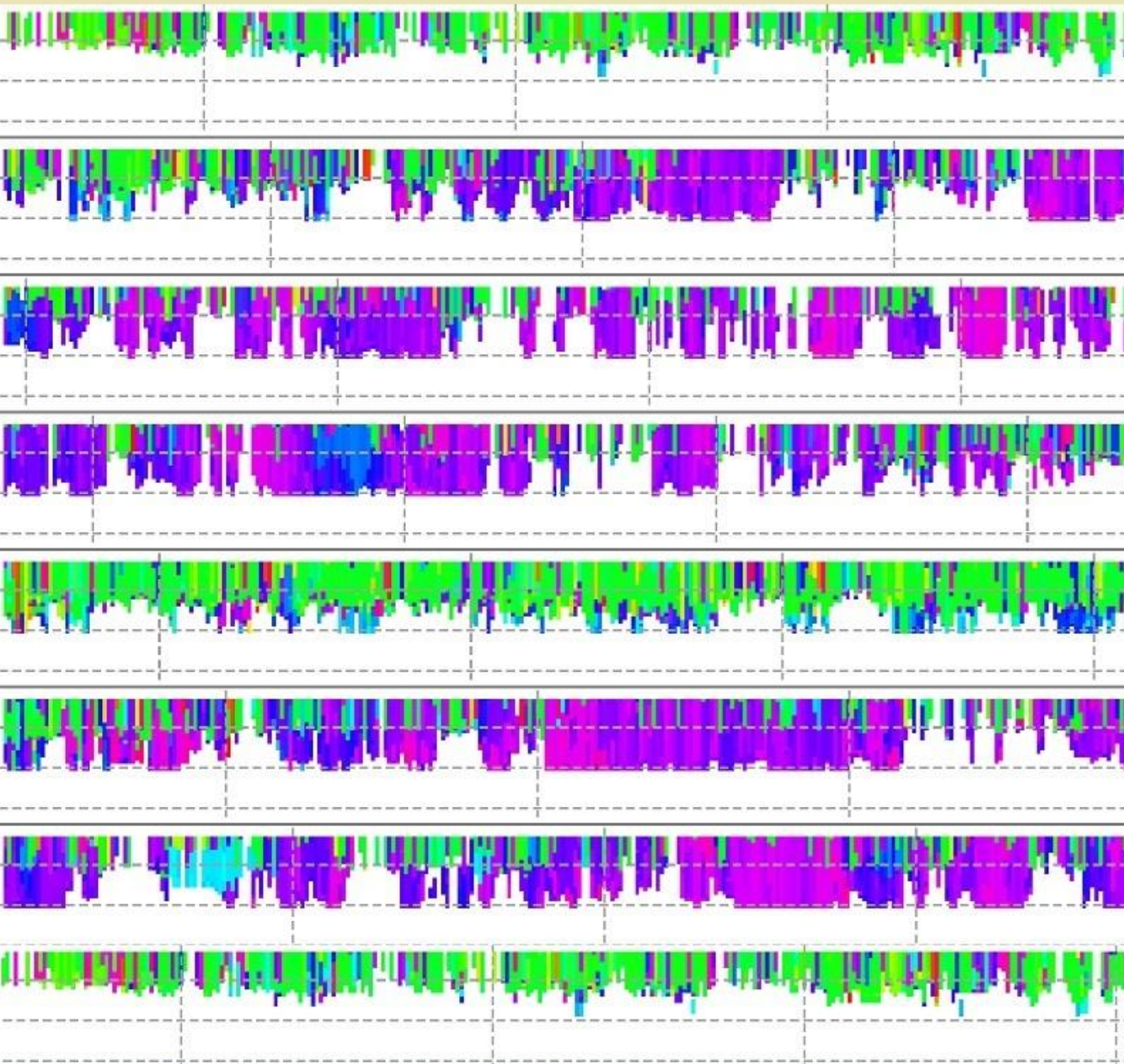


**Hungarian
Seismo-Acoustic
Bulletin**

2019



Hungarian Seismo-Acoustic Bulletin

2019

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The Hungarian National Infrasonic Network

The Piskés-tető infrasonic array (PSZI)

The Hungarian National Infrasonic 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 (CSFK), Budapest, Hungary with the deployment of the Piskés-tető (PSZI) infrasonic array in 2017 (Czanik and Bondár, 2017). The PSZI infrasonic 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 infrasonic 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 infrasonic array (PSZI1) is co-located with a permanent broadband seismological station, PSZ, jointly managed by the 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 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.

Due to technical problems the array element PSZI3 is out of order since December 2019. The instrument is being repaired.

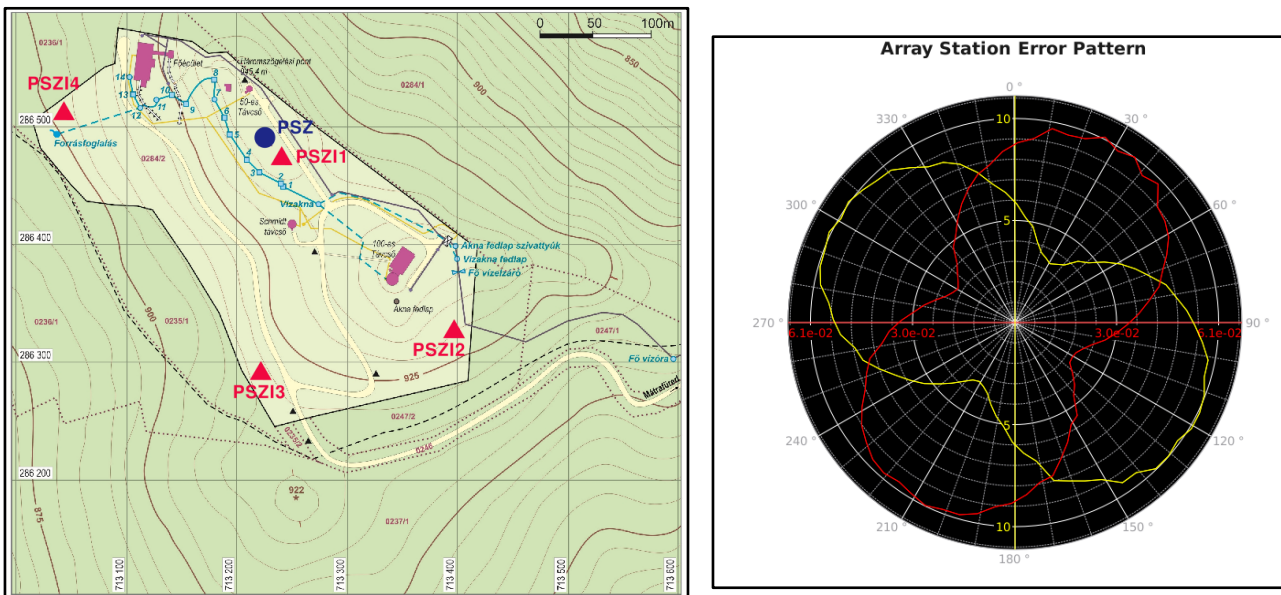


Figure 1. Left: red triangles mark the elements of the PSZI array. The PSZ broadband seismological station is marked with a blue circle. Right: error distribution of the azimuth and velocity estimations.

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.

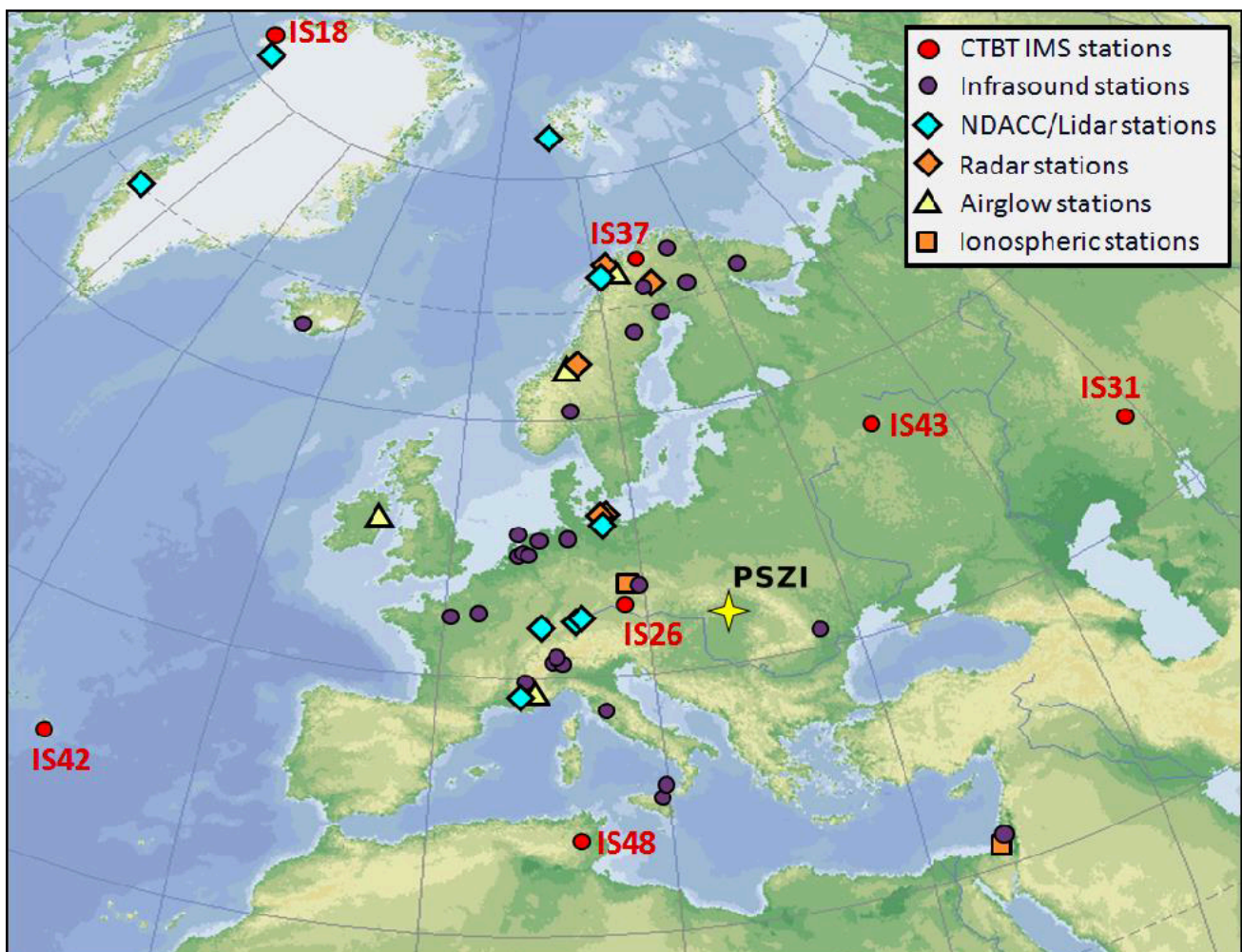


Figure 2. ARISE network (modified after <http://arise-project.eu>). The yellow star shows the location of PSZI array, red and indigo circles represent the IMS and European infrasound stations, respectively. PSZI closes a large gap in infrasound station coverage.

To demonstrate the value added by the PSZI array to the European infrasound network we applied the method developed by Le Pichon et al. (2012) to model the detection capability of the network. The method relies on a frequency dependent attenuation model to predict the smallest detectable amplitude, and using realistic atmospheric data based on ECMWF atmospheric models. For the simulation we used the average noise level measured at all the IMS stations. The simulation included all the relevant IMS infrasound stations and other national infrasound stations that are members of the ARISE project.

Figure 3 shows the difference of minimum detectable amplitudes by the European infrasound network without PSZI and with PSZI, i.e. the improvement of detection capability owing to the PSZI array in in each season. The improvement is significant in the Central European region, particularly in the spring and winter periods.

