc	???	???	_
PVCI	9.09	282.5	I	21:04:45.120	657.6	90.9	-0.9			_A_						8	FDSN	IR	--	BUD	iLoc	???	???	_	
I26DE	9.75	272.4	I	21:05:09.926	445.5	80.9	-0.3	312.00	-46.7	_A_						___i	28453802	FDSN	IR	--	BUD	iLoc	???	???	_
FINES	12.16	354.3	Pn	20:02:18.179	1.1	167.2	-5.1	15.70	2.7	TA_						___	28453800	FDSN	IR	--	BUD	iLoc	???	???	_
HFS	13.72	327.2	Pn	20:02:38.482	0.1	127.6	-7.4	16.50	3.5	TA_		0.1	0.33	___		0.0	28453801	FDSN	IR	--	BUD	iLoc	???	???	_
I31KZ	18.96	75.7	I	21:51:30.000	-79.4	274.1	-4.3	329.00	-29.7	_A_		0.2	0.75	___i		0.0	28453803	FDSN	IR	--	BUD	iLoc	???	???	_
I48TN	19.54	233.2	I	22:09:18.088	781.4	43.3	3.3	306.50	-52.2	_A_						___i	28453807	FDSN	IR	--	BUD	iLoc	???	???	_
ARCES	20.26	356.9	P	20:04:02.792	-1.0	181.4	7.2	10.80	-0.1	TA_		1.3	1.05	___		0.0	28453798	FDSN	IR	--	BUD	iLoc	???	???	_
ARCES	20.26	356.9	AMB							___		1.3	1.05	___		0.0	28453799	FDSN	IR	--	BUD	iLoc	???	???	_
I37NO	20.33	349.7	I	22:13:45.000	762.9	166.8	5.8	277.70	-83.7	_A_						___i	28453804	FDSN	IR	--	BUD	iLoc	???	???	_
I46RU	34.40	60.5	I	23:31:56.912	126.5	284.4	-1.5	325.80	-41.2	_A_						___i	28453806	FDSN	IR	--	BUD	iLoc	???	???	_

Event 611164570 Ukraine - Moldova - Southwestern Russia region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2017/09/26	21:39:57.82	4.32	99.99	49.4701	28.5323	34.9	23.7	20	0.0		4	0	304	1.31	18.96		uk IDC	09201723					
2017/09/26	21:39:57.00	1.51	0.92	49.4200	28.5396	11.8	4.4	115	0.0f		12	7	124	1.36	18.97		uk ILOC	4	ILOC			168	

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
mb	3.2	0.3	1 IDC	09201716
mbtmp	3.4	0.3	1 IDC	09201716

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
AKASG	1.36	18.7	Pg	21:40:22.725	0.7	202.6	3.4	13.60	-4.5	TA_		3.0	0.33	___	ML	1.7	28454281	FDSN	IR	--	BUD	iLoc	???	???	_
AKASG	1.36	18.7	Lg	21:40:40.075	-1.9	200.0	0.8	30.90	-1.7	TA_		4.4	0.33	___	ML	1.9	28454282	FDSN	IR	--	BUD	iLoc	???	???	_
HORU	1.40	262.3	Pn	21:40:24.500	0.4					T__						62	FDSN	IR	--	BUD	iLoc	???	???	_	
HORU	1.40	262.3	Lg	21:40:42.700	-0.8					T__						63	FDSN	IR	--	BUD	iLoc	???	???	_	

KSV	2.55	245.6	Pg	21:41:18.700	34.1											64	FDSN	IR	--	BUD	iLoc	???	???	_			
BURAR	2.85	232.0	I	21:59:43.819	110.1	50.8	1.3									16	FDSN	IR	--	BUD	iLoc	???	???	_			
IPLOR	3.79	200.4	I	22:03:42.639	-1.6	19.5	0.5									28	FDSN	IR	--	BUD	iLoc	???	???	_			
PSZI	5.92	258.6	I	22:21:46.244	379.9	72.9	0.8									32	FDSN	IR	--	BUD	iLoc	???	???	_			
I43RU	8.98	32.2	I	22:30:20.000	-999	218.7	-0.4	327.90	-30.7						0.1	0.67	___i	0.0	28454284	FDSN	IR	--	BUD	iLoc	???	???	_
I31KZ	18.97	75.7	I	23:31:10.000	-999	274.7	-3.8	327.90	-30.8									28454283	FDSN	IR	--	BUD	iLoc	???	???	_	

Event 611164573 Ukraine - Moldova - Southwestern Russia region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2017/09/26	22:14:43.93	1.32	99.99	49.4972	28.6031	25.5	11.4	110	0.0		9	0	129	1.27	34.32	uk	IDC	09201727					
2017/09/26	22:14:42.86	1.02	1.28	49.4454	28.4847	9.6	5.3	131	0.0f		31	20	123	1.13	34.41	uk	ILOC	5	ILOC			139	

Magnitude	Err	Nsta	Author	OrigID
mb	2.9	0.3	1 IDC	09201727
mbtmp	3.2	0.1	3 IDC	09201727
ML	2.5	0.3	2 IDC	09201727
MS	3.6	0.3	1 IDC	09201727

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
NDNU	1.13	221.3	Pg	22:15:04.100	0.1					T__					65		FDSN	IR	--	BUD	iLoc	???	???	_	
NDNU	1.13	221.3	Sn	22:15:23.200	-1.2					T__					66		FDSN	IR	--	BUD	iLoc	???	???	_	
AKASG	1.34	20.5	Pg	22:15:08.051	0.4	201.2	0.2	13.60	-4.5	TA_		15.6	0.33	___	ML	2.4	28454327	FDSN	IR	--	BUD	iLoc	???	???	_
AKASG	1.34	20.5	Lg	22:15:25.682	-1.7	200.7	-0.3	24.60	-7.9	TA_		19.4	0.33	___	ML	2.5	28454328	FDSN	IR	--	BUD	iLoc	???	???	_
AKASG	1.34	20.5	Rg	22:15:33.363		202.1	1.1	35.40		___		68.9	1.04	___		0.0	28454329	FDSN	IR	--	BUD	iLoc	???	???	_
HORU	1.37	261.0	Pg	22:15:07.600	-0.9					T__					67		FDSN	IR	--	BUD	iLoc	???	???	_	
HORU	1.37	261.0	Lg	22:15:25.100	-3.2					T__					68		FDSN	IR	--	BUD	iLoc	???	???	_	
CHRU	2.05	236.8	Pn	22:15:19.500	0.8					T__					69		FDSN	IR	--	BUD	iLoc	???	???	_	
CHRU	2.05	236.8	Sn	22:15:45.000	-1.4					T__					70		FDSN	IR	--	BUD	iLoc	???	???	_	
KSV	2.52	244.7	Pg	22:15:28.800	-1.2					T__					71		FDSN	IR	--	BUD	iLoc	???	???	_	
KSV	2.52	244.7	Sn	22:15:59.800	1.7					T__					72		FDSN	IR	--	BUD	iLoc	???	???	_	
STNU	2.72	255.8	Pn	22:15:29.100	1.0					T__					73		FDSN	IR	--	BUD	iLoc	???	???	_	
STNU	2.72	255.8	Sn	22:16:06.200	3.0					T__					74		FDSN	IR	--	BUD	iLoc	???	???	_	
BURAR	2.84	231.1	I	22:34:00.355	85.3	49.1	0.4			_A_					19		FDSN	IR	--	BUD	iLoc	???	???	_	
MORS	3.02	265.8	Pg	22:15:41.200	2.0					T__					75		FDSN	IR	--	BUD	iLoc	???	???	_	
KWP	3.77	275.0	Pg	22:15:52.700	0.3					T__					76		FDSN	IR	--	BUD	iLoc	???	???	_	
IPLOR	3.80	199.7	I	22:39:23.562	49.0	18.9	0.5			_A_					29		FDSN	IR	--	BUD	iLoc	???	???	_	
MLR	4.31	204.5	Pn	22:15:52.945	2.5	117.7	95.1	20.70	7.0	T__		0.5	0.33	___	ML	2.4	28454339	FDSN	IR	--	BUD	iLoc	???	???	_
MLR	4.31	204.5	AMB							___		1.5	0.33	___		0.0	28454340	FDSN	IR	--	BUD	iLoc	???	???	_
PSZI	5.89	258.2	I	22:56:24.394	380.6	72.9	1.1			_A_					33		FDSN	IR	--	BUD	iLoc	???	???	_	
I43RU	8.98	32.4	I	23:06:43.676	-99.6	219.0	-0.4	325.30	-33.3	_A_		0.6	0.77	___i		0.0	28454337	FDSN	IR	--	BUD	iLoc	???	???	_
PVCI	9.03	282.2	I	23:19:05.680	622.7	89.7	-1.8			_A_					9		FDSN	IR	--	BUD	iLoc	???	???	_	
I26DE	9.70	272.1	I	23:21:30.000	527.3	78.7	-2.2	332.50	-26.2	_A_		0.1	6.87	___i		0.0	28454335	FDSN	IR	--	BUD	iLoc	???	???	_
FINES	12.10	354.5	Pn	22:17:31.528	-0.5	166.4	-6.1	14.30	1.3	TA_		0.1	0.33	___		0.0	28454332	FDSN	IR	--	BUD	iLoc	???	???	_
FINES	12.10	354.5	AMB							___		0.8	0.87	___		0.0	28454333	FDSN	IR	--	BUD	iLoc	???	???	_
HFS	13.65	327.2	Pn	22:17:54.075	1.0	136.5	1.4	12.20	-0.8	TA_		0.1	0.33	___		0.0	28454334	FDSN	IR	--	BUD	iLoc	???	???	_
I31KZ	19.00	75.8	I	23:57:10.000	-999	277.5	-1.1	327.00	-31.7	_A_		0.1	0.74	___i		0.0	28454336	FDSN	IR	--	BUD	iLoc	???	???	_
ARCES	20.20	357.0	P	22:19:17.556	-1.3	169.0	-5.4	14.70	3.8	TA_		0.5	0.80	___		0.0	28454330	FDSN	IR	--	BUD	iLoc	???	???	_
ARCES	20.20	357.0	AMB							___		0.5	0.80	___		0.0	28454331	FDSN	IR	--	BUD	iLoc	???	???	_
NRIK	34.17	32.8	LR	22:36:52.354		145.0	-120	39.00		___		93.9	19.74	___	MS	3.5	28454341	FDSN	IR	--	BUD	iLoc	???	???	_
I46RU	34.41	60.5	I	01:40:00.000	-999	284.7	-1.3	330.60	-36.4	_A_					___i		28454338	FDSN	IR	--	BUD	iLoc	???	???	_

Event 611164586 Ukraine - Moldova - Southwestern Russia region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2017/09/27	02:31:06.64	3.58	99.99	49.4298	28.5576	31.6	26.2	3	0.0	8	0	196	1.34	34.38		uk IDC	09201745					
2017/09/27	02:31:05.78	1.17	0.52	49.4723	28.4985	11.3	3.9	135	0.0f	22	13	123	1.15	34.39		uk ILOC	6	ILOC				144

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
mbtmp	3.5	0.3	1 IDC	09201745
ML	2.5	0.3	1 IDC	09201745

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
NDNU	1.15	220.7	Lg	02:31:44.900	1.3					T__					77	FDSN	IR	--	BUD	iLoc	???	???		
AKASG	1.32	20.5	Pn	02:31:31.697	-0.1	201.7	0.6	13.60	0.3	TA_		14.4	0.33		ML	2.4	28454894	FDSN	IR	--	BUD	iLoc	???	???
AKASG	1.32	20.5	Lg	02:31:49.600	0.2	199.0	-2.1	25.30	-7.2	TA_		23.7	0.33		ML	2.6	28454895	FDSN	IR	--	BUD	iLoc	???	???
AKASG	1.32	20.5	Rg	02:31:57.859		32.0	-169	20.50		___		1.6	0.24			0.0	28454896	FDSN	IR	--	BUD	iLoc	???	???
HORU	1.38	260.0	Pg	02:31:31.700	-0.0					T__					78	FDSN	IR	--	BUD	iLoc	???	???		
HORU	1.38	260.0	Lg	02:31:51.400	-0.3					T__					79	FDSN	IR	--	BUD	iLoc	???	???		
CHRU	2.07	236.3	Pg	02:31:43.800	-1.4					T__					80	FDSN	IR	--	BUD	iLoc	???	???		
CHRU	2.07	236.3	Sn	02:32:09.500	-0.4					T__					81	FDSN	IR	--	BUD	iLoc	???	???		
KSV	2.54	244.2	Pg	02:31:53.600	0.3					T__					82	FDSN	IR	--	BUD	iLoc	???	???		
KSV	2.54	244.2	Sn	02:32:21.000	-0.5					T__					83	FDSN	IR	--	BUD	iLoc	???	???		
BURAR	2.87	230.8	I	02:49:07.730	0.9	46.6	-1.7			TA_					20	FDSN	IR	--	BUD	iLoc	???	???		
BURAR	2.87	230.8	I	02:50:40.094	93.3	48.2	-0.1			_A_					21	FDSN	IR	--	BUD	iLoc	???	???		
IPLOR	3.83	199.7	I	02:56:30.072	81.7	19.8	1.5			_A_					30	FDSN	IR	--	BUD	iLoc	???	???		
PSZI	5.91	258.0	I	03:08:49.694	139.0	72.9	1.3			_A_					34	FDSN	IR	--	BUD	iLoc	???	???		
I43RU	8.95	32.5	I	03:22:36.618	-999	218.1	-1.4	326.00	-32.5	_A_		0.4	0.73		___i	0.0	28454902	FDSN	IR	--	BUD	iLoc	???	???
I26DE	9.71	271.9	I	03:40:50.000	701.5	79.9	-0.9	265.10	-93.6	_A_		0.2	5.92		___i	0.0	28454899	FDSN	IR	--	BUD	iLoc	???	???
FINES	12.08	354.4	Pn	02:33:55.153	0.6	170.3	-2.1	15.00	2.0	TA_		0.1	0.33		___	0.0	28454897	FDSN	IR	--	BUD	iLoc	???	???
FINES	12.08	354.4	AMB							___		1.1	0.91		___	0.0	28454898	FDSN	IR	--	BUD	iLoc	???	???
I31KZ	18.98	75.9	I	04:26:30.000	115.8	274.5	-4.1	328.10	-30.6	_A_		0.1	1.15		___i	0.0	28454900	FDSN	IR	--	BUD	iLoc	???	???
I37NO	20.25	349.7	I	04:47:31.627	921.3	169.0	7.9	290.20	-70.5	___					___i		28454901	FDSN	IR	--	BUD	iLoc	???	???
I46RU	34.39	60.5	I	06:04:55.588	208.7	285.4	-0.7	326.20	-40.8	_A_					___i		28454903	FDSN	IR	--	BUD	iLoc	???	???

Event 611164596 Ukraine - Moldova - Southwestern Russia region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2017/09/27	05:08:33.37	3.89	99.99	49.4259	28.5622	32.3	28.8	16	0.0	6	0	196	1.35	34.38		uk IDC	09201757					
2017/09/27	05:08:32.08	1.63	0.33	49.4108	28.6232	13.9	7.2	136	0.0f	14	10	125	1.16	34.35		uk ILOC	7	ILOC				150

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
mbtmp	3.5	0.3	1 IDC	09201745
ML	2.5	0.3	1 IDC	09201745

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
NDNU	1.16	225.9	Sn	05:09:13.900	-0.6					T__					84	FDSN	IR	--	BUD	iLoc	???	???		
AKASG	1.35	16.5	Pn	05:08:58.754	0.2	201.5	4.6	13.60	0.3	TA_		6.0	0.33		ML	2.0	28455393	FDSN	IR	--	BUD	iLoc	???	???
AKASG	1.35	16.5	Lg	05:09:16.559	-0.2	197.5	0.6	24.30	-8.3	TA_		9.4	0.33		ML	2.2	28455394	FDSN	IR	--	BUD	iLoc	???	???
AKASG	1.35	16.5	Rg	05:09:23.315		197.4	0.5	25.90		___		4.9	0.46		___	0.0	28455395	FDSN	IR	--	BUD	iLoc	???	???

HORU	1.45	263.0	Pn	05:09:00.600	0.7	T__	---	85	FDSN	IR	--	BUD	iLoc	???	???	_								
HORU	1.45	263.0	Lg	05:09:19.900	-0.5	T__	---	86	FDSN	IR	--	BUD	iLoc	???	???	_								
BURAR	2.89	232.8	I	05:29:13.318	150.6	50.4	0.1	_A_	---	23	FDSN	IR	--	BUD	iLoc	???	???	_						
IPLOR	3.80	201.3	I	05:34:56.530	153.1	19.6	-0.2	_A_	---	31	FDSN	IR	--	BUD	iLoc	???	???	_						
PSZI	5.97	258.8	I	05:51:43.767	447.5	66.6	-5.7	_A_	---	35	FDSN	IR	--	BUD	iLoc	???	???	_						
I43RU	8.96	31.9	I	05:59:10.000	-999	218.9	0.1	319.80	-38.7	_A_	---	i	28455398	FDSN	IR	--	BUD	iLoc	???	???	_			
I26DE	9.79	272.4	I	06:17:50.000	645.2	76.3	-4.8	254.00	-104.7	_A_	0.1	2.58	---	i	0.0	28455396	FDSN	IR	--	BUD	iLoc	???	???	_
I31KZ	18.92	75.7	I	07:06:40.000	302.4	275.2	-3.2	324.80	-33.9	_A_	0.1	1.18	---	i	0.0	28455397	FDSN	IR	--	BUD	iLoc	???	???	_
I46RU	34.35	60.5	I	08:40:50.000	131.7	284.1	-1.8	324.40	-42.6	_A_	---	i	28455399	FDSN	IR	--	BUD	iLoc	???	???	_			

Event bud2017sypr Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2017/09/27	14:44:25.03	0.99	0.90	48.4037	17.2570	4.5	3.4	112	0.0	0.0	24	0	70	0.03	1.64	kx	BUD	14961657	iLoc			120
2017/09/27	14:44:25.67	0.20	0.14	48.4142	17.2370	2.1	0.8	123	0.0	0.0	14	0	2	0.95	1.64	kx	VIE	14900782	ISC			360
2017/09/27	14:44:25.36	0.97	3.49	48.4130	17.2077	3.4	3.1	162	0.0f	0.0	26	15	67	0.06	1.86	kx	ILOC	1	ILOC			93

(#PRIME)

(quarry blast, Rohoznik, Slovakia)

Magnitude	Err	Nsta	Author	OrigID
ML	1.8	0.2	13 ILOC	1

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
MODS	0.06	130.3	Pg	14:44:26.931	-0.3					T__						14961659	FDSN	SK	--	BUD	iLoc	HHZ	???	_	
MODS	0.06	130.3	Lg	14:44:28.861	0.0					T__						14961660	FDSN	SK	--	BUD	iLoc	HHN	???	_	
ZST	0.23	198.0	Pg	14:44:30.156	-0.3					T__	497.2			---	ML	2.6	14961661	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
ZST	0.23	198.0	Lg	14:44:34.449	0.2					T__				---		14961662	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 2.6 magdef=1)																									
(Station ML: 2.6 magdef=0)																									
A334A	0.36	58.2	Pg	14:44:33.028	0.1					T__	49.6			---	ML	2.0	14961663	FDSN	Z3	00	BUD	iLoc	HHZ	HHZ	_
(Reading ML: 2.0 magdef=1)																									
(Station ML: 2.0 magdef=1)																									
A001A	0.52	307.8	Pg	14:44:37.605	2.0					T__	8.3			---	ML	1.7	14961665	FDSN	Z3	00	BUD	iLoc	HHZ	HHZ	_
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
JAVC	0.54	34.3	Pg	14:44:36.001	-0.5					T__	11.3			---	ML	1.9	14961664	FDSN	CZ	--	BUD	iLoc	BHZ	BHZ	_
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
A335A	0.75	87.0	Pg	14:44:39.840	-0.6					T__	24.3			---	ML	2.3	14961666	FDSN	Z3	00	BUD	iLoc	HHZ	HHZ	_
(Reading ML: 2.3 magdef=1)																									
(Station ML: 2.3 magdef=0)																									
KRUC	0.84	320.7	Pg	14:44:41.777	0.4					T__	5.8			---	ML	1.7	14961668	FDSN	CZ	--	BUD	iLoc	BHZ	BHZ	_
KRUC	0.84	320.7	Lg	14:44:55.722	2.3					T__				---		14961669	FDSN	CZ	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
SOP	0.85	211.1	Pn	14:44:43.383	-0.3					T__	5.5			---	ML	1.7	14961667	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
RONA	0.94	220.9	Pg	14:44:43.969	-0.2					T__	0.4	0.08	---	ML	0.6	14961670	FDSN	IR	--	ISC	ISC	???	???	_	
RONA	0.94	220.9	Lg	14:44:57.131	-0.8					T__	7.8	0.24	---	ML	1.9	14961671	FDSN	IR	--	ISC	ISC	???	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									

VRAC	0.98	335.9	Pn	14:44:45.318	-0.2	T__	3.9	___	ML	1.6	14961672	FDSN	CZ	--	BUD	iLoc	BHZ	BHZ	_	
VRAC	0.98	335.9	Sn	14:45:00.566	-0.4	T__		___			14961673	FDSN	CZ	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.6 magdef=1)																				
(Station ML: 1.6 magdef=0)																				
CONA	1.02	242.2	Pg	14:44:45.766	0.1	T__	0.6	0.20	___	ML	0.8	14961676	FDSN	IR	--	ISC	ISC	???	???	_
(Reading ML: 0.8 magdef=0)																				
CONA	1.02	242.2	Pn	14:44:46.102	-0.2	T__	6.0		___	ML	1.8	14961674	FDSN	OE	--	BUD	iLoc	BHZ	BHZ	_
(Reading ML: 1.8 magdef=1)																				
CONA	1.02	242.2	Lg	14:45:00.448	-0.3	T__	6.0	0.26	___	ML	1.8	14961677	FDSN	IR	--	ISC	ISC	???	???	_
(Reading ML: 1.8 magdef=0)																				
CONA	1.02	242.2	Sn	14:45:03.136	0.6	T__			___		14961675	FDSN	OE	--	BUD	iLoc	BHN	???	_	
(Station ML: 1.8 magdef=1)																				
VYHS	1.09	85.1	Pg	14:44:45.942	-1.1	T__	0.9		___	ML	1.1	14961678	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
(Reading ML: 1.1 magdef=1)																				
(Station ML: 1.1 magdef=0)																				
MORC	1.38	9.0	Pg	14:44:51.815	0.1	T__	4.3		___	ML	1.9	14961679	FDSN	CZ	--	BUD	iLoc	BHZ	BHZ	_
MORC	1.38	9.0	Lg	14:45:07.653	-2.5	T__			___		14961680	FDSN	CZ	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.9 magdef=1)																				
(Station ML: 1.9 magdef=1)																				
ARSA	1.63	224.9	Pg	14:44:57.000	0.1	T__	0.8	0.28	___	ML	1.3	14961681	FDSN	IR	--	ISC	ISC	???	???	_
ARSA	1.63	224.9	Lg	14:45:20.039	0.6	T__	1.9	0.30	___	ML	1.7	14961682	FDSN	IR	--	ISC	ISC	???	???	_
(Reading ML: 1.7 magdef=1)																				
(Station ML: 1.7 magdef=1)																				
PSZI	1.86	104.4	I	14:56:20.200	16.2	288.4	2.0				130	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2017taav Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2017/09/28	09:36:07.50			47.8285	19.9317				0.0		6	0	251	0.09	0.99	kx	BUD_GT	14981399	BUD			283
(GT info : GT2 explosion)																						
(Locality : Gyongyossolymos-II)																						
2017/09/28	09:36:07.79	1.38	1.02	47.8616	19.9285	5.4	0.4	157	0.0f		8	5	248	0.06	0.98	kx	ILOC	1	ILOC			280
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.7	0.2	3 ILOC	1

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZI	0.06	337.3	I	09:36:25.600	-1.8	160.3	3.0			TA_				___		100	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	0.06	338.0	Pg	09:36:09.749	-0.0					T__		156.4		___	ML	1.7	14982188	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
KECS	0.73	30.7	Lg	09:36:33.843	0.5					T__				___		14982189	FDSN	SK	--	BUD	iLoc	EHN	???	_	
VYHS	0.97	311.3	Pn	09:36:27.567	-0.1					T__		0.6		___	ML	0.8	14982190	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.97	311.3	Lg	09:36:42.261	0.8					T__				___		14982191	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 0.8 magdef=1)																									
(Station ML: 0.8 magdef=1)																									
ABAH	0.98	63.2	Pn	09:36:28.128	0.1					T__		5.6		___	ML	1.8	14982192	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
ABAH	0.98	63.2	Lg	09:36:42.270	-1.0					T__				___		14982193	FDSN	HU	--	BUD	iLoc	HHE	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									

Event bud2017tjbh Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2017/10/03	08:02:50.08		1.02	47.8987	20.0893				0.0		8	0	184	0.13	1.35	kx	BUD_GT	14981401	BUD			223
(GT info : GT2 explosion)																						
(Locality : Recsk)																						
2017/10/03	08:02:49.43	1.16	0.70	47.9001	20.0690	4.4	0.7	98	0.0f		10	6	184	0.12	1.34	kx	ILOC	1	ILOC			221
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.8	0.2	3 ILOC	1

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.12	278.9	Pg	08:02:52.903	0.3					T__		136.2		___	ML	1.8	14982196	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.12	278.9	Lg	08:02:55.803	0.6					T__				___		14982197	FDSN	GE	--	BUD	iLoc	BHZ	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
PSZI	0.12	278.6	I	08:03:28.000	0.2	96.9	-1.6			TA_				___		180	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.65	25.4	Lg	08:03:13.027	0.7					T__				___		14982198	FDSN	SK	--	BUD	iLoc	EHE	???	_	
ABAH	0.88	62.8	Pn	08:03:08.186	-0.0					T__		8.6		___	ML	1.9	14982199	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
ABAH	0.88	62.8	Sn	08:03:22.283	-0.7					T__				___		14982200	FDSN	HU	--	BUD	iLoc	HHE	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
VYHS	1.02	306.2	Pn	08:03:10.111	0.1					T__		0.9		___	ML	1.0	14982201	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	1.02	306.2	Lg	08:03:23.489	-1.3					T__				___		14982202	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=1)																									
CSSK	1.34	247.0	Lg	08:03:36.140	0.1					T__				___		14982203	FDSN	HU	--	BUD	iLoc	HHE	???	_	

Event bud2017ubji Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2017/10/13	08:33:46.02			47.8355	19.1270				0.0		11	0	197	0.07	1.41	kx	BUD_GT	14981403	BUD			289
(GT info : GT2 explosion)																						
(Locality : Sejce-Vac)																						
2017/10/13	08:33:46.30	1.10	3.07	47.8547	19.1404	3.8	2.9	78	0.0f		12	6	180	0.08	1.40	kx	ILOC	5	ILOC			233
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.9	0.4	5 ILOC	5

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
A270A	0.08	263.4	Pg	08:33:49.581	1.2					T__		249.7		___	ML	1.9	14982206	FDSN	Z3	00	BUD	iLoc	HHZ	HHZ	_
A270A	0.08	263.4	Lg	08:33:51.389	1.2					T__				___		14982207	FDSN	Z3	00	BUD	iLoc	HHE	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
A336A	0.39	346.0	Pg	08:33:55.748	1.4					T__		14.9		___	ML	1.6	14982208	FDSN	Z3	00	BUD	iLoc	HHZ	HHZ	_
A336A	0.39	346.0	Lg	08:34:02.121	1.8					T__				___		14982209	FDSN	Z3	00	BUD	iLoc	HHZ	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
PSZI	0.51	82.6	I	08:36:28.000	-5.1	258.6	-4.6			TA_				___		5	FDSN	HN	--	BUD	iLoc	BDF	???	_	

PSZ	0.51	82.6	Pg	08:33:58.919	1.5	T__	5.8	___	ML	1.5	14982210	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.51	82.6	Lg	08:34:06.593	0.8	T__		___			14982211	FDSN	GE	--	BUD	iLoc	BHN	???	_
(Reading ML: 1.5 magdef=1)																			
(Station ML: 1.5 magdef=0)																			
VYHS	0.67	342.5		08:34:01.966		___	1.2	___		0.0	14982212	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.67	342.5	Lg	08:34:11.037	1.1	T__		___			14982213	FDSN	SK	--	BUD	iLoc	HHN	???	_
A332A	1.05	334.9	Pn	08:34:07.770	0.4	T__	102.0	___	ML	3.1	14982214	FDSN	Z3	00	BUD	iLoc	HHZ	HHZ	_
(Reading ML: 3.1 magdef=1)																			
(Station ML: 3.1 magdef=0)																			
JAVC	1.40	316.3	Pn	08:34:12.976	0.4	T__	8.7	___	ML	2.2	14982215	FDSN	CZ	--	BUD	iLoc	BHZ	BHZ	_
JAVC	1.40	316.3	Sn	08:34:25.710	-6.9	T__		___			14982216	FDSN	CZ	--	BUD	iLoc	BHN	???	_
(Reading ML: 2.2 magdef=1)																			
(Station ML: 2.2 magdef=1)																			

Event bud2017udgk Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2017/10/14	09:21:46.61			46.1765	18.2926				0.0	0.0	4	0	281	0.26	0.36	kx	BUD_GT	30891202	BUD			
(GT info : GT2 explosion)																						
(Locality : Komlo)																						
2017/10/14	09:21:46.61f		1.42	46.0744	18.3372	7.6	4.0	137	0.0f		6	3	218	0.17	2.13	kx	ILOC	6	ILOC			332
(#PRIME)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.17	274.9	Pg	09:21:51.626	1.1					T__		34.0		___	ML	1.3	30891203	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
KOVH	0.17	274.9	Lg	09:21:54.473	0.7					T__				___		30891204	FDSN	HU	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=0)																									
MORH	0.26	56.5	Pg	09:21:53.633	1.3					T__		7.3		___	ML	0.9	30891205	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	0.26	56.5	Lg	09:21:57.728	1.0					T__				___		30891206	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 0.9 magdef=1)																									
(Station ML: 0.9 magdef=0)																									
PSZI	2.13	29.4	I	09:35:10.070	-1.9	210.7	0.1			TA_				___		6	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2017upxi Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2017/10/21	07:32:24.73			48.0061	19.6978				0.0		6	0	172	0.16	1.07	kx	BUD_GT	14981407	BUD				222
(GT info : GT2 explosion)																							
(Locality : Nagyloc)																							
2017/10/21	07:32:24.59		1.33	5.90	48.0285	19.6189	3.7	1.3	121	0.0f	8	5	175	0.22	1.12	kx	ILOC	1	ILOC				191
(#PRIME)																							

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZI	0.22	120.9	I	07:33:20.800	-13.1	297.3	-3.8			TA_				___		10	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	0.22	120.7	Pg	07:32:30.771	1.1					T__		30.1		___	ML	1.4	14982246	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.22	120.7	Lg	07:32:34.926	1.2					T__				___		14982247	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=0)																									
A336A	0.46	296.5	Pg	07:32:33.580	-0.5					T__		9.4		___	ML	1.6	14982248	FDSN	Z3	00	BUD	iLoc	HHZ	HHZ	_
A336A	0.46	296.5	Lg	07:32:40.515	-0.5					T__				___		14982249	FDSN	Z3	00	BUD	iLoc	HHZ	???	_	

(Reading ML: 1.6 magdef=1
 (Station ML: 1.6 magdef=0

VYHS	0.70	312.0	Lg	07:32:48.844	-0.3	T__	---	14982250	FDSN	SK	--	BUD	iLoc	HHN	???	_
ABAH	1.12	75.5	Sn	07:33:03.939	-0.3	T__	---	14982251	FDSN	HU	--	BUD	iLoc	HHN	???	_

Event bud2017vtij Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2017/11/06	10:03:45.75			47.8285	19.9317				0.0		12	0	210	0.09	0.99	kx	BUD_GT	14981413	BUD			242
(GT info : GT2 explosion)																						
(locality : Gyongyossolymos-II)																						
2017/11/06	10:03:46.36	1.32	1.52	47.8546	19.9360	5.0	0.4	155	0.0f		14	7	206	0.07	0.98	kx	ILOC	2	ILOC			239
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.2	1.3	3 ILOC	2

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZI	0.07	335.7	I	10:04:04.600	-4.1	158.0	2.3			TA_				---	101	FDSN	HN	--	BUD	iLoc	BDF	???	_		
PSZ	0.07	336.4	Pg	10:03:48.400	-0.1					T__		2.7		---	ML	-0.1	14982268	FDSN	IR	--	ISC	ISC	???	???	_
(Reading ML: -0.1 magdef=0																									
PSZ	0.07	336.4	Pg	10:03:48.616	0.1					T__		279.7		---	ML	1.9	14982270	FDSN	GE	--	BUD	iLoc	HHZ	HHZ	_
(Reading ML: 1.9 magdef=0																									
PSZ	0.07	336.4	Lg	10:03:50.500	0.1					T__		2.7		---	ML	-0.1	14982269	FDSN	IR	--	ISC	ISC	???	???	_
(Reading ML: -0.1 magdef=1																									
PSZ	0.07	336.4	Lg	10:03:50.874	0.5					T__				---		14982271	FDSN	GE	--	BUD	iLoc	HHN	???	_	
(Station ML: -0.1 magdef=1																									
A270A	0.62	269.5	Lg	10:04:08.364	-0.4					T__				---		14982272	FDSN	Z3	00	BUD	iLoc	HHN	???	_	
KECS	0.73	30.1	Lg	10:04:12.540	0.5					T__				---		14982273	FDSN	SK	--	BUD	iLoc	EHN	???	_	
A336A	0.73	301.4	Lg	10:04:11.648	-0.5					T__				---		14982274	FDSN	Z3	00	BUD	iLoc	HH3	???	_	
VYHS	0.98	311.4	Pg	10:04:06.300	0.4					T__		0.0		---		0.0	14982277	FDSN	IR	--	ISC	ISC	???	???	_
VYHS	0.98	311.4	Pn	10:04:06.811	0.4					T__		1.5		---	ML	1.2	14982278	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.98	311.4	Lg	10:04:20.233	-0.1					T__				---		14982279	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.2 magdef=1																									
(Station ML: 1.2 magdef=1																									
ABAH	0.98	62.7	Pg	10:04:05.929	0.2					T__		10.9		---	ML	2.1	14982275	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
ABAH	0.98	62.7	Lg	10:04:19.055	-2.8					T__				---		14982276	FDSN	HU	--	BUD	iLoc	HHN	???	_	
(Reading ML: 2.1 magdef=1																									
(Station ML: 2.1 magdef=1																									