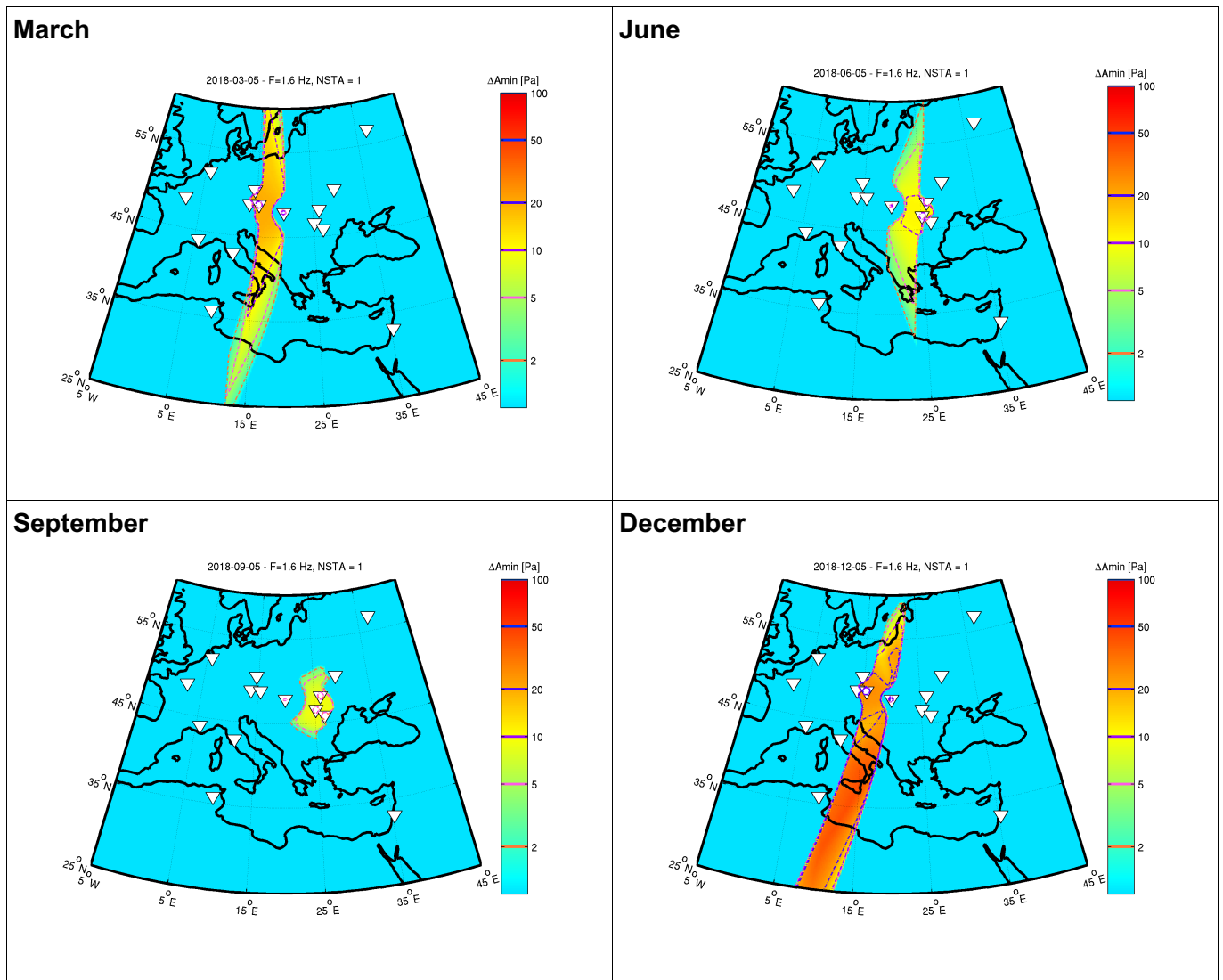


Figure 3. The improvement of detection capability of the European infrasound network in different seasons. The color scale shows the difference of the minimum detectable amplitudes of a signal by the network without PSZI and including PSZI.

CEEIN

The 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	45.85	26.65	2.4	6	2009-2012	co-located with seismic array
Romania	R1	BURARI	47.62	25.22	1.2	4	2016.07.27.	co-located with seismic array
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		Ionospheric Doppler Sounder	50.03	14.46		5	2012.01	Complementary measurements to WBCI.
Austria		ZAMG	47.92	16.29	0.7	4	2019.04.26	mobile array

Data and Resources

The Hungarian Seismo-Acoustic Bulletin was compiled by the 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.

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, CSFK Kövesligethy Radó Seismological Observatory, [doi:10.14470/UA114590](https://doi.org/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.

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 CSFK, [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)),

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. Note that since December 2019 PSZI3 instrument has been out of order, and PMCC detections are made based on only 3 elements. **Figure 5** shows the azimuthal distribution of the detections in **Figure 4**.

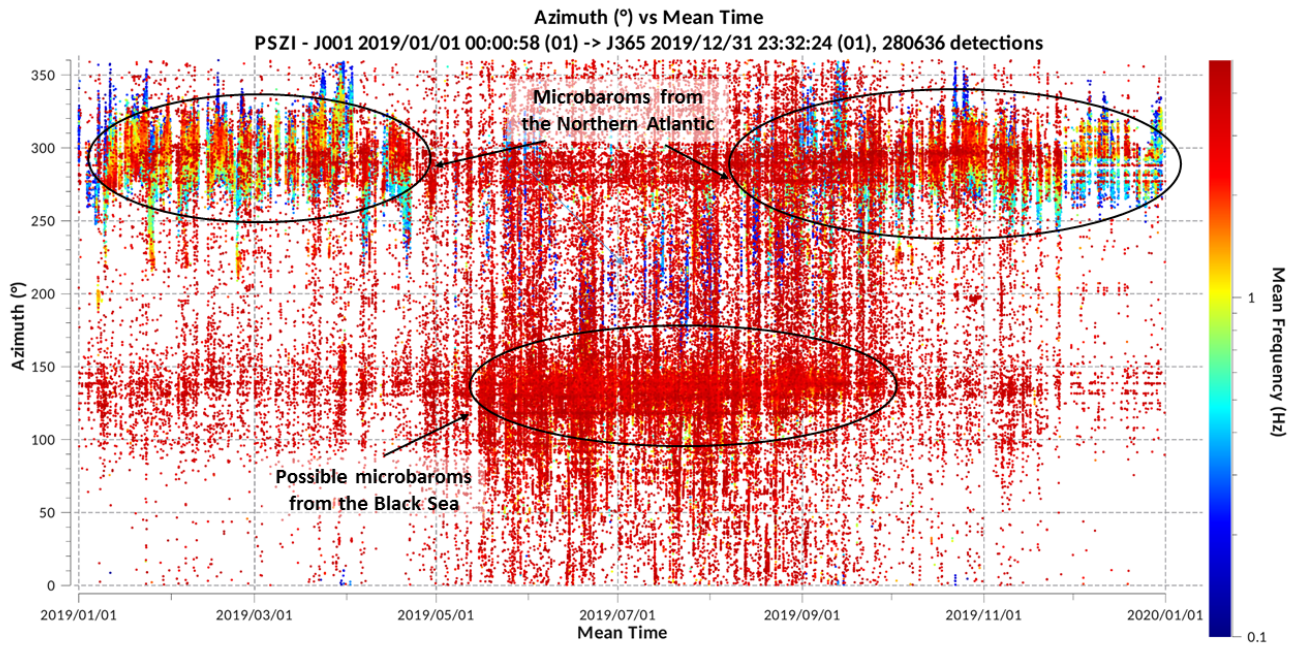


Figure 4. Infrasound detections of PSZI between 2019/01/01 and 2019/12/31. The detections were made by the PMCC method and are shown as a function of time and back-azimuth, color-coded by frequency. The figure was made by DTK-DIVA, part of the NDC-in-a-box software package.

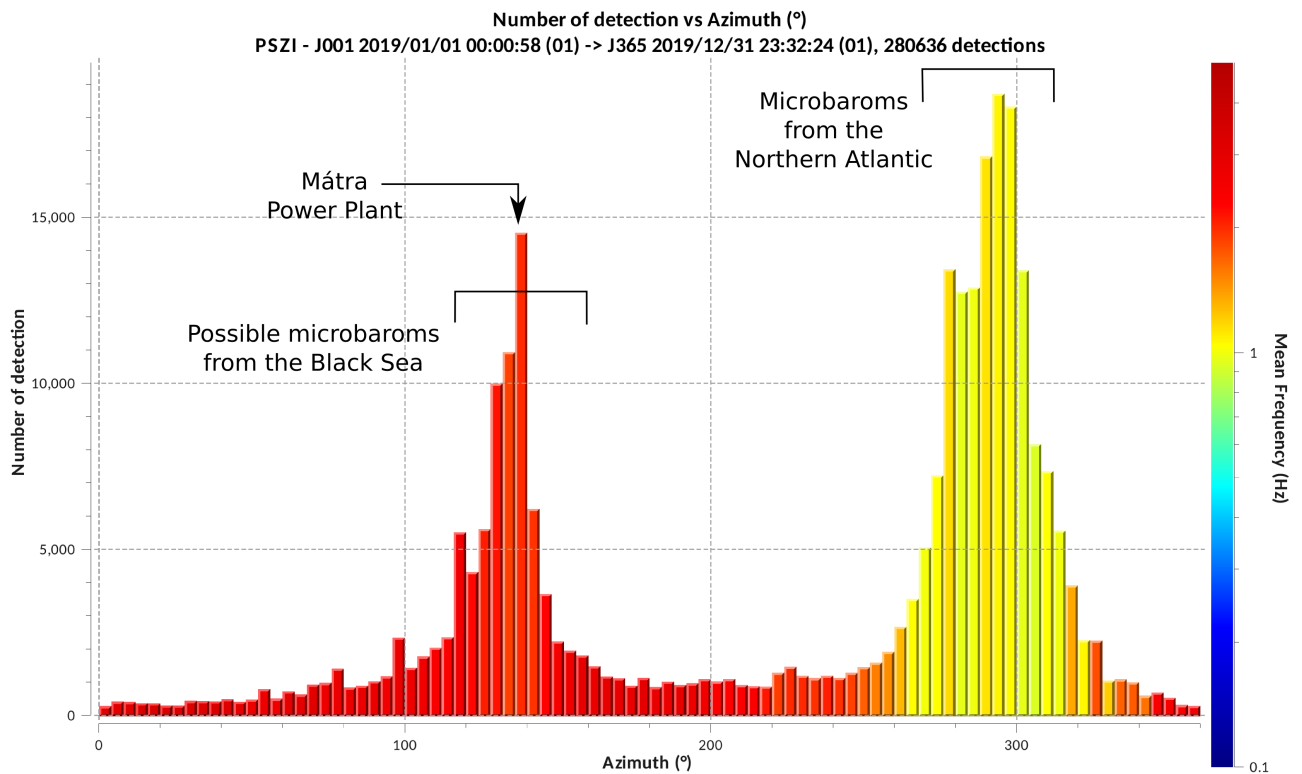


Figure 5. Distribution of PMCC detections as a function of source azimuth at PSZI between 2019/01/01 and 2019/12/31. The figure was made by DTK-DIVA, part of the NDC-in-a-box software package.

Seismo-Acoustic Events

Quarry Blasts and Explosions in Hungary

Anthropogenic events constitute some 80% 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. **Figure 6** shows the annual number and relative percentages of earthquakes and explosions in the Hungarian earthquake catalogue between 1996 and 2018. Ever increasing number of events are identified as anthropogenic origin since the deployment of the PSZI array in 2017-06-01.

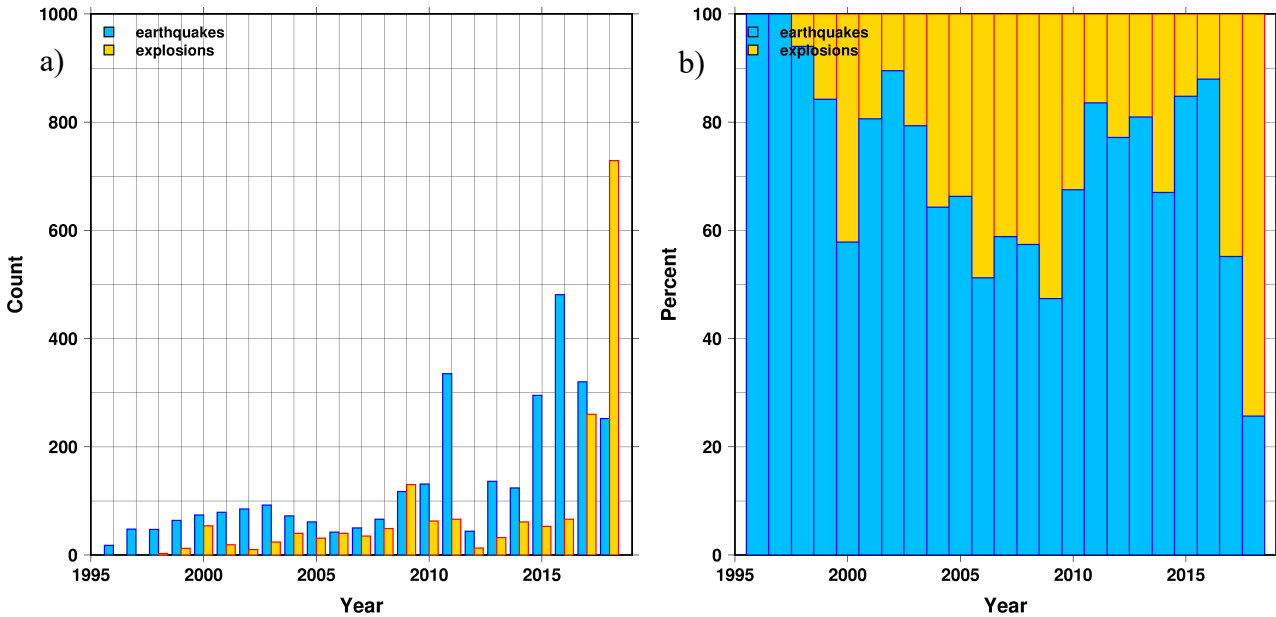


Figure 6. a) Number of earthquakes (blue) and quarry blasts (yellow) and b) relative percentage of earthquakes and quarry blasts in the Hungarian earthquake catalogue between 1996 and 2018.

PSZI recorded 141 quarry blasts from 55 quarries in Hungary, Austria, Croatia, Slovakia and Romania in 2019. The magnitude range of the explosions is between ML 0.5-3.4. Many, but not all, quarries in Hungary regularly send confirmation of their explosions to the 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.

Figure 7 shows the hour-of-day distribution of the quarry blasts. **Figure 8** shows the infrasound and seismic stations contributing to the Hungarian Seismo-Acoustic Bulletin in 2019 together with the quarries and the seismo-acoustic locations obtained with *iLoc*. Note that most seismo-acoustic locations are all within 5 km of the ground truth locations.

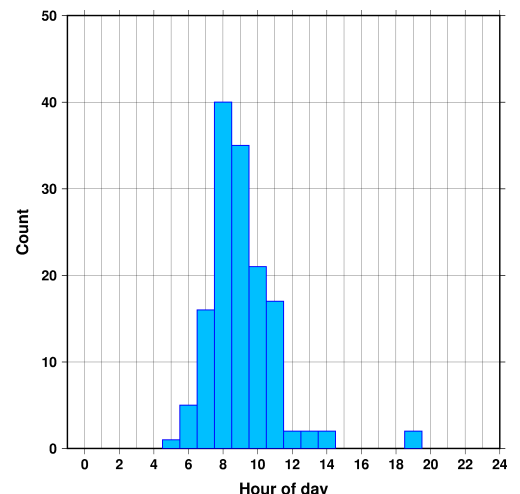


Figure 7. Hour of day of the seismo-acoustic event locations

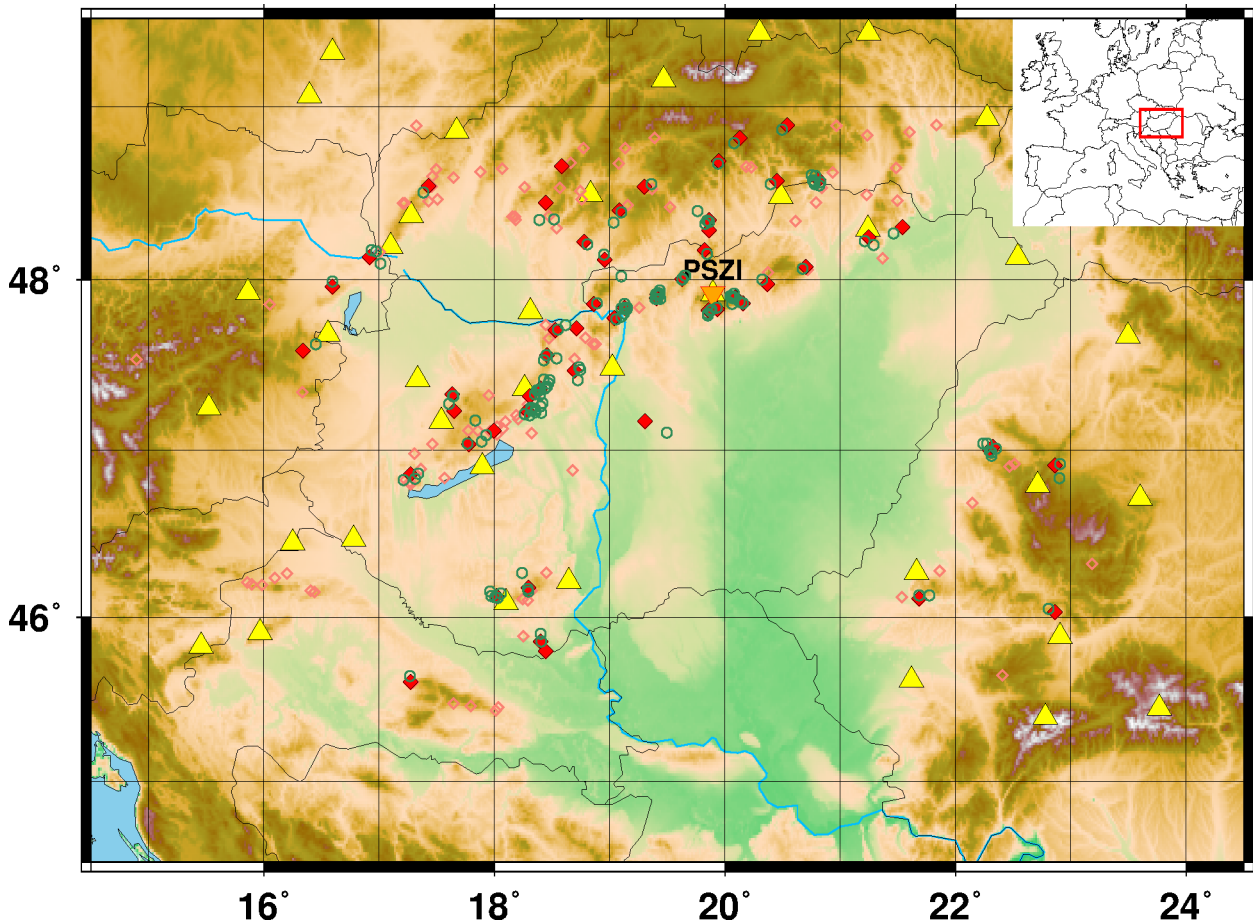


Figure 8. Infrasound (inverted orange triangles) and seismic stations (yellow triangles) contributing to the Hungarian Seismo-Acoustic Bulletin in 2019. Known quarry and mine locations are shown as red diamonds, and the solid red diamonds indicate the quarries producing infrasound signals. Green circles denote the seismo-acoustic locations of quarry blasts.

Infrasound-only Events

Aegean Sea signals

Several signals were recorded by all the CEEIN stations from the Aegean Sea region. They presumably originate from sonic booms of supersonic aircrafts. **Figure 9** shows the two events that we were able to locate with *iLoc*.

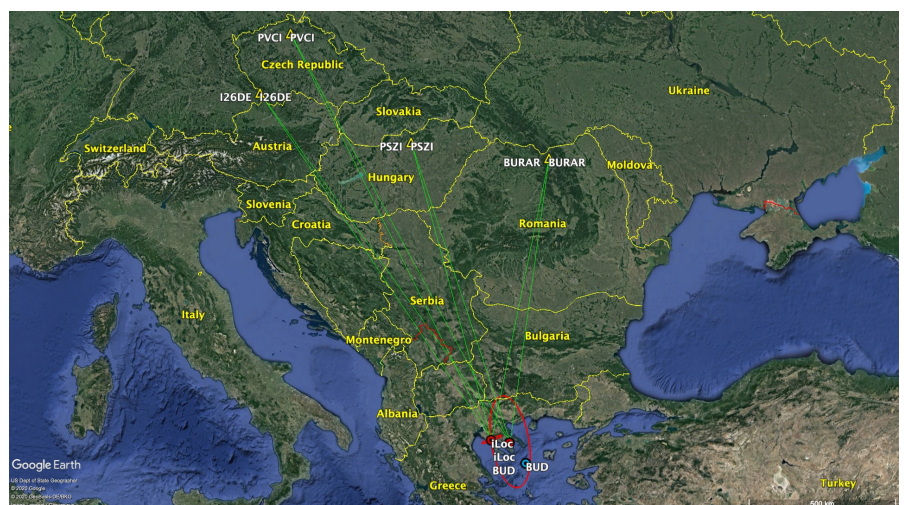


Figure 9. Sonic booms over the Aegean Sea recorded by CEEIN stations.

Bolides

In 2019 two signals were identified as bolides, both of them seen by eye-witnesses. **Figure 10** shows the waveforms and PMCC detections as well as photographs of the bolides made by the Konkoly Meteor Observing Network of the Research Center for Astronomy and Earth Sciences, Konkoly Observatory. The Konkoly Meteor Observing Network is supported by the GINOP-2.3.2-15-2016-00003 grant of the Hungarian National Research, Development and Innovation Office (NKFIH).

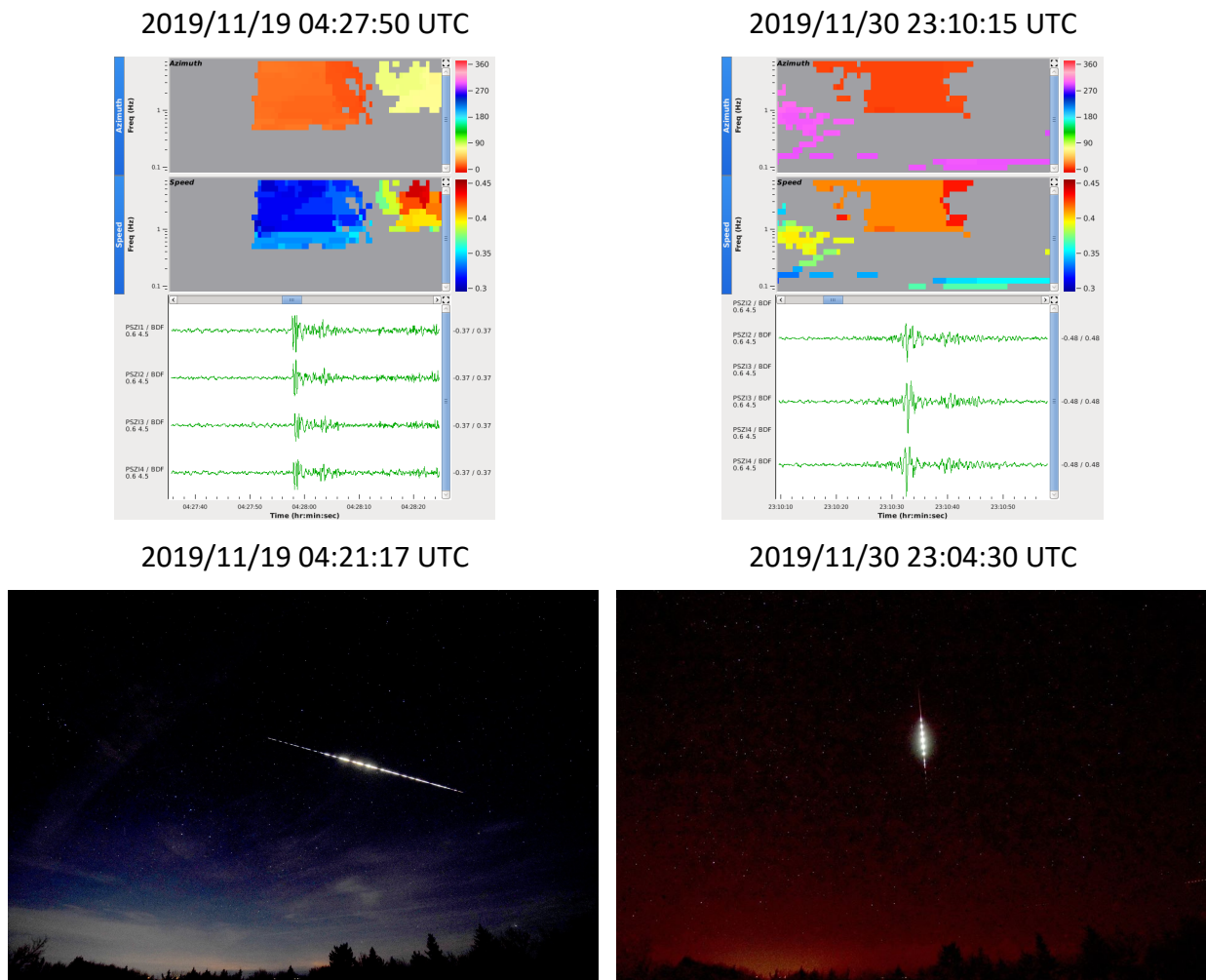


Figure 10. PMCC detections of bolides at PSZI and photographs taken by the Konkoly Meteor Observing Network cameras. The PMCC detection times and the time the photos were take are also shown above the panels.