Event bud2017vyoy Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2017/11/09	07:04:20.48			47.8987	20.0893				0.0		10	0	254	0.13	1.32	kx	BUD_GT	14981415	BUD			296
(GT info : GT2 explosion)																						
(locality : Recsk)																						
2017/11/09	07:04:20.73	1.23	1.65	47.9143	20.0796	4.6	0.8	92	0.0f		12	6	246	0.12	1.30	kx	ILOC	2	ILOC			289
(#PRIME)																						

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.12	271.9	Pg	07:04:24.300	0.3					T__		0.9		---	ML	-0.4	14982282	FDSN	IR	--	ISC	ISC	???	???	_

(Reading ML: -0.4 magdef=0
 PSZ 0.12 271.9 Pg 07:04:24.516 0.5 T__ 93.9 ___ ML 1.6 14982284 FDSN GE -- BUD iLoc BHZ BHZ _
 PSZ 0.12 271.9 Lg 07:04:26.801 0.1 T__ ___ 14982285 FDSN GE -- BUD iLoc BHE ??? _
 (Reading ML: 1.6 magdef=0
 PSZ 0.12 271.9 Lg 07:04:27.200 0.5 T__ 0.9 ___ ML -0.4 14982283 FDSN IR -- ISC ISC ??? ??? _
 (Reading ML: -0.4 magdef=1
 (Station ML: -0.4 magdef=0
 PSZI 0.13 271.7 I 07:04:57.200 -3.8 96.6 5.0 TA_ ___ 181 FDSN HN -- BUD iLoc BDF ??? _
 KECS 0.63 25.4 Lg 07:04:41.300 -1.7 T__ ___ 14982286 FDSN IR -- ISC ISC ??? ??? _
 KECS 0.63 25.4 Lg 07:04:43.904 0.9 T__ ___ 14982287 FDSN SK -- BUD iLoc EHE ??? _
 A336A 0.79 294.2 Sn 07:04:52.081 0.6 T__ ___ 14982288 FDSN Z3 00 BUD iLoc HHZ ??? _
 VYHS 1.01 305.4 Pn 07:04:41.827 0.5 T__ 1.9 ___ ML 1.3 14982290 FDSN SK -- BUD iLoc HHZ HHZ _
 (Reading ML: 1.3 magdef=1
 VYHS 1.01 305.4 Lg 07:04:55.300 -0.7 T__ 0.0 ___ 0.0 14982289 FDSN IR -- ISC ISC ??? ??? _
 (Station ML: 1.3 magdef=0
 LANS 1.30 342.0 Sn 07:05:02.800 -2.2 T__ ___ 14982291 FDSN IR -- ISC ISC ??? ??? _

Event bud2017waum Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2017/11/10	12:08:19.00			46.1254	18.0152				0.0				0				kx BUD_GT	32523182	BUD			36
(GT info : GT2 explosion)																						
(locality : Bukkosd)																						
2017/11/10	12:08:19.00f		1.51	46.1130	18.1166	10.5	3.5	128	0.0f		6	3	188	0.03	2.18		kx ILOC	7	ILOC			319
(#PRIME)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.03	205.1	Pg	12:08:19.796	-0.4					T__		119.4		___	ML	1.5	32523183	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
KOVH	0.03	205.1	Lg	12:08:20.834	-0.6					T__				___		32523184	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=0)																									
MORH	0.38	74.3	Pg	12:08:26.963	-0.1					T__		1.8		___	ML	0.6	32523186	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	0.38	74.3	Lg	12:08:33.506	0.1					T__				___		32523185	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 0.6 magdef=1)																									
(Station ML: 0.6 magdef=0)																									
PSZI	2.18	33.3	I	12:21:59.800	-2.9	210.2	-4.4			TA_				___		7	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2017wbbk Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2017/11/15	13:51:50.10		1.38	47.8987	20.0893				0.0		10	0	148	0.13	1.95		kx BUD_GT	14981419	BUD			216
(locality : Recsk)																						
(GT info : GT2 explosion)																						
2017/11/15	13:51:50.99	1.12	1.85	47.8999	20.0745	4.3	0.8	98	0.0f		12	8	147	0.12	1.95		kx ILOC	3	ILOC			215
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
ML	2.0	0.2	4 ILOC	3

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.12	278.7	Pg	13:51:54.145	-0.1					T__		186.8		___	ML	1.9	14982306	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_

PSZ	0.12	278.7	Lg	13:51:57.006	0.1	T__										14982307	FDSN	GE	--	BUD	iLoc	BHN	???	_		
(Reading ML: 1.9 magdef=1)																										
(Station ML: 1.9 magdef=1)																										
PSZI	0.12	278.5	I	13:52:26.600	-4.0	96.0	-2.3	TA_								182	FDSN	HN	--	BUD	iLoc	BDF	???	_		
KECS	0.65	25.1	Lg	13:52:13.187	-0.6			T__								14982308	FDSN	SK	--	BUD	iLoc	EHN	???	_		
A336A	0.79	295.2	Pg	13:52:06.662	-0.4			T__	19.7							ML	2.2	14982309	FDSN	Z3	00	BUD	iLoc	HHZ	HHZ	_
(Reading ML: 2.2 magdef=1)																										
(Station ML: 2.2 magdef=1)																										
ABAH	0.88	62.7	Pn	13:52:09.320	-0.4			T__	11.9							ML	2.1	14982310	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
ABAH	0.88	62.7	Lg	13:52:20.979	-1.9			T__									14982311	FDSN	HU	--	BUD	iLoc	HHE	???	_	
(Reading ML: 2.1 magdef=1)																										
(Station ML: 2.1 magdef=1)																										
VYHS	1.02	306.1	Pg	13:52:11.348	-0.1			T__	1.6							ML	1.3	14982312	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	1.02	306.1	Lg	13:52:25.057	-1.4			T__										14982313	FDSN	SK	--	BUD	iLoc	HHN	???	_
(Reading ML: 1.3 magdef=1)																										
(Station ML: 1.3 magdef=1)																										
NIE	1.53	5.5	Lg	13:52:42.317	0.5			T__										14982314	FDSN	PL	--	BUD	iLoc	BHE	???	_
MORH	1.95	210.7	Sn	13:52:53.184	3.0			T__										14982315	FDSN	HU	--	BUD	iLoc	BHN	???	_

Event bud2017wnmc Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2017/11/17	10:42:16.09			46.1765	18.2926	9.5	5.5	150	0.0		7	0	159	0.16	1.50	kx	BUD_GT	14972306	iLoc			281	
(GT info : GT2 explosion)																							
(locality : Komlo)																							
2017/11/17	10:42:16.54	1.15	0.79	46.1510	18.2986	7.1	3.6	140	0.0f		9	5	134	0.15	2.08	kx	ILOC	8	ILOC			178	
(#PRIME)																							

Magnitude	Err	Nsta	Author	OrigID
ML	1.4	0.6	3 ILOC	8

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.15	245.6	Pg	10:42:20.645	0.4					T__		46.9			ML	1.4	14972308	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
KOVH	0.15	245.6	Lg	10:42:23.081	-0.1					T__						14972309	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									
MORH	0.25	75.0	Pg	10:42:22.506	0.4					T__		10.0			ML	1.0	14972310	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	0.25	75.0	Lg	10:42:26.652	0.2					T__						14972311	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=1)																									
BEHE	1.10	287.4	Lg	10:42:55.697	0.2					T__						14972312	FDSN	HU	--	BUD	iLoc	BHE	???	_	
BLY	1.61	209.6	Pn	10:42:45.477	-0.1					T__		10.6			ML	2.4	14972313	FDSN	MN	--	BUD	iLoc	BHZ	BHZ	_
BLY	1.61	209.6	Sn	10:43:07.006	-0.9					T__						14972314	FDSN	MN	--	BUD	iLoc	BHE	???	_	
(Reading ML: 2.4 magdef=1)																									
(Station ML: 2.4 magdef=1)																									
PSZI	2.08	31.1	I	10:55:19.600	-1.6	206.9	-5.4			TA_						8	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2017wtac Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2017/11/20	11:27:45.58	1.30	0.68	47.9431	19.4661	9.3	4.4	13	0.0		9	0	145	0.29	1.52	kx	BUD	14973385	iLoc			167

2017/11/20 11:27:45.68 1.21 0.71 47.9191 19.4419 3.7 1.8 88 0.0f 11 7 150 0.29 1.49 kx ILOC 4 ILOC 165
 (quarry blast, Bercel, Hungary)
 (#PRIME)

Magnitude Err Nsta Author OrigID
 ML 1.7 0.6 3 ILOC 4

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
A270A	0.29	255.6	Lg	11:27:57.459	0.6					T__						14973389	FDSN	Z3	00	BUD	iLoc	HHE	???	_	
PSZI	0.30	90.1	I	11:29:25.000	1.2	268.4	-2.0			TA_						183	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	0.30	90.0	Pg	11:27:52.616	0.0					T__		32.6		___	ML	1.7	14973387	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.30	90.0	Lg	11:27:57.602	-0.3					T__						14973388	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.7 magdef=1 (Station ML: 1.7 magdef=1)																									
A336A	0.43	316.8	Pg	11:27:55.203	0.6					T__		75.5		___	ML	2.4	14973390	FDSN	Z3	00	BUD	iLoc	HHZ	HHZ	_
A336A	0.43	316.8	Lg	11:28:01.368	0.3					T__						14973391	FDSN	Z3	00	BUD	iLoc	HHZ	???	_	
(Reading ML: 2.4 magdef=1 (Station ML: 2.4 magdef=1)																									
VYHS	0.70	325.1	Pg	11:27:59.541	-0.4					T__		2.3		___	ML	1.3	14973392	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.70	325.1	Lg	11:28:09.304	-1.1					T__						14973393	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.3 magdef=1 (Station ML: 1.3 magdef=1)																									
ABAH	1.26	71.9	Sn	11:28:29.385	0.4					T__						14973394	FDSN	HU	--	BUD	iLoc	HHN	???	_	
MPLH	1.49	240.5	Sn	11:28:33.609	-0.4					T__						14973395	FDSN	HU	--	BUD	iLoc	BHE	???	_	

Event bud2017yjaw Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2017/12/13	11:31:22.00		1.24	45.8510	18.3990				0.0			0					kx BUD	33534987	KM			360
2017/12/13	11:31:23.08	3.42	0.14	45.9073	18.3938	23.5	7.7	1	0.0f		5	3	282	0.27	2.26		kx ILOC	9	ILOC			357

(#PRIME)
 (quarry blast, Nagyharsany, Hungary)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.27	311.6	Pg	11:31:29.132	-0.0					T__		6.6		___	ML	0.9	33534988	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
KOVH	0.27	311.6	Lg	11:31:34.048	0.1					T__						33534989	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 0.9 magdef=1 (Station ML: 0.9 magdef=0)																									
MORH	0.35	29.4	Pg	11:31:30.793	0.1					T__		1.9		___	ML	0.6	33534991	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	0.35	29.4	Lg	11:31:36.472	-0.1					T__						33534990	FDSN	HU	--	BUD	iLoc	BHE	???	_	
(Reading ML: 0.6 magdef=1 (Station ML: 0.6 magdef=0)																									
PSZI	2.26	26.5	I	11:44:15.400	-83.1	206.7	-0.9			_A_						11	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2017ytxl Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2017/12/19	10:17:43.84	3.01	0.34	48.5364	20.8263	24.9	7.8	11	0.0		4	0	234	0.23	0.88		kx BUD	14977496	iLoc			328
2017/12/19	10:17:43.39	1.83	0.49	48.5630	20.8398	5.8	4.7	19	0.0f		6	4	243	0.25	0.90		kx ILOC	2	ILOC			333

(#PRIME)
 (quarry blast, Dvorniky-Vcelare, Slovakia)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KECS	0.25	251.4	Pg	10:17:48.543	0.0					T__		88.5		___	ML	1.9	14977498	FDSN	SK	--	BUD	iLoc	EHZ	EHZ	_
KECS	0.25	251.4	Lg	10:17:52.698	0.2					T__				___		14977499	FDSN	SK	--	BUD	iLoc	EHN	???	_	
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=0)																									
ABAH	0.38	134.9	Lg	10:17:57.891	0.2					T__				___		14977500	FDSN	HU	--	BUD	iLoc	HHN	???	_	
PSZ	0.90	224.8	Lg	10:18:15.964	-0.4					T__				___		14977501	FDSN	GE	--	BUD	iLoc	BHE	???	_	
PSZI	0.90	224.8	I	10:22:49.800	0.7	43.9	-0.2			TA_				___		11	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2017yvol Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2017/12/20	08:01:16.43	1.31	0.65	47.0962	17.9342	7.4	6.3	88	0.0		8	0	114	0.20	1.01	kx	BUD	14977852	iLoc			210		
2017/12/20	08:01:16.29	1.29	1.75	47.0866	17.9002	5.4	4.1	138	0.0f		10	7	112	0.19	1.59	kx	ILOC	2	ILOC			219		
(#PRIME) (quarry blast, Liter, Hungary)																								

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
TIH	0.19	181.5	Lg	08:01:24.903	0.9					T__				___		14977854	FDSN	HU	--	BUD	iLoc	HHE	???	_	
MPLH	0.26	288.9	Lg	08:01:26.635	-0.1					T__				___		14977855	FDSN	HU	--	BUD	iLoc	BHE	???	_	
CSKK	0.37	41.5	Pg	08:01:24.376	0.2					T__		112.2		___	ML	2.4	14977856	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
CSKK	0.37	41.5	Lg	08:01:29.246	-1.0					T__				___		14977857	FDSN	HU	--	BUD	iLoc	HHN	???	_	
(Reading ML: 2.4 magdef=1 Station ML: 2.4 magdef=0)																									
A267A	0.42	109.2	Lg	08:01:30.981	-0.9					T__				___		14977858	FDSN	Z3	00	BUD	iLoc	HHE	???	_	
KOVH	1.01	172.1	Lg	08:01:52.016	-0.0					T__				___		14977861	FDSN	HU	--	BUD	iLoc	BHE	???	_	
MORH	1.01	149.3	Pn	08:01:36.853	0.1					T__		1.2		___	ML	1.1	14977859	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	1.01	149.3	Lg	08:01:50.887	-0.9					T__				___		14977860	FDSN	HU	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.1 magdef=1 Station ML: 1.1 magdef=0)																									
PSZI	1.59	57.7	I	08:11:02.800	4.2	234.9	-4.2			TA_				___		131	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2017yvto Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2017/12/20	10:35:55.03	0.95	0.87	48.5255	20.7953	5.2	3.4	157	0.0		20	0	97	0.21	1.30	kx	BUD	14977870	iLoc			129		
2017/12/20	10:35:55.19	0.94	1.40	48.5383	20.8038	3.7	2.9	155	0.0f		22	12	95	0.22	1.31	kx	ILOC	3	ILOC			115		
(#PRIME) (quarry blast, Dvorniky-Vcelare, Slovakia)																								

Magnitude	Err	Nsta	Author	OrigID
ML	1.8	0.3	8 ILOC	3

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KECS	0.22	255.5	Pg	10:35:59.571	-0.2					T__		222.9		___	ML	2.3	14977872	FDSN	SK	--	BUD	iLoc	EHE	EHZ	_
KECS	0.22	255.5	Lg	10:36:03.539	0.3					T__				___		14977873	FDSN	SK	--	BUD	iLoc	EHE	???	_	
(Reading ML: 2.3 magdef=1 Station ML: 2.3 magdef=0)																									
ABAH	0.38	129.7	Pg	10:36:02.360	-0.6					T__		10.3		___	ML	1.4	14977874	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
ABAH	0.38	129.7	Lg	10:36:10.078	0.5					T__				___		14977875	FDSN	HU	--	BUD	iLoc	HHE	???	_	


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(Reading ML: 1.4 magdef=1
(Station ML: 1.4 magdef=1
CRVS 0.57 49.8 Pg 10:36:06.716 0.6 T__ 2.1 ___ ML 1.1 14977876 FDSN SK -- BUD iLoc HHZ HHZ _
CRVS 0.57 49.8 Lg 10:36:15.064 -0.4 T__ ___ 14977877 FDSN SK -- BUD iLoc HHE ??? _
(Reading ML: 1.1 magdef=1
(Station ML: 1.1 magdef=0
PSZ 0.87 224.8 Pg 10:36:13.827 0.3 T__ 8.1 ___ ML 1.9 14977878 FDSN GE -- BUD iLoc BHZ BHZ _
PSZ 0.87 224.8 Lg 10:36:26.595 -0.4 T__ ___ 14977879 FDSN GE -- BUD iLoc BHN ??? _
(Reading ML: 1.9 magdef=1
(Station ML: 1.9 magdef=1
PSZI 0.87 224.8 I 10:40:53.000 4.9 43.6 -0.5 TA_ ___ 12 FDSN HN -- BUD iLoc BDF ??? _
MASL 0.92 58.5 Pn 10:36:15.624 0.8 T__ ___ 14977880 FDSN SK -- BUD iLoc EHZ ??? _
MASL 0.92 58.5 Sn 10:36:29.064 -1.3 T__ ___ 14977881 FDSN SK -- BUD iLoc EHE ??? _
STHS 0.93 18.1 Pg 10:36:13.226 0.9 T__ 7.9 ___ ML 1.9 14977882 FDSN SK -- BUD iLoc EHZ EHZ _
STHS 0.93 18.1 Lg 10:36:25.605 -0.7 T__ ___ 14977883 FDSN SK -- BUD iLoc EHZ ??? _
(Reading ML: 1.9 magdef=1
(Station ML: 1.9 magdef=1
NIE 0.94 339.5 Pn 10:36:15.831 0.8 T__ 4.8 ___ ML 1.7 14977884 FDSN PL -- BUD iLoc BHZ BHZ _
NIE 0.94 339.5 Lg 10:36:26.008 -0.5 T__ ___ 14977885 FDSN PL -- BUD iLoc BHE ??? _
(Reading ML: 1.7 magdef=1
(Station ML: 1.7 magdef=1
KOLS 1.05 67.3 Lg 10:36:32.583 0.5 T__ ___ 14977886 FDSN SK -- BUD iLoc HHN ??? _
TRPA 1.23 108.8 Sn 10:36:37.077 -1.0 T__ ___ 14977887 FDSN HU -- BUD iLoc BHN ??? _
A336A 1.24 256.4 Pn 10:36:19.636 0.7 T__ 9.1 ___ ML 2.1 14977888 FDSN Z3 00 BUD iLoc HHZ HHZ _
A336A 1.24 256.4 Sn 10:36:37.348 -0.2 T__ ___ 14977889 FDSN Z3 00 BUD iLoc HH3 ??? _
(Reading ML: 2.1 magdef=1
(Station ML: 2.1 magdef=1
VYHS 1.31 268.8 Pn 10:36:20.271 0.3 T__ 1.9 ___ ML 1.5 14977890 FDSN SK -- BUD iLoc HHZ HHZ _
VYHS 1.31 268.8 Sn 10:36:37.241 -2.3 T__ ___ 14977891 FDSN SK -- BUD iLoc HHN ??? _
(Reading ML: 1.5 magdef=1
(Station ML: 1.5 magdef=1

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Event bud2017yxmu Slovakia

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Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2017/12/21 09:26:32.43 1.22 0.74 48.5439 20.8001 34.5 4.9 153 5.0 7 0 165 0.22 1.24 kx BUD 14978085 iLoc 195
2017/12/21 09:26:31.78 1.15 0.67 48.5738 20.8131 5.4 4.0 151 0.0f 9 6 163 0.24 1.26 kx ILOC 4 ILOC 171
(#PRIME)
(quarry blast, Dvorniky-Vcelare, Slovakia)

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Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude ArrID Agy Deploy Ln Auth Rep PCh Ach L
KECS 0.24 247.5 Pg 09:26:36.499 -0.2 T__ 68.5 ___ ML 1.8 14978087 FDSN SK -- BUD iLoc EHE EHZ _
KECS 0.24 247.5 Lg 09:26:41.123 0.7 T__ ___ 14978088 FDSN SK -- BUD iLoc EHE ??? _
(Reading ML: 1.8 magdef=1
(Station ML: 1.8 magdef=0
CRVS 0.54 52.3 Pg 09:26:42.743 0.6 T__ 2.5 ___ ML 1.2 14978089 FDSN SK -- BUD iLoc HHZ HHZ _
(Reading ML: 1.2 magdef=1
(Station ML: 1.2 magdef=0
MASL 0.90 60.3 Pn 09:26:51.079 0.0 T__ ___ 14978091 FDSN SK -- BUD iLoc EHZ ??? _
MASL 0.90 60.3 Sn 09:27:05.100 -1.3 T__ ___ 14978092 FDSN SK -- BUD iLoc EHN ??? _
PSZ 0.90 223.5 Lg 09:27:05.132 0.5 T__ ___ 14978090 FDSN GE -- BUD iLoc BHN ??? _
PSZI 0.90 223.5 I 09:31:35.800 0.0 44.0 1.2 TA_ ___ 13 FDSN HN -- BUD iLoc BDF ??? _

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NIE	0.91	338.4	Lg	09:26:52.421	-9.6	---	---	14978093	FDSN	PL	--	BUD	iLoc	BHZ	???	_
A336A	1.26	254.9	Lg	09:27:15.344	0.1	T__	---	14978094	FDSN	Z3	00	BUD	iLoc	HH3	???	_

Event bud2018atfe Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/01/11	12:12:14.91	0.38	0.56	47.5600	18.4573				0.0	0.0	9	0	107	0.23	1.32	kx	BUD_GT	34503762	KM			360
(GT info : GT2 explosion)																						
(locality : Tatabanya)																						
2018/01/11	12:12:12.97	1.10	0.62	47.5551	18.4814	6.6	4.5	97	0.0f		10	7	106	0.24	1.35	kx	ILOC	5	ILOC			149
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.7	0.5	4 ILOC	5

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
CSKK	0.24	218.0	Pg	12:12:18.358	-0.0					T__		268.0		---	ML	2.4	34503763	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
CSKK	0.24	218.0	Lg	12:12:21.924	-0.7					T__				---		34503764	FDSN	HU	--	BUD	iLoc	HHN	???	_	
(Reading ML: 2.4 magdef=1)																									
(Station ML: 2.4 magdef=1)																									
MPLH	0.75	239.3	Pg	12:12:28.883	0.7					T__		5.4		---	ML	1.6	34503766	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MPLH	0.75	239.3	Lg	12:12:39.373	-0.2					T__				---		34503765	FDSN	HU	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
VYHS	0.97	14.1	Pn	12:12:33.522	0.7					T__		1.0		---	ML	1.0	34503767	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.97	14.1	Sn	12:12:47.821	-0.5					T__				---		34503768	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=1)																									
PSZI	1.02	68.6	I	12:18:48.600	45.8	251.2	1.5			_A_				---		184	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	1.02	68.6	Pg	12:12:34.596	0.1					T__		4.8		---	ML	1.7	34503769	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
MODS	1.15	315.8	Lg	12:12:51.976	-0.9					T__				---		34503770	FDSN	SK	--	BUD	iLoc	HHE	???	_	
MORH	1.35	175.2	Sn	12:12:57.031	-0.5					T__				---		34503771	FDSN	HU	--	BUD	iLoc	BHE	???	_	

Event bud2018bahx Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/01/15	09:31:58.30	1.69	0.83	47.8315	19.7764				0.0	0.0	5	0	252	0.12	1.09	kx	BUD	33875385	sysop			360
2018/01/15	09:31:56.92	1.59	0.41	47.8708	19.8070	12.5	5.1	155	0.0f		6	4	248	0.07	1.05	kx	ILOC	1	ILOC			345
(#PRIME)																						
(quarry blast, Gyongyostarjan, Hungary)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZI	0.07	51.0	I	09:32:21.400	0.4	194.9	-36.2			T__				---		110	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	0.08	51.0	Pg	09:31:59.244	0.0					T__		193.6		---	ML	1.8	33875386	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.08	51.0	Lg	09:32:01.329	0.1					T__				---		33875387	FDSN	GE	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=0)																									
VYHS	0.90	314.2	Pn	09:32:16.043	0.2					T__		2.6		---	ML	1.4	33875388	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.90	314.2	Lg	09:32:28.091	-0.3					T__				---		33875389	FDSN	SK	--	BUD	iLoc	HHN	???	_	

(Reading ML: 1.4 magdef=1
 (Station ML: 1.4 magdef=0

ABAH 1.05 65.6 Lg 09:32:34.399 -0.4 T__ ___ 33875390 FDSN HU -- BUD iLoc HHE ??? _

Event bud2018bnhd Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/01/22	11:53:58.48	0.25	0.74	48.5583	19.3451				0.0	0.0	19	0	109	0.34	1.70	kx	BUD	34358628	sysop			360
2018/01/22	11:53:56.97	0.96	1.11	48.5319	19.3370	3.6	2.9	177	0.0f		21	12	115	0.34	1.72	kx	ILOC	3	ILOC			115

(#PRIME)
 (quarry blast, Viglas, Slovakia)

Magnitude Err Nsta Author OrigID
 ML 2.0 0.3 8 ILOC 3

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
VYHS	0.34	263.7	Pg	11:54:04.439	0.6					T__		4.5		___	ML	0.9	34358629	FDSN	SK	--	MP	ISC	HHZ	HHZ	_
VYHS	0.34	263.7	Lg	11:54:08.807	-0.1					T__				___		34358630	FDSN	SK	--	MP	ISC	HHN	???	_	
(Reading ML: 0.9 magdef=1 (Station ML: 0.9 magdef=0																									
LANS	0.63	7.9	Pg	11:54:09.737	0.5					T__		14.0		___	ML	2.0	34358632	FDSN	SK	--	MP	ISC	EHZ	EHZ	_
LANS	0.63	7.9	Lg	11:54:17.359	-1.1					T__				___		34358631	FDSN	SK	--	MP	ISC	EHE	???	_	
(Reading ML: 2.0 magdef=1 (Station ML: 2.0 magdef=1																									
PSZ	0.72	148.5	Pg	11:54:12.285	0.1					T__		7.0		___	ML	1.7	34358633	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.72	148.5	Lg	11:54:22.378	-1.1					T__				___		34358634	FDSN	GE	--	MP	ISC	BHN	???	_	
(Station ML: 1.7 magdef=1																									
PSZI	0.72	148.6	I	11:57:57.800	2.4	329.0	-0.0			TA_				___		132	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.77	93.2	Pg	11:54:12.030	-0.1					T__		22.2		___	ML	2.3	34358635	FDSN	SK	--	MP	ISC	EHN	EHZ	_
KECS	0.77	93.2	Lg	11:54:22.688	-1.0					T__				___		34358636	FDSN	SK	--	MP	ISC	EHN	???	_	
(Reading ML: 2.3 magdef=1 (Station ML: 2.3 magdef=1																									
NIE	1.09	35.2	Pn	11:54:20.871	2.1					T__		4.1		___	ML	1.7	34358637	FDSN	PL	--	BUD	iLoc	BHZ	BHZ	_
NIE	1.09	35.2	Lg	11:54:32.726	-0.5					T__				___		34358638	FDSN	PL	--	MP	ISC	BHE	???	_	
(Station ML: 1.7 magdef=1																									
JAVC	1.15	287.1	Pn	11:54:19.832	0.2					T__				___		34358639	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
JAVC	1.15	287.1	Lg	11:54:36.520	-0.0					T__				___		34358640	FDSN	CZ	--	BUD	iLoc	BHN	???	_	
ABAH	1.29	99.8	Pg	11:54:23.158	1.0					T__		9.0		___	ML	2.2	34358642	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
ABAH	1.29	99.8	Sn	11:54:39.554	-1.3					T__				___		34358641	FDSN	HU	--	BUD	iLoc	HHE	???	_	
(Reading ML: 2.2 magdef=1 (Station ML: 2.2 magdef=1																									
MODS	1.38	264.2	Pg	11:54:24.485	0.0					T__				___		34358643	FDSN	SK	--	MP	ISC	HHZ	???	_	
OKC	1.52	329.6	Pg	11:54:26.313	0.2					T__		4.3		___	ML	2.0	34358644	FDSN	CZ	--	MP	ISC	BHZ	BHZ	_
(Reading ML: 2.0 magdef=1 (Station ML: 2.0 magdef=1																									
MORC	1.71	317.3	Sn	11:54:50.267	-0.9					T__				___		34358647	FDSN	CZ	--	BUD	iLoc	BHE	???	_	
OJC	1.72	9.9	Pn	11:54:28.870	1.0					T__		7.8		___	ML	2.3	34358645	FDSN	PL	--	BUD	iLoc	BHZ	BHZ	_
OJC	1.72	9.9	Sn	11:54:50.786	-1.7					T__				___		34358646	FDSN	PL	--	BUD	iLoc	BHN	???	_	
(Reading ML: 2.3 magdef=1 (Station ML: 2.3 magdef=0																									

Event bud2018boww Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/01/23	08:59:41.11	0.29	0.76	48.5688	20.7672				0.0	0.0	13	0	146	0.21	1.29	kx	BUD	34475262	KM			360
2018/01/23	08:59:39.31	1.06	1.81	48.5660	20.7808	4.5	3.2	158	0.0f		15	8	145	0.21	1.29	kx	ILOC	5	ILOC			165

(#PRIME)
(quarry blast, Dvorniky-Vcelare, Slovakia)

Magnitude	Err	Nsta	Author	OrigID
ML	1.2	0.1	5 ILOC	5

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KECS	0.21	247.2	Pg	08:59:44.269	0.5					T__		136.4		___	ML	2.0	34475263	FDSN	SK	--	BUD	iLoc	EHE	EHZ	_
KECS	0.21	247.2	Lg	08:59:47.292	0.1					T__				___		34475264	FDSN	SK	--	BUD	iLoc	EHE	???	_	
(Reading ML: 2.0 magdef=1 Station ML: 2.0 magdef=0)																									
ABAH	0.41	131.3	Pg	08:59:47.743	0.1					T__		6.4		___	ML	1.2	34475266	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
ABAH	0.41	131.3	Lg	08:59:54.552	-0.1					T__				___		34475265	FDSN	HU	--	BUD	iLoc	HHE	???	_	
(Reading ML: 1.2 magdef=1 Station ML: 1.2 magdef=1)																									
CRVS	0.56	53.0	Pg	08:59:51.058	1.0					T__		1.6		___	ML	1.0	34475267	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
CRVS	0.56	53.0	Lg	08:59:58.997	-0.4					T__				___		34475268	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.0 magdef=1 Station ML: 1.0 magdef=0)																									
PSZ	0.88	222.8	Pg	08:59:58.683	0.9					T__		6.4		___	ML	1.8	34475269	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.88	222.8	Lg	09:00:09.836	-1.6					T__				___		34475270	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
PSZI	0.88	222.8	I	09:04:41.200	5.4	43.2	1.1			TA_				___		20	FDSN	HN	--	BUD	iLoc	BDF	???	_	
MASL	0.92	60.5	Pn	08:59:59.126	0.2					T__				___		34475271	FDSN	SK	--	BUD	iLoc	EHZ	???	_	
MASL	0.92	60.5	Lg	09:00:12.461	1.1					T__				___		34475272	FDSN	SK	--	BUD	iLoc	EHE	???	_	
KOLS	1.05	69.0	Lg	09:00:15.123	-1.2					T__				___		34475273	FDSN	SK	--	BUD	iLoc	HHE	???	_	
VYHS	1.29	267.5	Pg	09:00:05.443	0.3					T__		0.9		___	ML	1.2	34475274	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	1.29	267.5	Sn	09:00:21.849	-1.4					T__				___		34475275	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.2 magdef=1 Station ML: 1.2 magdef=1)																									

Event bud2018cmvw Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2018/02/05	11:45:27.32	0.33	0.47	48.1375	18.9604				0.0	0.0	10	0	120	0.54	1.15	kx	BUD	34691375	sysop				360
2018/02/05	11:45:25.42	1.09	0.74	48.1268	18.9780	4.0	3.3	136	0.0f		12	7	119	0.55	1.16	kx	ILOC	2	ILOC				157

(#PRIME)
(quarry blast, Horne-Turovce, Slovakia)

Magnitude	Err	Nsta	Author	OrigID
ML	2.0	0.6	3 ILOC	2

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
SRO	0.55	235.2	Lg	11:45:44.786	-0.0					T__				___		34691376	FDSN	SK	--	MP	ISC	EHN	???	_