Thunderstorms and lightning

Lightnings are also sources of infrasound signals that allows to track storm via infrasound detections. PSZI regularly records signals from such events. **Figure 11** shows an example for the correlation between lightning data from the Blitzortung (www.blitzortung.org) database and the azimuth of the infrasound detections at PSZI on June 08, 2019.

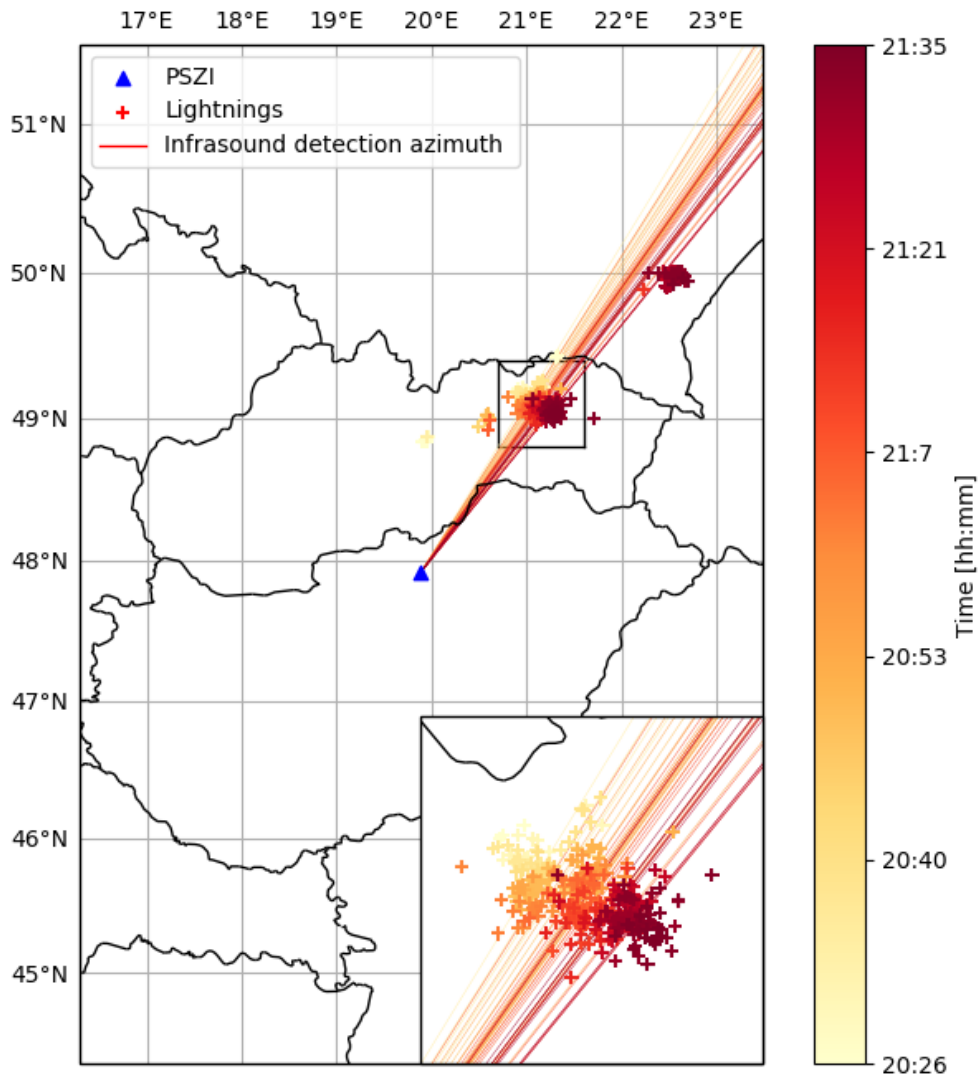


Figure 11. The lightnings are represented by crosses and the azimuth of infrasound detections are shown by lines drawn from PSZI (blue triangle). Both the lightnings locations and the azimuths are color-coded by time.

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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 bud2019bneq 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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2019/01/22	10:38:39.55			47.2302	18.2835				0.0	0.0		0				kx	BUD_GT	45713193	BUD			360
(GT info : GT2 explosion)																						
(locality : Iszkaszentgyörgy Hungary)																						
2019/01/22	10:38:37.89	1.24	1.58	47.2255	18.3568	6.3	4.5	128	0.0f		8	5	113	0.15	1.31	kx	ILOC	1	ILOC			208
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
MLv	1.7	0.4	4 BUD	45713193
M	1.7		4 BUD	45713193
ML	1.8	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
CSKK	0.15	334.6	Pg	10:38:41.544	-0.0					T__		248.3		___ ML	2.1	45713194	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.15	334.6	Lg	10:38:43.987	-0.6					T__				___		45713195	FDSN	HU	--	BUD	BUD	HHE	???	_
(Reading ML: 2.1 magdef=1)																								
(Station ML: 2.1 magdef=1)																								
MPLH	0.56	264.6	Pg	10:38:49.177	-0.4					T__		20.1		___ ML	2.1	45713196	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 2.1 magdef=1)																								
(Station ML: 2.1 magdef=1)																								
MORH	1.03	168.9	Pn	10:38:58.948	0.5					T__		2.1		___ ML	1.4	45713197	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MORH	1.03	168.9	Lg	10:39:13.300	-0.7					T__				___		45713198	FDSN	HU	--	BUD	BUD	BHN	???	_
(Reading ML: 1.4 magdef=1)																								
(Station ML: 1.4 magdef=1)																								
PSZI	1.25	55.8	I	10:45:56.245	-3.3	237.7	0.8			TA_				___		2	FDSN	HN	--	BUD	BUD	BDF	???	_
VYHS	1.31	14.1	Pg	10:39:04.801	0.6					T__		1.2		___ ML	1.3	45713199	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
(Reading ML: 1.3 magdef=1)																								
(Station ML: 1.3 magdef=1)																								

Event bud2019bybt Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/01/28	09:40:38.11	0.37	0.86	47.1101	17.9916				0.0	0.0	8	0	117	0.22	1.00	kx	BUD	45419653	sysop				
2019/01/28	09:40:36.69	1.20	5.04	47.0880	17.9271	5.1	3.8	136	0.0f		10	5	112	0.19	1.57	kx	ILOC	3	ILOC				212
(#PRIME)																							
(locality : Királyszentistván Hungary)																							

Magnitude	Err	Nsta	Author	OrigID
MLv	1.6	0.5	4 BUD	45419653
M	1.6		4 BUD	45419653

ML 1.5 0.4 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	
TIH	0.19	187.1	Pg	09:40:41.538	0.5					T__		52.9		___	ML	1.6	45419654	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
TIH	0.19	187.1	Lg	09:40:45.571	1.1					T__				___		45419655	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
MPLH	0.28	287.4	Pg	09:40:43.509	0.6					T__		7.9		___	ML	1.0	45419658	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MPLH	0.28	287.4	Lg	09:40:48.552	0.9					T__				___		45419659	FDSN	HU	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=1)																									
CSKK	0.36	39.4	Pg	09:40:43.106	-1.2					T__		129.7		___	ML	2.4	45419656	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.36	39.4	Lg	09:40:48.894	-1.3					T__				___		45419657	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.4 magdef=1)																									
(Station ML: 2.4 magdef=1)																									
MORH	1.00	150.3	Pn	09:40:56.758	-0.2					T__		2.0		___	ML	1.4	45419660	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MORH	1.00	150.3	Lg	09:41:11.062	-0.8					T__				___		45419661	FDSN	HU	--	BUD	BUD	BHN	???	_	
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PSZI	1.57	57.4	I	09:50:25.197	13.1	235.6	-3.2			TA_				___		3	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019bycj Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/01/28	09:59:20.81	0.37	1.13	47.3567	18.3898				0.0	0.0	8	0	110	0.09	1.18		kx BUD	45713902	sysop			
2019/01/28	09:59:20.99	0.41	1.24	47.3529	18.3624				4.2	2.9	11	0	154	0.07	1.58		kx BUD	45419809	sysop			
2019/01/28	09:59:18.63	1.27	0.79	47.3561	18.4023	7.0	5.0	72	0.0f		9	6	111	0.10	1.18		kx ILOC	4	ILOC			192

(#PRIME)

(locality : Gánt Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.9	4	BUD	45419809
MLv	1.9	0.7	4 BUD	45419809
M	2.0	3	BUD	45713902
MLv	2.0	1.0	3 BUD	45713902
ML	1.6	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	
CSKK	0.10	274.2	Pg	09:59:21.068	-0.1					T__		4772.2		___	ML	3.2	45713903	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.10	274.2	Lg	09:59:22.468	-0.9					T__				___		45713904	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 3.2 magdef=1)																									
(Station ML: 3.2 magdef=1)																									
MPLH	0.62	252.7	Lg	09:59:42.493	1.6					T__				___		45713905	FDSN	HU	--	BUD	BUD	BHE	???	_	
MORH	1.15	171.7	Pg	09:59:41.577	-0.0					T__		2.8		___	ML	1.6	45713910	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MORH	1.15	171.7	Sn	09:59:57.964	-0.6					T__				___		45713909	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
PSZI	1.15	60.3	I	10:07:22.867	81.3	241.4	-0.0			_A_				___		4	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	1.16	60.3	Sn	09:59:59.134	0.1					T__				___		45713906	FDSN	GE	--	BUD	BUD	BHE	???	_	
VYHS	1.18	14.2	Pg	09:59:42.341	0.1					T__		1.5		___	ML	1.3	45713908	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	1.18	14.2	Sn	09:59:58.778	-0.3					T__				___		45713907	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=1)																									

Event bud2019cdmg Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/01/31	08:39:54.34	0.49	0.64	47.3468	18.3522				0.0	0.0	5	0	154	0.06	1.19	kx	BUD	45714235	sysop			
2019/01/31	08:39:52.58	1.48	0.52	47.3542	18.3685	12.8	5.8	60	0.0f		6	4	109	0.07	1.18	kx	ILOC	5	ILOC			216

(#PRIME)
(locality : Gánt Hungary)

Magnitude	Err	Nsta	Author	OrigID
MLv	2.0	0.9	2 BUD	45714235
M	2.0		2 BUD	45714235

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	0.07	276.9	Pg	08:39:54.814	0.1					T__		1525.8		___	ML	2.7	45714236	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.07	276.9	Lg	08:39:56.391	-0.2					T__				___		45714237	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.7 magdef=1 Station ML: 2.7 magdef=0)																									
MORH	1.16	170.5	Pn	08:40:15.373	0.4					T__		1.7		___	ML	1.4	45714239	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MORH	1.16	170.5	Sn	08:40:31.862	-0.7					T__				___		45714238	FDSN	HU	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.4 magdef=1 Station ML: 1.4 magdef=0)																									
PSZI	1.18	60.8	I	08:47:45.715	61.8	240.4	-1.5			_A_				___		5	FDSN	HN	--	BUD	BUD	BDF	???	_	
VYHS	1.18	15.2	Sn	08:40:32.829	-0.4					T__				___		45714240	FDSN	SK	--	BUD	BUD	HHN	???	_	

Event bud2019cdpv Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/01/31	10:28:21.27	0.58	0.63	47.2230	18.3090				0.0	0.0	5	0	180	0.14	1.03	ke	BUD	45714316	sysop			
2019/01/31	10:28:21.27			47.2302	18.2835				0.0	0.0			0			kx	BUD_GT	45714316	BUD			360

(GT info : GT2 explosion)
(locality : Iszkaszentgyörgy Hungary)

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/01/31	10:28:19.48	1.61	0.31	47.2063	18.3044	9.2	5.4	72	0.0f		6	4	110	0.16	1.29	kx	ILOC	6		ILOC		210

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.8	0.3	2 BUD	45714316
M	1.8		2 BUD	45714316

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	0.16	349.2	Pg	10:28:23.544	0.2					T__		184.0		___	ML	2.0	45714317	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.16	349.2	Lg	10:28:25.987	-0.4					T__				___		45714318	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.0 magdef=1 Station ML: 2.0 magdef=0)																									
MPLH	0.52	266.3	Pg	10:28:30.567	0.1					T__		6.4		___	ML	1.6	45714320	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MPLH	0.52	266.3	Lg	10:28:38.506	-0.2					T__				___		45714319	FDSN	HU	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=0)																									
MORH	1.02	166.6	Lg	10:28:54.994	-0.2					T__				___		45714321	FDSN	HU	--	BUD	BUD	BHN	???	_	
PSZI	1.29	55.9	I	10:36:52.147	54.4	235.2	-1.9			_A_				___		6	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019ckty Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/02/04	08:30:24.72	1.09	0.78	47.7585	19.7881				0.0	0.0	7	0	258	0.18	1.11	kx	BUD	45628704	sysop			
2019/02/04	08:30:23.29	2.82	1.47	47.7906	19.8499	18.7	1.2	12	0.0f		8	5	255	0.13	1.06	kx	ILOC	7	ILOC			311

(#PRIME)

(locality : Gyöngyöstarján Hungary)

Magnitude	Err	Nsta	Author	OrigID	
M	1.8	3	BUD	45628704	
MLv	1.8	0.6	3	BUD	45628704
ML	2.0	0.1	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	0.13	13.0	I	08:30:57.204	-8.1	194.7	1.7			_A_				---	7	FDSN	HN	--	BUD	BUD	BDF	???	_		
PSZ	0.13	13.2	Pg	08:30:27.307	0.6					T_		277.1		---	ML	2.1	45628705	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.13	13.2	Lg	08:30:29.330	-0.2					T_				---		45628706	FDSN	GE	--	BUD	BUD	BHE	???	_	
(Reading ML: 2.1 magdef=1)																									
(Station ML: 2.1 magdef=1)																									
KECS	0.81	31.3	Lg	08:30:52.749	0.9					T_				---		45628709	FDSN	SK	--	BUD	BUD	EHN	???	_	
VYHS	0.98	316.4	Pg	08:30:44.186	1.2					T_		1.1		---	ML	1.1	45628707	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.98	316.4	Sn	08:30:56.230	-2.8					T_				---		45628708	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.1 magdef=1)																									
(Station ML: 1.1 magdef=1)																									
ABAH	1.06	61.0	Pg	08:30:44.789	0.6					T_		8.6		---	ML	2.0	45628710	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	1.06	61.0	Lg	08:31:01.799	0.2					T_				---		45628711	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.0 magdef=1)																									
(Station ML: 2.0 magdef=1)																									

Event bud2019cmui Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/02/05	10:58:51.84	0.38	0.70	47.3415	18.3335				0.0	0.0	8	0	108	0.05	1.20	kx	BUD	46409571	BUD				360
2019/02/05	10:58:50.01	1.16	0.51	47.3311	18.3519	7.1	5.8	74	0.0f		9	6	109	0.07	1.21	kx	ILOC	8	ILOC				194

(#PRIME)

(locality : Gánt Hungary)

Magnitude	Err	Nsta	Author	OrigID	
M	1.8	4	BUD	46409571	
MLv	1.8	0.6	4	BUD	46409571
ML	1.7	0.5	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	
CSKK	0.07	297.2	Pg	10:58:52.085	0.0					T_		1929.8		_c_	ML	2.8	46409573	FDSN	HU	--	BUD	BUD	HH	HHZ	_
CSKK	0.07	297.2	Lg	10:58:53.975	0.1					T_				---		46409572	FDSN	HU	--	BUD	BUD	HHE	???	_	
(Reading ML: 2.8 magdef=1)																									
(Station ML: 2.8 magdef=1)																									
MPLH	0.58	254.1	Pg	10:59:01.931	-0.0					T_		5.6		---	ML	1.6	46409574	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
MORH	1.13	169.7	Sn	10:59:29.385	-0.1					T_				---		46409575	FDSN	HU	--	BUD	BUD	BHE	???	_	
PSZI	1.20	60.1	I	11:06:40.581	50.7	237.8	-3.4			_A_				---		8	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	1.20	60.0	Pn	10:59:13.634	0.3					T_		4.4		---	ML	1.8	46409577	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	1.20	60.0	Sn	10:59:30.467	-1.0					T_				---		46409576	FDSN	GE	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.8 magdef=1)																									

(Station ML: 1.8 magdef=1

VYHS	1.21	15.5	Pg	10:59:14.593	0.3	T__				0.9	___	ML	1.1	46409579	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	1.21	15.5	Sn	10:59:30.676	-0.6	T__					---			46409578	FDSN	SK	--	BUD	BUD	HHN	???	_

(Reading ML: 1.1 magdef=1

(Station ML: 1.1 magdef=1

Event bud2019cmuv Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/02/05	11:12:58.77	0.43	0.59	47.3496	18.3607				0.0	0.0	6	0	111	0.07	1.19	kx	BUD	46409776	BUD			360
2019/02/05	11:12:56.26	1.33	2.34	47.3697	18.4424	6.0	3.9	155	0.0f		8	5	112	0.12	1.16	kx	ILOC	9	ILOC			206

(#PRIME)

(locality : Gánt Hungary)

Magnitude	Err	Nsta	Author	OrigID	
M	2.3	2	BUD	46409776	
MLv	2.3	0.6	2	BUD	46409776

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	0.12	267.0	Pg	11:12:59.575	0.2					T__		1543.8		___	ML	2.8	46409777	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.12	267.0	Lg	11:13:00.925	-1.0					T__				---		46409778	FDSN	HU	--	BUD	BUD	HHN	???	_	

(Reading ML: 2.8 magdef=1

(Station ML: 2.8 magdef=0

PSZI	1.12	60.3	I	11:19:21.989	-5.0	243.6	2.3			TA_				---		9	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	1.12	60.3	Pg	11:13:20.054	0.1					T__		5.1		___	ML	1.8	46409779	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	1.12	60.3	Lg	11:13:37.330	0.8					T__				---		46409780	FDSN	GE	--	BUD	BUD	BHN	???	_	

(Reading ML: 1.8 magdef=1

(Station ML: 1.8 magdef=0

VYHS	1.16	13.1	Lg	11:13:37.019	0.6					T__				---		46409782	FDSN	SK	--	BUD	BUD	HHN	???	_
MORH	1.16	173.1	Sn	11:13:35.980	-0.4					T__				---		46409781	FDSN	HU	--	BUD	BUD	BHN	???	_

Event bud2019conq Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/02/06	09:51:20.60	1.38	0.29	47.7510	18.7643				0.0	0.0	8	0	279	0.31	1.18	kx	BUD	46410074	BUD			360
2019/02/06	09:51:21.18	3.99	0.69	47.7375	18.6167	25.2	4.3	77	0.0f		9	6	135	0.22	1.10	kx	ILOC	10	ILOC			267

(#PRIME)

(locality : Dorog Hungary)

Magnitude	Err	Nsta	Author	OrigID	
MLv	2.5	0.5	3	BUD	46410074
M	2.5		3	BUD	46410074
ML	2.4	0.3	3	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	
SRO	0.22	290.5	Pg	09:51:26.054	0.1					T__		339.6		___	ML	2.4	46410075	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
SRO	0.22	290.5	Lg	09:51:30.486	0.8					T__				---		46410076	FDSN	SK	--	BUD	BUD	EHN	???	_	

(Reading ML: 2.4 magdef=1

(Station ML: 2.4 magdef=1

CSKK	0.45	212.9	Pg	09:51:30.849	0.4					T__		133.3		___	ML	2.7	46410078	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.45	212.9	Lg	09:51:36.856	-0.6					T__				---		46410077	FDSN	HU	--	BUD	BUD	HHN	???	_	

(Reading ML: 2.7 magdef=1

(Station ML: 2.7 magdef=1

PSZI	0.54	100.7	I	09:58:43.970	-1.7	264.0	-17.3	T__							15	FDSN	HN	--	BUD	BUD	BDF	???	_			
PSZ	0.54	100.6	Pg	09:55:59.863	-0.0			T__	6.4						---	ML	1.6	46410753	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.54	100.6	Lg	09:56:08.233	-0.5			T__							---		46410754	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.6 magdef=1)																										
(Station ML: 1.6 magdef=0)																										
CSKK	0.87	221.1	Lg	09:56:18.143	-0.4			T__								46410755	FDSN	HU	--	BUD	BUD	HHE	???	_		
ABAH	1.46	78.3	Sn	09:56:37.488	1.1			T__								46410756	FDSN	HU	--	BUD	BUD	HHE	???	_		

Event bud2019cqmt Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2019/02/07	11:41:34.79	1.87	0.14	46.0359	17.9737				0.0	0.0	5	0	276	0.10	1.17	kx	BUD	46410864	BUD			360		
2019/02/07	11:41:34.79			46.1254	18.0152				0.0	0.0						kx	BUD_GT	46410864	BUD			360		
(GT info : GT2 explosion)																								
(locality : Bükkösd-II Hungary)																								
2019/02/07	11:41:34.27	2.64	0.84	46.1193	18.0028	20.5	7.5	46	0.0f		6	4	228	0.07	2.22	kx	ILOC	13	ILOC			280		
(#PRIME)																								

Magnitude	Err	Nsta	Author	OrigID
MLv	1.2	0.4	2 BUD	46410864
M	1.2		2 BUD	46410864

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	114.2	Pg	11:41:36.731	0.3					T__		82.6			---	ML	1.4	46410866	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
KOVH	0.07	114.2	Lg	11:41:37.596	-0.7					T__						---	46410865	FDSN	HU	--	BUD	BUD	BHZ	???	_	
(Reading ML: 1.4 magdef=1)																										
(Station ML: 1.4 magdef=0)																										
MORH	0.46	77.6	Pg	11:41:44.624	0.8					T__		1.8			---	ML	0.8	46410867	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MORH	0.46	77.6	Lg	11:41:50.476	-0.7					T__						---	46410868	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 0.8 magdef=1)																										
(Station ML: 0.8 magdef=0)																										
MPLH	1.10	343.3	Lg	11:42:12.426	-0.6					T__						---	46410869	FDSN	HU	--	BUD	BUD	BHE	???	_	
PSZI	2.22	35.0	I	11:53:52.483	-999	219.6	3.2			_A_						---	16	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019cscz Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2019/02/08	09:01:15.30	0.81	0.82	48.5954	20.7681				0.0	0.0	8	0	227	0.22	1.29	kx	BUD	45740409	sysop					
2019/02/08	09:01:13.39	1.37	1.57	48.6075	20.7480	5.6	4.0	15	0.0f		10	5	227	0.21	1.28	kx	ILOC	14	ILOC			314		
(#PRIME)																								
(locality : Dvorniky-Vcelare Slovakia)																								

Magnitude	Err	Nsta	Author	OrigID
MLv	1.4	0.2	4 BUD	45740409
M	1.4		4 BUD	45740409
ML	1.4	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		
KECS	0.21	234.6	Pg	09:01:17.659	-0.2					T__		37.2			---	ML	1.5	45740410	FDSN	SK	--	BUD	BUD	EHE	EHZ	_
KECS	0.21	234.6	Lg	09:01:21.747	0.4					T__						---	45740411	FDSN	SK	--	BUD	BUD	EHE	???	_	
(Reading ML: 1.5 magdef=1)																										
(Station ML: 1.5 magdef=1)																										
ABAH	0.45	133.4	Pg	09:01:24.004	1.4					T__		6.6			---	ML	1.4	45740412	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/02/13	08:04:15.15	0.36	1.27	48.0032	16.5588				0.0	0.0	8	0	93	0.47	1.13	kx	BUD	45909388	sysop			
2019/02/13	08:04:13.41	1.40	1.16	47.9916	16.5972	7.1	4.7	139	0.0f		9	7	89	0.50	2.22	kx	ILOC	16	ILOC			136