PSZI	0.65	108.4	I	11:49:00.800	1.2	289.8	0.7			TA_					111	FDSN	HN	--	BUD	iLoc	BDF	???	_
PSZ	0.65	108.4	Pg	11:45:39.545	0.2					T__	5.2	---	ML	1.6	34691378	FDSN	GE	--	MP	ISC	BHZ	BHZ	_
PSZ	0.65	108.4	Lg	11:45:49.061	-0.6					T__		---			34691377	FDSN	GE	--	MP	ISC	BHN	???	_
(Reading ML: 1.6 magdef=1)																							
(Station ML: 1.6 magdef=1)																							
CSKK	0.90	212.6	Pg	11:45:44.099	0.6					T__	95.0	---	ML	3.0	34691379	FDSN	HU	--	MP	ISC	HHZ	HHZ	_
CSKK	0.90	212.6	Lg	11:45:56.873	-0.1					T__		---			34691380	FDSN	HU	--	MP	ISC	HHE	???	_
(Reading ML: 3.0 magdef=1)																							
(Station ML: 3.0 magdef=1)																							
KECS	1.07	69.9	Pn	11:45:46.924	0.2					T__	7.4	---	ML	2.0	34691381	FDSN	SK	--	MP	ISC	EHN	EHZ	_
KECS	1.07	69.9	Lg	11:46:02.547	0.0					T__		---			34691382	FDSN	SK	--	MP	ISC	EHN	???	_
(Reading ML: 2.0 magdef=1)																							
(Station ML: 2.0 magdef=1)																							
JAVC	1.14	310.6	Pg	11:45:48.705	0.6					T__		---			34691383	FDSN	CZ	--	MP	ISC	BHZ	???	_
MODS	1.16	282.9	Pg	11:45:49.265	0.5					T__		---			34691384	FDSN	SK	--	MP	ISC	HHZ	???	_
MODS	1.16	282.9	Sn	11:46:04.125	-1.4					T__		---			34691385	FDSN	SK	--	MP	ISC	HHE	???	_

Event bud2018csgf Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/02/08	10:39:10.30	0.35	1.06	47.1158	18.0525				0.0	0.0	10	0	125	0.24	1.03	kx	BUD	34819355	KM			360
2018/02/08	10:39:08.51	1.28	0.77	47.0979	18.0780	6.2	4.5	85	0.0f		11	6	103	0.24	1.48	kx	ILOC	3	ILOC			172

(#PRIME)

(quarry blast, Kiralyszentistvan, Hungary)

Magnitude	Err	Nsta	Author	OrigID
ML	1.7	0.5	5 ILOC	3

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
TIH	0.24	212.7	Pg	10:39:13.903	0.1					T__		137.3		---	ML	2.1	34819356	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
TIH	0.24	212.7	Lg	10:39:19.343	1.5					T__				---		34819357	FDSN	HU	--	BUD	iLoc	HHN	???	_	
(Reading ML: 2.1 magdef=1)																									
(Station ML: 2.1 magdef=1)																									
CSKK	0.29	25.1	Pg	10:39:15.013	0.1					T__	202.4			---	ML	2.4	34819359	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
CSKK	0.29	25.1	Lg	10:39:20.397	0.5					T__				---		34819358	FDSN	HU	--	BUD	iLoc	HHE	???	_	
(Reading ML: 2.4 magdef=1)																									
(Station ML: 2.4 magdef=0)																									
MPLH	0.37	281.3	Pg	10:39:16.903	0.3					T__	8.2			---	ML	1.3	34819361	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MPLH	0.37	281.3	Lg	10:39:21.625	-1.1					T__				---		34819360	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=0)																									
MORH	0.97	156.0	Pg	10:39:28.014	0.1					T__	2.0			---	ML	1.3	34819362	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	0.97	156.0	Sn	10:39:43.484	-0.4					T__				---		34819363	FDSN	HU	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=1)																									
KOVH	1.01	179.1	Pg	10:39:28.926	-0.0					T__	4.4			---	ML	1.7	34819364	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
KOVH	1.01	179.1	Lg	10:39:43.446	-0.8					T__				---		34819365	FDSN	HU	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
PSZI	1.48	55.6	I	10:49:15.600	70.2	235.3	-1.7			_A_				---		112	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018ctyr Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/02/09	09:07:06.92	0.50	0.71	48.6560	20.6716				0.0	0.0	7	0	170	0.21	0.90	kx	BUD	34820203	KM			360
2018/02/09	09:07:05.78	1.22	0.53	48.5357	20.7795	5.5	4.6	178	0.0f		8	5	173	0.20	0.93	kx	ILOC	6	ILOC			205

(#PRIME)

(quarry blast, Dvorniky-Vcelare, Slovakia)

Magnitude	Err	Nsta	Author	OrigID
ML	1.7	0.1	4 ILOC	6

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KECS	0.20	255.0	Pg	09:07:10.285	0.3					T__		67.1		___	ML	1.7	34820204	FDSN	SK	--	BUD	iLoc	EHE	EHZ	_
KECS	0.20	255.0	Lg	09:07:12.747	-0.6					T__				___		34820205	FDSN	SK	--	BUD	iLoc	EHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
CRVS	0.58	50.7	Pg	09:07:17.227	0.3					T__		1.6		___	ML	1.0	34820206	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
CRVS	0.58	50.7	Lg	09:07:25.829	-0.7					T__				___		34820207	FDSN	SK	--	BUD	iLoc	HHE	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=1)																									
PSZ	0.86	224.1	Pn	09:07:24.247	-0.1					T__		7.7		___	ML	1.9	34820209	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.86	224.1	Lg	09:07:37.265	0.1					T__				___		34820210	FDSN	GE	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
PSZI	0.86	224.1	I	09:13:12.000	78.1	43.3	-0.1			_A				___		21	FDSN	HN	--	BUD	iLoc	BDF	???	_	
STHS	0.93	19.0	Pg	09:07:23.605	0.6					T__		6.0		___	ML	1.8	34820208	FDSN	SK	--	BUD	iLoc	EHZ	EHZ	_
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									

Event bud2018dbji Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/02/13	10:27:18.99	1.20	0.29	47.9479	20.4058				0.0	0.0	5	0	238	0.35	1.04	kx	BUD	35007031	KM			360
2018/02/13	10:27:18.99f		2.01	47.9931	20.3237	11.7	4.3	153	0.0f		6	4	227	0.30	1.01	kx	ILOC	4	ILOC			344

(#PRIME)

(quarry blast, Egerbakta, Hungary)

Magnitude	Err	Nsta	Author	OrigID
ML	1.6	0.7	3 ILOC	4

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.30	255.6	Pg	10:27:25.413	-0.4					T__		10.3		___	ML	1.1	35007033	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.30	255.6	Lg	10:27:29.701	-1.3					T__				___		35007032	FDSN	GE	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.1 magdef=1)																									
(Station ML: 1.1 magdef=1)																									
PSZI	0.30	255.6	I	10:28:59.200	3.7	75.5	0.2			T__				___		113	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.50	12.4	Pg	10:27:29.015	-0.1					T__		8.0		___	ML	1.6	35007034	FDSN	SK	--	BUD	iLoc	EHN	EHZ	_
KECS	0.50	12.4	Lg	10:27:36.356	-0.5					T__				___		35007035	FDSN	SK	--	BUD	iLoc	EHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
BUD	1.01	240.3	Pn	10:27:39.238	-0.2					T__		10.1		___	ML	2.1	35007036	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
(Reading ML: 2.1 magdef=1)																									

(Station ML: 2.1 magdef=1

Event bud2018ddnj Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/02/14	14:45:57.54	0.35	1.25	46.8005	17.3233				0.0	0.0	9	0	102	0.40	1.31	kx	BUD	35007377	KM			360
2018/02/14	14:45:54.15	1.12	0.88	46.7781	17.3168	5.6	4.0	149	0.0f		11	8	104	0.42	2.09	kx	ILOC	4	ILOC			150

(#PRIME)
(quarry blast, Varvolgy, Hungary)

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
MPLH	0.42	21.2	Pg	14:46:03.723	0.6					T__		11.0		___	ML	1.5	35007378	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MPLH	0.42	21.2	Lg	14:46:09.349	-0.7					T__				___		35007379	FDSN	HU	--	BUD	iLoc	BHE	???	_	

(Reading ML: 1.5 magdef=1
(Station ML: 1.5 magdef=0

EGYH	0.64	0.9	Lg	14:46:17.514	0.1					T__				___		35007380	FDSN	HU	--	BUD	iLoc	HHE	???	_	
KOGS	0.81	246.2	Sn	14:46:25.198	-1.0					T__				___		35007381	FDSN	SL	--	BUD	iLoc	BHN	???	_	
CSKK	0.87	47.4	Sn	14:46:27.428	-0.2					T__				___		35007382	FDSN	HU	--	BUD	iLoc	HHE	???	_	
KOVH	0.88	141.6	Pn	14:46:13.466	0.5					T__	7.3			___	ML	1.9	35007384	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
KOVH	0.88	141.6	Sn	14:46:27.291	-0.5					T__				___		35007383	FDSN	HU	--	BUD	iLoc	BHE	???	_	

(Reading ML: 1.9 magdef=1
(Station ML: 1.9 magdef=0

MORH	1.08	121.1	Lg	14:46:31.511	-0.4					T__				___		35007385	FDSN	HU	--	BUD	iLoc	BHE	???	_
ARSA	1.32	291.7	Lg	14:46:38.680	-0.4					T__				___		35007386	FDSN	OE	--	BUD	iLoc	BHE	???	_
PSZI	2.09	56.0	I	14:59:02.200	-1.9	239.0	1.1			TA_				___		133	FDSN	HN	--	BUD	iLoc	BDF	???	_

Event bud2018dewn Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2018/02/15	08:32:16.00			47.8285	19.9317				0.0				0				kx	BUD_GT	22		BUD			

(GT info : GT2 explosion)
(locality : Gyongyossolymos-II)

2018/02/15	08:32:16.00f	5.52	0.88	47.8296	19.9293	4.7	0.6	164	0.0f		5	3	255	0.09	0.70	kx	ILOC	3	ILOC					359
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(#PRIME)

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZI	0.09	344.8	I	08:32:37.800	-7.6	160.3	-4.4			TA_				___		102	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	0.09	345.2	Pg	08:32:18.967	0.3					T__		59.9		___	ML	1.3	35007453	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.09	345.2	Lg	08:32:20.854	0.0					T__				___		35007454	FDSN	GE	--	BUD	iLoc	BHE	???	_	

(Reading ML: 1.3 magdef=1
(Station ML: 1.3 magdef=0

BUD	0.70	240.8	Lg	08:32:36.137	-5.8					T__				___		35007455	FDSN	HU	--	BUD	iLoc	BHE	???	_
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Event bud2018dmjk Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2018/02/19	10:59:28.40			46.1254	18.0152				0.0	0.0	5	0	280	0.12	1.21	kx	BUD_GT	44033922		BUD				360

(GT info : GT2 explosion)
(locality : Bukkosd)

2018/02/19	10:59:28.30	1.60	0.52	46.1095	18.0124	5.6	4.7	105	0.0f		7	4	233	0.06	2.22	kx	ILOC	10	ILOC					285
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(#PRIME)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.06	109.1	Pg	10:59:30.635	0.4					T__		65.3		_c_	ML	1.3	44033923	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
KOVH	0.06	109.1	Lg	10:59:31.627	-0.4					T__				---		44033924	FDSN	HU	--	MP	ISC	BHN	???	_	
(Reading ML: 1.3 magdef=1 Station ML: 1.3 magdef=0)																									
MORH	0.45	76.3	Lg	10:59:44.580	-0.5					T__				---		44033925	FDSN	HU	--	MP	ISC	BHN	???	_	
MPLH	1.11	343.1	Pg	10:59:51.094	0.3					T__		5.3		---	ML	1.8	44033926	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
MPLH	1.11	343.1	Lg	11:00:07.023	-0.5					T__				---		44033927	FDSN	HU	--	MP	ISC	BHN	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=0)																									
PSZI	2.22	34.7	I	11:13:29.400	0.5	215.1	-1.0			TA_				---		14	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018ebjx Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/02/27	16:17:26.61	0.45	0.36	47.1373	19.2760				0.0	0.0	7	0	177	0.73	1.33	kx	BUD	35317657	KM			360
2018/02/27	16:17:24.65	1.21	5.97	47.1052	19.2941	4.9	3.9	123	0.0f		9	5	180	0.75	1.31	kx	ILOC	11	ILOC			193

(#PRIME)

(bomb demolition, Dabas, Hungary)

Magnitude	Err	Nsta	Author	OrigID
ML	1.8	0.5	4 ILOC	11

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
CSKK	0.75	290.5	Pg	16:17:40.229	0.3					T__		95.1		---	ML	2.9	35317658	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
CSKK	0.75	290.5	Lg	16:17:50.148	-1.2					T__				---		35317659	FDSN	HU	--	BUD	iLoc	HHE	???	_	
(Reading ML: 2.9 magdef=1 Station ML: 2.9 magdef=1)																									
PSZI	0.91	26.3	I	16:22:46.600	14.3	208.5	1.7			TA_				---		15	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	0.91	26.4	Pg	16:17:43.172	-0.8					T__		4.6		---	ML	1.7	35317660	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.91	26.4	Lg	16:17:55.671	-2.6					T__				---		35317661	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
MORH	1.00	206.9	Pn	16:17:45.699	0.8					T__		1.4		---	ML	1.2	35317662	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	1.00	206.9	Lg	16:17:59.825	0.2					T__				---		35317663	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.2 magdef=1 Station ML: 1.2 magdef=1)																									
KOVH	1.31	219.4	Pg	16:17:51.447	0.5					T__		4.3		---	ML	1.9	35317664	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																									

Event bud2018ebkt Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/02/27	16:43:02.64	0.43	0.69	47.1578	19.2627				0.0	0.0	7	0	175	0.71	1.34	kx	BUD	35317717	KM			360
2018/02/27	16:43:00.38	1.21	5.90	47.0938	19.3309	5.3	3.8	121	0.0f		9	5	183	0.78	1.32	kx	ILOC	12	ILOC			195

(#PRIME)

(bomb demolition, Dabas, Hungary)

Magnitude	Err	Nsta	Author	OrigID																						
ML	1.7	0.3	4	ILOC	12																					
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L		
CSKK	0.78	290.7	Pg	16:43:16.030	-0.2					T__		56.8		___	ML	2.7	35317718	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_	
(Reading ML: 2.7 magdef=1)																										
(Station ML: 2.7 magdef=1)																										
PSZI	0.91	24.6	I	16:48:22.000	14.2	208.3	3.3			TA_				___		16	FDSN	HN	--	BUD	iLoc	BDF	???	_		
PSZ	0.91	24.6	Pg	16:43:18.964	-0.7					T__		5.2		_c_	ML	1.7	35317719	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_	
PSZ	0.91	24.6	Lg	16:43:31.497	-2.5					T__				___		35317720	FDSN	GE	--	BUD	iLoc	BHE	???	_		
(Reading ML: 1.7 magdef=1)																										
(Station ML: 1.7 magdef=1)																										
MORH	1.00	208.6	Pn	16:43:21.249	0.6					T__		1.6		___	ML	1.3	35317721	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_	
MORH	1.00	208.6	Lg	16:43:36.137	0.7					T__				___		35317722	FDSN	HU	--	BUD	iLoc	BHE	???	_		
(Reading ML: 1.3 magdef=1)																										
(Station ML: 1.3 magdef=1)																										
KOVH	1.32	220.6	Pg	16:43:27.274	0.4					T__		3.0		___	ML	1.7	35317724	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_	
KOVH	1.32	220.6	Lg	16:43:46.281	-0.5					T__				___		35317723	FDSN	HU	--	BUD	iLoc	BHE	???	_		
(Reading ML: 1.7 magdef=1)																										
(Station ML: 1.7 magdef=1)																										

Event bud2018eemg Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/03/01	08:53:09.43	0.43	0.77	47.5600	18.4573				0.0	0.0	7	0	165	0.27	1.34	kx	BUD_GT	35353017	sysop			360
(GT info : GT2 explosion)																						
(Locality : Tatabanya)																						
2018/03/01	08:53:07.92	1.16	0.26	47.5779	18.4832	6.2	4.2	129	0.0f		9	5	136	0.26	1.37	kx	ILOC	1	ILOC			191
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID																					
ML	1.4	0.5	3	ILOC	1																				
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
CSKK	0.26	215.2	Pg	08:53:13.427	-0.3					T__		209.3		___	ML	2.4	35353018	FDSN	HU	--	MP	ISC	HHZ	HHZ	_
CSKK	0.26	215.2	Lg	08:53:18.058	-0.1					T__				___		35353019	FDSN	HU	--	MP	ISC	HHN	???	_	
(Reading ML: 2.4 magdef=1)																									
(Station ML: 2.4 magdef=1)																									
MPLH	0.76	237.9	Lg	08:53:35.157	0.2					T__				___		35353020	FDSN	HU	--	MP	ISC	BHN	???	_	
VYHS	0.95	14.4	Pn	08:53:27.880	0.4					T__		1.2		___	ML	1.1	35353021	FDSN	SK	--	MP	ISC	HHZ	HHZ	_
VYHS	0.95	14.4	Lg	08:53:40.704	-0.3					T__				___		35353022	FDSN	SK	--	MP	ISC	HHN	???	_	
(Reading ML: 1.1 magdef=1)																									
(Station ML: 1.1 magdef=1)																									
PSZI	1.01	69.8	I	08:58:54.200	0.0	257.4	6.6			TA_				___		185	FDSN	HN	--	BUD	iLoc	BDF	???	_	
MORH	1.37	175.3	Pn	08:53:33.325	0.0					T__		1.5		___	ML	1.4	35353024	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
MORH	1.37	175.3	Sn	08:53:53.172	0.1					T__				___		35353023	FDSN	HU	--	MP	ISC	BHE	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									

Event bud2018egrx Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/03/02	14:00:23.33	0.48	0.38	47.1500	19.3115				0.0	0.0	6	0	179	0.39	1.35	kx	BUD	35353407	sysop			360
2018/03/02	14:00:21.18	1.33	2.61	47.1418	19.3385	5.0	3.8	112	0.0f		8	5	181	0.40	1.36	kx	ILOC	13	ILOC			193

(#PRIME)
(bomb demolition, Dabas, Hungary)

Magnitude	Err	Nsta	Author	OrigID
ML	1.6	0.1	3 ILOC	13

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
BUD	0.40	328.1	Pg	14:00:31.015	1.0					T__		13.0		___	ML	1.5	35353408	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=1)																									
PSZI	0.86	25.6	I	14:05:16.600	4.9	210.6	4.6			TA_				___		18	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	0.86	25.7	Pg	14:00:40.455	0.9					T__		6.6		___	ML	1.8	35353409	FDSN	GE	--	MP	ISC	BHZ	BHZ	_
PSZ	0.86	25.7	Lg	14:00:50.684	-2.5					T__				___		35353410	FDSN	GE	--	MP	ISC	BHE	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
MORH	1.04	207.5	Pg	14:00:43.152	1.1					T__		3.3		___	ML	1.6	35353411	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
MORH	1.04	207.5	Lg	14:00:57.249	-0.5					T__				___		35353412	FDSN	HU	--	MP	ISC	BHN	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																									
KOVH	1.36	219.5	Sn	14:01:05.798	-0.6					T__				___		35353413	FDSN	HU	--	MP	ISC	BHN	???	_	

Event bud2018egst Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/03/02	14:26:15.96	0.43	0.35	47.1095	19.4019				0.0	0.0	7	0	138	0.45	1.04	kx	BUD	35353533	sysop			360
2018/03/02	14:26:13.85	1.25	2.03	47.1075	19.4334	8.0	4.0	112	0.0f		8	5	140	0.47	1.05	kx	ILOC	14	ILOC			252

(#PRIME)
(bomb demolition, Dabas, Hungary)

Magnitude	Err	Nsta	Author	OrigID
ML	1.6	0.1	4 ILOC	14

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
BUD	0.47	323.6	Pg	14:26:24.855	0.9					T__		9.4		___	ML	1.6	35353534	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
BUD	0.47	323.6	Lg	14:26:29.893	-1.9					T__				___		35353535	FDSN	HU	--	MP	ISC	BHE	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																									
BSZH	0.60	71.0	Pg	14:26:27.374	0.3					T__		12.2		___	ML	1.9	35353536	FDSN	HU	--	MP	ISC	HHZ	HHZ	_
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																									
PSZI	0.87	20.9	I	14:31:10.200	3.6	210.6	9.4			T__				___		19	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	0.87	20.9	Pn	14:26:32.972	0.4					T__		5.0		___	ML	1.7	35353537	FDSN	GE	--	MP	ISC	BHZ	BHZ	_
PSZ	0.87	20.9	Lg	14:26:44.651	-1.4					T__				___		35353538	FDSN	GE	--	MP	ISC	BHE	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
MORH	1.05	211.6	Pg	14:26:35.465	0.7					T__		3.1		___	ML	1.6	35353539	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
MORH	1.05	211.6	Lg	14:26:49.765	-0.7					T__				___		35353540	FDSN	HU	--	MP	ISC	BHN	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																									

Event bud2018etfp Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/03/09	10:33:04.64	0.39	0.66	47.0917	18.0737				0.0	0.0	7	0	153	0.23	1.39	kx	BUD	35970654	sysop			360
2018/03/09	10:33:02.96	1.16	0.30	47.0796	18.0960	9.4	4.7	102	0.0f		8	5	125	0.23	1.48	kx	ILOC	5	ILOC			163

(#PRIME)
(quarry blast, Kiralyszentistvan, Hungary)

Magnitude	Err	Nsta	Author	OrigID
ML	2.1	0.4	3 ILOC	5

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
TIH	0.23	217.8	Pg	10:33:08.085	0.0					T__		162.2		___ ML	2.1	35970655	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
TIH	0.23	217.8	Lg	10:33:12.170	0.1					T__				___		35970656	FDSN	HU	--	BUD	iLoc	HHN	???	_
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=1)																								
CSKK	0.31	21.5	Pg	10:33:09.920	0.3					T__		192.6		___ ML	2.4	35970658	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
CSKK	0.31	21.5	Lg	10:33:14.386	-0.4					T__				___		35970657	FDSN	HU	--	BUD	iLoc	HHN	???	_
(Reading ML: 2.4 magdef=1 Station ML: 2.4 magdef=1)																								
KOVH	0.99	179.8	Pn	10:33:23.353	0.1					T__		3.4		___ ML	1.6	35970659	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
KOVH	0.99	179.8	Lg	10:33:37.825	-0.3					T__				___		35970660	FDSN	HU	--	BUD	iLoc	BHE	???	_
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																								
MODS	1.41	337.2	Sn	10:33:48.974	-0.3					T__				___		35970661	FDSN	SK	--	BUD	iLoc	HHE	???	_
PSZI	1.48	54.8	I	10:43:02.800	62.8	231.9	-4.2			_A_				___		114	FDSN	HN	--	BUD	iLoc	BDF	???	_

Event bud2018evcb Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2018/03/10	11:01:57.22			48.0061	19.6278				0.0	0.0	5	0	168	0.21	0.83	kx	BUD_GT	44034018	BUD			360		
(GT info : GT2 explosion) (locality : Nagylac)																								
2018/03/10	11:01:55.05	1.34	1.55	48.0037	19.6375	4.5	1.2	116	0.0f		7	4	164	0.19	0.82	kx	ILOC	15		ILOC		327		
(PRIME)																								

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
PSZI	0.19	116.4	I	11:02:54.800	-2.1	296.1	-0.5			TA_				___		20	FDSN	HN	--	BUD	iLoc	BDF	???	_
PSZ	0.19	116.2	Pg	11:02:00.869	1.2					T__		25.1		___ ML	1.2	44034019	FDSN	GE	--	MP	ISC	BHZ	BHZ	_
PSZ	0.19	116.2	Lg	11:02:03.966	0.6					T__				___		44034020	FDSN	GE	--	MP	ISC	BHZ	???	_
(Reading ML: 1.2 magdef=1 Station ML: 1.2 magdef=0)																								
VYHS	0.73	312.8	Pn	11:02:10.914	-0.6					T__		1.1		___ ML	0.9	44034022	FDSN	SK	--	MP	ISC	HHZ	HHZ	_
(Reading ML: 0.9 magdef=1 Station ML: 0.9 magdef=0)																								
VYHS	0.73	312.8	Lg	11:02:20.196	-0.3					T__				___		44034021	FDSN	SK	--	BUD	iLoc	HHN	???	_
(Station ML: 0.9 magdef=0)																								
BSZH	0.82	148.6	Lg	11:02:24.029	-1.7					T__				___		44034023	FDSN	HU	--	MP	ISC	HHN	???	_

Event bud2018fapk Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/03/13	11:27:30.22			47.8285	19.9317				0.0			0					kx BUD_GT	23	BUD			
(GT info : GT2 explosion)																						
(locality : Gyongyosolyomos-II)																						
2018/03/13	11:27:29.80	1.24	2.92	47.8833	19.9061	5.3	0.4	166	0.0f		11	6	229	0.04	1.79		kx ILOC	1	ILOC			278
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.7	0.0	5 ILOC	1

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZI	0.04	346.2	I	11:27:48.800	7.6	156.9	-9.3			TA_				---	103	FDSN	HN	--	BUD	iLoc	BDF	???	_		
PSZ	0.04	347.4	Pg	11:27:30.167	-1.1					T_		200.0		---	ML	1.7	35597118	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
(Reading ML: 1.7 magdef=1)																									
PSZ	0.04	347.4	Lg	11:27:31.675	-1.0					T_				---		35597119	FDSN	GE	--	MP	ISC	BHN	???	_	
(Station ML: 1.7 magdef=1)																									
KECS	0.71	32.6	Pg	11:27:44.720	0.6					T_		13.5		---	ML	2.0	35597120	FDSN	SK	--	BUD	iLoc	EHN	EHZ	_
KECS	0.71	32.6	Lg	11:27:54.030	-0.9					T_				---		35597121	FDSN	SK	--	BUD	iLoc	EHE	???	_	
(Reading ML: 2.0 magdef=1)																									
(Station ML: 2.0 magdef=0)																									
VYHS	0.94	310.9	Pg	11:27:47.499	-1.2					T_		0.8		---	ML	0.9	35597122	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.94	310.9	Lg	11:28:00.795	-1.8					T_				---		35597123	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 0.9 magdef=1)																									
(Station ML: 0.9 magdef=0)																									
NIE	1.56	9.5	Pn	11:27:59.221	1.0					T_		2.5		---	ML	1.8	35597124	FDSN	PL	--	MP	ISC	BHZ	BHZ	_
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
TRPA	1.79	81.1	Pg	11:28:05.235	1.2					T_		1.8		---	ML	1.7	35597126	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
TRPA	1.79	81.1	Sn	11:28:26.753	0.4					T_				---		35597125	FDSN	HU	--	BUD	iLoc	BHZ	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									

Event bud2018fydn Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/03/26	08:43:37.79	0.44	0.85	47.2984	17.6166				0.0	0.0	6	0	139	0.14	1.29		kx BUD	35994077	MP			360
2018/03/26	08:43:36.06	1.44	2.05	47.2805	17.6008	5.2	4.1	157	0.0f		8	5	119	0.12	1.68		kx ILOC	7	ILOC			226
(#PRIME)																						
(quarry blast, Ugod, Hungary)																						

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
MPLH	0.12	200.7	Pg	08:43:39.646	0.5					T_		26.0		---	ML	1.0	35994078	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
MPLH	0.12	200.7	Lg	08:43:41.580	-0.1					T_				---		35994079	FDSN	HU	--	MP	ISC	BHE	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=0)																									
EGYH	0.23	306.9	Pg	08:43:41.326	0.0					T_		39.6		---	ML	1.5	35994081	FDSN	HU	--	MP	ISC	HHZ	HHZ	_
EGYH	0.23	306.9	Lg	08:43:45.702	0.3					T_				---		35994080	FDSN	HU	--	MP	ISC	HHE	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=0)																									
CSKK	0.46	79.3	Lg	08:43:51.427	-1.4					T_				---		35994082	FDSN	HU	--	MP	ISC	HHE	???	_	
MORH	1.28	145.7	Lg	08:44:20.130	-0.4					T_				---		35994083	FDSN	HU	--	MP	ISC	BHE	???	_	

PSZI 1.68 66.8 I 08:54:00.800 4.3 248.4 -0.1 TA_ --- 22 FDSN HN -- BUD iLoc BDF ??? _

Event bud2018gadm Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/03/27	10:55:36.64	0.40	0.80	48.4568	17.4502				0.0	0.0	11	0	134	0.14	1.19	kx	BUD	35995599	MP			360
2018/03/27	10:55:35.40	1.04	0.63	48.4932	17.3589	4.6	4.0	167	0.0f		13	8	96	0.13	1.79	kx	ILOC	6	ILOC			120

(#PRIME)
(quarry blast, Boleraz, Slovakia)

Magnitude Err Nsta Author OrigID
ML 2.1 0.7 3 ILOC 6

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
MODS	0.13	204.4	Pg	10:55:38.423	-0.2					T__						35995600	FDSN	SK	--	BUD	iLoc	HHZ	???	_	
MODS	0.13	204.4	Lg	10:55:40.660	-0.5					T__						35995601	FDSN	SK	--	MP	ISC	HHN	???	_	
ZST	0.34	210.0	Pg	10:55:42.685	-0.0					T__		206.0		---	ML	2.6	35995602	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
(Reading ML: 2.6 magdef=1 Station ML: 2.6 magdef=1)																									
JAVC	0.42	29.3	Pg	10:55:44.388	0.2					T__						35995603	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
JAVC	0.42	29.3	Lg	10:55:49.939	-0.8					T__						35995604	FDSN	CZ	--	MP	ISC	BHN	???	_	
KRUC	0.85	312.1	Pn	10:55:53.847	0.1					T__						35995605	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
KRUC	0.85	312.1	Sn	10:56:07.462	-0.4					T__						35995606	FDSN	CZ	--	MP	ISC	BHN	???	_	
VRAC	0.96	328.5	Pn	10:55:55.623	0.4					T__						35995608	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
VYHS	0.98	89.4	Pn	10:55:55.689	0.1					T__		1.2		---	ML	1.1	35995607	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
(Reading ML: 1.1 magdef=1 Station ML: 1.1 magdef=1)																									
CONA	1.15	241.1	Pg	10:55:58.804	0.6					T__		9.3		---	ML	2.1	35995609	FDSN	OE	--	BUD	iLoc	BHZ	BHZ	_
CONA	1.15	241.1	Sn	10:56:15.988	0.4					T__						35995610	FDSN	OE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=1)																									
PSZI	1.79	107.8	I	11:06:44.600	1.4	288.8	-0.9			TA_						115	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018gqkr Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/04/05	08:46:38.48	0.39	0.38	48.6078	20.7841				0.0	0.0	8	0	150	0.44	1.30	kx	BUD	36426701	MP			360
2018/04/05	08:46:37.12	1.14	0.99	48.5717	20.7624	4.7	3.9	154	0.0f		10	5	146	0.42	1.28	kx	ILOC	8	ILOC			223

(#PRIME)
(quarry blast, Dvorniky-Vcelare, Slovakia)

Magnitude Err Nsta Author OrigID
ML 1.2 0.3 4 ILOC 8

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
ABAH	0.42	130.8	Pg	08:46:46.484	0.8					T__		8.9		---	ML	1.4	36426702	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
ABAH	0.42	130.8	Lg	08:46:52.057	-0.9					T__						36426703	FDSN	HU	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.4 magdef=1 Station ML: 1.4 magdef=1)																									
CRVS	0.57	54.2	Pg	08:46:48.613	0.6					T__		1.4		---	ML	1.0	36426704	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
CRVS	0.57	54.2	Lg	08:46:56.050	-1.4					T__						36426705	FDSN	SK	--	BUD	iLoc	HHN	???	_	

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(Reading ML: 1.0 magdef=1
(Station ML: 1.0 magdef=1
PSZ 0.87 221.9 Pg 08:46:55.862 0.3 T__ 4.9 ___ ML 1.7 36426706 FDSN GE -- BUD iLoc BHZ BHZ _
PSZ 0.87 221.9 Lg 08:47:08.592 -0.5 T__ ___ 36426707 FDSN GE -- BUD iLoc BHE ??? _
(Reading ML: 1.7 magdef=1
(Station ML: 1.7 magdef=1
PSZI 0.87 221.9 I 08:51:31.200 -0.9 42.0 0.8 TA_ ___ 23 FDSN HN -- BUD iLoc BDF ??? _
VYHS 1.28 267.2 Pn 08:47:02.320 0.8 T__ 0.6 ___ ML 1.0 36426708 FDSN SK -- BUD iLoc HHZ HHZ _
VYHS 1.28 267.2 Sn 08:47:19.655 -1.1 T__ ___ 36426709 FDSN SK -- BUD iLoc HHN ??? _
(Reading ML: 1.0 magdef=1
(Station ML: 1.0 magdef=1

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Event bud2018gsgk Hungary

```

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2018/04/06 08:54:19.12 1.05 0.71 47.0690 17.8241 0.0 0.0 6 0 208 0.17 1.02 kx BUD 44032348 sysop 360
2018/04/06 08:54:17.79 1.46 0.43 46.9989 17.7252 4.8 4.4 35 0.0f 8 5 159 0.15 1.73 kx ILOC 16 ILOC 253
(#PRIME)
(quarry blast, Totvazsony, Hungary)

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```

Sta Dist EVAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude ArrID Agy Deploy Ln Auth Rep PCh ACh L
TIH 0.15 130.7 Pg 08:54:21.386 -0.0 T__ 94.8 ___ ML 1.7 44032349 FDSN HU -- MP ISC HHZ HHZ _
TIH 0.15 130.7 Lg 08:54:23.981 -0.4 T__ ___ 44032350 FDSN HU -- MP ISC HHE ??? _
(Reading ML: 1.7 magdef=1
(Station ML: 1.7 magdef=0
MPLH 0.21 323.5 Pg 08:54:22.964 0.2 T__ 19.9 ___ ML 1.2 44032352 FDSN HU -- MP ISC BHZ BHZ _
MPLH 0.21 323.5 Lg 08:54:26.271 -0.4 T__ ___ 44032351 FDSN HU -- MP ISC BHE ??? _
(Reading ML: 1.2 magdef=1
(Station ML: 1.2 magdef=0
KOVH 0.95 164.0 Lg 08:54:51.818 0.4 T__ ___ 44032353 FDSN HU -- MP ISC BHN ??? _
MORH 1.01 140.8 Lg 08:54:53.091 -0.1 T__ ___ 44032354 FDSN HU -- MP ISC BHN ??? _
PSZI 1.73 57.2 I 09:05:03.000 0.6 239.5 0.7 TA_ ___ 21 FDSN HN -- BUD iLoc BDF ??? _

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Event bud2018hbib Hungary

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Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2018/04/11 07:57:55.80 0.50 0.26 47.8355 19.1270 0.0 0.0 5 0 153 0.50 1.31 kx BUD_GT 36452577 KM 260
(GT info : GT2 explosion)
(locality : Sejce-Vac)
2018/04/11 07:57:53.35 1.63 0.95 47.8430 19.1575 4.7 3.0 81 0.0f 6 3 157 0.50 1.29 kx ILOC 7 ILOC 260
(#PRIME)

```

```

Sta Dist EVAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude ArrID Agy Deploy Ln Auth Rep PCh ACh L
PSZI 0.50 81.1 I 08:00:35.800 -1.0 261.2 -0.5 TA_ ___ 186 FDSN HN -- BUD iLoc BDF ??? _
PSZ 0.50 81.1 Pg 07:58:04.953 0.7 T__ 4.1 ___ ML 1.3 36452578 FDSN GE -- BUD iLoc BHZ BHZ _
PSZ 0.50 81.1 Lg 07:58:11.809 -0.7 T__ ___ 36452579 FDSN GE -- BUD iLoc BHN ??? _
(Reading ML: 1.3 magdef=1
(Station ML: 1.3 magdef=0
VYHS 0.69 341.8 07:58:08.277 ___ 0.8 ___ 0.0 36452581 FDSN SK -- BUD iLoc HHZ HHZ _
VYHS 0.69 341.8 Lg 07:58:16.863 -0.6 T__ ___ 36452580 FDSN SK -- BUD iLoc HHN ??? _
MPLH 1.29 239.1 Lg 07:58:37.498 -0.5 T__ ___ 36452582 FDSN HU -- BUD iLoc BHE ??? _

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Event bud2018hbzj Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/04/11	08:55:54.78			46.1765	18.2926				0.0	0.0	6	0	146	0.16	1.10	kx	BUD_GT	44032475	BUD			360
(GT info : GT2 explosion)																						
(locality : Komlo)																						
2018/04/11	08:55:53.11	1.44	0.97	46.1973	18.2619	5.9	3.6	130	0.0f		8	4	139	0.16	2.05	kx	ILOC	17	ILOC			247
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
ML	0.9	0.9	3 ILOC	17

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.16	226.0	Pg	08:55:57.095	0.2					T__		13.6		___	ML	0.9	44032476	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
KOVH	0.16	226.0	Lg	08:55:59.964	0.0					T__				---		44032477	FDSN	HU	--	BUD	iLoc	BHE	???	_	
(Reading ML: 0.9 magdef=1)																									
(Station ML: 0.9 magdef=1)																									
MORH	0.27	86.1	Pg	08:55:59.270	0.3					T__		1.7		___	ML	0.3	44032478	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	0.27	86.1	Lg	08:56:03.052	-0.5					T__				---		44032479	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 0.3 magdef=1)																									
(Station ML: 0.3 magdef=1)																									
MPLH	1.09	333.2	Pg	08:56:16.084	0.8					T__		4.2		___	ML	1.7	44032480	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
MPLH	1.09	333.2	Lg	08:56:30.184	-1.5					T__				---		44032481	FDSN	HU	--	MP	ISC	BHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
PSZI	2.05	32.4	I	09:08:48.600	1.2	212.3	-1.2			TA_				---		22	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018hmiu Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/04/17	08:49:38.04	0.48	0.76	47.1453	19.2348				0.0	0.0	5	0	174	0.37	1.01	kx	BUD	37105874	KM			360
2018/04/17	08:49:35.54	1.29	1.89	47.1718	19.2845	5.0	4.3	103	0.0f		7	4	176	0.36	1.05	kx	ILOC	8	ILOC			301
(bomb demolition, Dabas, Hungary)																						
(#PRIME)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
BUD	0.36	330.5	Lg	08:49:49.534	-0.1					T__				---		37105875	FDSN	HU	--	BUD	iLoc	BHE	???	_	
PSZI	0.85	28.7	I	08:54:18.800	-3.7	207.9	-1.3			TA_				---		187	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	0.85	28.7	Pn	08:49:54.346	0.3					T__		4.5		_c_	ML	1.6	37105876	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.85	28.7	Lg	08:50:07.676	0.5					T__				---		37105877	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=0)																									
MORH	1.05	205.0	Pg	08:49:56.562	-0.1					T__		1.7		___	ML	1.3	37105878	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	1.05	205.0	Lg	08:50:11.727	-0.7					T__				---		37105879	FDSN	HU	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=0)																									

Event bud2018hojq Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/04/18	11:31:52.51	0.81	0.54	47.8987	20.0893				0.0	0.0	8	0	220	0.11	1.01	kx	BUD_GT	36981664	sysop			360
(GT info : GT2 explosion)																						
(locality : Recsk)																						
2018/04/18	11:31:50.78	1.19	0.83	47.8956	20.0570	4.1	0.7	101	0.0f		10	5	218	0.11	1.01	kx	ILOC	9	ILOC			255
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.9	0.2	4 ILOC	9

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
PSZ	0.11	281.8	Pg	11:31:54.004	0.2					T__		164.7		___ ML	1.8	36981666	FDSN	GE	--	MP	ISC	BHZ	BHZ	_
PSZ	0.11	281.8	Lg	11:31:56.338	0.0					T__				___		36981665	FDSN	GE	--	MP	ISC	BHN	???	_
(Reading ML: 1.8 magdef=1)																								
(Station ML: 1.8 magdef=1)																								
PSZI	0.11	281.5	I	11:32:26.400	-0.4	97.2	-4.2			TA_				___	188		FDSN	HN	--	BUD	iLoc	BDF	???	_
KECS	0.65	25.8	Pg	11:32:04.593	0.7					T__		12.0		___ ML	1.9	36981668	FDSN	SK	--	MP	ISC	EHN	EHZ	_
(Reading ML: 1.9 magdef=1)																								
KECS	0.65	25.8	Lg	11:32:13.817	-0.1					T__				___		36981667	FDSN	SK	--	BUD	iLoc	EHE	???	_
(Station ML: 1.9 magdef=1)																								
ABAH	0.89	62.7	Pn	11:32:09.685	0.0					T__		11.5		___ ML	2.1	36981669	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
(Reading ML: 2.1 magdef=1)																								
ABAH	0.89	62.7	Lg	11:32:21.769	-1.3					T__				___		36981670	FDSN	HU	--	MP	ISC	HHN	???	_
(Station ML: 2.1 magdef=1)																								
VYHS	1.01	306.7	Pg	11:32:11.843	0.7					T__		1.3		___ ML	1.2	36981672	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	1.01	306.7	Lg	11:32:24.644	-1.4					T__				___		36981671	FDSN	SK	--	BUD	iLoc	HHN	???	_
(Reading ML: 1.2 magdef=1)																								
(Station ML: 1.2 magdef=1)																								

Event bud2018hrvp Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/04/20	08:58:50.92			46.1765	18.2926				0.0	0.0	5	0	168	0.15	1.10	kx	BUD_GT	44032984	BUD			360
(GT info : GT2 explosion)																						
(locality : Komlo)																						
2018/04/20	08:58:49.21	1.51	1.66	46.1300	18.2892	7.3	3.7	142	0.0f		7	4	181	0.14	2.10	kx	ILOC	18	ILOC			221
(#PRIME)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
KOVH	0.14	252.5	Pg	08:58:53.300	0.7					T__		45.1		_c_ ML	1.3	44032986	FDSN	HU	--	MP	ISC	BH	BHZ	_
KOVH	0.14	252.5	Lg	08:58:55.863	0.5					T__				___		44032985	FDSN	HU	--	MP	ISC	BHZ	???	_
(Reading ML: 1.3 magdef=1)																								
(Station ML: 1.3 magdef=1)																								
MORH	0.26	70.8	Pg	08:58:55.112	0.1					T__		5.4		___ ML	0.8	44032987	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
(Reading ML: 0.8 magdef=1)																								
MORH	0.26	70.8	Lg	08:58:59.097	-0.4					T__				___		44032988	FDSN	HU	--	MP	ISC	BHZ	???	_
(Station ML: 0.8 magdef=0)																								
BEHE	1.10	288.5	Lg	08:59:26.467	-1.7					T__				___		44032989	FDSN	HU	--	MP	ISC	BHE	???	_
PSZI	2.10	31.0	I	09:12:05.000	2.7	210.2	-1.9			TA_				___		23	FDSN	HN	--	BUD	iLoc	BDF	???	_

Event bud2018iczl Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/04/26	11:24:19.80	0.43	0.38	48.3707	19.8707				0.0	0.0	6	0	153	0.42	0.70	kx	BUD	36983724	sysop			360
2018/04/26	11:24:18.53	1.44	1.66	48.3237	19.8668	5.9	4.5	88	0.0f		7	4	144	0.41	0.71	kx	ILOC	5	ILOC			253

(#PRIME)
(quarry blast, Velke-Dravce, Slovakia)

Magnitude	Err	Nsta	Author	OrigID
ML	1.7	0.5	3 ILOC	5

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.41	177.4	Pg	11:24:27.895	0.4					T__		20.4		___	ML	1.7	36983727	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.41	177.4	Lg	11:24:34.525	0.3					T__				___		36983728	FDSN	GE	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
PSZI	0.41	177.5	I	11:26:27.400	-3.0	346.2	-11.3			T__				___		134	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.44	68.6	Pg	11:24:27.861	0.4					T__		34.3		___	ML	2.1	36983725	FDSN	SK	--	BUD	iLoc	EHE	EHZ	_
KECS	0.44	68.6	Lg	11:24:33.401	-0.9					T__				___		36983726	FDSN	SK	--	BUD	iLoc	EHE	???	_	
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=1)																									
VYHS	0.71	284.3	Pg	11:24:33.083	0.3					T__		0.9		___	ML	0.8	36983729	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.71	284.3	Lg	11:24:42.505	-0.8					T__				___		36983730	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 0.8 magdef=1 Station ML: 0.8 magdef=1)																									

Event bud2018inon Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/05/02	06:23:58.38	0.30	1.02	48.4079	17.2461				0.0	0.0	11	0	76	0.04	1.55	kx	BUD	37437021	KM			360
2018/05/02	06:23:55.97	1.06	1.18	48.4310	17.1625	4.5	4.1	10	0.0f		13	8	81	0.10	1.90	kx	ILOC	6	ILOC			143

(#PRIME)
(quarry blast, Rohoznik, Slovakia)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
MODS	0.10	126.8	Pg	06:23:58.627	0.1					T__				_c_		37437023	FDSN	SK	--	BUD	iLoc	HH	???	_	
MODS	0.10	126.8	Lg	06:24:00.050	-0.6					T__				___		37437022	FDSN	SK	--	BUD	iLoc	HHE	???	_	
ZST	0.24	189.7	Pg	06:24:01.874	0.6					T__		125.6		___	ML	2.1	37437024	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
ZST	0.24	189.7	Lg	06:24:05.686	0.4					T__				___		37437025	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=0)																									
JAVC	0.55	38.0	Pg	06:24:07.561	0.4					T__				___		37437026	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
JAVC	0.55	38.0	Lg	06:24:16.150	0.7					T__				___		37437027	FDSN	CZ	--	BUD	iLoc	BHE	???	_	
KRUC	0.81	321.5	Pn	06:24:13.015	-0.7					T__				___		37437029	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
KRUC	0.81	321.5	Sn	06:24:27.987	0.6					T__				___		37437028	FDSN	CZ	--	BUD	iLoc	BHE	???	_	
CONA	1.01	240.5	Sn	06:24:32.661	-0.0					T__				___		37437030	FDSN	OE	--	BUD	iLoc	BHN	???	_	
VYHS	1.12	86.1	Lg	06:24:33.079	-1.4					T__				___		37437031	FDSN	SK	--	BUD	iLoc	HHN	???	_	
OKC	1.55	24.3	Lg	06:24:46.744	0.4					T__				___		37437032	FDSN	CZ	--	BUD	iLoc	BHE	???	_	
PSZI	1.90	104.7	I	06:35:51.600	3.1	289.9	3.2			TA_				___		135	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018ipkh Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/05/03	06:31:16.42			48.0750	20.6990				0.0			0					kx BUD_GT	24	BUD			
(GT info : GT2 explosion)																						
(Locality : Miskolc-Mexikovolgy)																						
2018/05/03	06:31:14.92	1.48	0.64	48.0667	20.6718	4.1	3.2	83	0.0f		7	4	195	0.44	1.37		kx ILOC	5	ILOC			264
(#PRIME)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
ABAH	0.44	58.7	Pg	06:31:24.413	0.4					T__		4.9		___	ML	1.2	38084198	FDSN	HU	--	MP	ISC	HHZ	HHZ	_
(Reading ML: 1.2 magdef=1)																									
ABAH	0.44	58.7	Lg	06:31:30.758	-0.9					T__				___		38084199	FDSN	HU	--	BUD	iLoc	HHN	???	_	
(Station ML: 1.2 magdef=0)																									
PSZ	0.54	254.4	Pg	06:31:26.906	0.2					T__		4.3		___	ML	1.4	38084200	FDSN	GE	--	MP	ISC	BHZ	BHZ	_
PSZ	0.54	254.4	Lg	06:31:34.845	-0.6					T__				___		38084201	FDSN	GE	--	MP	ISC	BHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=0)																									
PSZI	0.54	254.4	I	06:34:12.800	-0.0	71.2	-2.6			TA_				___		104	FDSN	HN	--	BUD	iLoc	BDF	???	_	
NIE	1.37	349.8	Lg	06:32:01.038	0.4					T__				___		38084202	FDSN	PL	--	BUD	iLoc	BHN	???	_	

Event bud2018jaon Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2018/05/09	09:08:58.58	1.41	0.25	45.9786	17.9597				0.0	0.0	6	0	283	0.15	1.23		kx BUD	44033107	sysop				360
2018/05/09	09:08:59.25	1.54	0.56	46.1306	18.0134	5.7	4.5	104	0.0f		8	4	217	0.07	2.20		kx ILOC	19	ILOC				269
(#PRIME)																							
(quarry blast, Bukkosd, Hungary)																							

Magnitude	Err	Nsta	Author	OrigID
ML	1.7	0.2	3 ILOC	19

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.07	125.1	Pg	09:09:01.741	0.4					T__		161.2		_c_	ML	1.7	44033109	FDSN	HU	--	MP	ISC	BH	BHZ	_
(Reading ML: 1.7 magdef=1)																									
KOVH	0.07	125.1	Lg	09:09:03.047	-0.2					T__				___		44033108	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Station ML: 1.7 magdef=1)																									
MORH	0.45	78.9	Pg	09:09:08.899	0.3					T__		0.9		___	ML	0.5	44033110	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
(Reading ML: 0.5 magdef=1)																									
MORH	0.45	78.9	Lg	09:09:15.048	-0.8					T__				___		44033111	FDSN	HU	--	MP	ISC	BHZ	???	_	
(Station ML: 0.5 magdef=1)																									
MPLH	1.09	342.7	Pg	09:09:21.489	0.1					T__		5.9		___	ML	1.9	44033113	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
MPLH	1.09	342.7	Lg	09:09:37.619	-0.1					T__				___		44033112	FDSN	HU	--	MP	ISC	BHN	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
PSZI	2.20	35.0	I	09:22:53.800	0.8	221.3	4.9			TA_				___		25	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018jfwx Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2018/05/12	07:04:55.87	1.07	0.76	47.9256	19.5853				0.0	0.0	6	0	227	0.21	1.57		kx BUD	44033306	sysop				360
2018/05/12	07:04:55.30	1.26	1.67	47.9978	19.6601	4.6	1.1	116	0.0f		8	5	195	0.18	1.48		kx ILOC	20	ILOC				259
(#PRIME)																							

(quarry blast, Nagyloc, Hungary)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZI	0.18	116.9	I	07:05:50.600	-1.3	296.0	-1.1			TA_						26	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	0.18	116.7	Pg	07:05:00.092	0.5					T__		33.1		---	ML	1.3	44033307	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.18	116.7	Lg	07:05:02.493	-0.6					T__				---		44033308	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=0)																									
VYHS	0.74	312.3	Lg	07:05:19.783	-1.5					T__				---		44033309	FDSN	SK	--	BUD	iLoc	HHN	???	_	
ABAH	1.10	73.7	Pn	07:05:18.284	1.1					T__		3.6		---	ML	1.7	44033311	FDSN	HU	--	MP	ISC	HHZ	HHZ	_
ABAH	1.10	73.7	Sn	07:05:31.927	-2.5					T__				---		44033310	FDSN	HU	--	BUD	iLoc	HHE	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=0)																									
NIE	1.48	16.4	Lg	07:05:45.992	1.4					T__				---		44033312	FDSN	PL	--	BUD	iLoc	BHE	???	_	

Event bud2018jwip Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2018/05/21	07:09:20.07	0.35	0.81	48.4002	17.3250				0.0	0.0	17	0	147	0.04	3.75	kx	BUD	38088948	KM			360		
2018/05/21	07:09:18.91	1.17	0.70	48.3640	17.3440	7.5	3.7	117	0.0f		18	10	114	0.05	3.75	kx	ILOC	7	ILOC			149		
(#PRIME)																								
(quarry blast, Rohoznik, Slovakia)																								

Magnitude	Err	Nsta	Author	OrigID
ML	1.8	0.3	5 ILOC	7

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
MODS	0.05	282.2	Pg	07:09:20.635	0.1					T__				---		38088949	FDSN	SK	--	BUD	iLoc	HHZ	???	_	
MODS	0.05	282.2	Lg	07:09:21.514	-0.4					T__				---		38088950	FDSN	SK	--	BUD	iLoc	HHN	???	_	
ZST	0.23	223.9	Pg	07:09:23.987	-0.1					T__		261.3		---	ML	2.4	38088951	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
ZST	0.23	223.9	Lg	07:09:27.823	-0.2					T__				---		38088952	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 2.4 magdef=1)																									
(Station ML: 2.4 magdef=1)																									
JAVC	0.54	23.5	Pg	07:09:29.627	-0.4					T__				---		38088953	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
JAVC	0.54	23.5	Lg	07:09:37.487	-0.8					T__				---		38088954	FDSN	CZ	--	BUD	iLoc	BHN	???	_	
SOP	0.86	218.0	Pn	07:09:37.386	-0.1					T__		4.2		---	ML	1.6	38088957	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
SOP	0.86	218.0	Lg	07:09:47.481	-1.2					T__				---		38088958	FDSN	HU	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
KRUC	0.94	318.4	Pg	07:09:36.440	-0.3					T__				---		38088955	FDSN	CZ	--	BUD	iLoc	BHN	???	_	
KRUC	0.94	318.4	Lg	07:09:48.663	-1.4					T__				---		38088956	FDSN	CZ	--	BUD	iLoc	BHE	???	_	
VRAC	1.07	332.6	Pg	07:09:39.165	0.2					T__				---		38088959	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
VRAC	1.07	332.6	Lg	07:09:54.037	0.2					T__				---		38088960	FDSN	CZ	--	BUD	iLoc	BHN	???	_	
CONA	1.08	246.8	Pg	07:09:39.970	-0.4					T__		3.1		---	ML	1.6	38088961	FDSN	OE	--	BUD	iLoc	BHZ	BHZ	_
CONA	1.08	246.8	Lg	07:09:56.168	-0.2					T__				---		38088962	FDSN	OE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=0)																									
ARSA	1.66	228.4	Pn	07:09:49.724	1.3					T__		2.5		---	ML	1.8	38088963	FDSN	OE	--	BUD	iLoc	BHZ	BHZ	_
ARSA	1.66	228.4	Lg	07:10:13.837	-0.2					T__				---		38088964	FDSN	OE	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
PSZI	1.76	103.7	I	07:19:27.400	-48.6	282.4	-3.2			_A_				---		136	FDSN	HN	--	BUD	iLoc	BDF	???	_	

KWP 3.75 68.2 Pn 07:10:19.209 0.8 T__ 182.4 ___ ML 4.8 38088965 FDSN PL -- BUD iLoc BHZ BHZ _
 (Reading ML: 4.8 magdef=1
 (Station ML: 4.8 magdef=0

Event bud2018kabq Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/05/23	08:11:00.48	0.44	0.44	48.1964	19.7839				0.0	0.0	6	0	130	0.29	0.98	kx	BUD	38120843	KM			360
2018/05/23	08:10:59.06	1.24	1.64	48.1693	19.7865	4.5	1.6	163	0.0f		8	5	133	0.26	0.98	kx	ILOC	8	ILOC			251

(#PRIME)
 (quarry blast, Siatorska, Slovakia)

Magnitude Err Nsta Author OrigID
 ML 1.9 0.0 3 ILOC 8

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.26	163.9	Pg	08:11:05.435	0.4					T__		18.0		___	ML	1.3	38120844	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.26	163.9	Lg	08:11:09.763	0.0					T__				___		38120845	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.3 magdef=1 (Station ML: 1.3 magdef=1																									
PSZI	0.26	164.0	I	08:12:20.000	-3.4	348.9	4.8			TA_				___		137	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.56	55.8	Pg	08:11:10.525	0.2					T__		11.8		___	ML	1.9	38120847	FDSN	SK	--	BUD	iLoc	EHN	EHZ	_
KECS	0.56	55.8	Lg	08:11:18.211	-0.8					T__				___		38120846	FDSN	SK	--	BUD	iLoc	EHN	???	_	
(Reading ML: 1.9 magdef=1 (Station ML: 1.9 magdef=1																									
VYHS	0.71	297.5	Lg	08:11:23.058	-0.9					T__				___		38120848	FDSN	SK	--	BUD	iLoc	HHN	???	_	
ABAH	0.98	82.0	Pn	08:11:19.526	0.3					T__		6.7		___	ML	1.9	38120849	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
(Reading ML: 1.9 magdef=1 (Station ML: 1.9 magdef=1																									

Event bud2018kdsd Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2018/05/25	08:06:31.84	0.32	1.24	47.5600	18.4573				0.0	0.0	13	0	110	0.26	1.46	kx	BUD_GT	38121439	KM				360	
(GT info : GT2 explosion) (locality : Tatabanya)																								
2018/05/25	08:06:29.60	1.03	1.30	47.5323	18.5580	4.6	3.4	140	0.0f		15	10	111	0.26	1.45	kx	ILOC	10	ILOC				163	

(#PRIME)

Magnitude Err Nsta Author OrigID
 ML 1.7 0.3 4 ILOC 10

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
CSKK	0.26	230.1	Pg	08:06:35.487	0.1					T__		642.4		___	ML	2.8	38121440	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
CSKK	0.26	230.1	Lg	08:06:39.825	-0.1					T__				___		38121441	FDSN	HU	--	BUD	iLoc	HHE	???	_	
(Reading ML: 2.8 magdef=1 (Station ML: 2.8 magdef=1																									
SRO	0.33	329.6	Lg	08:06:42.094	0.3					T__				___		38121442	FDSN	SK	--	BUD	iLoc	EHN	???	_	
MPLH	0.78	242.8	Pg	08:06:45.465	-0.1					T__		6.4		___	ML	1.7	38121444	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MPLH	0.78	242.8	Lg	08:06:57.500	0.1					T__				___		38121443	FDSN	HU	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.7 magdef=1																									

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(Station ML: 1.7 magdef=1
EGYH  0.84 262.6 Sn    08:07:01.466  -0.6    T__
VYHS  0.98 10.9 Pn    08:06:50.290   0.6    T__
VYHS  0.98 10.9 Lg    08:07:03.667  -0.2    T__
(Reading ML: 1.3 magdef=1
(Station ML: 1.3 magdef=1
PSZI  0.98 66.3 I     08:12:01.200  -3.2 250.5  3.2    TA_
PSZ   0.98 66.3 Pg    08:06:50.717   0.4    T__
PSZ   0.98 66.3 Lg    08:07:05.356  -0.3    T__
(Reading ML: 1.7 magdef=1
(Station ML: 1.7 magdef=1
MODS  1.20 314.8 Sn   08:07:08.150  -2.7    T__
MORH  1.32 177.4 Sn   08:07:13.056  -0.5    T__
JAVC  1.45 336.2 Sn   08:07:18.257   1.2    T__

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Event bud2018kjex Hungary

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Date      Time      Err  RMS Latitude Longitude  Smaj  Smin  Az Depth  Err Ndef Nsta Gap  mdist  Mdist Qual  Author  OrigID  Rep  DPdep  Err Sgp
2018/05/28 08:03:26.53  0.33  0.92 47.8987  20.0893  0.0  4.1 12 0 83 0.10 2.52 kx BUD_GT 37886816  sysop  360
(GT info : GT2 explosion)
(locality : Recsk)
2018/05/28 08:03:26.11  1.04  1.20 47.9053  20.0262  3.8 0.6 98 0.0f 14 9 80 0.09 2.54 kx ILOC 1 ILOC 124
(#PRIME)

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Magnitude  Err Nsta Author  OrigID
ML 2.0 0.2 8 ILOC 1

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Sta  Dist  EVAz Phase      Time      TRes  Azim AzRes  Slow  SRes  Def  SNR  Amp  Per  Qual Magnitude  ArrID  Agy  Deploy  Ln Auth  Rep  PCh ACh L
PSZ  0.09 278.5 Pg    08:03:28.810  0.1    T__
PSZ  0.09 278.5 Lg    08:03:31.609  0.8    T__
(Reading ML: 2.0 magdef=1
(Station ML: 2.0 magdef=1
PSZI  0.09 278.1 I     08:03:54.800  -0.3 97.2 -0.8    TA_
KECS  0.65 27.8 Pg    08:03:41.716  2.5    T__
KECS  0.65 27.8 Lg    08:03:48.937  -0.3    T__
(Reading ML: 2.1 magdef=1
(Station ML: 2.1 magdef=1
ABAH  0.90 63.9 Pg     08:03:44.163  0.2    T__
(Reading ML: 2.1 magdef=1
(Station ML: 2.1 magdef=1
VYHS  0.99 306.9 Pg    08:03:45.705  -0.3    T__
VYHS  0.99 306.9 Lg    08:03:59.524  -1.1    T__
(Reading ML: 1.1 magdef=1
(Station ML: 1.1 magdef=0
MORH  1.94 209.7 Pn    08:04:00.552  1.0    T__
(Reading ML: 1.5 magdef=1
(Station ML: 1.5 magdef=1
SIRR  1.98 145.1 Pn    08:03:58.773  -1.5    T__
(Reading ML: 1.9 magdef=1
(Station ML: 1.9 magdef=1
DRGR  2.14 120.4 Pn    08:04:01.255  -1.6    T__
DRGR  2.14 120.4 Sn    08:04:30.299  -0.6    T__

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(Reading ML: 2.3 magdef=1
 (Station ML: 2.3 magdef=0
 BZS 2.54 153.9 Pn 08:04:08.975 1.1 T__ 2.0 ___ ML 2.2 37886828 FDSN RO -- BUD iLoc BHZ BHZ _
 (Reading ML: 2.2 magdef=1
 (Station ML: 2.2 magdef=1

Event bud2018kjjc Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/05/28	10:10:24.98	1.30	0.39	47.8987	20.0893				0.0	0.0	7	0	256	0.19	1.10	kx	BUD_GT	38122330	KM			360
(GT info : GT2 explosion)																						
(locality : Recsk)																						
2018/05/28	10:10:25.67	1.44	1.64	47.8998	20.0444	4.2	0.6	100	0.0f		9	5	216	0.10	1.00	kx	ILOC	12	ILOC			253
(#PRIME)																						

Magnitude Err Nsta Author OrigID
 ML 1.8 0.4 3 ILOC 12

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.10	280.5	Pg	10:10:28.900	0.4					T__		165.5		___	ML	1.8	38122331	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.10	280.5	Lg	10:10:31.171	0.3					T__				___		38122332	FDSN	GE	--	BUD	iLoc	BHZ	???	_	
(Reading ML: 1.8 magdef=1 (Station ML: 1.8 magdef=1																									
PSZI	0.10	280.2	I	10:10:56.000	-2.8	97.3	-2.7			TA_				___		191	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.65	26.7	Pg	10:10:39.562	0.8					T__		15.3		___	ML	2.0	38122333	FDSN	SK	--	BUD	iLoc	EHN	EHZ	_
KECS	0.65	26.7	Lg	10:10:49.703	0.9					T__				___		38122334	FDSN	SK	--	BUD	iLoc	EHN	???	_	
(Reading ML: 2.0 magdef=1 (Station ML: 2.0 magdef=1																									
ABAH	0.89	63.2	Lg	10:10:55.765	-2.4					T__				___		38122335	FDSN	HU	--	BUD	iLoc	HHZ	???	_	
VYHS	1.00	306.8	Pg	10:10:46.079	0.3					T__		0.9		___	ML	1.0	38122336	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	1.00	306.8	Lg	10:10:59.634	-1.0					T__				___		38122337	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.0 magdef=1 (Station ML: 1.0 magdef=1																									

Event bud2018kkyx Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2018/05/29	07:17:41.53			47.8285	19.9317				0.0								kx	BUD_GT	25	BUD			
(GT info : GT2 explosion)																							
(locality : Gyongyosolyomos-II)																							
2018/05/29	07:17:40.74	1.32	0.79	47.8675	19.9269	5.2	0.3	156	0.0f		10	5	247	0.06	0.98	kx	ILOC	6	ILOC				280
(#PRIME)																							

Magnitude Err Nsta Author OrigID
 ML 1.8 0.3 4 ILOC 6

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZI	0.06	336.0	I	07:17:57.200	-1.3	159.8	3.8			TA_				___		105	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	0.06	336.8	Pg	07:17:42.761	0.1					T__		303.4		___	ML	1.9	38122367	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.06	336.8	Lg	07:17:44.802	0.5					T__				___		38122368	FDSN	GE	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.9 magdef=1																									

(Station ML: 1.9 magdef=1
KECS 0.72 31.0 Pn 07:17:57.658 0.5 T__ 17.5 ___ ML 2.1 38122369 FDSN SK -- BUD iLoc EHN EHZ _
KECS 0.72 31.0 Lg 07:18:06.455 0.3 T__ ___ 38122370 FDSN SK -- BUD iLoc EHE ??? _
(Reading ML: 2.1 magdef=1
(Station ML: 2.1 magdef=1
VYHS 0.96 311.1 Pn 07:18:00.506 -0.1 T__ 0.8 ___ ML 0.9 38122371 FDSN SK -- BUD iLoc HHZ HHZ _
VYHS 0.96 311.1 Lg 07:18:13.797 -0.5 T__ ___ 38122372 FDSN SK -- BUD iLoc HHN ??? _
(Reading ML: 0.9 magdef=1
(Station ML: 0.9 magdef=1
ABAH 0.98 63.5 Pn 07:18:00.917 -0.0 T__ 4.4 ___ ML 1.7 38122373 FDSN HU -- BUD iLoc HHZ HHZ _
ABAH 0.98 63.5 Lg 07:18:14.810 -1.4 T__ ___ 38122374 FDSN HU -- BUD iLoc HHE ??? _
(Reading ML: 1.7 magdef=1
(Station ML: 1.7 magdef=1

Event bud2018kzn1 Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/06/06	06:33:35.00			47.3637	18.3977				0.0			0					kx BUD_GT	26	BUD			
(GT info : GT2 explosion)																						
(locality : Gant)																						
2018/06/06	06:33:31.73	1.74	0.92	47.4475	18.4421	6.6	5.1	154	0.0f		5	3	188	0.15	1.24		kx ILOC	7	ILOC			297
(#PRIME)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
CSKK	0.15	235.7	Lg	06:33:37.700	-0.5					T__						38578906	FDSN	HU	--	BUD	iLoc	HHN	???	_
PSZI	1.09	63.8	I	06:39:47.200	-0.9	242.7	-2.2			TA_						106	FDSN	HN	--	BUD	iLoc	BDF	???	_
MORH	1.24	173.5	Pg	06:33:57.002	0.6					T__		0.7		___ ML	1.0	38578908	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	1.24	173.5	Sn	06:34:13.205	-0.6					T__				___		38578907	FDSN	HU	--	BUD	iLoc	BHE	???	_
(Reading ML: 1.0 magdef=1 (Station ML: 1.0 magdef=0																								

Event bud2018kztt Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/06/06	09:44:45.33	1.17	0.83	47.8378	19.1394				0.0	0.0	7	0	236	0.51	1.42		kx BUD	38580005	KM			360
2018/06/06	09:44:44.21	1.47	0.39	47.8864	19.1733	4.4	2.8	74	0.0f		9	5	228	0.49	1.40		kx ILOC	7	ILOC			253
(#PRIME)																						
(quarry blast, Keszeg, Hungary)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.4	0.8	3 ILOC	7

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
PSZI	0.49	86.0	I	09:47:22.600	0.1	263.1	-3.4			TA_						116	FDSN	HN	--	BUD	iLoc	BDF	???	_
PSZ	0.49	86.0	Pg	09:44:54.958	0.1					T__		5.7		___ ML	1.4	38580006	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.49	86.0	Lg	09:45:02.474	-0.4					T__				___		38580007	FDSN	GE	--	BUD	iLoc	BHN	???	_
(Reading ML: 1.4 magdef=1 (Station ML: 1.4 magdef=1																								
VYHS	0.65	339.8	Pg	09:44:57.860	0.5					T__		1.0		___ ML	0.9	38580008	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.65	339.8	Lg	09:45:06.807	-0.3					T__				___		38580009	FDSN	SK	--	BUD	iLoc	HHN	???	_
(Reading ML: 0.9 magdef=1																								

(Station ML: 0.9 magdef=1
 KECS 1.06 55.3 Pg 09:45:05.205 -0.1 T__ 13.5 ___ ML 2.2 38580011 FDSN SK -- BUD iLoc EHZ EHZ _
 KECS 1.06 55.3 Lg 09:45:21.464 0.3 T__ ___ 38580010 FDSN SK -- BUD iLoc EHN ??? _
 (Reading ML: 2.2 magdef=1
 (Station ML: 2.2 magdef=1
 JAVC 1.40 314.7 Lg 09:45:31.495 -0.6 T__ ___ 38580012 FDSN CZ -- BUD iLoc BHE ??? _

Event bud2018kzue Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/06/06	09:57:15.44	0.34	0.58	47.8987	20.0893				0.0	0.0	10	0	146	0.12	1.96	kx	BUD_GT	38580233	KM			360
(GT info : GT2 explosion)																						
(locality : Recsk)																						
2018/06/06	09:57:13.26	0.96	2.03	47.9123	20.0447	3.6	0.6	93	0.0f		15	9	89	0.10	2.13	kx	ILOC	13	ILOC			146
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.9	0.4	4 ILOC	13

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.10	273.5	Pg	09:57:16.548	0.5					T__		391.0		___	ML	2.2	38580234	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.10	273.5	Lg	09:57:18.661	0.3					T__				___		38580235	FDSN	GE	--	BUD	iLoc	BHE	???	_	
(Reading ML: 2.2 magdef=1)																									
(Station ML: 2.2 magdef=1)																									
PSZI	0.10	273.2	I	09:57:41.000	-5.0	97.5	4.4			TA_				___		192	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.64	27.1	Lg	09:57:36.229	0.2					T__				___		38580236	FDSN	SK	--	BUD	iLoc	EHE	???	_	
BUD	0.81	238.5	Lg	09:57:42.938	-0.0					T__				___		38580237	FDSN	HU	--	BUD	iLoc	BHE	???	_	
ABAH	0.89	63.9	Pg	09:57:31.618	0.8					T__		13.0		___	ML	2.1	38580238	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
ABAH	0.89	63.9	Lg	09:57:43.923	-1.6					T__				___		38580239	FDSN	HU	--	BUD	iLoc	HHN	???	_	
(Reading ML: 2.1 magdef=1)																									
(Station ML: 2.1 magdef=1)																									
VYHS	1.00	306.2	Pn	09:57:34.792	1.2					T__		1.9		___	ML	1.3	38580240	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	1.00	306.2	Lg	09:57:46.711	-1.2					T__				___		38580241	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=1)																									
JAVC	1.84	301.8	Lg	09:58:15.544	-0.7					T__				___		38580242	FDSN	CZ	--	BUD	iLoc	BHE	???	_	