(#PRIME)
(locality : Steinbruch Austria)

Magnitude	Err	Nsta	Author	OrigID
M	1.7	1	BUD	45909388
MLv	1.7 0.0	1	BUD	45909388

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	
CONA	0.50	263.0	Pg	08:04:23.459	0.0					T__		10.9		___	ML	1.7	45909389	FDSN	OE	--	BUD	BUD	BHZ	BHZ	_
CONA	0.50	263.0	Lg	08:04:30.325	-0.7					T__				___		45909390	FDSN	OE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=0)																									
MODS	0.59	49.7	Pg	08:04:25.594	-0.1					T__				___		45909391	FDSN	SK	--	BUD	BUD	HHZ	???	_	
MODS	0.59	49.7	Lg	08:04:33.411	-1.4					T__				___		45909392	FDSN	SK	--	BUD	BUD	HHN	???	_	
ARSA	1.04	224.8	Lg	08:04:49.225	0.9					T__				___		45909393	FDSN	OE	--	BUD	BUD	BHE	???	_	
MPLH	1.04	141.8	Lg	08:04:49.333	-0.4					T__				___		45909394	FDSN	HU	--	BUD	BUD	BHE	???	_	
KRUC	1.08	352.9	Lg	08:04:48.930	-0.4					T__				___		45909395	FDSN	CZ	--	BUD	BUD	BHE	???	_	
JAVC	1.12	39.1	Lg	08:04:54.421	2.2					T__				___		45909396	FDSN	CZ	--	BUD	BUD	BHE	???	_	
PSZI	2.22	90.7	I	08:19:17.629	65.0	275.5	2.4			_A_				___		20	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019ddhq Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/02/14	11:52:41.88	0.44	0.75	48.3787	18.5194				0.0	0.0	7	0	154	0.24	1.03	kx	BUD	47291832	sysop			
2019/02/14	11:52:40.05	1.45	0.71	48.3506	18.5150	6.7	4.7	150	0.0f		8	5	157	0.26	1.02	kx	ILOC	17	ILOC			197

(#PRIME)
(locality : Hostie Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	0.5	1	BUD	47291832
MLv	0.5 0.0	1	BUD	47291832

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	0.26	56.0	Pg	11:52:45.969	0.6					T__		3.1		___	ML	0.5	47291833	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.26	56.0	Lg	11:52:49.735	0.3					T__				___		47291834	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 0.5 magdef=1 Station ML: 0.5 magdef=0)																									
JAVC	0.76	312.6	Pg	11:52:54.824	-0.5					T__				___		47291835	FDSN	CZ	--	BUD	BUD	BHZ	???	_	
JAVC	0.76	312.6	Lg	11:53:06.376	-0.2					T__				___		47291836	FDSN	CZ	--	BUD	BUD	BHN	???	_	
MODS	0.83	272.1	Pg	11:52:57.267	0.5					T__				___		47291837	FDSN	SK	--	BUD	BUD	HHZ	???	_	
MODS	0.83	272.1	Lg	11:53:09.328	0.3					T__				___		47291838	FDSN	SK	--	BUD	BUD	HHN	???	_	
PSZI	1.02	114.6	I	11:59:54.758	84.9	297.4	1.8			_A_				___		21	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	1.02	114.6	Lg	11:53:15.435	-1.2					T__				___		47291839	FDSN	GE	--	BUD	BUD	BHE	???	_	

Event bud2019dewi Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/02/15	08:25:37.09	0.48	0.85	47.0132	22.2305				0.0	0.0	13	0	130	0.40	2.12	kx	BUD	45927570	sysop			
2019/02/15	08:25:35.13	1.24	1.02	47.0365	22.2730	7.1	5.5	146	0.0f		14	9	133	0.39	2.08	kx	ILOC	18	ILOC			169

(#PRIME)
 (locality : Tetchea Romania)

Magnitude	Err	Nsta	Author	OrigID
MLv	2.2	0.3	7 BUD	45927570
M	2.2		7 BUD	45927570
ML	2.3	0.2	7 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
DRGR	0.39	129.0	Pg	08:25:43.513	0.3					T__		22.7		___ ML	1.7	45927571	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
DRGR	0.39	129.0	Lg	08:25:48.212	-1.6					T__				___		45927572	FDSN	RO	--	BUD	BUD	BHE	???	_
(Reading ML: 1.7 magdef=1)																								
(Station ML: 1.7 magdef=0)																								
SIRR	0.88	209.0	Pg	08:25:53.185	0.1					T__		6.8		___ ML	1.8	45927573	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
SIRR	0.88	209.0	Lg	08:26:04.442	-2.0					T__				___		45927574	FDSN	RO	--	BUD	BUD	BHE	???	_
(Reading ML: 1.8 magdef=1)																								
(Station ML: 1.8 magdef=1)																								
CJR	0.96	109.1	Pn	08:25:56.322	0.8					T__		24.5		___ ML	2.4	45927575	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 2.4 magdef=1)																								
(Station ML: 2.4 magdef=1)																								
BZS	1.49	198.0	Pn	08:26:02.777	0.5					T__		6.9		___ ML	2.2	45927576	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
BZS	1.49	198.0	Sn	08:26:22.808	-0.9					T__				___		45927577	FDSN	RO	--	BUD	BUD	BHE	???	_
(Reading ML: 2.2 magdef=1)																								
(Station ML: 2.2 magdef=1)																								
GZR	1.68	167.8	Pg	08:26:08.029	0.8					T__		7.0		___ ML	2.3	45927578	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
GZR	1.68	167.8	Sn	08:26:29.732	0.8					T__				___		45927579	FDSN	RO	--	BUD	BUD	BHZ	???	_
(Reading ML: 2.3 magdef=1)																								
(Station ML: 2.3 magdef=1)																								
PSZ	1.84	299.5	Pn	08:26:08.512	0.8					T__		9.9		___ ML	2.5	45927580	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 2.5 magdef=1)																								
(Station ML: 2.5 magdef=0)																								
PSZI	1.84	299.5	I	08:36:01.065	-62.1	122.4	4.6			_A_				___		22	FDSN	HN	--	BUD	BUD	BDF	???	_
LOT	1.90	146.3	Pg	08:26:11.584	0.2					T__		7.8		___ ML	2.4	45927581	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
LOT	1.90	146.3	Sn	08:26:35.485	0.8					T__				___		45927582	FDSN	RO	--	BUD	BUD	BHN	???	_
(Reading ML: 2.4 magdef=1)																								
(Station ML: 2.4 magdef=1)																								
BURAR	2.08	72.8	Pg	08:26:14.783	-0.7					T__				___		45927583	FDSN	RO	--	BUD	BUD	BHZ	???	_

Event bud2019dfcd Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/02/15	11:22:27.38	0.65	0.84	47.2334	18.3900				0.0	0.0	7	0	204	0.16	1.16	kx	BUD	45927665	sysop			
2019/02/15	11:22:27.38			47.2302	18.2835				0.0	0.0		0				kx	BUD_GT	45927665	BUD			360
(GT info : GT2 explosion)																						
(locality : Iszkaszentgyörgy Hungary)																						
2019/02/15	11:22:26.58	1.37	0.36	47.2428	18.3173	9.5	4.9	75	0.0f		8	6	110	0.13	1.26	kx	ILOC	19	ILOC			185
(PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
MLv	1.9	0.3	5 BUD	45927665
M	1.9		5 BUD	45927665
ML	1.9	0.1	5 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	0.13	342.8	Pg	11:22:29.736	-0.0					T__		269.4		___	ML	2.1	45927666	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.13	342.8	Lg	11:22:32.642	0.3					T__				___		45927667	FDSN	HU	--	BUD	BUD	HHE	???	_	
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=0)																									
TIH	0.45	220.2	Pg	11:22:35.790	-0.2					T__		24.7		___	ML	1.9	45927668	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																									
MPLH	0.53	262.4	Pg	11:22:37.540	-0.2					T__		7.9		___	ML	1.7	45927669	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MPLH	0.53	262.4	Lg	11:22:46.656	0.5					T__				___		45927670	FDSN	HU	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
MORH	1.05	167.5	Pn	11:22:47.177	-0.3					T__		1.9		___	ML	1.4	45927671	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.4 magdef=1 Station ML: 1.4 magdef=0)																									
KOVH	1.17	187.4	Pg	11:22:50.408	0.3					T__		5.5		___	ML	1.9	45927672	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																									
PSZI	1.26	57.1	I	11:31:22.252	88.4	235.3	-3.0			_A_				___		23	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019dkkf Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/02/18	09:07:22.67	0.90	0.85	47.5400	18.4109				4.0	4.8	6	0	141	0.20	1.07	kx	BUD	46415625	BUD			360
2019/02/18	09:07:20.97	1.20	0.81	47.5615	18.4478	8.2	5.3	97	0.0f		7	5	143	0.24	1.04	kx	ILOC	20	ILOC			191

(#PRIME)
(locality : Tatabánya Hungary)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.7	0.8	2 BUD	46415625
M	1.7		2 BUD	46415625

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	212.7	Pg	09:07:26.562	0.3					T__		290.7		___	ML	2.4	46415626	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.24	212.7	Lg	09:07:29.375	-0.9					T__				___		46415627	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.4 magdef=1 Station ML: 2.4 magdef=0)																									
MPLH	0.73	238.0	Lg	09:07:47.420	0.4					T__				___		46415628	FDSN	HU	--	BUD	BUD	BHE	???	_	
VYHS	0.97	15.5	Pn	09:07:41.245	0.4					T__		1.3		___	ML	1.2	46415630	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.97	15.5	Sn	09:07:55.173	-1.1					T__				___		46415629	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.2 magdef=1 Station ML: 1.2 magdef=0)																									
PSZI	1.04	69.4	I	09:14:30.513	72.4	247.5	-3.0			_A_				___		24	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	1.04	69.4	Lg	09:07:58.603	0.2					T__				___		46415631	FDSN	GE	--	BUD	BUD	BHE	???	_	

Event bud2019dmha Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/02/19	09:47:31.69	0.57	0.55	47.3633	18.3655				0.0	0.0	5	0	154	0.07	1.17	kx	BUD	46415735	BUD			360
2019/02/19	09:47:29.21	1.65	0.39	47.3596	18.4007	8.6	6.2	69	0.0f		6	5	111	0.10	1.17	kx	ILOC	21	ILOC			191

(#PRIME)
(locality : Gánt Hungary)

Magnitude	Err	Nsta	Author	OrigID
MLv	2.8	0.0	1 BUD	46415735
M	2.8		1 BUD	46415735

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	0.10	272.2	Pg	09:47:32.126	0.4					T__		2027.1		___ ML	2.9	46415736	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.10	272.2	Lg	09:47:33.636	-0.3					T__				___		46415737	FDSN	HU	--	BUD	BUD	HHN	???	_
(Reading ML: 2.9 magdef=1)																								
(Station ML: 2.9 magdef=0)																								
MPLH	0.62	252.4	Lg	09:47:51.063	-0.4					T__				___		46415738	FDSN	HU	--	BUD	BUD	BHE	???	_
PSZI	1.15	60.5	I	09:55:07.284	55.5	239.6	-2.0			_A_				___		25	FDSN	HN	--	BUD	BUD	BDF	???	_
MORH	1.16	171.6	Sn	09:48:09.142	-0.1					T__				___		46415740	FDSN	HU	--	BUD	BUD	BHE	???	_
VYHS	1.17	14.3	Lg	09:48:09.622	-0.3					T__				___		46415739	FDSN	SK	--	BUD	BUD	HHN	???	_

Event bud2019dmie Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/02/19	10:22:06.37	1.97	0.57	47.2238	18.2587				0.0	0.0	4	0	247	0.14	1.33	ke	BUD	46415837	BUD			360
2019/02/19	10:22:06.37			47.2302	18.2835				0.0	0.0		0				kx	BUD_GT	45927665	BUD			360
(GT info : GT2 explosion)																						
(locality : Iszkaszentgyörgy Hungary)																						
2019/02/19	10:22:04.95	2.07	0.32	47.2488	18.3153	13.2	8.7	99	0.0f		5	4	204	0.12	1.29	ke	ILOC	22		ILOC		284
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
MLv	1.7	0.4	2 BUD	46415837
M	1.7		2 BUD	46415837