MORH	1.95	209.9	Pg	09:57:50.152	-2.5					T__		1.2		___	ML	1.7	38580245	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	1.95	209.9	Pb	09:57:52.671	-0.0					T__		1.2		___	ML	1.7	38580243	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	1.95	209.9	Sn	09:58:15.217	2.7					T__				___		38580244	FDSN	HU	--	BUD	iLoc	BHZ	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
DRGR	2.13	120.8	Sn	09:58:15.896	-2.0					T__				___		38580246	FDSN	RO	--	BUD	iLoc	BHN	???	_	

Event bud2018ldho Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/06/08	08:06:46.10	0.35	0.73	48.4458	19.1295				0.0	0.0	8	0	131	0.74	1.69	kx	BUD	38581164	KM			360
2018/06/08	08:06:43.70	1.23	0.58	48.3813	19.1043	4.6	3.8	164	0.0f		10	6	139	0.70	1.73	kx	ILOC	8	ILOC			166
(#PRIME)																						
(quarry blast, Krupina, Slovakia)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZI	0.70	131.0	I	08:10:38.000	1.3	310.6	-1.0			TA_				---		117	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	0.70	130.9	Pn	08:06:59.956	-0.1					T__		4.2		---	ML	1.5	38581166	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.70	130.9	Lg	08:07:09.720	-0.0					T__				---		38581165	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=0)																									
KECS	0.93	83.2	Pn	08:07:02.657	-0.3					T__		11.9		---	ML	2.1	38581167	FDSN	SK	--	BUD	iLoc	EHN	EHZ	_
KECS	0.93	83.2	Lg	08:07:16.228	0.3					T__				---		38581168	FDSN	SK	--	BUD	iLoc	EHE	???	_	
(Reading ML: 2.1 magdef=1)																									
(Station ML: 2.1 magdef=0)																									
JAVC	1.06	297.2	Pn	08:07:05.773	0.6					T__				---		38581170	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
JAVC	1.06	297.2	Sn	08:07:21.387	-0.2					T__				---		38581169	FDSN	CZ	--	BUD	iLoc	BHE	???	_	
MODS	1.22	270.3	Lg	08:07:25.507	-0.1					T__				---		38581171	FDSN	SK	--	BUD	iLoc	HHE	???	_	
MORC	1.73	324.3	Sn	08:07:37.971	-0.3					T__				---		38581172	FDSN	CZ	--	BUD	iLoc	BHN	???	_	

Event bud2018lomi Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2018/06/14	11:01:46.22	0.45	0.43	48.1833	19.7837				0.0	0.0	5	0	132	0.28	0.70	kx	BUD	38639724	sysop			360	
2018/06/14	11:01:44.12	1.32	2.55	48.1596	19.7968	4.7	1.5	165	0.0f		7	4	132	0.25	0.72	kx	ILOC	9	ILOC			249	
(#PRIME)																							
(quarry blast, Siatorska, Slovakia)																							

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.25	164.8	Pg	11:01:50.885	1.0					T__		21.1		---	ML	1.3	38639725	FDSN	GE	--	MP	ISC	BHZ	BHZ	_
PSZ	0.25	164.8	Lg	11:01:55.160	0.8					T__				---		38639726	FDSN	GE	--	MP	ISC	BHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=0)																									
PSZI	0.25	164.9	I	11:03:00.000	-4.8	350.2	5.2			TA_				---		139	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.56	54.6	Lg	11:02:04.015	-0.0					T__				---		38639727	FDSN	SK	--	MP	ISC	EHN	???	_	
VYHS	0.72	297.9	Pn	11:01:59.587	-1.0					T__		0.8		---	ML	0.8	38639728	FDSN	SK	--	MP	ISC	HHZ	HHZ	_
VYHS	0.72	297.9	Lg	11:02:09.053	-0.4					T__				---		38639729	FDSN	SK	--	MP	ISC	HHN	???	_	
(Reading ML: 0.8 magdef=1)																									
(Station ML: 0.8 magdef=0)																									

Event bud2018lxna Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2018/06/19	09:35:58.45	0.67	0.85	46.9736	22.8483				0.0	0.0	6	0	196	0.20	1.74	kx	BUD	38773481	MP			360	
2018/06/19	09:35:55.34	1.55	0.67	47.0312	22.8393	7.0	4.3	15	0.0f		8	5	134	0.26	2.19	kx	ILOC	9	ILOC			222	
(#PRIME)																							
(quarry blast, ?, Romania)																							

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
DRGR	0.26	200.2	Pg	09:36:01.305	0.5					T__		32.5		---	ML	1.5	38773482	FDSN	RO	--	MP	ISC	BHZ	BHZ	_
DRGR	0.26	200.2	Lg	09:36:05.376	0.0					T__				---		38773483	FDSN	RO	--	MP	ISC	BHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=0)																									
SIRR	1.12	227.2	Pg	09:36:18.607	0.7					T__		1.8		---	ML	1.4	38773485	FDSN	RO	--	MP	ISC	BHZ	BHZ	_
SIRR	1.12	227.2	Lg	09:36:33.773	-1.1					T__				---		38773484	FDSN	RO	--	MP	ISC	BHN	???	_	

(Reading ML: 1.4 magdef=1
(Station ML: 1.4 magdef=0

LOT	1.71	157.5	Sn	09:36:49.956	-0.4															
BURAR	1.72	69.3	Lg	09:36:52.809	-0.5															
PSZI	2.19	295.0	I	09:49:42.600	-0.2	117.9	5.0													

T__
T__
TA_

38773486
38773487
118

FDSN RO
FDSN RO
FDSN HN

-- MP
-- MP
-- BUD

ISC
ISC
iLoc

BHE ??? _
BHZ ??? _
BDF ??? _

Event 15932136 Baltic States - Belarus - Northwestern Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/06/21	01:09:25.15		0.05	52.0280	38.2823	72.9	5.2	10	0.0		10	0	230	4.74	77.90		uk ILOCIMS	1	IL			
2018/06/21	01:09:25.15	99.99	99.99	51.8032	37.8349	152.8	90.0	149	0.0		10	0	231	4.94	78.04		uk IDC_LEB	5937658				
2018/06/21	01:09:25.15f		0.05	52.0095	38.2763	6.1	4.4	51	0.0f		15	13	230	4.76	77.92		uk ILOC	1	ILOC			240

(#PRIME)

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
I43RU	4.76	353.0	I	01:39:30.000	0.0	173.9	1.8	322.30	-66.9	TA_		0.4	1.05	---	0.0	133266744	FDSN	IR	--	BUD	BUD	???	???	_
BURAR	9.52	247.6	I	02:17:00.000	641.4	54.4	-3.2			_A_				---	14		FDSN	IR	--	BUD	BUD	???	???	_
IPLOR	9.82	235.7	I	02:19:35.000	688.4	42.5	-4.4			_A_				---	27		FDSN	IR	--	BUD	BUD	???	???	_
I67RO	10.11	243.3	I	02:27:37.000	999	52.7	-0.6			_A_				---	8		FDSN	IR	--	BUD	BUD	???	???	_
PSZI	12.52	258.2	I	02:34:05.823	590.8	61.9	-2.2			_A_				---	6		FDSN	IR	--	BUD	BUD	???	???	_
PVCI	14.90	273.7	I	02:45:45.000	435.8	64.6	-10.5			---				---	8		FDSN	IR	--	BUD	BUD	???	???	_
I26DE	15.94	268.3	I	02:40:50.000	-999	62.1	-7.2	317.90	-40.8	---		0.0	0.66	---	0.0	133267322	FDSN	IR	--	BUD	BUD	???	???	_
I37NO	19.49	338.7	I	03:01:15.000	-999	142.6	1.2	323.00	-35.7	_A_		0.0	0.98	---	0.0	133267668	FDSN	IR	--	BUD	BUD	???	???	_
I48TN	26.17	243.2	I	03:44:30.000	-999	36.8	-5.9	316.10	-50.9	_A_		0.0	3.38	---	0.0	133268287	FDSN	IR	--	BUD	BUD	???	???	_
I18DK	43.41	342.4	I	05:38:20.000	204.6	57.3	-1.7	331.20	-35.8	_A_		0.1	2.15	---	0.0	133270428	FDSN	IR	--	BUD	BUD	???	???	_
I42PT	46.63	281.2	I	05:54:35.000	0.1	55.2	4.1	310.20	-56.8	TA_		0.2	1.17	---	0.0	133270789	FDSN	IR	--	BUD	BUD	???	???	_
I17CI	57.40	233.7	I	07:15:04.972	875.9	29.6	-0.5	311.90	-55.1	_A_		0.0	3.90	---	0.0	133271692	FDSN	IR	--	BUD	BUD	???	???	_
I53US	63.35	2.9	I	07:40:30.000	216.4	357.7	1.9	310.90	-56.1	_A_		0.0	2.12	---	0.0	133272037	FDSN	IR	--	BUD	BUD	???	???	_
I10CA	71.04	330.9	I	08:31:20.000	444.8	26.4	-1.5	316.50	-50.5	_A_		0.0	3.62	---	0.0	133272971	FDSN	IR	--	BUD	BUD	???	???	_
I56US	77.92	343.5	I	09:10:00.000	242.2	13.7	-1.6	313.10	-53.9	_A_		0.0	2.72	---	0.0	133273975	FDSN	IR	--	BUD	BUD	???	???	_

Event bud2018mijd Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/06/25	08:08:21.81	0.47	0.69	48.6015	20.7770				0.0	0.0	11	0	168	0.23	1.29		kx BUD	39183278	KM			360
2018/06/25	08:08:20.63	1.17	0.79	48.5581	20.7660	7.9	3.6	26	0.0f		12	7	164	0.20	1.28		kx ILOC	9	ILOC			201

(#PRIME)

(quarry blast, Dvorniky-Vcelare, Slovakia)

Magnitude	Err	Nsta	Author	OrigID
ML	1.5	0.3	6 ILOC	9

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KECS	0.20	248.2	Pg	08:08:25.197	0.4					T__		151.1		___	ML	2.0	39183279	FDSN	SK	--	BUD	iLoc	EHE	EHZ	_
KECS	0.20	248.2	Lg	08:08:27.964	-0.2					T__				---		39183280	FDSN	SK	--	BUD	iLoc	EHN	???	_	
(Reading ML: 2.0 magdef=1 Station ML: 2.0 magdef=0)																									
ABAH	0.41	129.6	Pg	08:08:29.370	0.3					T__		6.5		___	ML	1.3	39183281	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
ABAH	0.41	129.6	Lg	08:08:35.585	-0.5					T__				---		39183282	FDSN	HU	--	BUD	iLoc	HHE	???	_	
(Reading ML: 1.3 magdef=1 Station ML: 1.3 magdef=1)																									
PSZ	0.87	222.6	Pg	08:08:38.958	0.1					T__		4.9		___	ML	1.7	39183283	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.87	222.6	Lg	08:08:51.724	-0.6					T__				---		39183284	FDSN	GE	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									

PSZI	0.87	222.6	I	08:14:14.200	61.7	42.0	-0.0		_A_						25	FDSN	HN	--	BUD	iLoc	BDF	???	_
LANS	1.04	305.1	Pg	08:08:40.989	-0.1				T__	5.5		___	ML	1.8	39183285	FDSN	SK	--	BUD	iLoc	EHZ	EHZ	_
(Reading ML: 1.8 magdef=1)																							
(Station ML: 1.8 magdef=1)																							
TRPA	1.26	109.2	Pn	08:08:46.119	1.1				T__	1.5		___	ML	1.4	39183286	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
TRPA	1.26	109.2	Sn	08:09:02.459	-1.8				T__			___		39183287	FDSN	HU	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.4 magdef=1)																							
(Station ML: 1.4 magdef=1)																							
VYHS	1.28	267.9	Pg	08:08:45.814	-0.4				T__	0.7		___	ML	1.1	39183288	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	1.28	267.9	Sn	08:09:04.276	-0.1				T__			___		39183289	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.1 magdef=1)																							
(Station ML: 1.1 magdef=0)																							

Event bud2018minj Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2018/06/25	09:46:29.11	1.30	0.43	47.0931	22.2452				0.0	0.0	8	0	287	0.44	1.74	kx	BUD	38773154	sysop			360	
2018/06/25	09:46:30.16	1.41	0.79	46.9567	22.2565	7.4	4.1	20	0.0f		10	5	175	0.35	1.87	kx	ILOC	10	ILOC			266	
(#PRIME)																							
(quarry blast, Tetchea, Romania)																							

Magnitude	Err	Nsta	Author	OrigID
ML	1.5	0.2	4 ILOC	10

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
DRGR	0.35	117.7	Pg	09:46:37.430	-0.1					T__		11.3		___	ML	1.3	38773156	FDSN	RO	--	MP	ISC	BHZ	BHZ	_
DRGR	0.35	117.7	Lg	09:46:42.722	-0.9					T__				___		38773155	FDSN	RO	--	MP	ISC	BHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=1)																									
SIRR	0.80	211.0	Pg	09:46:46.590	-0.0					T__	1.7			___	ML	1.2	38773157	FDSN	RO	--	MP	ISC	BHZ	BHZ	_
SIRR	0.80	211.0	Lg	09:46:58.295	-0.7					T__				___		38773158	FDSN	RO	--	MP	ISC	BHZ	???	_	
(Reading ML: 1.2 magdef=1)																									
(Station ML: 1.2 magdef=1)																									
BZS	1.41	198.5	Pn	09:46:56.564	0.4					T__	2.2			___	ML	1.6	38773160	FDSN	RO	--	MP	ISC	BHZ	BHZ	_
BZS	1.41	198.5	Lg	09:47:18.040	-1.1					T__				___		38773159	FDSN	RO	--	MP	ISC	BHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
GZR	1.61	166.8	Pg	09:47:00.788	-0.0					T__	1.9			___	ML	1.7	38773162	FDSN	RO	--	MP	ISC	BHZ	BHZ	_
GZR	1.61	166.8	Sn	09:47:23.180	1.2					T__				___		38773161	FDSN	RO	--	MP	ISC	BHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
PSZI	1.87	301.8	I	09:58:10.600	-0.4	118.1	-2.0			TA_				___		140	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018nast Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2018/07/05	09:25:47.25			47.9151	19.4088				0.0	0.0	8	0	219	0.34	1.71	kx	BUD_GT	44033544	BUD			3	
(GT info : GT2 explosion)																							
(locality : Szanda)																							
2018/07/05	09:25:46.87	1.29	0.66	47.8959	19.4597	4.3	1.8	83	0.0f		10	6	203	0.29	1.62	kx	ILOC	21	ILOC			239	
(#PRIME)																							

Magnitude Err Nsta Author OrigID
 ML 1.0 0.5 3 ILOC 21

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZI	0.29	85.5	I	09:27:22.200	0.9	266.1	0.3			TA_				---	28	FDSN	HN	--	BUD	iLoc	BDF	???	_		
PSZ	0.29	85.4	Pg	09:25:53.231	-0.3					T__		7.7		---	ML	1.0	44033545	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.29	85.4	Lg	09:25:58.585	-0.1					T__				---		44033546	FDSN	GE	--	MP	ISC	BHZ	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=1)																									
VYHS	0.73	325.4	Pg	09:26:02.146	0.5					T__		0.6		---	ML	0.7	44033547	FDSN	SK	--	MP	ISC	HHZ	HHZ	_
VYHS	0.73	325.4	Lg	09:26:11.548	-0.9					T__				---		44033548	FDSN	SK	--	MP	ISC	HHZ	???	_	
(Reading ML: 0.7 magdef=1)																									
(Station ML: 0.7 magdef=1)																									
KECS	0.90	49.0	Lg	09:26:18.327	-0.1					T__				---		44033549	FDSN	SK	--	MP	ISC	EHE	???	_	
MODS	1.54	288.9	Sn	09:26:35.944	-0.3					T__				---		44033550	FDSN	SK	--	MP	ISC	HHN	???	_	
NIE	1.62	19.8	Pg	09:26:17.536	0.2					T__		1.4		---	ML	1.5	44033552	FDSN	PL	--	BUD	iLoc	BHZ	BHZ	_
NIE	1.62	19.8	Lg	09:26:41.771	1.0					T__				---		44033551	FDSN	PL	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									

Event bud2018nawz Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/07/05	11:34:18.44			47.8920	19.4049				0.0	0.0	8	0	159	0.30	1.54	kx	BUD_GT	40213485	BUD			3
(GT info : GT2 explosion)																						
(locality : Bercel)																						
2018/07/05	11:34:16.96	1.23	1.20	47.8970	19.4667	4.2	1.7	83	0.0f		10	7	155	0.29	1.54	kx	ILOC	22	ILOC			203
(#PRIME)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZI	0.29	85.7	I	11:35:52.800	2.9	270.1	4.1			TA_				---	29	FDSN	HN	--	BUD	iLoc	BDF	???	_		
PSZ	0.29	85.6	Pg	11:34:23.093	-0.5					T__		20.0		---	ML	1.4	40213486	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.29	85.6	Lg	11:34:28.425	-0.2					T__				---		40213487	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=0)																									
VYHS	0.73	325.0	Pg	11:34:31.471	-0.3					T__		1.3		---	ML	1.0	40213488	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.73	325.0	Lg	11:34:42.689	0.1					T__				---		40213489	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=0)																									
KECS	0.90	48.9	Lg	11:34:48.228	-0.2					T__				---		40213490	FDSN	SK	--	BUD	iLoc	EHE	???	_	
MPLH	1.49	241.6	Sn	11:35:05.609	0.2					T__				---		40213491	FDSN	HU	--	BUD	iLoc	BHE	???	_	
JAVC	1.54	309.5	Sn	11:35:07.478	1.0					T__				---		40213493	FDSN	CZ	--	BUD	iLoc	BHE	???	_	
MODS	1.54	288.8	Sn	11:35:06.786	0.4					T__				---		40213492	FDSN	SK	--	BUD	iLoc	HHE	???	_	

Event bud2018ncpw Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2018/07/06	10:15:12.00			48.0061	19.6278				0.0				0				kx	BUD_GT	40213816	BUD			360
(GT info : GT2 explosion)																							
(locality : Nagyloc)																							

2018/07/06 10:15:10.76 1.73 4.07 47.9997 19.6493 4.6 1.1 116 0.0f 5 3 196 0.18 0.73 kx ILOC 23 ILOC 359
 (#PRIME)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZI	0.18	116.4	I	10:16:04.200	-5.6	297.0	0.4			TA_				---	30	FDSN	HN	--	BUD	iLoc	BDF	???	_		
PSZ	0.18	116.2	Pg	10:15:15.842	0.6					T_		50.1		---	ML	1.5	40213817	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.18	116.2	Lg	10:15:18.993	0.2					T_				---		40213818	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.5 magdef=1 (Station ML: 1.5 magdef=0)																									
VYHS	0.73	312.6	Lg	10:15:35.162	-1.4					T_				---		40213819	FDSN	SK	--	BUD	iLoc	HHN	???	_	

Event bud2018njwm Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/07/10	09:32:42.33	0.51	0.60	48.1492	19.7991				0.0	0.0	4	0	134	0.24	0.73	kx	BUD	40214145	KM			360
2018/07/10	09:32:40.45	1.63	0.30	48.1505	19.8128	4.8	1.5	166	0.0f		6	4	131	0.24	0.74	kx	ILOC	11	ILOC			246
(quarry blast, Siatorska, Slovakia)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.24	166.7	Pg	09:32:46.085	0.1					T_		18.1		---	ML	1.2	40214146	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.24	166.7	Lg	09:32:50.239	-0.1					T_				---		40214147	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.2 magdef=1 (Station ML: 1.2 magdef=0)																									
PSZI	0.24	166.9	I	09:33:57.200	-0.3	352.2	5.3			TA_				---		141	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.56	53.2	Lg	09:33:00.487	0.2					T_				---		40214148	FDSN	SK	--	BUD	iLoc	EHN	???	_	
VYHS	0.74	298.2	Lg	09:33:05.888	-0.3					T_				---		40214149	FDSN	SK	--	BUD	iLoc	HHN	???	_	

Event bud2018npjm Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/07/13	09:46:59.71	0.26	0.89	47.8987	20.0893				0.0	0.0	17	0	52	0.08	1.94	kx	BUD_GT	39353966	sysop			360
(GT info : GT2 explosion) (locality : Recsk)																						
2018/07/13	09:46:57.97	0.97	1.77	47.8982	20.0352	3.7	0.6	102	0.0f		19	13	53	0.10	1.93	kx	ILOC	15	ILOC			101
(PRIME)																						

Magnitude Err Nsta Author OrigID
 ML 2.1 0.4 6 ILOC 15

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.10	282.1	Pg	09:47:00.221	-0.5					T_		556.5		---	ML	2.3	39353967	FDSN	GE	--	MP	ISC	BHZ	BHZ	_
PSZ	0.10	282.1	Lg	09:47:02.104	-0.9					T_				---		39353968	FDSN	GE	--	MP	ISC	BHZ	???	_	
(Reading ML: 2.3 magdef=1 (Station ML: 2.3 magdef=1)																									
PSZI	0.10	281.8	I	09:47:31.600	2.3	97.5	-4.2			TA_				---		194	FDSN	HN	--	BUD	iLoc	BDF	???	_	
BSZH	0.62	165.2	Lg	09:47:20.526	-1.6					T_				---		39353969	FDSN	HU	--	MP	ISC	HHN	???	_	
BUD	0.80	239.1	Lg	09:47:25.564	-1.7					T_				---		39353970	FDSN	HU	--	MP	ISC	BHN	???	_	
ABAH	0.90	63.3	Lg	09:47:27.498	-3.2					T_				---		39353971	FDSN	HU	--	MP	ISC	HHN	???	_	
VYHS	1.00	307.1	Pg	09:47:17.218	-0.8					T_		2.0		---	ML	1.4	39353972	FDSN	SK	--	MP	ISC	HHZ	HHZ	_
VYHS	1.00	307.1	Lg	09:47:30.348	-2.4					T_				---		39353973	FDSN	SK	--	MP	ISC	HHN	???	_	

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(Reading ML: 1.4 magdef=1
(Station ML: 1.4 magdef=0
LANS 1.31 343.5 Pn 09:47:23.376 0.5 T__ 13.5 ___ ML 2.4 39353975 FDSN SK -- MP ISC EHZ EHZ _
LANS 1.31 343.5 Sn 09:47:40.323 -2.1 T__ ___ 39353974 FDSN SK -- MP ISC EHZ ??? _
(Reading ML: 2.4 magdef=1
(Station ML: 2.4 magdef=0
CSKK 1.31 246.6 Sn 09:47:42.358 0.5 T__ ___ 39353976 FDSN HU -- MP ISC HHN ??? _
LTVH 1.36 111.5 Sn 09:47:43.071 -0.3 T__ ___ 39353977 FDSN HU -- MP ISC HHN ??? _
CRVS 1.38 42.9 Pn 09:47:25.666 1.7 T__ 2.8 ___ ML 1.7 39353979 FDSN SK -- MP ISC HHZ HHZ _
CRVS 1.38 42.9 Sn 09:47:43.834 -0.9 T__ ___ 39353978 FDSN SK -- MP ISC HHN ??? _
(Reading ML: 1.7 magdef=1
(Station ML: 1.7 magdef=1
NIE 1.53 6.5 Pg 09:47:28.262 1.5 T__ 3.0 ___ ML 1.8 39353981 FDSN PL -- MP ISC BHZ BHZ _
NIE 1.53 6.5 Lg 09:47:49.330 0.4 T__ ___ 39353980 FDSN PL -- MP ISC BHN ??? _
(Reading ML: 1.8 magdef=1
(Station ML: 1.8 magdef=1
MPLH 1.84 247.6 Pn 09:47:31.519 1.3 T__ 5.9 ___ ML 2.3 39353982 FDSN HU -- MP ISC BHZ BHZ _
(Reading ML: 2.3 magdef=1
(Station ML: 2.3 magdef=1
MORH 1.93 210.0 Sn 09:47:59.865 3.0 T__ ___ 39353983 FDSN HU -- MP ISC BHN ??? _

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Event bud2018nmys Romania

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Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2018/07/18 09:38:36.96 0.34 0.67 47.0076 22.2810 0.0 0.0 14 0 158 0.37 2.09 kx BUD 40055947 sysop 360
2018/07/18 09:38:35.43 1.02 1.37 47.0142 22.2764 4.5 4.0 31 0.0f 16 10 90 0.37 2.09 kx ILOC 12 ILOC 159
(#PRIME)
(quarry blast, Tetchea, Romania)

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Magnitude Err Nsta Author OrigID
ML 1.8 0.2 7 ILOC 12

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Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude ArrID Agy Deploy Ln Auth Rep PCh Ach L
DRGR 0.37 126.6 Pg 09:38:43.394 0.2 T__ 25.8 ___ ML 1.7 40055948 FDSN RO -- MP ISC BHZ BHZ _
DRGR 0.37 126.6 Lg 09:38:48.584 -1.0 T__ ___ 40055949 FDSN RO -- MP ISC BHN ??? _
(Reading ML: 1.7 magdef=1
(Station ML: 1.7 magdef=1
SIRR 0.86 209.9 Pg 09:38:53.165 0.2 T__ 3.4 ___ ML 1.5 40055950 FDSN RO -- MP ISC BHZ BHZ _
SIRR 0.86 209.9 Lg 09:39:04.462 -1.7 T__ ___ 40055951 FDSN RO -- MP ISC BHN ??? _
(Reading ML: 1.5 magdef=1
(Station ML: 1.5 magdef=1
CJR 0.96 107.9 Pg 09:38:54.705 0.5 T__ 27.1 ___ ML 2.5 40055952 FDSN RO -- MP ISC BHZ BHZ _
(Reading ML: 2.5 magdef=1
(Station ML: 2.5 magdef=0
BMR 1.06 51.1 Pg 09:38:56.206 0.0 T__ 15.4 ___ ML 2.3 40055953 FDSN RO -- MP ISC BHZ BHZ _
(Reading ML: 2.3 magdef=1
(Station ML: 2.3 magdef=1
TRPA 1.13 9.0 Pn 09:38:58.050 -0.0 T__ 1.3 ___ ML 1.2 40055954 FDSN HU -- MP ISC BHZ BHZ _
TRPA 1.13 9.0 Sn 09:39:14.680 -1.3 T__ ___ 40055955 FDSN HU -- MP ISC BHN ??? _
(Reading ML: 1.2 magdef=1
(Station ML: 1.2 magdef=0
BZS 1.47 198.4 Pn 09:39:02.746 0.4 T__ 3.2 ___ ML 1.8 40055956 FDSN RO -- MP ISC BHZ BHZ _

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BZS	1.47	198.4	Sn	09:39:23.000	-0.4	T__									40055957	FDSN	RO	--	MP	ISC	BHN	???	_
(Reading ML: 1.8 magdef=1)																							
(Station ML: 1.8 magdef=1)																							
GZR	1.66	167.7	Pg	09:39:07.261	0.2	T__	3.4	___	ML	2.0	40055958	FDSN	RO	--	MP	ISC	BHZ	BHZ	_				
GZR	1.66	167.7	Sn	09:39:29.871	1.3	T__					40055959	FDSN	RO	--	MP	ISC	BHN	???	_				
(Reading ML: 2.0 magdef=1)																							
(Station ML: 2.0 magdef=1)																							
PSZI	1.85	300.1	I	09:50:12.800	3.9	117.6	-0.7	TA_							142	FDSN	HN	--	BUD	iLoc	BDF	???	_
LOT	1.88	146.0	Sn	09:39:34.603	0.1	T__					40055960	FDSN	RO	--	MP	ISC	BHE	???	_				
BURAR	2.09	72.2	Pn	09:39:13.229	1.2	T__					40055961	FDSN	RO	--	MP	ISC	BHZ	???	_				

Event bud2018pkqa Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/08/08	06:28:55.87	1.92	0.66	47.7313	19.3074				0.0	0.0	5	0	271	0.44	1.42	kx	BUD	41371949	KM			360
2018/08/08	06:28:57.02	1.53	0.35	47.8985	19.4570	4.4	1.8	83	0.0f		7	4	239	0.29	1.26	kx	ILOC	10	ILOC			344
(#PRIME)																						
(quarry blast, Bercel, Hungary)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZI	0.29	86.1	I	06:30:32.600	0.6	270.2	3.8			TA_						26	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	0.29	86.0	Pg	06:29:03.885	0.1					T__		7.0		___	ML	1.0	41371950	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.29	86.0	Lg	06:29:08.871	-0.1					T__				___		41371951	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=0)																									
VYHS	0.73	325.3	Pg	06:29:11.814	0.1					T__		0.8		___	ML	0.8	41371953	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.73	325.3	Lg	06:29:22.443	-0.1					T__				___		41371952	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 0.8 magdef=1)																									
(Station ML: 0.8 magdef=0)																									
ABAH	1.26	70.9	Lg	06:29:41.831	-0.4					T__				___		41371954	FDSN	HU	--	BUD	iLoc	HHN	???	_	

Event bud2018pkun Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/08/08	08:46:26.11	5.07	0.00	47.8355	19.1270				0.0	0.0	3	0	273	0.59	1.20	kx	BUD_GT	41372069	KM			360
(GT info : GT2 explosion)																						
(locality : Sejce-Vac)																						
2018/08/08	08:46:26.79	1.51	0.80	47.8698	19.1690	5.5	3.0	81	0.0f		5	4	256	0.49	1.07	kx	ILOC	16	ILOC			330
(#PRIME)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZI	0.49	84.1	I	08:49:07.400	0.8	263.6	-1.0			TA_						195	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	0.49	84.1	Lg	08:46:44.903	-0.7					T__						41372070	FDSN	GE	--	BUD	iLoc	BHN	???	_	
VYHS	0.66	340.5	Pg	08:46:40.195	-0.0					T__		0.7		___	ML	0.7	41372071	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
(Reading ML: 0.7 magdef=1)																									
(Station ML: 0.7 magdef=0)																									
KECS	1.07	54.7	Pn	08:46:48.538	0.4					T__		7.7		___	ML	2.0	41372072	FDSN	SK	--	BUD	iLoc	EHN	EHZ	_
(Reading ML: 2.0 magdef=1)																									
(Station ML: 2.0 magdef=0)																									

Event bud2018pkzp Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/08/08	11:20:11.50	0.84	0.76	47.8987	20.0893				0.0	0.0	8	0	223	0.12	1.02	kx	BUD_GT	41372206	KM			360
(GT info : GT2 explosion)																						
(locality : Recsk)																						
2018/08/08	11:20:10.05	1.19	1.47	47.9032	20.0471	4.0	0.6	98	0.0f		10	5	214	0.10	1.00	kx	ILOC	17	ILOC			251
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.7	0.3	4 ILOC	17

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.10	278.4	Pg	11:20:13.164	0.3					T__		93.9		___	ML	1.6	41372207	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.10	278.4	Lg	11:20:15.867	0.6					T__				___		41372208	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
PSZI	0.10	278.1	I	11:20:43.600	0.0	97.6	-0.4			TA_				___		196	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.65	26.7	Pg	11:20:25.534	2.4					T__		11.2		___	ML	1.9	41372210	FDSN	SK	--	BUD	iLoc	EHN	EHZ	_
KECS	0.65	26.7	Lg	11:20:32.413	-0.6					T__				___		41372209	FDSN	SK	--	BUD	iLoc	EHE	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
ABAH	0.89	63.4	Pn	11:20:28.670	-0.3					T__		6.0		___	ML	1.8	41372211	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
ABAH	0.89	63.4	Lg	11:20:39.768	-2.6					T__				___		41372212	FDSN	HU	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
VYHS	1.00	306.6	Pg	11:20:30.411	0.2					T__		0.5		___	ML	0.8	41372213	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	1.00	306.6	Lg	11:20:43.887	-1.1					T__				___		41372214	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 0.8 magdef=1)																									
(Station ML: 0.8 magdef=1)																									

Event bud2018pvsc Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/08/14	08:02:27.81	0.50	0.66	47.8390	19.7982				0.0	0.0	8	0	181	0.10	1.14	kx	BUD	40626854	sysop			360
2018/08/14	08:02:26.16	1.19	2.48	47.8566	19.8635	4.8	0.4	18	0.0f		10	5	182	0.06	1.19	kx	ILOC	10	ILOC			314
(#PRIME)																						
(quarry blast, Gyongyostarjan, Hungary)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.9	0.2	4 ILOC	10

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZI	0.06	18.2	I	08:02:41.000	-5.9	196.8	-1.4			TA_				___		119	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	0.07	18.6	Pg	08:02:28.320	0.1					T__		164.1		___	ML	1.7	40626855	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.07	18.6	Lg	08:02:30.343	0.3					T__				___		40626856	FDSN	GE	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
KECS	0.75	33.4	Pn	08:02:43.585	0.5					T__		10.9		___	ML	2.0	40626858	FDSN	SK	--	BUD	iLoc	EHN	EHZ	_
KECS	0.75	33.4	Lg	08:02:53.887	1.3					T__				___		40626857	FDSN	SK	--	BUD	iLoc	EHN	???	_	
(Reading ML: 2.0 magdef=1)																									
(Station ML: 2.0 magdef=1)																									

ABAH	1.02	64.0	Pn	08:02:48.114	1.2	T__	5.9	___	ML	1.8	40626859	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
ABAH	1.02	64.0	Lg	08:03:02.680	-0.4	T__		___			40626860	FDSN	HU	--	BUD	iLoc	HHE	???	_
(Reading ML: 1.8 magdef=1)																			
(Station ML: 1.8 magdef=1)																			
CSKK	1.19	246.1	Pn	08:02:49.332	0.2	T__	57.9	___	ML	2.9	40626862	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
CSKK	1.19	246.1	Sn	08:03:04.813	-2.2	T__		___			40626861	FDSN	HU	--	BUD	iLoc	HHN	???	_
(Reading ML: 2.9 magdef=1)																			
(Station ML: 2.9 magdef=1)																			

Event bud2018pxkk Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/08/15	06:24:53.42	1.21	0.98	47.8042	20.0839				0.0	0.0	8	0	252	0.17	1.62	kx	BUD	40627713	sysop			360
2018/08/15	06:24:53.46	1.41	2.26	47.9012	20.0496	4.2	0.7	99	0.0f		10	6	215	0.11	1.53	kx	ILOC	18	ILOC			252
(quarry blast, Recsk, Hungary)																						
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.7	0.4	3 ILOC	18

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.11	279.4	Pg	06:24:56.452	0.1					T__		118.7		___	ML	1.7	40627714	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.11	279.4	Lg	06:24:59.169	0.4					T__				___		40627715	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
PSZI	0.11	279.1	I	06:25:23.000	-4.6	97.2	-1.8			TA_				___		197	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.65	26.4	Pg	06:25:07.355	0.8					T__		11.1		___	ML	1.9	40627716	FDSN	SK	--	BUD	iLoc	EHE	EHZ	_
KECS	0.65	26.4	Lg	06:25:15.520	-1.0					T__				___		40627717	FDSN	SK	--	BUD	iLoc	EHN	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
ABAH	0.89	63.2	Lg	06:25:23.164	-2.6					T__				___		40627718	FDSN	HU	--	BUD	iLoc	HHE	???	_	
VYHS	1.01	306.6	Pg	06:25:14.492	0.9					T__		0.7		___	ML	0.9	40627720	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	1.01	306.6	Lg	06:25:27.021	-1.4					T__				___		40627719	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 0.9 magdef=1)																									
(Station ML: 0.9 magdef=1)																									
NIE	1.53	6.1	Lg	06:25:45.939	1.7					T__				___		40627721	FDSN	PL	--	BUD	iLoc	BHE	???	_	

Event bud2018pzmr Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/08/16	09:50:47.98	0.38	0.89	47.8355	19.1270				0.0	0.0	8	0	115	0.35	1.43	kx	BUD_GT	41373310	KM			360
(GT info : GT2 explosion)																						
(locality : Sejce-Vac)																						
2018/08/16	09:50:46.01	1.18	0.49	47.8268	19.1567	4.3	2.8	74	0.0f		10	6	115	0.35	1.43	kx	ILOC	19	ILOC			160
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.4	0.6	3 ILOC	19

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
BUD	0.35	194.7	Lg	09:50:59.394	-0.3					T__				___		41373311	FDSN	HU	--	BUD	iLoc	BHN	???	_

PSZI	0.50	79.3	I	09:53:31.400	0.8	259.6	-0.3		TA_						198	FDSN	HN	--	BUD	iLoc	BDF	???	_
PSZ	0.51	79.3	Pg	09:50:56.971	-0.0				T__	5.5					41373312	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.51	79.3	Lg	09:51:04.934	-0.4				T__						41373313	FDSN	GE	--	BUD	iLoc	BHN	???	_
(Reading ML: 1.4 magdef=1)																							
(Station ML: 1.4 magdef=1)																							
VYHS	0.70	342.3	Pg	09:51:00.571	0.4				T__	1.4					41373315	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.70	342.3	Lg	09:51:10.196	-0.5				T__						41373314	FDSN	SK	--	BUD	iLoc	HHN	???	_
(Reading ML: 1.0 magdef=1)																							
(Station ML: 1.0 magdef=1)																							