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	0.12	342.0	Pg	10:22:08.259	0.3					T__		220.6		___ ML	2.0	46415838	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.12	342.0	Lg	10:22:10.283	-0.2					T__				___		46415839	FDSN	HU	--	BUD	BUD	HHN	???	_
(Reading ML: 2.0 magdef=1)																								
(Station ML: 2.0 magdef=0)																								
MPLH	0.53	261.8	Pg	10:22:16.183	0.1					T__		6.3		___ ML	1.6	46415840	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.6 magdef=1)																								
(Station ML: 1.6 magdef=0)																								
PSZI	1.26	57.3	I	10:30:26.747	55.7	235.9	-2.6			_A_				___		26	FDSN	HN	--	BUD	BUD	BDF	???	_
VYHS	1.29	15.5	Lg	10:22:49.253	-0.3					T__				___		46415841	FDSN	SK	--	BUD	BUD	HHN	???	_

Event bud2019dpwx Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/02/21	09:12:46.83	0.60	0.56	47.3869	18.3340				0.0	0.0	5	0	181	0.06	1.18	kx	BUD	46416074	BUD			360
2019/02/21	09:12:42.41	1.58	1.96	47.2123	18.2624	7.5	5.4	152	0.0f		7	4	302	0.15	1.34	kx	ILOC	23		ILOC		319
(#PRIME)																						
(locality : Gánt Hungary)																						

Magnitude	Err	Nsta	Author	OrigID
MLv	1.9	1.1	2 BUD	46416074
M	1.9		2 BUD	46416074

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	359.5	Pg	09:12:47.166	1.1					T__		1795.2		___ ML	3.0	46416075	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_

CSKK	0.15	359.5	Lg	09:12:48.710	-0.3	T__	---	---	46416076	FDSN	HU	--	BUD	BUD	HHN	???	_			
(Reading ML: 3.0 magdef=1																				
(Station ML: 3.0 magdef=0																				
PSZI	1.31	56.8	I	09:20:30.939	1.9	237.5	-0.5	TA_	---	27	FDSN	HN	--	BUD	BUD	BDF	???	_		
PSZ	1.31	56.8	Sn	09:13:25.005	-1.7	T__	---	---	46416077	FDSN	GE	--	BUD	BUD	BHE	???	_			
VYHS	1.34	16.6	Pn	09:13:08.264	0.8	T__	---	0.9	---	ML	1.2	46416079	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	1.34	16.6	Sn	09:13:24.181	-2.7	T__	---	---	46416078	FDSN	SK	--	BUD	BUD	HHN	???	_			
(Reading ML: 1.2 magdef=1																				
(Station ML: 1.2 magdef=0																				

Event bud2019dpxb Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/02/21	09:17:21.43	0.46	0.79	48.6824	19.9434				0.0	0.0	11	0	174	0.41	1.54	kx	BUD	46112303	sysop			
2019/02/21	09:17:19.97	1.09	2.03	48.6709	19.9376	4.2	3.7	91	0.0f		13	7	174	0.41	1.55	kx	ILOC	24	ILOC			195
#PRIME)																						
(locality : Tisovec Slovakia)																						

Magnitude	Err	Nsta	Author	OrigID
MLv	1.8	0.2	5 BUD	46112303
M	1.8		5 BUD	46112303
ML	1.8	0.1	5 ILOC	24

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	0.41	117.1	Pg	09:17:28.458	0.2					T__		18.1		---	ML	1.7	46112304	FDSN	SK	--	BUD	BUD	EHN	EHZ	_
KECS	0.41	117.1	Lg	09:17:34.167	-0.4					T__				---		46112305	FDSN	SK	--	BUD	BUD	EHE	???	_	
(Reading ML: 1.7 magdef=1																									
(Station ML: 1.7 magdef=1																									
PSZ	0.75	182.2	Pg	09:17:35.656	-0.3					T__		6.9		---	ML	1.8	46112309	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.75	182.2	Lg	09:17:46.457	-1.3					T__				---		46112308	FDSN	GE	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.8 magdef=1																									
(Station ML: 1.8 magdef=1																									
PSZI	0.75	182.3	I	09:21:36.992	5.9	3.9	1.7			TA_				---		28	FDSN	HN	--	BUD	BUD	BDF	???	_	
NIE	0.78	17.5	Pg	09:17:35.271	0.5					T__		3.5		---	ML	1.5	46112306	FDSN	PL	--	BUD	BUD	BHZ	BHZ	_
NIE	0.78	17.5	Lg	09:17:45.505	-0.6					T__				---		46112307	FDSN	PL	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.5 magdef=1																									
(Station ML: 1.5 magdef=0																									
ABAH	0.94	112.9	Pn	09:17:40.568	0.9					T__		8.8		---	ML	2.0	46112310	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.94	112.9	Lg	09:17:52.191	-1.8					T__				---		46112311	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.0 magdef=1																									
(Station ML: 2.0 magdef=1																									
STHS	1.14	48.5	Pn	09:17:42.451	-0.1					T__		8.0		---	ML	2.0	46112312	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
STHS	1.14	48.5	Lg	09:17:58.445	0.4					T__				---		46112313	FDSN	SK	--	BUD	BUD	EHN	???	_	
(Reading ML: 2.0 magdef=1																									
(Station ML: 2.0 magdef=0																									
OJC	1.55	356.7	Sn	09:18:11.244	-0.1					T__				---		46112314	FDSN	PL	--	BUD	BUD	BHN	???	_	

Event bud2019dpxn Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/02/21	09:32:14.09	0.65	0.82	48.6487	20.8080				0.0	0.0	9	0	209	0.27	1.32	kx	BUD	46416102	BUD				360
2019/02/21	09:32:12.94	1.20	0.75	48.6010	20.7857	5.4	4.0	5	0.0f		11	6	205	0.23	1.30	kx	ILOC	25	ILOC				231
#PRIME)																							

(locality : Dvorniky-Vcelare Slovakia)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.6	0.2	5 BUD	46416102
M	1.6		5 BUD	46416102
ML	1.5	0.1	5 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	239.5	Pg	09:32:18.203	0.5					T__		68.0		___	ML	1.8	46416103	FDSN	SK	--	BUD	BUD	EHE	EHZ	_
KECS	0.23	239.5	Lg	09:32:21.279	-0.2					T__				___		46416104	FDSN	SK	--	BUD	BUD	EHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
ABAH	0.43	135.1	Pg	09:32:22.253	0.5					T__		9.1		___	ML	1.5	46416105	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									
PSZ	0.91	221.4	Pg	09:32:32.127	0.1					T__		6.6		___	ML	1.8	46416106	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.91	221.4	Lg	09:32:46.373	0.3					T__				___		46416107	FDSN	GE	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=0)																									
PSZI	0.91	221.4	I	09:37:19.063	-0.8	43.5	2.7			TA_				___		29	FDSN	HN	--	BUD	BUD	BDF	???	_	
TRPA	1.26	111.3	Pn	09:32:37.785	0.4					T__		2.1		___	ML	1.5	46416108	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
TRPA	1.26	111.3	Sn	09:32:54.965	-1.7					T__				___		46416109	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									
VYHS	1.30	266.0	Pg	09:32:38.749	-0.1					T__		0.9		___	ML	1.2	46416110	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	1.30	266.0	Sn	09:32:56.736	-0.3					T__				___		46416111	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.2 magdef=1)																									
(Station ML: 1.2 magdef=0)																									

Event bud2019dpyh Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/02/21	09:54:59.06	0.51	0.98	47.9432	19.2325				0.0	0.0	5	0	137	0.45	0.61	kx	BUD	46416140	BUD			360	
2019/02/21	09:54:56.37			47.8355	19.1270				0.0	0.0		0				kx	BUD_GT	45927665	BUD			360	
(GT info : GT2 explosion)																							
(locality : Sejce-Vác Hungary)																							
2019/02/21	09:54:53.32	1.80	2.76	47.8328	19.0976	5.9	5.1	80	0.0f		5	2	264	0.54	0.68	ke	ILOC	26		ILOC		359	
(#PRIME)																							

Magnitude	Err	Nsta	Author	OrigID
M	1.3		3 BUD	46416140
MLv	1.3	0.4	3 BUD	46416140

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	188.1	Pg	09:55:08.835	7.8					___		13.9		___	ML	1.4	46416141	FDSN	HU	--	BUD	BUD	BHN	BHZ	_
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=0)																									
PSZI	0.54	80.7	I	09:57:47.926	-2.9	261.9	0.6			TA_				___		30	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.54	80.6	Pg	09:55:06.331	1.2					T__		6.0		___	ML	1.6	46416142	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.54	80.6	Lg	09:55:14.084	0.1					T__				___		46416143	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=0)																									
VYHS	0.68	345.3		09:55:09.864						___		1.2		___		0.0	46416145	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_

VYHS 0.68 345.3 Sn 09:55:19.435 -2.3 T__ --- 46416144 FDSN SK -- BUD BUD HHN ??? _

Event bud2019dxio Austria

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/02/25	11:03:03.08	0.40	0.70	48.1589	16.9757				1.3	2.9	12	0	153	0.29	1.34	kx	BUD	46199233				
2019/02/25	11:03:01.56	1.11	0.86	48.1641	16.9734	8.4	4.2	142	0.0f		13	8	131	0.29	1.97	kx	ILOC	27	ILOC			156

(#PRIME)

(locality : Hainburg Austria)

Magnitude	Err	Nsta	Author	OrigID
M	1.8	3	BUD	46199233
MLv	1.8 0.4	3	BUD	46199233
ML	1.9 0.5	3	ILOC	27

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	0.29	44.0	Pg	11:03:08.678	0.7					T__						46199234	FDSN	SK	--	BUD	BUD	HHZ	???	_	
MODS	0.29	44.0	Lg	11:03:13.367	0.6					T__						46199235	FDSN	SK	--	BUD	BUD	HHN	???	_	
CONA	0.78	252.9	Pg	11:03:17.587	0.4					T__		8.9		---	ML	1.9	46199236	FDSN	OE	--	BUD	BUD	BHZ	BHZ	_
CONA	0.78	252.9	Lg	11:03:28.397	-0.4					T__						46199237	FDSN	OE	--	BUD	BUD	BHE	???	_	

(Reading ML: 1.9 magdef=1)

(Station ML: 1.9 magdef=1)

JAVC	0.84	33.4	Lg	11:03:28.758	-2.0					T__						46199238	FDSN	CZ	--	BUD	BUD	BHN	???	_	
KRUC	0.98	337.1	Pn	11:03:21.810	0.2					T__						46199239	FDSN	CZ	--	BUD	BUD	BHZ	???	_	
KRUC	0.98	337.1	Sn	11:03:36.179	-0.9					T__						46199240	FDSN	CZ	--	BUD	BUD	BHE	???	_	
VRAC	1.17	347.8	Lg	11:03:40.633	0.7					T__						46199241	FDSN	CZ	--	BUD	BUD	BHE	???	_	
VYHS	1.29	74.4	Pg	11:03:27.707	0.5					T__		1.8		---	ML	1.5	46199242	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	1.29	74.4	Sn	11:03:44.218	-0.5					T__						46199243	FDSN	SK	--	BUD	BUD	HHN	???	_	

(Reading ML: 1.5 magdef=1)

(Station ML: 1.5 magdef=1)

ARSA	1.34	227.5	Pg	11:03:27.961	0.4					T__		9.2		---	ML	2.2	46199244	FDSN	OE	--	BUD	BUD	BHZ	BHZ	_
ARSA	1.34	227.5	Sn	11:03:45.614	-0.4					T__						46199245	FDSN	OE	--	BUD	BUD	BHE	???	_	

(Reading ML: 2.2 magdef=1)

(Station ML: 2.2 magdef=1)

PSZI	1.97	96.1	I	11:17:25.821	120.6	277.7	-0.5			_A_						31	FDSN	HN	--	BUD	BUD	BDF	???	_
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Event bud2019dxii Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/02/25	11:10:06.68	0.33	0.90	47.2257	18.3268				0.0	0.0	10	0	111	0.14	1.35	kx	BUD	46416621					360
2019/02/25	11:10:04.16	1.23	0.67	47.2389	18.3554	6.9	4.1	73	0.0f		11	8	112	0.14	1.35	kx	ILOC	28	ILOC				138