MPLH	1.28	239.7	Pn	09:51:10.612	0.3				T__	4.6					41373316	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
(Reading ML: 1.9 magdef=1)																							
(Station ML: 1.9 magdef=1)																							
JAVC	1.43	316.7	Pg	09:51:14.489	0.1				T__						41373318	FDSN	CZ	--	BUD	iLoc	BHZ	???	_
JAVC	1.43	316.7	Lg	09:51:34.847	-0.6				T__						41373317	FDSN	CZ	--	BUD	iLoc	BHN	???	_

Event bud2018qmdb Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/08/23	07:45:22.49	0.89	0.43	48.4936	19.1807				0.0	0.0	6	0	209	0.23	1.07		kx BUD	41373894	KM			360
2018/08/23	07:45:21.36	1.42	0.49	48.3008	19.0087	4.3	3.7	47	0.0f		8	4	180	0.22	1.05		kx ILOC	11	ILOC			206
(#PRIME)																						
(quarry blast, Krupina, Slovakia)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
VYHS	0.22	329.3	Pg	07:45:26.323	0.2					T__		8.1			0.8	41373896	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.22	329.3	Lg	07:45:29.439	-0.2					T__						41373895	FDSN	SK	--	BUD	iLoc	HHN	???	_
(Reading ML: 0.8 magdef=1)																								
(Station ML: 0.8 magdef=0)																								
PSZI	0.71	122.5	I	07:49:15.600	0.2	307.1	3.9			TA_						120	FDSN	HN	--	BUD	iLoc	BDF	???	_
PSZ	0.71	122.5	Pg	07:45:36.918	0.5					T__	4.1					41373897	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.71	122.5	Lg	07:45:46.681	-0.9					T__						41373898	FDSN	GE	--	BUD	iLoc	BHN	???	_
(Reading ML: 1.5 magdef=1)																								
(Station ML: 1.5 magdef=0)																								
JAVC	1.05	302.7	Pg	07:45:42.388	0.1					T__						41373899	FDSN	CZ	--	BUD	iLoc	BHZ	???	_
JAVC	1.05	302.7	Lg	07:45:57.552	-0.1					T__						41373900	FDSN	CZ	--	BUD	iLoc	BHE	???	_

Event bud2018qxbz Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/08/29	07:41:44.92			47.9151	19.4088				0.0				0				kx BUD_GT	250	BUD			
(GT info : GT2 explosion)																						
(Locality : Szanda)																						
2018/08/29	07:41:43.01	1.06	1.15	47.9060	19.4499	3.7	1.8	88	0.0f		12	7	148	0.30	1.52		kx ILOC	13	ILOC			153
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.5	0.5	3 ILOC	13

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
PSZI	0.30	87.6	I	07:43:17.200	-2.2	270.9	3.0			TA_					143	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	0.30	87.5	Pg	07:41:49.885	0.1					T__		21.5				41375920	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_

PSZ	0.30	87.5	Lg	07:41:55.148	0.1	T__									41375921	FDSN	GE	--	BUD	iLoc	BHN	???	_
(Reading ML: 1.5 magdef=1)																							
(Station ML: 1.5 magdef=1)																							
VYHS	0.72	325.3	Pn	07:41:58.748	-0.6	T__									41375923	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.72	325.3	Lg	07:42:08.027	-0.2	T__									41375922	FDSN	SK	--	BUD	iLoc	HHN	???	_
(Reading ML: 1.1 magdef=1)																							
(Station ML: 1.1 magdef=1)																							
KECS	0.90	49.8	Lg	07:42:14.675	0.1	T__									41375926	FDSN	SK	--	BUD	iLoc	EHE	???	_
CSKK	0.97	236.4	Pg	07:42:02.695	0.2	T__									41375925	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
CSKK	0.97	236.4	Lg	07:42:15.159	-1.7	T__									41375924	FDSN	HU	--	BUD	iLoc	HHN	???	_
(Reading ML: 2.9 magdef=1)																							
(Station ML: 2.9 magdef=1)																							
MPLH	1.49	241.1	Sn	07:42:32.470	1.2	T__									41375927	FDSN	HU	--	BUD	iLoc	BHE	???	_
JAVC	1.52	309.5	Pg	07:42:13.082	-0.1	T__									41375929	FDSN	CZ	--	BUD	iLoc	BHE	???	_
JAVC	1.52	309.5	Sn	07:42:33.648	1.4	T__									41375928	FDSN	CZ	--	BUD	iLoc	BHE	???	_

Event bud2018qyxs Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/08/30	07:48:53.20	0.36	0.52	47.0121	22.2483				0.0	0.0	16	0	123	0.39	1.89	kx	BUD	41377741	KM			360
2018/08/30	07:48:52.67	1.02	2.35	46.9721	22.2918	4.7	3.6	33	0.0f		18	11	89	0.34	1.88	kx	ILOC	14	ILOC			120
#PRIME)																						
(quarry blast, Tetchea, Romania)																						

Magnitude	Err	Nsta	Author	OrigID
ML	2.0	0.3	10 ILOC	14

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
DRGR	0.34	122.0	Pg	07:48:59.757	-0.0					T__		32.9			1.8	41377742	FDSN	RO	--	BUD	iLoc	BHZ	BHZ	_
DRGR	0.34	122.0	Lg	07:49:04.396	-1.3					T__						41377743	FDSN	RO	--	BUD	iLoc	BHZ	???	_
(Reading ML: 1.8 magdef=1)																								
(Station ML: 1.8 magdef=1)																								
SIRR	0.83	212.0	Pg	07:49:09.451	-0.2					T__		4.5			1.6	41377744	FDSN	RO	--	BUD	iLoc	BHZ	BHZ	_
SIRR	0.83	212.0	Lg	07:49:20.184	-2.2					T__						41377745	FDSN	RO	--	BUD	iLoc	BHN	???	_
(Reading ML: 1.6 magdef=1)																								
(Station ML: 1.6 magdef=0)																								
CJR	0.93	105.6	Pg	07:49:11.667	0.6					T__		40.5			2.6	41377747	FDSN	RO	--	BUD	iLoc	BHZ	BHZ	_
CJR	0.93	105.6	Lg	07:49:25.654	0.0					T__						41377746	FDSN	RO	--	BUD	iLoc	BHN	???	_
(Reading ML: 2.6 magdef=1)																								
(Station ML: 2.6 magdef=0)																								
BMR	1.08	49.0	Pg	07:49:14.070	0.3					T__		17.0			2.3	41377748	FDSN	RO	--	BUD	iLoc	BHZ	BHZ	_
(Reading ML: 2.3 magdef=1)																								
(Station ML: 2.3 magdef=1)																								
DEV	1.17	158.6	Pn	07:49:16.251	0.9					T__		28.2			2.6	41377750	FDSN	RO	--	BUD	iLoc	BHZ	BHZ	_
(Reading ML: 2.6 magdef=1)																								
(Station ML: 2.6 magdef=0)																								
TRPA	1.17	8.1	Pg	07:49:14.589	-0.9					T__		2.5			1.5	41377749	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
(Reading ML: 1.5 magdef=1)																								
(Station ML: 1.5 magdef=0)																								
BZS	1.43	199.3	Pn	07:49:19.852	0.8					T__		3.6			1.9	41377751	FDSN	RO	--	BUD	iLoc	BHZ	BHZ	_
BZS	1.43	199.3	Sn	07:49:39.863	0.1					T__						41377752	FDSN	RO	--	BUD	iLoc	BHN	???	_
(Reading ML: 1.9 magdef=1)																								


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(Station ML: 1.9 magdef=1
ABAH 1.50 332.1 Pn 07:49:19.644 -0.7 T__ 4.6 ___ ML 2.0 41377753 FDSN HU -- BUD iLoc HHZ HHZ _
(Reading ML: 2.0 magdef=1
(Station ML: 2.0 magdef=1
GZR 1.61 167.8 Pg 07:49:23.279 -0.2 T__ 4.5 ___ ML 2.1 41377755 FDSN RO -- BUD iLoc BHZ BHZ _
GZR 1.61 167.8 Sn 07:49:45.112 0.4 T__ ___ 41377754 FDSN RO -- BUD iLoc BHN ??? _
(Reading ML: 2.1 magdef=1
(Station ML: 2.1 magdef=1
LOT 1.84 145.5 Pn 07:49:25.807 0.6 T__ 5.7 ___ ML 2.3 41377756 FDSN RO -- BUD iLoc BHZ BHZ _
LOT 1.84 145.5 Sn 07:49:51.739 1.0 T__ ___ 41377757 FDSN RO -- BUD iLoc BHE ??? _
(Reading ML: 2.3 magdef=1
(Station ML: 2.3 magdef=1
PSZI 1.88 301.0 I 08:00:47.200 8.5 117.4 -1.9 TA_ ___ 144 FDSN HN -- BUD iLoc BDF ??? _

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Event 612689977 Germany

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/09/01	03:11:49.60	0.00		48.8600	11.7600				1.0		16	0					kx PRU	10382028				
2018/09/01	03:11:45.77	0.23	0.60	48.7460	11.6039	1.8	1.3	126	0.0	0.0	36	0	27	1.38	2.95		kx VIE	10366022				
2018/09/01	03:11:45.35	1.26	1.05	48.7619	11.5697	8.8	4.4	131	0.0f		33	17	191	1.37	10.65		kx ILOC	1	ILOC			213

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	1.8	0.3	12 ILOC	1

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
KHC	1.37	73.7	Pg	03:12:11.700	0.2					T__				___e		78806469	FDSN	IR	--	BUD	iLoc	???	???	_
KHC	1.37	73.7	Lg	03:12:29.600	-1.3					T__	6.8	0.40	___i	ML	2.1	78806470	FDSN	IR	--	BUD	iLoc	???	???	_
RETA	1.39	203.3	Pn	03:12:11.510	-0.1					T__	0.2	0.12	___i	ML	0.6	78469519	FDSN	IR	--	BUD	iLoc	???	???	_
RETA	1.39	203.3	Pg	03:12:12.930	0.7					T__	0.7	0.14	___i	ML	1.1	78469520	FDSN	IR	--	BUD	iLoc	???	???	_
RETA	1.39	203.3	Sn	03:12:31.025	-0.7					T__	2.2	0.22	___e	ML	1.6	78469521	FDSN	IR	--	BUD	iLoc	???	???	_
WATA	1.43	179.8	Pn	03:12:12.286	-0.1					T__	0.5	0.10	___e	ML	1.0	78469524	FDSN	IR	--	BUD	iLoc	???	???	_
WATA	1.43	179.8	Pg	03:12:13.617	0.6					T__	0.6	0.08	___i	ML	1.1	78469525	FDSN	IR	--	BUD	iLoc	???	???	_
WATA	1.43	179.8	Sn	03:12:32.972	-0.0					T__	1.9	0.16	___e	ML	1.6	78469526	FDSN	IR	--	BUD	iLoc	???	???	_
MOTA	1.45	192.6	Pg	03:12:13.858	0.4					T__	2.1	0.22	___e	ML	1.6	78469517	FDSN	IR	--	BUD	iLoc	???	???	_
MOTA	1.45	192.6	Sn	03:12:32.933	-0.8					T__	1.2	0.14	___i	ML	1.4	78469518	FDSN	IR	--	BUD	iLoc	???	???	_
WTTA	1.50	178.3	Pn	03:12:13.571	0.1					T__	0.7	0.14	___e	ML	1.2	78469527	FDSN	IR	--	BUD	iLoc	???	???	_
WTTA	1.50	178.3	Pg	03:12:15.184	0.7					T__	1.1	0.12	___i	ML	1.4	78469528	FDSN	IR	--	BUD	iLoc	???	???	_
WTTA	1.50	178.3	Sn	03:12:34.649	-0.3					T__	0.6	0.18	___e	ML	1.1	78469529	FDSN	IR	--	BUD	iLoc	???	???	_
LESA	1.53	150.6	Pn	03:12:14.082	0.5					T__	0.1	0.08	___i	ML	0.4	78469510	FDSN	IR	--	BUD	iLoc	???	???	_
LESA	1.53	150.6	Pg	03:12:15.484	-0.1					T__	1.8	0.22	___e	ML	1.6	78469511	FDSN	IR	--	BUD	iLoc	???	???	_
LESA	1.53	150.6	Sn	03:12:35.010	0.1					T__	0.4	0.14	___i	ML	1.0	78469512	FDSN	IR	--	BUD	iLoc	???	???	_
LESA	1.53	150.6	Lg	03:12:36.454	-0.3					T__	1.9	0.18	___i	ML	1.6	78469513	FDSN	IR	--	BUD	iLoc	???	???	_
SQTA	1.56	189.1	Pg	03:12:15.892	0.5					T__	6.2	0.20	___e	ML	2.2	78469522	FDSN	IR	--	BUD	iLoc	???	???	_
SQTA	1.56	189.1	Sn	03:12:36.221	0.1					T__	3.3	0.26	___e	ML	1.9	78469523	FDSN	IR	--	BUD	iLoc	???	???	_
BIOA	1.75	127.0	Pg	03:12:18.607	-1.1					T__	0.5	0.10	___i	ML	1.2	78469507	FDSN	IR	--	BUD	iLoc	???	???	_
BIOA	1.75	127.0	Lg	03:12:43.079	-0.6					T__	11.4	0.40	___e	ML	2.5	78469508	FDSN	IR	--	BUD	iLoc	???	???	_
CKRC	1.81	87.1	Pg	03:12:19.400	-0.1					T__			___e			78806467	FDSN	IR	--	BUD	iLoc	???	???	_
CKRC	1.81	87.1	Lg	03:12:43.000	-1.6					T__	2.3	0.40	___e	ML	1.9	78806468	FDSN	IR	--	BUD	iLoc	???	???	_
MOA	2.02	115.9	Pn	03:12:21.910	2.0					T__	0.2	0.14	___e	ML	0.9	78469514	FDSN	IR	--	BUD	iLoc	???	???	_
MOA	2.02	115.9	Pg	03:12:24.181	-0.2					T__	0.9	0.16	___i	ML	1.6	78469515	FDSN	IR	--	BUD	iLoc	???	???	_
MOA	2.02	115.9	Lg	03:12:50.977	-1.0					T__	1.3	0.22	___e	ML	1.7	78469516	FDSN	IR	--	BUD	iLoc	???	???	_

PRU	2.30	56.6	Sn	03:12:56.100	3.2	T__	3.2	0.60	__e	ML	2.3	78806471	FDSN	IR	--	BUD	iLoc	???	???	_
BRG	2.61	35.1	Lg	03:13:07.830	-2.8	T__						79413896	FDSN	IR	--	BUD	iLoc	???	???	_
BRG	2.61	35.1		03:13:15.260		---	2.1	0.47	---		0.0	79413897	FDSN	IR	--	BUD	iLoc	???	???	_
PVCI	2.63	46.6	I	03:30:18.000	116.9 244.1 15.2	---						2	FDSN	IR	--	BUD	iLoc	???	???	_
CONA	2.98	104.6	Lg	03:13:22.876	0.0	T__	1.3	0.30	__e	ML	2.3	78469509	FDSN	IR	--	BUD	iLoc	???	???	_
PSZI	5.61	95.5	I	03:52:06.600	372.9 285.7 4.0	_A_						1	FDSN	IR	--	BUD	iLoc	???	???	_
BURAR	9.19	92.0	I	04:18:42.500	720.4 279.7 -2.5	_A_						3	FDSN	IR	--	BUD	iLoc	???	???	_
I67RO	9.37	97.8	I	04:10:32.510	164.9 286.0 -1.8	_A_						5	FDSN	IR	--	BUD	iLoc	???	???	_
IPLOR	10.65	100.2	I	04:29:00.000	815.6 289.9 -1.4	_A_						4	FDSN	IR	--	BUD	iLoc	???	???	_

Event bud2018rgik Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/09/03	09:09:50.51	1.08	0.49	47.8987	20.0893				0.0	3.0	7	0	222	0.11	1.32	kx	BUD_GT	41166984	sysop			360
(GT info : GT2 explosion)																						
(locality : Recsk)																						
2018/09/03	09:09:49.33	1.25	1.92	47.9019	20.0531	4.5	0.7	98	0.0f		9	6	215	0.11	1.31	kx	ILOC	21		ILOC		252
(#PRIME)																						

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.11	278.9	Pg	09:09:52.700	0.4					T__		300.8		___	ML	2.1	41166985	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.11	278.9	Lg	09:09:55.606	0.9					T__				---		41166986	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 2.1 magdef=1)																									
(Station ML: 2.1 magdef=0)																									
PSZI	0.11	278.5	I	09:10:20.000	-4.2	97.3	-1.1			TA_				---		200	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.65	26.3	Lg	09:10:12.219	-0.1					T__				---		41166987	FDSN	SK	--	BUD	iLoc	EHE	???	_	
ABAH	0.89	63.2	Lg	09:10:20.306	-1.3					T__				---		41166988	FDSN	HU	--	BUD	iLoc	HHE	???	_	
VYHS	1.01	306.5	Pn	09:10:10.225	0.4					T__		1.3		___	ML	1.2	41166989	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	1.01	306.5	Lg	09:10:23.215	-1.2					T__				---		41166990	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.2 magdef=1)																									
(Station ML: 1.2 magdef=0)																									
LANS	1.31	342.9	Sn	09:10:33.285	-0.5					T__				---		41166991	FDSN	SK	--	BUD	iLoc	EHE	???	_	

Event bud2018rgmr Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/09/03	11:19:20.22	1.66	0.49	47.8987	20.0893				0.0	0.0	5	0	255	0.10	1.00	kx	BUD_GT	42187006	KM			360
(GT info : GT2 explosion)																						
(locality : Recsk)																						
2018/09/03	11:19:18.89	1.46	1.05	47.9068	20.0328	5.1	0.6	96	0.0f		7	4	249	0.09	0.99	kx	ILOC	22		ILOC		330
(#PRIME)																						

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.09	277.2	Pg	11:19:21.551	0.0					T__		172.7		___	ML	1.8	42187007	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.09	277.2	Lg	11:19:23.222	-0.5					T__				---		42187008	FDSN	GE	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=0)																									
PSZI	0.09	276.8	I	11:19:50.400	1.2	97.2	0.5			TA_				---		201	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.65	27.5	Lg	11:19:41.348	-0.6					T__				---		42187009	FDSN	SK	--	BUD	iLoc	EHE	???	_	
VYHS	0.99	306.7	Pn	11:19:39.929	0.8					T__		1.3		___	ML	1.2	42187010	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.99	306.7	Lg	11:19:52.145	-1.3					T__				---		42187011	FDSN	SK	--	BUD	iLoc	HHN	???	_	

(Reading ML: 1.2 magdef=1
 (Station ML: 1.2 magdef=0

Event bud2018rtbl Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/09/10	08:25:52.30	0.63	1.16	48.5109	20.7672				2.4	3.0	8	0	100	0.19	1.08	kx	BUD	42188102	KM			360
2018/09/10	08:25:50.14	1.15	0.61	48.5308	20.7899	4.6	4.1	171	0.0f		10	6	96	0.21	1.06	kx	ILOC	11	ILOC			170

(#PRIME)
 (quarry blast, Dvorniky-Vcelare, Slovakia)

Magnitude	Err	Nsta	Author	OrigID
ML	1.7	0.3	3 ILOC	11

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KECS	0.21	256.9	Pg	08:25:54.706	0.2					T__		93.9		___	ML	1.9	42188103	FDSN	SK	--	BUD	iLoc	EHE	EHZ	_
KECS	0.21	256.9	Lg	08:25:57.921	0.1					T__				___		42188104	FDSN	SK	--	BUD	iLoc	EHE	???	_	
(Reading ML: 1.9 magdef=1 (Station ML: 1.9 magdef=1																									
ABAH	0.38	127.9	Lg	08:26:04.671	0.1					T__				___		42188105	FDSN	HU	--	BUD	iLoc	HHN	???	_	
PSZ	0.86	224.7	Pg	08:26:07.597	-0.6					T__		4.8		___	ML	1.7	42188107	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.86	224.7	Lg	08:26:21.994	0.5					T__				___		42188106	FDSN	GE	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.7 magdef=1 (Station ML: 1.7 magdef=1																									
PSZI	0.86	224.7	I	08:30:38.800	0.0	43.3	-0.7			TA_				___		27	FDSN	HN	--	BUD	iLoc	BDF	???	_	
NIE	0.95	340.2	Pn	08:26:10.687	0.7					T__		1.6		___	ML	1.2	42188108	FDSN	PL	--	BUD	iLoc	BHZ	BHZ	_
NIE	0.95	340.2	Sn	08:26:24.524	-1.2					T__				___		42188109	FDSN	PL	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.2 magdef=1 (Station ML: 1.2 magdef=1																									
KOLS	1.06	67.1	Lg	08:26:27.692	0.2					T__				___		42188110	FDSN	SK	--	BUD	iLoc	HHE	???	_	

Event bud2018rwpr Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/09/12	07:01:27.68	0.47	0.82	47.8987	20.0893				0.0	0.0	10	0	179	0.09	1.50	kx	BUD_GT	42188431	KM			360

(GT info : GT2 explosion)
 (locality : Recsk)

2018/09/12	07:01:25.34	1.08	1.03	47.8997	20.0439	4.0	0.6	100	0.0f		12	7	183	0.10	1.53	kx	ILOC	23	ILOC			219
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(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	1.9	0.1	4 ILOC	23

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.10	280.6	Pg	07:01:28.247	0.1					T__		170.9		___	ML	1.8	42188432	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.10	280.6	Lg	07:01:31.004	0.5					T__				___		42188433	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.8 magdef=1 (Station ML: 1.8 magdef=1																									
PSZI	0.10	280.3	I	07:01:56.000	-2.4	97.1	-3.1			TA_				___		202	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.65	26.7	Pg	07:01:38.611	0.1					T__		12.5		___	ML	2.0	42188435	FDSN	SK	--	BUD	iLoc	EHN	EHZ	_
KECS	0.65	26.7	Lg	07:01:48.182	-0.3					T__				___		42188434	FDSN	SK	--	BUD	iLoc	EHE	???	_	

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(Reading ML: 2.0 magdef=1
(Station ML: 2.0 magdef=1
ABAH 0.89 63.2 Pn 07:01:44.196 -0.1 T__ 8.3 ___ ML 1.9 42188436 FDSN HU -- BUD iLoc HHZ HHZ _
ABAH 0.89 63.2 Lg 07:01:57.220 -0.6 T__ ___ 42188437 FDSN HU -- BUD iLoc HHE ??? _
(Reading ML: 1.9 magdef=1
(Station ML: 1.9 magdef=1
VYHS 1.00 306.8 Pg 07:01:45.750 0.3 T__ 1.2 ___ ML 1.1 42188438 FDSN SK -- BUD iLoc HHZ HHZ _
VYHS 1.00 306.8 Lg 07:01:59.019 -1.3 T__ ___ 42188439 FDSN SK -- BUD iLoc HHN ??? _
(Reading ML: 1.1 magdef=1
(Station ML: 1.1 magdef=1
CSKK 1.32 246.7 Sn 07:02:10.558 1.2 T__ ___ 42188440 FDSN HU -- BUD iLoc HHN ??? _
NIE 1.53 6.3 Sn 07:02:15.470 -0.2 T__ ___ 42188441 FDSN PL -- BUD iLoc BHE ??? _

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Event bud2018sfvo Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/09/17	08:12:43.29	0.57	0.27	47.9920	20.3242				0.0	0.0	5	0	192	0.30	0.68	kx	BUD	42189313	KM			360
2018/09/17	08:12:41.41	1.47	1.30	47.9603	20.3494	4.0	1.9	84	0.0f		7	4	202	0.31	0.68	kx	ILOC	12	ILOC			252

(#PRIME)

(quarry blast, Egerbakta, Hungary)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.31	262.4	Pg	08:12:49.409	1.0					T__		6.2		___	ML	1.0	42189314	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.31	262.4	Lg	08:12:52.283	-1.5					T__				___		42189315	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.0 magdef=1 (Station ML: 1.0 magdef=0)																									
PSZI	0.31	262.3	I	08:14:21.800	0.4	80.1	-1.9			TA_				___		121	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.53	9.8	Lg	08:12:59.207	-1.1					T__				___		42189316	FDSN	SK	--	BUD	iLoc	EHE	???	_	
ABAH	0.68	60.3	Pg	08:12:56.040	0.9					T__		4.8		___	ML	1.6	42189318	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
ABAH	0.68	60.3	Lg	08:13:05.474	-1.1					T__				___		42189317	FDSN	HU	--	BUD	iLoc	HHE	???	_	
(Reading ML: 1.6 magdef=1 (Station ML: 1.6 magdef=0)																									

Event bud2018swhe Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2018/09/26	08:15:20.39	0.68	0.43	47.9867	20.2974				0.0	0.0	5	0	192	0.28	1.10	kx	BUD	42214956	KM				360
2018/09/26	08:15:18.09	1.60	0.66	47.9836	20.3156	4.3	1.8	77	0.0f		7	5	194	0.29	1.11	kx	ILOC	13	ILOC				244

(#PRIME)

(quarry blast, Egerbakta, Hungary)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.29	257.2	Pg	08:15:25.128	0.4					T__		12.5		___	ML	1.2	42214957	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.29	257.2	Lg	08:15:29.317	-0.5					T__				___		42214958	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.2 magdef=1 (Station ML: 1.2 magdef=0)																									
PSZI	0.29	257.1	I	08:16:53.000	0.9	78.4	1.6			TA_				___		122	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.51	12.7	Lg	08:15:36.346	-0.0					T__				___		42214959	FDSN	SK	--	BUD	iLoc	EHE	???	_	
ABAH	0.69	62.9	Lg	08:15:43.235	-0.3					T__				___		42214960	FDSN	HU	--	BUD	iLoc	HHN	???	_	
VYHS	1.11	297.9	Lg	08:15:56.115	-0.6					T__				___		42214961	FDSN	SK	--	BUD	iLoc	HHN	???	_	

Event bud2018sygc Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/09/27	09:59:26.00		1.22	46.1254	18.0152				0.0				0				kx BUD	42215559	KM			360
(GT info : GT2 explosion)																						
(Locality : Bukkosd)																						
2018/09/27	09:59:26.00f		1.71	46.1253	18.0465	8.6	4.3	126	0.0f		6	3	259	0.05	2.19		kx ILOC	24	ILOC			316
(#PRIME)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.05	134.9	Pg	09:59:27.869	0.1					T__		55.8		___	ML	1.2	42215560	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
KOVH	0.05	134.9	Lg	09:59:29.531	0.3					T__				___		42215561	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.2 magdef=1)																									
(Station ML: 1.2 magdef=0)																									
MORH	0.42	77.6	Pg	09:59:33.478	-1.5					T__		1.7		___	ML	0.7	42215563	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	0.42	77.6	Lg	09:59:42.133	0.3					T__				___		42215562	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 0.7 magdef=1)																									
(Station ML: 0.7 magdef=0)																									
PSZI	2.19	34.5	I	10:13:19.400	3.1	216.0	0.2			TA_				___		203	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018szzt Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/09/28	09:03:24.00		1.63	45.8500	18.4000				0.0				0				kx BUD	42215866	KM			360
2018/09/28	09:03:24.74	1.93	0.28	45.8822	18.4220	9.2	4.6	126	0.0f		6	3	286	0.30	2.27		kx ILOC	12	ILOC			358
(#PRIME)																						
(quarry blast, Nagyarsany, Hungary)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.30	312.7	Pg	09:03:31.233	-0.2					T__		3.8		___	ML	0.7	42215867	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
KOVH	0.30	312.7	Lg	09:03:36.996	0.3					T__				___		42215868	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 0.7 magdef=1)																									
(Station ML: 0.7 magdef=0)																									
MORH	0.37	24.8	Pg	09:03:32.605	-0.0					T__		1.5		___	ML	0.5	42215870	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	0.37	24.8	Lg	09:03:38.849	0.1					T__				___		42215869	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 0.5 magdef=1)																									
(Station ML: 0.5 magdef=0)																									
PSZI	2.27	25.8	I	09:17:45.200	-0.3	203.1	-3.8			TA_				___		28	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018tlcs Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/10/04	11:02:43.10	0.78	0.41	48.1810	19.7928				3.8	3.7	7	0	131	0.27	0.99		kx BUD	42103408	sysop			360
2018/10/04	11:02:42.20	1.39	2.10	48.1651	19.8050	4.0	1.5	166	0.0f		9	5	130	0.25	1.01		kx ILOC	15	ILOC			180
(#PRIME)																						
(quarry blast, Siatorska, Slovakia)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.4	0.7	3 ILOC	15

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.25	166.3	Pg	11:02:48.548	0.5					T__		24.5		___	ML	1.4	42103409	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.25	166.3	Lg	11:02:53.087	0.5					T__				___		42103410	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									
PSZI	0.25	166.5	I	11:03:59.400	-4.8	349.5	3.0			TA_				___		145	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.55	54.7	Pg	11:02:53.720	0.4					T__		11.3		___	ML	1.9	42103412	FDSN	SK	--	BUD	iLoc	EHN	EHZ	_
KECS	0.55	54.7	Lg	11:03:01.521	-0.3					T__				___		42103411	FDSN	SK	--	BUD	iLoc	EHN	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
VYHS	0.73	297.3	Pg	11:02:57.291	0.5					T__		0.9		___	ML	0.9	42103413	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.73	297.3	Lg	11:03:06.162	-1.4					T__				___		42103414	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 0.9 magdef=1)																									
(Station ML: 0.9 magdef=1)																									
LANS	1.01	347.4	Lg	11:03:16.402	-0.5					T__				___		42103415	FDSN	SK	--	BUD	iLoc	EHN	???	_	

Event bud2018tsel Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/10/08	07:52:23.11	0.34	0.38	48.5451	19.3108				0.0	0.0	9	0	113	0.32	1.36	kx	BUD	43130727	KM			360
2018/10/08	07:52:22.02	1.18	0.57	48.5228	19.3235	4.3	3.3	167	0.0f		11	7	116	0.33	1.37	kx	ILOC	16	ILOC			164
(#PRIME)																						
(quarry blast, Vigles, Slovakia)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.5	0.4	4 ILOC	16

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
VYHS	0.33	265.1	Pg	07:52:28.934	0.2					T__		2.5		___	ML	0.6	43130728	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.33	265.1	Lg	07:52:33.428	-0.2					T__				___		43130729	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 0.6 magdef=1)																									
(Station ML: 0.6 magdef=1)																									
LANS	0.64	8.6	Pg	07:52:34.972	0.4					T__		3.1		___	ML	1.3	43130730	FDSN	SK	--	BUD	iLoc	EHZ	EHZ	_
LANS	0.64	8.6	Lg	07:52:42.554	-1.3					T__				___		43130731	FDSN	SK	--	BUD	iLoc	EHE	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=1)																									
PSZ	0.72	147.5	Pg	07:52:37.030	-0.2					T__		6.8		___	ML	1.7	43130732	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
PSZI	0.72	147.6	I	07:56:19.000	-0.4	325.5	-2.5			TA_				___		146	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.77	92.5	Pg	07:52:37.819	0.4					T__		10.4		___	ML	1.9	43130733	FDSN	SK	--	BUD	iLoc	EHN	EHZ	_
KECS	0.77	92.5	Lg	07:52:48.900	-0.1					T__				___		43130734	FDSN	SK	--	BUD	iLoc	EHN	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
JAVC	1.15	287.7	Pg	07:52:44.921	0.1					T__				___		43130735	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
MODS	1.37	264.5	Pn	07:52:47.922	0.3					T__				___		43130736	FDSN	SK	--	BUD	iLoc	HHZ	???	_	

Event bud2018tsnd Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2018/10/08	12:15:21.00		1.86	46.1210	18.0260				0.0				0				kx	BUD	43130819	KM			360

2018/10/08 12:15:21.00f 0.79 46.0976 17.9818 8.6 4.4 134 0.0f 6 3 298 0.08 2.24 kx ILOC 25 ILOC 339
 (quarry blast, Bukkosd, Hungary)
 (#PRIME)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.08	96.4	Pg	12:15:23.813	0.5					T__		25.6		___	ML	0.9	43130820	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
KOVH	0.08	96.4	Lg	12:15:25.288	-0.0					T__				___		43130821	FDSN	HU	--	BUD	iLoc	BHZ	???	_	
(Reading ML: 0.9 magdef=1 Station ML: 0.9 magdef=0)																									
MORH	0.47	75.5	Pg	12:15:31.051	0.1					T__		1.1		___	ML	0.7	43130823	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	0.47	75.5	Lg	12:15:37.432	-1.2					T__				___		43130822	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 0.7 magdef=1 Station ML: 0.7 magdef=0)																									
PSZI	2.24	35.0	I	12:29:31.000	1.0	215.1	-1.3			TA_				___		204	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018tsno Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/10/08	12:28:57.00		2.85	46.1210	18.0240				0.0								kx BUD	43130850	KM			360
2018/10/08	12:28:59.43	1.70	0.15	46.0582	18.1021	9.0	4.8	126	0.0f	6	3	289	0.03	2.23			kx ILOC	26	ILOC			325
(quarry blast, Bukkosd, Hungary) (#PRIME)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.03	357.0	Pg	12:29:00.646	-0.1					T__		129.7		___	ML	1.5	43130851	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
KOVH	0.03	357.0	Lg	12:29:02.098	0.1					T__				___		43130852	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=0)																									
MORH	0.41	67.2	Pg	12:29:07.979	-0.1					T__		1.5		___	ML	0.6	43130853	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	0.41	67.2	Lg	12:29:14.914	0.1					T__				___		43130854	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 0.6 magdef=1 Station ML: 0.6 magdef=0)																									
PSZI	2.23	32.7	I	12:43:03.000	-0.1	215.1	1.1			TA_				___		205	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018tuee Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/10/09	10:01:04.96	0.36	0.84	48.1872	16.8954				0.8	2.6	13	0	100	0.32	1.33		kx BUD	42253117	sysop			360
2018/10/09	10:01:03.36	1.00	1.36	48.1971	16.8938	5.6	3.3	168	0.0f		15	9	100	0.31	2.03		kx ILOC	13	ILOC			148
(quarry blast, Devin, Slovakia) (#PRIME)																						

Magnitude Err Nsta Author OrigID
 ML 1.5 0.5 3 ILOC 13

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
MODS	0.31	55.3	Pg	10:01:09.501	-0.6					T__				___		42253118	FDSN	SK	--	BUD	iLoc	HHZ	???	_	
MODS	0.31	55.3	Lg	10:01:14.573	-0.7					T__				___		42253119	FDSN	SK	--	BUD	iLoc	HHN	???	_	
CONA	0.74	249.2	Pg	10:01:18.655	0.5					T__		4.3		___	ML	1.5	42253120	FDSN	OE	--	BUD	iLoc	BHZ	BHZ	_
CONA	0.74	249.2	Lg	10:01:29.031	-0.2					T__				___		42253121	FDSN	OE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.5 magdef=1)																									

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(Station ML: 1.5 magdef=1
EGYH 0.83 159.1 Lg 10:01:32.733 0.0 T__ --- 42253122 FDSN HU -- BUD iLoc HHN ??? _
JAVC 0.84 37.6 Pn 10:01:23.181 1.4 T__ --- 42253123 FDSN CZ -- BUD iLoc BHZ ??? _
MPLH 1.12 156.8 Lg 10:01:40.547 -1.6 T__ --- 42253124 FDSN HU -- BUD iLoc BHN ??? _
VRAC 1.13 350.0 Pn 10:01:26.116 0.6 T__ --- 42253125 FDSN CZ -- BUD iLoc BHZ ??? _
VRAC 1.13 350.0 Sn 10:01:42.393 -0.2 T__ --- 42253126 FDSN CZ -- BUD iLoc BHE ??? _
ARSA 1.32 224.8 Pg 10:01:29.000 -0.1 T__ 5.2 --- ML 2.0 42253127 FDSN OE -- BUD iLoc BHZ BHZ _
ARSA 1.32 224.8 Sn 10:01:46.730 -0.7 T__ --- 42253128 FDSN OE -- BUD iLoc BHE ??? _
(Reading ML: 2.0 magdef=1
(Station ML: 2.0 magdef=1
VYHS 1.33 76.4 Pg 10:01:29.683 -0.2 T__ 0.9 --- ML 1.2 42253129 FDSN SK -- BUD iLoc HHZ HHZ _
VYHS 1.33 76.4 Sn 10:01:46.950 -0.6 T__ --- 42253130 FDSN SK -- BUD iLoc HHN ??? _
(Reading ML: 1.2 magdef=1
(Station ML: 1.2 magdef=1
PSZI 2.03 96.8 I 10:13:53.800 3.9 277.1 -1.9 TA_ --- 29 FDSN HN -- BUD iLoc BDF ??? _

```

Event bud2018txvw Hungary

```

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2018/10/11 10:21:35.35 0.33 1.01 46.8963 17.4084 0.0 0.0 10 0 77 0.29 1.47 kx BUD 43131516 KM 360
2018/10/11 10:21:33.38 1.11 0.55 46.9177 17.4443 6.7 4.8 67 0.0f 11 8 74 0.26 1.94 kx ILOC 17 ILOC 133
(#PRIME)
(quarry blast, Varvolgy, Hungary)

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Magnitude Err Nsta Author OrigID
ML 2.1 0.4 6 ILOC 17

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Sta Dist EVAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude ArrID Agy Deploy Ln Auth Rep PCh ACh L
MPLH 0.26 14.4 Pg 10:21:38.979 -0.3 T__ 50.1 --- ML 1.7 43131517 FDSN HU -- BUD iLoc BHZ BHZ _
MPLH 0.26 14.4 Lg 10:21:44.742 0.9 T__ --- 43131518 FDSN HU -- BUD iLoc BHN ??? _
(Reading ML: 1.7 magdef=1
(Station ML: 1.7 magdef=1
BEHE 0.64 226.0 Pg 10:21:47.349 0.7 T__ 27.0 --- ML 2.3 43131519 FDSN HU -- BUD iLoc BHZ BHZ _
(Reading ML: 2.3 magdef=1
(Station ML: 2.3 magdef=1
CSKK 0.71 51.1 Pn 10:21:49.854 0.1 T__ 148.9 --- ML 3.1 43131520 FDSN HU -- BUD iLoc HHZ HHZ _
(Reading ML: 3.1 magdef=1
(Station ML: 3.1 magdef=0
KOVH 0.95 151.1 Pg 10:21:52.495 -0.1 T__ 6.8 --- ML 1.9 43131522 FDSN HU -- BUD iLoc BHZ BHZ _
KOVH 0.95 151.1 Lg 10:22:06.252 -0.7 T__ --- 43131523 FDSN HU -- BUD iLoc BHE ??? _
(Reading ML: 1.9 magdef=1
(Station ML: 1.9 magdef=1
KOGS 0.95 240.7 Pg 10:21:52.015 -0.2 T__ 29.7 --- ML 2.5 43131521 FDSN SL -- BUD iLoc BHZ BHZ _
(Reading ML: 2.5 magdef=1
(Station ML: 2.5 magdef=1
MORH 1.09 129.9 Pg 10:21:55.514 0.4 T__ 1.4 --- ML 1.2 43131525 FDSN HU -- BUD iLoc BHZ BHZ _
MORH 1.09 129.9 Sn 10:22:11.706 -0.2 T__ --- 43131524 FDSN HU -- BUD iLoc BHE ??? _
(Reading ML: 1.2 magdef=1
(Station ML: 1.2 magdef=0
CONA 1.48 313.8 Lg 10:22:23.336 -0.6 T__ --- 43131526 FDSN OE -- BUD iLoc BHE ??? _
PSZI 1.94 58.1 I 10:34:37.600 54.3 241.0 1.1 _A_ --- 147 FDSN HN -- BUD iLoc BDF ??? _

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Event bud2018txzk Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/10/11	12:08:59.64			47.8650	20.1529				0.0			0					kx BUD_GT	23	BUD			
(GT info : GT2 explosion)																						
(Locality : Kisanana)																						
2018/10/11	12:09:00.56	1.24	2.41	47.8840	20.1326	4.1	1.0	102	0.0f		9	5	221	0.16	1.06		kx ILOC	14	ILOC			260
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.6	0.2	4 ILOC	14

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.16	282.2	Pg	12:09:04.559	-0.1					T__		58.8		___	ML	1.5	42336036	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.16	282.2	Lg	12:09:07.504	-0.4					T__				___		42336037	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									
PSZI	0.16	282.0	I	12:09:48.200	-5.2	103.8	2.0			TA_				___	30		FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.64	21.4	Pg	12:09:15.203	1.7					T__		6.9		___	ML	1.7	42336038	FDSN	SK	--	BUD	iLoc	EHE	EHZ	_
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
ABAH	0.85	60.5	Pg	12:09:16.851	-0.6					T__		7.3		___	ML	1.8	42336040	FDSN	HU	--	BUD	iLoc	HHE	HHZ	_
ABAH	0.85	60.5	Lg	12:09:29.477	-2.0					T__				___		42336039	FDSN	HU	--	BUD	iLoc	HHE	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
VYHS	1.06	305.6	Pn	12:09:22.192	0.4					T__		0.9		___	ML	1.0	42336042	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	1.06	305.6	Lg	12:09:37.628	0.2					T__				___		42336041	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=1)																									

Event bud2018ugys Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/10/16	10:01:10.03	0.26	1.32	48.1496	16.8287				0.0	0.0	16	0	100	0.37	1.45		kx BUD	42450536	sysop			360
2018/10/16	10:01:08.13	0.97	1.27	48.1710	16.8781	4.6	3.5	174	0.0f		18	10	70	0.34	2.04		kx ILOC	15	ILOC			103
(#PRIME)																						
(quarry blast, Devin, Slovakia)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
MODS	0.34	52.6	Pg	10:01:14.766	-0.6					T__				___		42450537	FDSN	SK	--	BUD	iLoc	HHZ	???	_	
MODS	0.34	52.6	Lg	10:01:19.866	-0.9					T__				___		42450538	FDSN	SK	--	BUD	iLoc	HHN	???	_	
CONA	0.72	250.8	Pg	10:01:22.959	0.4					T__		5.8		___	ML	1.7	42450539	FDSN	OE	--	BUD	iLoc	BHZ	BHZ	_
CONA	0.72	250.8	Lg	10:01:29.993	-3.4					T__				___		42450540	FDSN	OE	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=0)																									
EGYH	0.81	157.8	Lg	10:01:37.387	0.6					T__				___		42450541	FDSN	HU	--	BUD	iLoc	HHE	???	_	
JAVC	0.87	37.1	Pn	10:01:28.528	1.6					T__				___		42450542	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
JAVC	0.87	37.1	Sn	10:01:41.276	-0.1					T__				___		42450543	FDSN	CZ	--	BUD	iLoc	BHE	???	_	
KRUC	0.95	340.4	Pn	10:01:27.996	0.2					T__				___		42450544	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
KRUC	0.95	340.4	Sn	10:01:42.609	-0.3					T__				___		42450545	FDSN	CZ	--	BUD	iLoc	BHN	???	_	
MPLH	1.10	155.7	Lg	10:01:44.938	-1.3					T__				___		42450546	FDSN	HU	--	BUD	iLoc	BHN	???	_	

VRAC	1.15	350.7	Pn	10:01:31.188	0.5	T__										42450547	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
VRAC	1.15	350.7	Sn	10:01:47.791	-0.1	T__										42450548	FDSN	CZ	--	BUD	iLoc	BHE	???	_	
ARSA	1.30	225.3	Pn	10:01:33.414	0.8	T__		4.2								42450549	FDSN	OE	--	BUD	iLoc	BHZ	BHZ	_	
ARSA	1.30	225.3	Sn	10:01:52.026	0.5	T__										42450550	FDSN	OE	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=0)																									
TREC	1.45	321.2	Pg	10:01:36.158	0.6	T__										42450551	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
TREC	1.45	321.2	Lg	10:01:56.175	-0.1	T__										42450552	FDSN	CZ	--	BUD	iLoc	BHE	???	_	
PSZI	2.04	96.0	I	10:13:55.380	-2.3	277.8	-0.5	TA_								31	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018uiwr Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp			
2018/10/17	11:16:03.55	0.25	1.11	48.4111	17.2625				0.0	0.0	16	0	75	0.04	1.65	kx	BUD	43163585	KM			360			
2018/10/17	11:16:02.06	1.10	0.62	48.3777	17.2985	5.5	3.3	140	0.0f		17	11	80	0.01	1.80	kx	ILOC	18	ILOC			123			
(#PRIME)																									
(quarry blast, Rohoznik, Slovakia)																									

Magnitude	Err	Nsta	Author	OrigID	
M	1.7	4	BUD	43163585	
MLv	1.7	0.3	4	BUD	43163585
ML	1.8	0.2	4	ILOC	18

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
MODS	0.01	253.8	Pg	11:16:03.085	0.3					T__						43163586	FDSN	SK	--	BUD	iLoc	HHZ	???	_	
MODS	0.01	253.8	Lg	11:16:04.085	0.6					T__						43163587	FDSN	SK	--	BUD	iLoc	HHN	???	_	
JAVC	0.54	27.0	Pg	11:16:12.522	-0.7					T__						43163588	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
JAVC	0.54	27.0	Lg	11:16:21.690	0.2					T__						43163589	FDSN	CZ	--	BUD	iLoc	BHN	???	_	
KRUC	0.91	319.2	Pg	11:16:18.932	-0.4					T__						43163590	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
VYHS	1.03	82.9	Pg	11:16:22.260	-0.4					T__		1.3				43163593	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_	
(Reading ML: 1.2 magdef=1)																									
(Station ML: 1.2 magdef=1)																									
VRAC	1.04	333.7	Pg	11:16:21.548	-0.1					T__						43163591	FDSN	CZ	--	BUD	iLoc	BHE	???	_	
VRAC	1.04	333.7	Lg	11:16:36.501	0.4					T__						43163592	FDSN	CZ	--	BUD	iLoc	BHE	???	_	
CONA	1.06	245.5	Pg	11:16:22.294	-0.8					T__		5.0				43163594	FDSN	OE	--	BUD	iLoc	BHZ	BHZ	_	
CONA	1.06	245.5	Lg	11:16:38.802	-0.1					T__						43163595	FDSN	OE	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
CSKK	1.20	147.1	Lg	11:16:44.853	1.4					T__						43163596	FDSN	HU	--	BUD	iLoc	HHE	???	_	
MORC	1.41	6.4	Pn	11:16:28.247	-0.0					T__						43163598	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
MORC	1.41	6.4	Sn	11:16:48.461	0.0					T__						43163597	FDSN	CZ	--	BUD	iLoc	BHN	???	_	
OKC	1.56	20.6	Pg	11:16:32.393	0.6					T__		2.8				43163599	FDSN	CZ	--	BUD	iLoc	BHZ	BHZ	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
ARSA	1.64	227.4	Pg	11:16:33.629	-0.3					T__		4.8				43163600	FDSN	OE	--	BUD	iLoc	BHZ	BHZ	_	
ARSA	1.64	227.4	Lg	11:16:55.957	-0.8					T__						43163601	FDSN	OE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 2.1 magdef=1)																									
(Station ML: 2.1 magdef=1)																									
PSZI	1.80	103.9	I	11:28:23.400	70.6	287.8	2.0			_A_						148	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018uknz Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/10/18	09:08:55.98	0.75	0.26	48.3531	18.4743				0.0	0.0	6	0	212	0.28	0.80	kx	BUD	43164020	KM			360
2018/10/18	09:08:55.31	1.49	1.27	48.4001	18.4444	11.1	3.9	12	0.0f		7	4	152	0.28	1.08	kx	ILOC	14	ILOC			198

(#PRIME)
(quarry blast, Hostie, Slovakia)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
VYHS	0.28	70.0	Pg	09:09:01.020	-0.0					T__		2.6		___	ML	0.5	43164021	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.28	70.0	Lg	09:09:04.863	-0.5					T__				___		43164022	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 0.5 magdef=1 Station ML: 0.5 magdef=0)																									
JAVC	0.69	312.1	Pg	09:09:09.883	0.6					T__				___		43164023	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
JAVC	0.69	312.1	Lg	09:09:19.612	0.0					T__				___		43164024	FDSN	CZ	--	BUD	iLoc	BHN	???	_	
MODS	0.78	268.5	Pg	09:09:11.476	0.3					T__				___		43164026	FDSN	SK	--	BUD	iLoc	HHZ	???	_	
MODS	0.78	268.5	Lg	09:09:21.758	-0.9					T__				___		43164025	FDSN	SK	--	BUD	iLoc	HHE	???	_	
PSZI	1.08	115.9	I	09:15:12.200	2.2	304.3	7.3			T__				___		123	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018ukqa Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2018/10/18	10:09:53.31			47.2302	18.2835				0.0								kx	BUD_GT	23		BUD		
(GT info : GT2 explosion) (locality : Iszkaszentgyorgy)																							
2018/10/18	10:09:51.47	1.35	0.68	47.2315	18.2624	8.0	4.6	72	0.0f		8	5	107	0.13	1.30	kx	ILOC	16		ILOC			173

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	1.2	0.2	3 ILOC	16

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
CSKK	0.13	359.4	Pg	10:09:55.008	0.3					T__		240.8		___	ML	2.0	43164113	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
CSKK	0.13	359.4	Lg	10:09:57.431	0.0					T__				___		43164114	FDSN	HU	--	BUD	iLoc	HHN	???	_	
(Reading ML: 2.0 magdef=1 Station ML: 2.0 magdef=1)																									
MPLH	0.50	263.2	Pg	10:10:02.417	0.5					T__		3.7		___	ML	1.2	43164116	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MPLH	0.50	263.2	Lg	10:10:09.687	-0.1					T__				___		43164115	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.2 magdef=1 Station ML: 1.2 magdef=1)																									
MORH	1.05	165.4	Pg	10:10:13.219	0.8					T__		1.0		___	ML	1.1	43164117	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	1.05	165.4	Lg	10:10:27.899	-0.3					T__				___		43164118	FDSN	HU	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.1 magdef=1 Station ML: 1.1 magdef=1)																									
KOVH	1.15	185.6	Sn	10:10:30.391	-1.1					T__				___		43164119	FDSN	HU	--	BUD	iLoc	BHE	???	_	
PSZI	1.30	57.5	I	10:13:38.000	-999	243.4	4.7			_A_				___		32	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018uxtt Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2018/10/25	14:49:06.38	0.38	1.75	47.8736	19.5801				0.0	0.0	8	0	162	0.22	1.59	kx	BUD	43255542	MP				360
2018/10/25	14:49:03.54	1.22	4.90	47.8962	19.5190	3.9	1.5	84	0.0f		10	7	153	0.25	1.55	kx	ILOC	17		ILOC			177

(#PRIME)

(quarry blast, Bercel, Hungary)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZI	0.25	84.9	I	14:50:37.800	12.7	263.9	-1.3			TA_				---	33	FDSN	HN	--	BUD	iLoc	BDF	???	_		
PSZ	0.25	84.8	Pg	14:49:08.202	-1.2					T__		20.8		---	ML	1.3	43255544	FDSN	GE	--	MP	ISC	BHZ	BHZ	_
PSZ	0.25	84.8	Lg	14:49:13.358	-0.7					T__				---		43255543	FDSN	GE	--	MP	ISC	BHZ	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=0)																									
VYHS	0.75	322.9	Pg	14:49:18.854	0.1					T__		2.1		---	ML	1.2	43255546	FDSN	SK	--	MP	ISC	HHZ	HHZ	_
VYHS	0.75	322.9	Sn	14:49:33.307	-0.3					T__				---		43255545	FDSN	SK	--	MP	ISC	HHN	???	_	
(Reading ML: 1.2 magdef=1)																									
(Station ML: 1.2 magdef=0)																									
CSKK	1.00	238.4	Sn	14:49:40.228	0.4					T__				---		43255547	FDSN	HU	--	MP	ISC	HHN	???	_	
ABAH	1.22	70.2	Lg	14:49:46.624	-0.7					T__				---		43255548	FDSN	HU	--	MP	ISC	HHN	???	_	
MPLH	1.53	242.3	Sn	14:49:54.105	1.4					T__				---		43255549	FDSN	HU	--	MP	ISC	BHE	???	_	
EGYH	1.55	252.8	Lg	14:49:57.837	1.0					T__				---		43255550	FDSN	HU	--	MP	ISC	HHN	???	_	

Event bud2018vr1m Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/11/05	09:22:18.65	0.54	0.59	47.2968	17.6345				0.0	0.0	4	0	140	0.14	0.43	kx	BUD	43907518	sysop			360
2018/11/05	09:22:17.09	1.63	3.66	47.2901	17.5724	6.6	4.2	156	0.0f		6	4	119	0.12	1.69	kx	ILOC	1	ILOC			236

(#PRIME)

(quarry blast, Ugod, Hungary)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
MPLH	0.12	190.6	Pg	09:22:20.544	0.3					T__		42.7		---	ML	1.3	43907519	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
MPLH	0.12	190.6	Lg	09:22:23.292	0.5					T__				---		43907520	FDSN	HU	--	MP	ISC	BHZ	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=0)																									
EGYH	0.21	307.9	Lg	09:22:25.938	0.2					T__				---		43907521	FDSN	HU	--	MP	ISC	HHE	???	_	
CSKK	0.47	80.9	Lg	09:22:32.351	-2.1					T__				---		43907522	FDSN	HU	--	MP	ISC	HHE	???	_	
PSZI	1.69	67.3	I	09:32:49.400	5.9	247.9	-1.2			TA_				---		150	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018vruc Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/11/05	13:42:31.85	1.92	0.01	46.1254	18.0152				0.0	0.0	4	0	334	0.16	0.54	kx	BUD_GT	43103600	sysop			360

(GT info : GT2 explosion)

(locality : Bukkosd)

2018/11/05	13:42:31.85f		1.04	46.1716	17.9872	8.1	4.4	128	0.0f		6	3	259	0.11	2.18	kx	ILOC	2	ILOC			311
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(#PRIME)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.11	136.7	Pg	13:42:35.102	0.3					T__		150.1		---	ML	1.8	43103601	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
KOVH	0.11	136.7	Lg	13:42:36.495	-0.7					T__				---		43103602	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=0)																									
MORH	0.46	84.3	Pg	13:42:42.254	0.8					T__		1.9		---	ML	0.9	43103603	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	0.46	84.3	Lg	13:42:49.012	0.2					T__				---		43103604	FDSN	HU	--	BUD	iLoc	BHN	???	_	

(Reading ML: 0.9 magdef=1
 (Station ML: 0.9 magdef=0
 PSZI 2.18 36.0 I 13:56:15.000 -1.7 216.2 -1.2 TA_ --- 151 FDSN HN -- BUD iLoc BDF ??? _

Event bud2018vxaj Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/11/08	10:34:04.25	1.92	0.17	46.1765	18.2926				0.0	0.0	4	0	290	0.29	0.39	kx	BUD_GT	43190667	sysop			360
(GT info : GT2 explosion)																						
(Locality : Komlo)																						
2018/11/08	10:34:04.25f		0.40	46.5449	18.7092	12.7	8.5	61	0.0f		3	2	202	0.33	1.59	kx	ILOC	3	ILOC			360
(#PRIME)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
MORH	0.33	187.9	Pg	10:34:11.657	0.3					T__		2.7		___	ML	0.7	43190670	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	0.33	187.9	Lg	10:34:16.626	-0.3					T__				___			43190671	FDSN	HU	--	BUD	iLoc	BHE	???	_
(Reading ML: 0.7 magdef=1 (Station ML: 0.7 magdef=0																									
KOVH	0.62	223.0	Pg	10:34:10.204	-6.9					___		13.9		___	ML	2.0	43190668	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
KOVH	0.62	223.0	Lg	10:34:13.161	-13.7					___				___			43190669	FDSN	HU	--	BUD	iLoc	BHN	???	_
(Reading ML: 2.0 magdef=1 (Station ML: 2.0 magdef=0																									
PSZI	1.59	30.0	I	10:47:06.000	196.8	210.6	-0.3			_A_				___			152	FDSN	HN	--	BUD	iLoc	BDF	???	_

Event bud2018vxcp Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/11/08	11:41:09.13	0.56	0.45	48.3795	20.0095				0.0	0.0	4	0	152	0.33	0.79	kx	BUD	43909377	sysop			360
2018/11/08	11:41:08.02	1.66	6.84	48.2980	20.0046	9.1	4.9	106	0.0f		5	4	135	0.37	0.80	kx	ILOC	4	ILOC			266
(#PRIME)																						
(quarry blast, Velke-Dravce, Slovakia)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KECS	0.37	59.8	Lg	11:41:19.585	-1.8					T__				___			43909378	FDSN	SK	--	MP	ISC	EHE	???	_
PSZ	0.39	191.0	Pg	11:41:17.448	0.9					T__		13.6		___	ML	1.5	43909380	FDSN	GE	--	MP	ISC	BHZ	BHZ	_
PSZ	0.39	191.0	Lg	11:41:24.369	1.3					T__				___			43909379	FDSN	GE	--	MP	ISC	BHN	???	_
(Reading ML: 1.5 magdef=1 (Station ML: 1.5 magdef=0																									
PSZI	0.39	191.1	I	11:43:04.400	-9.3	358.7	347.7			T__				___			153	FDSN	HN	--	BUD	iLoc	BDF	???	_
VYHS	0.80	284.6	Lg	11:41:34.648	-1.4					T__				___			43909381	FDSN	SK	--	MP	ISC	HHN	???	_

Event bud2018weji Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/11/12	11:02:37.07	1.81	0.38	45.9590	18.0025				0.0	0.0	5	0	285	0.15	1.25	kx	BUD	43317535	sysop			360
2018/11/12	11:02:38.48	1.46	2.04	46.1460	18.1090	6.9	4.1	119	0.0f		7	4	152	0.06	2.15	kx	ILOC	5	ILOC			259
(#PRIME)																						
(quarry blast, Bukkosd, Hungary)																						

Magnitude Err Nsta Author OrigID

ML 1.9 0.0 3 ILOC 5

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.06	186.3	Pg	11:02:39.694	-0.6					T__		265.2		___	ML	1.9	43317536	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																									
MORH	0.38	79.3	Pg	11:02:46.611	0.1					T__		1.4		___	ML	0.5	43317537	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	0.38	79.3	Lg	11:02:53.760	1.0					T__				___		43317538	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 0.5 magdef=1 Station ML: 0.5 magdef=1)																									
MPLH	1.10	339.3	Pg	11:03:00.960	0.2					T__		6.2		___	ML	1.9	43317539	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MPLH	1.10	339.3	Sn	11:03:16.902	-0.6					T__				___		43317540	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																									
PSZI	2.15	33.9	I	11:16:08.800	-3.9	213.4	-1.8			TA_				___		154	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018weoi Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/11/12	13:34:34.12	0.37	0.81	48.5860	17.4629				0.0	0.0	8	0	147	0.25	1.26	kx	BUD	43909719	sysop			360
2018/11/12	13:34:32.53	1.38	0.31	48.5812	17.4502	5.1	3.7	167	0.0f		10	5	148	0.24	1.76	kx	ILOC	6	ILOC			215
#PRIME																						
(quarry blast, Boleraz, Slovakia)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
MODS	0.24	209.0	Pg	13:34:37.602	-0.2					T__				___		43909720	FDSN	SK	--	BUD	iLoc	HHZ	???	_	
MODS	0.24	209.0	Lg	13:34:42.206	0.4					T__				___		43909721	FDSN	SK	--	MP	ISC	HHN	???	_	
JAVC	0.31	27.6	Pg	13:34:39.222	-0.0					T__				___		43909722	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
JAVC	0.31	27.6	Lg	13:34:44.314	-0.0					T__				___		43909723	FDSN	CZ	--	BUD	iLoc	BHE	???	_	
VYHS	0.93	94.9	Pg	13:34:51.340	0.3					T__		1.0		___	ML	1.0	43909724	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	0.93	94.9	Lg	13:35:04.313	-0.3					T__				___		43909725	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.0 magdef=1 Station ML: 1.0 magdef=0)																									
CONA	1.25	239.0	Pg	13:34:57.094	-0.1					T__		4.2		___	ML	1.8	43909726	FDSN	OE	--	BUD	iLoc	BHZ	BHZ	_
CONA	1.25	239.0	Lg	13:35:15.197	0.1					T__				___		43909727	FDSN	OE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=0)																									
PSZI	1.76	111.2	I	13:45:28.200	-0.5	295.5	2.5			TA_				___		155	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018wgad Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/11/13	08:40:10.76	0.71	0.53	47.9752	20.2927				0.0	0.0	5	0	195	0.27	0.71	kx	BUD	43909845	sysop			360
2018/11/13	08:40:09.08	1.48	3.05	47.9823	20.3198	4.2	1.8	79	0.0f		7	4	194	0.29	0.69	kx	ILOC	7	ILOC			245
#PRIME																						
(quarry blast, Belapatfalva, Hungary)																						

Magnitude	Err	Nsta	Author	OrigID
M	1.3	2	BUD	43909845

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
-----	------	------	-------	------	------	------	-------	------	------	-----	-----	-----	-----	------	-----------	-------	-----	--------	----	------	-----	-----	-----	---

PSZ	0.29	257.5	Pg	08:40:15.478	-0.3	T__		6.1	___	ML	0.9	43909846	FDSN	GE	--	MP	ISC	BHZ	BHZ	_
PSZ	0.29	257.5	Lg	08:40:19.753	-1.2	T__			___			43909847	FDSN	GE	--	MP	ISC	BHN	???	_
(Reading ML: 0.9 magdef=1)																				
(Station ML: 0.9 magdef=0)																				
PSZI	0.29	257.5	I	08:41:49.800	5.9	73.7	-3.5	TA_				156	FDSN	HN	--	BUD	iLoc	BDF	???	_
KECS	0.51	12.4	Pg	08:40:20.262	0.8	T__		10.7	___	ML	1.8	43909849	FDSN	SK	--	MP	ISC	EHN	EHZ	_
KECS	0.51	12.4	Lg	08:40:27.641	0.3	T__			___			43909848	FDSN	SK	--	MP	ISC	EHN	???	_
(Reading ML: 1.8 magdef=1)																				
(Station ML: 1.8 magdef=0)																				
ABAH	0.69	62.7	Lg	08:40:33.901	-0.6	T__			___			43909850	FDSN	HU	--	MP	ISC	HHN	???	_

Event bud2018whxq Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/11/14	09:40:31.97	0.44	0.46	47.3558	18.3712				0.0	0.0	6	0	109	0.08	1.18	kx	BUD	43910085	sysop			360
2018/11/14	09:40:29.37	1.42	0.44	47.3466	18.4162	7.4	5.5	62	0.0f		7	6	112	0.11	1.18	kx	ILOC	8	ILOC			194
(#PRIME)																						
(quarry blast, Gant, Hungary)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
CSKK	0.11	278.9	Pg	09:40:32.577	0.4	T__						2306.1		___	ML	3.0	43910086	FDSN	HU	--	MP	ISC	HHZ	HHZ	_
CSKK	0.11	278.9	Lg	09:40:34.002	-0.5	T__								___		43910087	FDSN	HU	--	MP	ISC	HHZ	???	_	
(Reading ML: 3.0 magdef=1)																									
(Station ML: 3.0 magdef=0)																									
MPLH	0.62	253.9	Lg	09:40:51.406	-0.4	T__								___		43910088	FDSN	HU	--	MP	ISC	BHE	???	_	
MORH	1.14	172.1	Lg	09:41:09.116	-0.1	T__								___		43910091	FDSN	HU	--	MP	ISC	BHE	???	_	
PSZI	1.15	59.7	I	09:45:53.200	-77.7	234.9	-5.9	_A_						___		157	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	1.15	59.7	Sn	09:41:09.676	-0.0	T__								___		43910089	FDSN	GE	--	MP	ISC	BHN	???	_	
VYHS	1.18	13.7	Lg	09:41:10.032	-0.4	T__								___		43910090	FDSN	SK	--	MP	ISC	HHE	???	_	

Event bud2018wjtq Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/11/15	09:55:53.04	0.69	0.37	46.2981	21.8457				2.5	3.6	7	0	154	0.13	1.11	kx	BUD	43387115	sysop			360
2018/11/15	09:55:51.71	1.41	1.26	46.3407	21.8176	4.6	4.2	62	0.0f		9	5	92	0.13	2.05	kx	ILOC	9	ILOC			183
(#PRIME)																						
(quarry blast, Tarnova, Romania)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.5	0.3	4 ILOC	9

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
SIRR	0.13	236.3	Pg	09:55:55.555	0.6	T__						22.4		___	ML	1.0	43387116	FDSN	RO	--	BUD	iLoc	BHZ	BHZ	_
SIRR	0.13	236.3	Lg	09:55:58.049	0.4	T__								___		43387117	FDSN	RO	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=1)																									
BZS	0.74	191.0	Pg	09:56:06.137	-0.1	T__						2.9		___	ML	1.4	43387118	FDSN	RO	--	BUD	iLoc	BHZ	BHZ	_
BZS	0.74	191.0	Lg	09:56:15.728	-1.3	T__								___		43387119	FDSN	RO	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									
DRGR	0.76	53.5	Pg	09:56:08.232	1.1	T__						4.8		___	ML	1.6	43387120	FDSN	RO	--	BUD	iLoc	BHZ	BHZ	_

DRGR	0.76	53.5	Lg	09:56:18.222	-1.5	T__										43387121	FDSN	RO	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
GZR	1.16	144.4	Pg	09:56:14.661	0.7	T__		4.2		___	ML	1.8	43387122	FDSN	RO	--	BUD	iLoc	BHZ	BHZ	_				
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
PSZI	2.05	320.9	I	10:08:45.000	-1.8	138.0	-1.5	TA_								158	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018wjul Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/11/15	10:20:04.24	0.64	0.69	48.5992	20.8425				0.0	0.0	9	0	196	0.26	1.34	kx	BUD	43910583	sysop			360
2018/11/15	10:20:03.97	1.28	0.43	48.5625	20.7552	4.9	4.2	43	0.0f		11	6	184	0.20	1.28	kx	ILOC	10	ILOC			276

(#PRIME)

(quarry blast, Dvorniky-Vcelare, Slovakia)

Magnitude	Err	Nsta	Author	OrigID
ML	1.7	0.0	5 ILOC	10

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KECS	0.20	246.2	Pg	10:20:08.202	0.1					T__		66.3		___	ML	1.7	43910584	FDSN	SK	--	BUD	iLoc	EHE	EHZ	_
(Reading ML: 1.7 magdef=1)																									
KECS	0.20	246.2	Lg	10:20:11.855	0.6					T__						43910585	FDSN	SK	--	MP	ISC	EHE	???	_	
(Station ML: 1.7 magdef=0)																									
ABAH	0.42	129.4	Pg	10:20:12.555	0.0					T__		7.7		___	ML	1.4	43910586	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									
PSZ	0.86	222.1	Pg	10:20:21.664	-0.5					T__		4.7		___	ML	1.7	43910587	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.86	222.1	Lg	10:20:35.331	-0.3					T__						43910588	FDSN	GE	--	BUD	iLoc	BHE	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
PSZI	0.86	222.1	I	10:24:55.800	0.5	43.4	2.0			TA_						159	FDSN	HN	--	BUD	iLoc	BDF	???	_	
(Reading ML: 1.7 magdef=1)																									
LANS	1.03	305.2	Pg	10:20:23.965	-0.3					T__		3.9		___	ML	1.7	43910589	FDSN	SK	--	BUD	iLoc	EHZ	EHZ	_
LANS	1.03	305.2	Lg	10:20:39.426	0.0					T__						43910590	FDSN	SK	--	BUD	iLoc	EHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
VYHS	1.28	267.6	Pn	10:20:28.729	0.4					T__		1.0		___	ML	1.2	43910591	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	1.28	267.6	Sn	10:20:46.992	-0.5					T__						43910592	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.2 magdef=1)																									
(Station ML: 1.2 magdef=0)																									

Event bud2018wlre Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/11/16	10:58:04.17	0.36	0.87	47.2302	18.2835				0.0	0.0	9	0	109	0.15	1.70	kx	BUD_GT	43910941	sysop			360

(GT info : GT2 explosion)

(locality : Iszkaszentgyorgy)

2018/11/16	10:58:02.30	1.27	0.81	47.2240	18.3303	6.7	4.4	71	0.0f		10	7	111	0.15	1.70	kx	ILOC	11	ILOC			208
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(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
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ML 1.6 0.5 3 ILOC 11

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
CSKK	0.15	341.2	Pg	10:58:05.646	-0.2					T__		314.4		___	ML	2.2	43910942	FDSN	HU	--	MP	ISC	HHZ	HHZ	_
CSKK	0.15	341.2	Lg	10:58:08.190	-0.6					T__				___		43910943	FDSN	HU	--	MP	ISC	HHN	???	_	
(Reading ML: 2.2 magdef=1)																									
(Station ML: 2.2 magdef=1)																									
MPLH	0.54	264.6	Pg	10:58:13.483	-0.1					T__		6.8		___	ML	1.6	43910945	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
MPLH	0.54	264.6	Lg	10:58:21.931	-0.2					T__				___		43910944	FDSN	HU	--	MP	ISC	BHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
MORH	1.03	167.8	Pg	10:58:23.610	0.7					T__		1.8		___	ML	1.3	43910947	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
MORH	1.03	167.8	Lg	10:58:37.045	-1.4					T__				___		43910946	FDSN	HU	--	MP	ISC	BHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=1)																									
PSZI	1.27	56.2	I	11:07:04.400	94.0	237.1	-0.2			_A				___		160	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	1.27	56.2	Lg	10:58:46.409	-0.7					T__				___		43910948	FDSN	GE	--	MP	ISC	BHN	???	_	
VYHS	1.32	14.8	Lg	10:58:47.376	-0.2					T__				___		43910949	FDSN	SK	--	MP	ISC	HHN	???	_	
JAVC	1.70	345.1	Sn	10:58:56.791	1.1					T__				___		43910950	FDSN	CZ	--	MP	ISC	BHE	???	_	

Event bud2018wrpb Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/11/19	09:54:26.16	0.32	0.88	48.3938	17.2305				0.0	0.0	13	0	119	0.04	1.40	kx	BUD	43496080	sysop			360
2018/11/19	09:54:24.97	1.10	3.33	48.3841	17.2228	5.8	3.4	15	0.0f		15	8	137	0.04	1.85	kx	ILOC	12	ILOC			215
#PRIME)																						
(quarry blast, Rohoznik, Slovakia)																						

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
MODS	0.04	106.1	Pg	09:54:26.154	-0.3					T__				___		43496081	FDSN	SK	--	BUD	iLoc	HHZ	???	_	
MODS	0.04	106.1	Lg	09:54:27.931	0.2					T__				___		43496082	FDSN	SK	--	BUD	iLoc	HHE	???	_	
JAVC	0.56	31.8	Pg	09:54:35.431	-1.1					T__				___		43496083	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
JAVC	0.56	31.8	Lg	09:54:44.671	-0.3					T__				___		43496084	FDSN	CZ	--	BUD	iLoc	BHN	???	_	
KRUC	0.87	321.4	Pg	09:54:42.074	0.6					T__				___		43496085	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
KRUC	0.87	321.4	Lg	09:54:54.240	0.3					T__				___		43496086	FDSN	CZ	--	BUD	iLoc	BHE	???	_	
VRAC	1.01	336.0	Pg	09:54:44.389	0.4					T__				___		43496089	FDSN	CZ	--	BUD	iLoc	BHZ	???	_	
VRAC	1.01	336.0	Lg	09:54:59.152	1.0					T__				___		43496090	FDSN	CZ	--	BUD	iLoc	BHN	???	_	
CONA	1.02	243.9	Pn	09:54:45.990	0.2					T__		6.5		___	ML	1.9	43496087	FDSN	OE	--	BUD	iLoc	BHZ	BHZ	_
CONA	1.02	243.9	Lg	09:55:00.156	-0.1					T__				___		43496088	FDSN	OE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=0)																									
VYHS	1.08	83.6	Pg	09:54:45.505	-1.0					T__		1.0		___	ML	1.1	43496091	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	1.08	83.6	Lg	09:55:00.860	-1.5					T__				___		43496092	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.1 magdef=1)																									
(Station ML: 1.1 magdef=0)																									
MORC	1.41	8.5	Sn	09:55:11.590	0.2					T__				___		43496093	FDSN	CZ	--	BUD	iLoc	BHE	???	_	
PSZI	1.85	103.6	I	10:06:08.000	11.3	290.0	4.4			TA_				___		161	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018wsyu Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
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2018/11/20 10:45:16.74 1.12 0.54 47.8685 20.0895 1.3 3.3 7 0 230 0.14 1.05 kx BUD 43521392 sysop 360
 2018/11/20 10:45:15.90 1.43 1.54 47.9028 20.0653 4.1 0.7 97 0.0f 9 5 214 0.12 1.01 kx ILOC 13 ILOC 251
 (#PRIME)
 (quarry blast, Recsk, Hungary)

Magnitude Err Nsta Author OrigID
 ML 1.8 0.3 3 ILOC 13

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.12	277.8	Pg	10:45:18.953	-0.1					T__		150.1		___	ML	1.8	43521393	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.12	277.8	Lg	10:45:21.751	0.2					T__				___		43521394	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
PSZI	0.12	277.5	I	10:45:51.800	-1.6	97.4	0.0			TA_				___		162	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.65	25.7	Pg	10:45:30.575	1.7					T__		13.4		___	ML	2.0	43521396	FDSN	SK	--	BUD	iLoc	EHE	EHZ	_
KECS	0.65	25.7	Lg	10:45:38.261	-0.4					T__				___		43521395	FDSN	SK	--	BUD	iLoc	EHE	???	_	
(Reading ML: 2.0 magdef=1 Station ML: 2.0 magdef=1)																									
ABAH	0.88	63.0	Lg	10:45:45.183	-2.7					T__				___		43521397	FDSN	HU	--	BUD	iLoc	HHE	???	_	
VYHS	1.01	306.2	Pg	10:45:36.949	0.7					T__		1.4		___	ML	1.2	43521398	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	1.01	306.2	Lg	10:45:50.281	-0.9					T__				___		43521399	FDSN	SK	--	BUD	iLoc	HHZ	???	_	
(Reading ML: 1.2 magdef=1 Station ML: 1.2 magdef=1)																									

Event bud2018wszb Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/11/20	10:53:49.15	0.55	1.44	47.7724	20.0434				0.0	0.0	11	0	155	0.18	1.92		kx BUD	43522787	sysop			360
2018/11/20	10:53:48.66	1.07	1.47	47.8884	20.0473	4.2	0.8	106	0.0f		13	8	147	0.11	1.93		kx ILOC	2	ILOC			223
#PRIME) (quarry blast, Recsk, Hungary)																						

Magnitude Err Nsta Author OrigID
 ML 2.0 0.1 5 ILOC 2

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZ	0.11	286.3	Pg	10:53:51.744	0.2					T__		231.7		___	ML	2.0	43522788	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.11	286.3	Lg	10:53:54.936	0.9					T__				___		43522789	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 2.0 magdef=1 Station ML: 2.0 magdef=1)																									
PSZI	0.11	286.0	I	10:54:27.000	3.8	97.3	-8.5			TA_				___		163	FDSN	HN	--	BUD	iLoc	BDF	???	_	
KECS	0.66	26.1	Pg	10:54:02.932	1.0					T__		18.6		___	ML	2.1	43522790	FDSN	SK	--	BUD	iLoc	EHE	EHZ	_
KECS	0.66	26.1	Lg	10:54:12.024	-0.1					T__				___		43522791	FDSN	SK	--	BUD	iLoc	EHE	???	_	
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=0)																									
ABAH	0.90	62.5	Pn	10:54:07.624	-0.1					T__		12.3		___	ML	2.1	43522792	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
ABAH	0.90	62.5	Sn	10:54:22.184	-0.5					T__				___		43522793	FDSN	HU	--	BUD	iLoc	HHE	???	_	
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=1)																									
VYHS	1.01	307.2	Pn	10:54:09.044	-0.2					T__		1.6		___	ML	1.3	43522794	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	1.01	307.2	Lg	10:54:22.716	-1.2					T__				___		43522795	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.3 magdef=1)																									

(Station ML: 1.3 magdef=0
 NIE 1.54 6.1 Lg 10:54:41.394 1.5 T__ --- 43522796 FDSN PL -- BUD iLoc BHE ??? _
 JAVC 1.86 302.4 Lg 10:54:51.317 -0.9 T__ --- 43522798 FDSN CZ -- BUD iLoc BHE ??? _
 MORH 1.93 210.3 Pn 10:54:20.964 -1.0 T__ 2.7 --- ML 2.0 43522797 FDSN HU -- BUD iLoc BHZ BHZ _
 (Reading ML: 2.0 magdef=1
 (Station ML: 2.0 magdef=1

Event bud2018wuuc Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/11/21	10:39:57.52	1.51	0.46	47.8285	19.9317				0.0	0.0	6	0	333	0.15	1.13	kx	BUD_GT	43549256	sysop			360
(GT info : GT2 explosion)																						
(locality : Gyongyossolyomos-II)																						
2018/11/21	10:39:58.19	1.35	0.35	47.8636	19.9271	5.3	0.4	157	0.0f		8	4	274	0.06	0.98	kx	ILOC	15	ILOC			306
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
ML	2.1	0.0	3 ILOC	15

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PSZI	0.06	337.4	I	10:40:17.200	0.1	157.3	-0.1			TA_						164	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	0.06	338.2	Pg	10:39:59.871	-0.3					T__		186.0			ML	1.7	43549257	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.06	338.2	Lg	10:40:01.954	0.1					T__						43549258	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
KECS	0.72	30.9	Pn	10:40:14.367	-0.3					T__		14.1			ML	2.1	43549259	FDSN	SK	--	BUD	iLoc	EHN	EHZ	_
KECS	0.72	30.9	Lg	10:40:24.222	0.5					T__						43549260	FDSN	SK	--	BUD	iLoc	EHN	???	_	
(Reading ML: 2.1 magdef=1)																									
(Station ML: 2.1 magdef=1)																									
ABAH	0.98	63.3	Pn	10:40:18.655	0.3					T__		10.8			ML	2.1	43549261	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
ABAH	0.98	63.3	Lg	10:40:33.936	0.3					T__						43549262	FDSN	HU	--	BUD	iLoc	HHN	???	_	
(Reading ML: 2.1 magdef=1)																									
(Station ML: 2.1 magdef=1)																									

Event bud2018wwom Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2018/11/22	10:06:22.00		1.16	47.2302	18.2835				0.0								kx	BUD_GT	43911702	sysop			360
(GT info : GT2 explosion)																							
(locality : Iszkaszentgyorgy)																							
2018/11/22	10:06:21.17	2.22	0.10	47.2445	18.3836	18.1	7.0	64	0.0f		4	3	206	0.15	1.22	kx	ILOC	16	ILOC			298	
(#PRIME)																							

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
CSKK	0.15	324.8	Pg	10:06:24.747	0.0					T__		122.0			ML	1.8	43911703	FDSN	HU	--	MP	ISC	HHZ	HHZ	_
CSKK	0.15	324.8	Lg	10:06:27.495	-0.1					T__						43911704	FDSN	HU	--	MP	ISC	HHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=0)																									
MPLH	0.58	263.0	Pg	10:06:33.246	0.0					T__		3.3			ML	1.3	43911705	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=0)																									

PSZI 1.22 56.1 I 10:15:14.200 101.9 234.4 -2.8 _A_ --- 165 FDSN HN -- BUD iLoc BDF ??? _

Event bud2018wykv Hungary

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
 2018/11/23 10:30:57.00 2.38 47.2302 18.2835 0.0 0 0 0 0.0 3 2 324 0.55 2.18 kx ILOC 17 ILOC 360
 (GT info : GT2 explosion)
 (Locality : Iszkaszentgyorgy)
 2018/11/23 10:30:57.00f 0.48 46.6449 17.2943 18.9 9.2 89 0.0f 3 2 324 0.55 2.18 kx ILOC 17 ILOC 360
 (#PRIME)

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
MPLH	0.55	17.7	Pg	10:31:08.246	-0.3					T__		4.1		___	ML	1.4	FDSN	HU	--	MP	ISC	BHZ	BHZ	_	
MPLH	0.55	17.7	Lg	10:31:17.661	0.4					T__				___		43911906	FDSN	HU	--	MP	ISC	BHN	???	_	
(Reading ML: 1.4 magdef=1 Station ML: 1.4 magdef=0)																									
CSKK	0.98	42.3	Pg	10:31:00.562	-16.2					---		267.2		___	ML	3.5	FDSN	HU	--	MP	ISC	HHZ	HHZ	_	
CSKK	0.98	42.3	Lg	10:31:02.597	-28.8					---				---		43911905	FDSN	HU	--	MP	ISC	HHN	???	_	
(Reading ML: 3.5 magdef=1 Station ML: 3.5 magdef=0)																									
PSZI	2.18	53.3	I	10:39:40.800	-999	235.5	0.3			_A_				---		166	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018xjkb Slovakia

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
 2018/11/29 10:38:15.77 0.88 0.51 48.6661 20.8076 0.0 0.0 8 0 238 0.28 1.32 kx BUD 43912757 sysop 360
 2018/11/29 10:38:14.96 1.31 0.69 48.6101 20.7632 5.6 4.1 13 0.0f 10 5 229 0.22 1.29 kx ILOC 18 ILOC 314
 (#PRIME)
 (quarry blast, Dvorniky-Vcelare, Slovakia)

Magnitude Err Nsta Author OrigID
 ML 1.8 0.2 4 ILOC 18

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KECS	0.22	235.6	Pg	10:38:20.254	0.6					T__		91.1		___	ML	1.9	FDSN	SK	--	BUD	iLoc	EHE	EHZ	_	
(Reading ML: 1.9 magdef=1)																									
KECS	0.22	235.6	Lg	10:38:23.921	0.7					T__				___		43912759	FDSN	SK	--	MP	ISC	EHN	???	_	
(Station ML: 1.9 magdef=1)																									
ABAH	0.45	134.6	Pg	10:38:24.831	0.8					T__		18.1		___	ML	1.8	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_	
ABAH	0.45	134.6	Lg	10:38:30.764	-0.9					T__				___		43912761	FDSN	HU	--	BUD	iLoc	HHE	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
PSZ	0.90	220.3	Pn	10:38:34.043	-0.2					T__		13.7		___	ML	2.1	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_	
PSZ	0.90	220.3	Lg	10:38:47.659	-0.3					T__				___		43912763	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=1)																									
PSZI	0.90	220.3	I	10:43:20.000	-0.8	43.6	3.9			TA_				---		168	FDSN	HN	--	BUD	iLoc	BDF	???	_	
VYHS	1.29	265.5	Pg	10:38:40.529	-0.0					T__		2.4		___	ML	1.6	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_	
VYHS	1.29	265.5	Sn	10:38:58.227	-0.5					T__				---		43912765	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																									

Event bud2018xlfi Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/11/30	10:31:11.17	0.34	1.02	47.2302	18.2835				0.0	0.0	9	0	109	0.14	1.32	kx	BUD_GT	43912812	sysop			360
(GT info : GT2 explosion)																						
(locality : Iszkaszentgyorgy)																						
2018/11/30	10:31:08.71	1.24	1.39	47.2355	18.3518	4.6	4.0	114	0.0f		11	7	112	0.14	1.30	kx	ILOC	19	ILOC			145
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
ML	1.6	0.1	3 ILOC	19

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
CSKK	0.14	334.1	Pg	10:31:12.545	0.4					T__		309.7		___	ML	2.2	43912813	FDSN	HU	--	MP	ISC	HHZ	HHZ	_
CSKK	0.14	334.1	Lg	10:31:14.682	-0.3					T__				___		43912814	FDSN	HU	--	MP	ISC	HHN	???	_	
(Reading ML: 2.2 magdef=1)																									
(Station ML: 2.2 magdef=1)																									
MPLH	0.56	263.6	Pg	10:31:19.822	-0.5					T__		6.5		___	ML	1.6	43912816	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
MPLH	0.56	263.6	Lg	10:31:29.033	-0.0					T__				___		43912815	FDSN	HU	--	MP	ISC	BHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
MORH	1.04	168.8	Pg	10:31:30.204	0.7					T__		2.8		___	ML	1.5	43912817	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
MORH	1.04	168.8	Lg	10:31:44.555	-0.6					T__				___		43912818	FDSN	HU	--	MP	ISC	BHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									
KOVH	1.16	188.7	Sn	10:31:48.779	-0.3					T__				___		43912819	FDSN	HU	--	MP	ISC	BHN	???	_	
PSZI	1.25	56.2	I	10:38:25.600	-3.6	237.9	0.5			TA_				___		169	FDSN	HN	--	BUD	iLoc	BDF	???	_	
PSZ	1.25	56.2	Lg	10:31:52.697	-0.2					T__				___		43912820	FDSN	GE	--	MP	ISC	BHE	???	_	
VYHS	1.30	14.3	Lg	10:31:54.478	1.0					T__				___		43912821	FDSN	SK	--	MP	ISC	HHE	???	_	

Event bud2018xuhm Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/12/05	09:49:36.26	1.92	0.52	46.1254	18.0152				0.0	0.0	4	0	337	0.16	0.54	kx	BUD_GT	43963493	sysop			360
(GT info : GT2 explosion)																						
(locality : Bukkosd)																						
2018/12/05	09:49:37.90	5.19	0.10	46.1227	18.0568	36.4	4.4	120	0.0f		5	3	255	0.05	2.19	kx	ILOC	20	ILOC			317
(#PRIME)																						

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.05	138.9	Pg	09:49:39.550	0.1					T__		207.3		___	ML	1.7	43963494	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
KOVH	0.05	138.9	Lg	09:49:40.868	-0.1					T__				___		43963495	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=0)																									
MORH	0.42	77.0	Pg	09:49:46.705	-0.0					T__		2.1		___	ML	0.8	43963496	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	0.42	77.0	Lg	09:49:53.597	0.0					T__				___		43963497	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 0.8 magdef=1)																									
(Station ML: 0.8 magdef=0)																									
PSZI	2.19	34.3	I	10:03:27.600	0.1	204.7	-11.0			T__				___		170	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018xwck Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/12/06	09:31:38.97	0.44	0.51	48.6629	20.8092				0.2	3.2	10	0	117	0.28	1.32	kx	BUD	43980856	sysop			360
2018/12/06	09:31:38.26	1.16	0.81	48.5992	20.7747	4.6	3.8	174	0.0f		12	7	114	0.22	1.29	kx	ILOC	21	ILOC			205

(#PRIME)
(quarry blast, Dvorniky-Vcelare, Slovakia)

Magnitude	Err	Nsta	Author	OrigID
ML	1.6	0.2	6 ILOC	21

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KECS	0.22	239.0	Pg	09:31:43.405	0.5					T__		82.4		___	ML	1.8	43980857	FDSN	SK	--	BUD	iLoc	EHE	EHZ	_
KECS	0.22	239.0	Lg	09:31:47.863	1.3					T__				___		43980858	FDSN	SK	--	BUD	iLoc	EHE	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=0)																									
ABAH	0.43	134.2	Pg	09:31:47.542	0.4					T__		11.1		___	ML	1.6	43980859	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
ABAH	0.43	134.2	Lg	09:31:53.932	-0.6					T__				___		43980860	FDSN	HU	--	BUD	iLoc	HHE	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																									
STHS	0.87	20.5	Pg	09:31:54.305	-0.1					T__		6.6		___	ML	1.8	43980861	FDSN	SK	--	BUD	iLoc	EHZ	EHZ	_
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
PSZ	0.90	221.1	Pg	09:31:57.005	-0.2					T__		5.6		___	ML	1.7	43980862	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.90	221.1	Lg	09:32:10.441	-0.7					T__				___		43980863	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
PSZI	0.90	221.1	I	09:36:41.600	-1.3	43.2	2.7			TA_				___		172	FDSN	HN	--	BUD	iLoc	BDF	???	_	
TRPA	1.27	111.1	Pn	09:32:03.138	0.4					T__		2.1		___	ML	1.5	43980864	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=1)																									
VYHS	1.29	266.1	Pg	09:32:04.121	0.1					T__		1.3		___	ML	1.3	43980866	FDSN	SK	--	BUD	iLoc	HHZ	HHZ	_
VYHS	1.29	266.1	Sn	09:32:21.125	-1.1					T__				___		43980865	FDSN	SK	--	BUD	iLoc	HHN	???	_	
(Reading ML: 1.3 magdef=1 Station ML: 1.3 magdef=0)																									

Event bud2018ykvn Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/12/14	11:05:30.72	0.46	1.11	46.8059	17.2878				0.0	0.0	8	0	178	0.40	1.48	kx	BUD	44171311	sysop			360
2018/12/14	11:05:28.24	1.40	0.29	46.8096	17.2621	11.0	4.7	56	0.0f		9	5	179	0.41	2.10	kx	ILOC	22	ILOC			246

(#PRIME)
(quarry blast, Varvolgy, Hungary)

Magnitude	Err	Nsta	Author	OrigID
ML	1.7	0.3	4 ILOC	22

Sta	Dist	EVaz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
MPLH	0.41	27.7	Pg	11:05:36.718	-0.3					T__		11.4		___	ML	1.5	44171312	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MPLH	0.41	27.7	Lg	11:05:44.124	0.5					T__				___		44171313	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.5 magdef=1)																									

(Station ML: 1.5 magdef=1
 KOVH 0.93 140.9 Pg 11:05:47.245 0.2 T__ 6.8 ___ ML 1.8 44171314 FDSN HU -- BUD iLoc BHZ BHZ _
 KOVH 0.93 140.9 Lg 11:06:00.809 -0.4 T__ ___ 44171315 FDSN HU -- BUD iLoc BHE ??? _
 (Reading ML: 1.8 magdef=1
 (Station ML: 1.8 magdef=1
 MORH 1.12 121.4 Pg 11:05:50.794 0.1 T__ 2.4 ___ ML 1.5 44171316 FDSN HU -- BUD iLoc BHZ BHZ _
 MORH 1.12 121.4 Sn 11:06:07.662 -0.1 T__ ___ 44171317 FDSN HU -- BUD iLoc BHE ??? _
 (Reading ML: 1.5 magdef=1
 (Station ML: 1.5 magdef=1
 CONA 1.47 320.1 Pg 11:05:57.267 -0.1 T__ 8.9 ___ ML 2.3 44171318 FDSN OE -- BUD iLoc BHZ BHZ _
 CONA 1.47 320.1 Lg 11:06:18.841 0.2 T__ ___ 44171319 FDSN OE -- BUD iLoc BHE ??? _
 (Reading ML: 2.3 magdef=1
 (Station ML: 2.3 magdef=1
 PSZI 2.10 57.2 I 11:17:35.800 -67.9 240.3 1.1 _A_ ___ 173 FDSN HN -- BUD iLoc BDF ??? _

Event bud2018yqhv Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/12/17	10:59:54.04	0.55	0.49	46.8649	17.0947				0.0	0.0	7	0	152	0.43	1.25	kx	BUD	44761618	sysop			360
2018/12/17	10:59:52.71	1.24	1.37	46.8750	17.1629	6.2	4.2	150	0.0f		9	5	148	0.39	2.13	kx	ILOC	23	ILOC			260

(#PRIME)
 (quarry blast, Varvolgy, Hungary)

Magnitude	Err	Nsta	Author	OrigID
ML	1.9	0.1	4 ILOC	23

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
MPLH	0.39	41.0	Pg	11:00:01.615	0.5					T__		37.1		___	ML	2.0	44761619	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
MPLH	0.39	41.0	Lg	11:00:08.027	0.4					T__				___		44761620	FDSN	HU	--	MP	ISC	BHN	???	_	
(Reading ML: 2.0 magdef=1 (Station ML: 2.0 magdef=1																									
KOVH	1.02	140.2	Pn	11:00:13.625	0.1					T__		5.7		___	ML	1.8	44761622	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
KOVH	1.02	140.2	Lg	11:00:27.824	-1.2					T__				___		44761621	FDSN	HU	--	MP	ISC	BHN	???	_	
(Reading ML: 1.8 magdef=1 (Station ML: 1.8 magdef=1																									
ARSA	1.18	289.1	Pg	11:00:15.611	-0.1					T__		5.9		___	ML	1.9	44761623	FDSN	OE	--	MP	ISC	BHZ	BHZ	_
(Reading ML: 1.9 magdef=1 (Station ML: 1.9 magdef=1																									
MORH	1.22	122.3	Pg	11:00:18.155	1.2					T__		1.8		___	ML	1.4	44761624	FDSN	HU	--	MP	ISC	BHZ	BHZ	_
MORH	1.22	122.3	Sn	11:00:33.625	-0.9					T__				___		44761625	FDSN	HU	--	MP	ISC	BHN	???	_	
(Reading ML: 1.4 magdef=1 (Station ML: 1.4 magdef=1																									
PSZI	2.13	59.6	I	11:13:14.800	-2.7	238.6	-3.1			TA_				___		174	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018yqjh Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/12/17	11:43:41.00	1.92	0.08	46.1254	18.0152				0.0	0.0	4	0	331	0.15	0.52	kx	BUD_GT	44250371	sysop			360
(GT info : GT2 explosion) (locality : Bukkosd)																						
2018/12/17	11:43:41.00f		0.51	46.0092	18.0620	10.3	4.3	124	0.0f		6	3	315	0.08	2.28	kx	ILOC	24	ILOC			345

(#PRIME)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.08	18.4	Pg	11:43:43.847	0.5					T__		155.7		___	ML	1.7	44250372	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
KOVH	0.08	18.4	Lg	11:43:45.210	-0.1					T__				___		44250373	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=0)																									
MORH	0.45	62.8	Pg	11:43:51.188	0.6					T__		1.7		___	ML	0.8	44250374	FDSN	HU	--	BUD	iLoc	BHZ	BHZ	_
MORH	0.45	62.8	Lg	11:43:57.514	-0.4					T__				___		44250375	FDSN	HU	--	BUD	iLoc	BHN	???	_	
(Reading ML: 0.8 magdef=1 Station ML: 0.8 magdef=0)																									
PSZI	2.28	32.6	I	11:58:05.800	-0.5	212.5	-1.5			TA_				___		175	FDSN	HN	--	BUD	iLoc	BDF	???	_	

Event bud2018ysdz Slovakia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2018/12/18	11:19:08.97	0.60	0.67	48.6223	20.8424				0.5	3.6	7	0	138	0.27	0.95	kx	BUD	44269088	sysop			
2018/12/18	11:19:08.58	1.27	1.03	48.5515	20.8211	4.8	4.1	8	0.0f		9	5	124	0.23	0.91	kx	ILOC	25	ILOC			239

(#PRIME)

(quarry blast, Dvorniky-Vcelare, Slovakia)

Magnitude	Err	Nsta	Author	OrigID
ML	1.9	0.3	4 ILOC	25

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KECS	0.23	253.1	Pg	11:19:13.016	-0.4					T__		194.7		___	ML	2.2	44269089	FDSN	SK	--	BUD	iLoc	EHE	EHZ	_
KECS	0.23	253.1	Lg	11:19:17.619	0.4					T__				___		44269090	FDSN	SK	--	BUD	iLoc	EHN	???	_	
(Reading ML: 2.2 magdef=1 Station ML: 2.2 magdef=1)																									
ABAH	0.38	132.4	Pg	11:19:16.623	0.2					T__		9.5		___	ML	1.3	44269091	FDSN	HU	--	BUD	iLoc	HHZ	HHZ	_
ABAH	0.38	132.4	Lg	11:19:22.486	-0.5					T__				___		44269092	FDSN	HU	--	BUD	iLoc	HHE	???	_	
(Reading ML: 1.3 magdef=1 Station ML: 1.3 magdef=1)																									
PSZ	0.89	224.7	Pn	11:19:27.911	0.3					T__		8.3		___	ML	1.9	44269094	FDSN	GE	--	BUD	iLoc	BHZ	BHZ	_
PSZ	0.89	224.7	Lg	11:19:40.100	-0.9					T__				___		44269095	FDSN	GE	--	BUD	iLoc	BHN	???	_	
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																									
PSZI	0.89	224.7	I	11:24:10.200	2.2	46.8	2.8			TA_				___		176	FDSN	HN	--	BUD	iLoc	BDF	???	_	
STHS	0.91	17.7	Pg	11:19:25.462	0.1					T__		6.3		___	ML	1.8	44269093	FDSN	SK	--	BUD	iLoc	EHZ	EHZ	_
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									