(#PRIME)

(locality : Iszkaszentgyörgy Hungary)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.8 0.5	3	BUD	46416621
M	1.8	3	BUD	46416621
ML	1.5 0.1	3	ILOC	28

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	332.6	Pg	11:10:07.989	0.4					T__		464.6		---	ML	2.4	46416622	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.14	332.6	Lg	11:10:09.876	-0.5					T__						46416623	FDSN	HU	--	BUD	BUD	HHN	???	_	

(Reading ML: 2.4 magdef=1)

(Station ML: 2.4 magdef=1
MPLH 0.56 263.3 Lg 11:10:24.490 -0.1 T__ 46416624 FDSN HU -- BUD BUD BHN ??? _
MORH 1.04 168.9 Pg 11:10:25.931 0.9 T__ 2.3 --- ML 1.4 46416626 FDSN HU -- BUD BUD BHZ BHZ _
MORH 1.04 168.9 Lg 11:10:40.339 -0.4 T__ --- 46416625 FDSN HU -- BUD BUD BHE ??? _
(Reading ML: 1.4 magdef=1
(Station ML: 1.4 magdef=1
KOVH 1.16 188.8 Sn 11:10:43.358 -1.2 T__ --- 46416627 FDSN HU -- BUD BUD BHN ??? _
PSZI 1.24 56.3 I 11:18:54.941 91.9 237.3 -0.1 _A_ --- 32 FDSN HN -- BUD BUD BDF ??? _
PSZ 1.24 56.3 Lg 11:10:48.229 0.0 T__ --- 46416628 FDSN GE -- BUD BUD BHN ??? _
VYHS 1.30 14.3 Pg 11:10:30.356 0.2 T__ 1.9 --- ML 1.5 46416631 FDSN SK -- BUD BUD HHZ HHZ _
VYHS 1.30 14.3 Lg 11:10:48.744 -0.1 T__ --- 46416630 FDSN SK -- BUD BUD HHE ??? _
(Reading ML: 1.5 magdef=1
(Station ML: 1.5 magdef=1
MODS 1.35 327.8 Lg 11:10:51.042 0.8 T__ --- 46416629 FDSN SK -- BUD BUD HHE ??? _

Event bud2019dxlt Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/02/25	12:39:49.03	0.39	0.72	48.3707	19.8316				0.0	0.0	8	0	154	0.45	0.94	kx	BUD	46416682	BUD			360
2019/02/25	12:39:47.62	1.39	0.68	48.3442	19.8418	4.6	2.3	175	0.0f		10	5	148	0.43	0.93	kx	ILOC	29	ILOC			256

(#PRIME)
(locality : Velke-Dravce Slovakia)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.8	0.3	4 BUD	46416682
M	1.8		4 BUD	46416682
ML	1.7	0.3	4 ILOC	29

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	0.43	175.2	Pg	12:39:57.027	0.0					T__		18.1		---	ML	1.7	46416685	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.43	175.2	Lg	12:40:03.682	-0.4					T__				---		46416686	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.7 magdef=1 (Station ML: 1.7 magdef=1																									
PSZI	0.43	175.3	I	12:42:07.944	1.3	357.7	2.3			TA_				---		33	FDSN	HN	--	BUD	BUD	BDF	???	_	
KECS	0.45	71.8	Pg	12:39:57.164	0.4					T__		14.1		---	ML	1.7	46416683	FDSN	SK	--	BUD	BUD	EHN	EHZ	_
KECS	0.45	71.8	Lg	12:40:02.927	-0.8					T__				---		46416684	FDSN	SK	--	BUD	BUD	EHN	???	_	
(Reading ML: 1.7 magdef=1 (Station ML: 1.7 magdef=1																									
VYHS	0.69	283.0	Pg	12:40:01.864	0.4					T__		2.6		---	ML	1.3	46416688	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.69	283.0	Lg	12:40:11.229	-0.4					T__				---		46416687	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1 (Station ML: 1.3 magdef=1																									
ABAH	0.93	92.4	Pg	12:40:06.461	0.4					T__		14.5		---	ML	2.2	46416689	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.93	92.4	Lg	12:40:20.972	-0.4					T__				---		46416690	FDSN	HU	--	BUD	BUD	HHE	???	_	
(Reading ML: 2.2 magdef=1 (Station ML: 2.2 magdef=1																									

Event bud2019dzav Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/02/26	09:25:10.14	0.51	0.47	47.3361	18.3508				0.0	0.0	4	0	126	0.07	1.20	kx	BUD	46416761	sysop				
2019/02/26	09:25:07.81	1.58	0.45	47.3262	18.3963	12.4	6.2	56	0.0f		5	4	127	0.10	1.17	kx	ILOC	30	ILOC				247

(#PRIME)

(locality : Gánt Hungary)

Magnitude Err Nsta Author OrigID
M 2.9 1 BUD 46416761
MLv 2.9 0.0 1 BUD 46416761

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	0.10	291.8	Pg	09:25:10.818	0.4					T__		2432.0		___ ML	3.0	46416762	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.10	291.8	Lg	09:25:12.190	-0.5					T__				___		46416763	FDSN	HU	--	BUD	BUD	HHN	???	_
(Reading ML: 3.0 magdef=1 Station ML: 3.0 magdef=0)																								
MORH	1.12	171.2	Sn	09:25:46.838	-0.2					T__				___		46416765	FDSN	HU	--	BUD	BUD	BHE	???	_
PSZI	1.17	59.1	I	09:33:18.488	80.3	239.6	-0.6			_A_				___		9	FDSN	HN	--	BUD	BUD	BDF	???	_
PSZ	1.17	59.1	Sn	09:25:48.554	-0.1					T__				___		46416764	FDSN	GE	--	BUD	BUD	BHE	???	_

Event bud2019eayj Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2019/02/27	10:26:51.00		2.76	47.2387	18.2454				0.0			0					kx BUD	46417004	BUD			360		
2019/02/27	10:26:51.00			47.2302	18.2835				0.0	0.0		0					kx BUD_GT	45927665	BUD			360		
(GT info : GT2 explosion) (locality : Iszkaszentgyörgy Hungary)																								
2019/02/27	10:26:52.20	2.32	0.03	47.2352	18.3141	15.4	9.0	93	0.0f		4	3	206	0.13	1.27	ke ILOC		31		ILOC			287	
(#PRIME)																								

Magnitude Err Nsta Author OrigID
M 1.9 2 BUD 46417004
MLv 1.9 0.3 2 BUD 46417004

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	344.1	Pg	10:26:55.493	-0.0					T__		291.8		___ ML	2.1	46417005	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.13	344.1	Lg	10:26:58.204	0.0					T__				___		46417006	FDSN	HU	--	BUD	BUD	HHN	???	_
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=0)																								
MPLH	0.53	263.3	Pg	10:27:03.315	-0.0					T__		10.6		___ ML	1.8	46417007	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=0)																								
PSZI	1.27	56.9	I	10:36:01.297	99.7	236.3	-1.7			_A_				___		35	FDSN	HN	--	BUD	BUD	BDF	???	_

Event bud2019enon Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2019/03/06	08:15:02.00		0.63	48.4700	19.1300				0.0			0					ke BUD	47253425			sysop			
2019/03/06	08:15:01.48	1.65	4.49	48.3919	19.1004	4.6	4.3	159	0.0f		5	3	191	0.20	0.71	ke ILOC		32		ILOC				359
(#PRIME) (locality : Krupina Slovakia)																								

Magnitude Err Nsta Author OrigID
M 0.8 1 BUD 47253425
MLv 0.8 0.0 1 BUD 47253425

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	0.20	300.2	Pg	08:15:06.274	0.5					T__		8.2		___ ML	0.8	47253426	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_

VYHS 0.20 300.2 Lg 08:15:09.124 0.1 T__ --- 47253427 FDSN SK -- BUD BUD HHN ??? _
 (Reading ML: 0.8 magdef=1
 (Station ML: 0.8 magdef=0
 PSZI 0.71 131.5 I 08:19:03.769 6.1 307.9 -4.2 TA_ --- 36 FDSN HN -- BUD BUD BDF ??? _
 PSZ 0.71 131.4 Lg 08:15:26.122 -1.7 T__ --- 47253428 FDSN GE -- BUD BUD BHN ??? _

Event bud2019enop Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/03/06	08:16:55.86	0.38	0.66	47.1134	17.9723				0.0	0.0	7	0	117	0.30	1.03	kx	BUD	47253744	sysop			
2019/03/06	08:16:54.22	1.21	5.55	47.0505	17.8878	5.1	4.1	148	0.0f		10	5	125	0.27	1.61	kx	ILOC	33	ILOC			227

(#PRIME)
 (locality : Királyszentistván Hungary)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.5	0.7	3 BUD	47253744
M	1.5		3 BUD	47253744
ML	1.2	0.6	3 ILOC	32

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	0.27	296.9	Pg	08:17:00.860	0.7					T__		6.3		___	ML	0.8	47253748	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MPLH	0.27	296.9	Lg	08:17:05.872	1.0					T__				___		47253747	FDSN	HU	--	BUD	BUD	BHE	???	_	
(Reading ML: 0.8 magdef=1 (Station ML: 0.8 magdef=1																									
CSKK	0.40	39.0	Pg	08:17:01.190	-1.6					T__		137.2		___	ML	2.6	47253746	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.40	39.0	Lg	08:17:06.432	-2.9					T__				___		47253745	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.6 magdef=1 (Station ML: 2.6 magdef=1																									
KOVH	0.97	171.3	Lg	08:17:29.231	0.5					T__				___		47253751	FDSN	HU	--	BUD	BUD	BHE	???	_	
MORH	0.98	147.8	Pn	08:17:14.829	0.6					T__		1.5		___	ML	1.2	47253750	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MORH	0.98	147.8	Lg	08:17:28.926	0.1					T__				___		47253749	FDSN	HU	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.2 magdef=1 (Station ML: 1.2 magdef=1																									
PSZI	1.61	56.7	I	08:25:29.941	-77.8	239.6	1.4			_A_				___		37	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZI	1.61	56.7	I	08:27:02.000	14.2	232.5	-5.7			TA_				___		38	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019ergl Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/03/08	08:42:30.07	0.32	0.65	47.4447	18.7339				0.0	0.0	10	0	107	0.20	1.23	kx	BUD	47256515	sysop			
2019/03/08	08:42:28.09	1.07	0.89	47.4724	18.7446	4.8	3.4	159	0.0f		12	7	111	0.19	1.26	kx	ILOC	34	ILOC			167

(#PRIME)
 (locality : Etyek Hungary)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.6	0.7	4 BUD	47256515
M	1.6		4 BUD	47256515
ML	1.4	0.4	4 ILOC	33

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	0.19	86.5	Pg	08:42:32.951	0.4					T__		19.2		___	ML	1.1	47256516	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
BUD	0.19	86.5	Lg	08:42:36.361	0.2					T__				___		47256517	FDSN	HU	--	BUD	BUD	BHN	???	_	

(Reading ML: 1.1 magdef=1

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(Station ML: 1.1 magdef=1
CSKK 0.35 251.8 Pg 08:42:36.157 0.7 T__ 312.4 ___ ML 2.8 47256519 FDSN HU -- BUD BUD HHZ HHZ _
CSKK 0.35 251.8 Lg 08:42:40.534 -0.6 T__ ___ 47256518 FDSN HU -- BUD BUD HHN ??? _
(Reading ML: 2.8 magdef=1
(Station ML: 2.8 magdef=1
MPLH 0.87 250.2 Lg 08:42:57.837 -1.1 T__ ___ 47256520 FDSN HU -- BUD BUD BHE ??? _
PSZI 0.90 59.7 I 08:47:28.680 -1.9 243.6 3.0 TA_ ___ 39 FDSN HN -- BUD BUD BDF ??? _
PSZ 0.90 59.7 Pg 08:42:47.251 0.2 T__ 4.2 ___ ML 1.6 47256522 FDSN GE -- BUD BUD BHZ BHZ _
PSZ 0.90 59.7 Lg 08:43:00.279 -0.9 T__ ___ 47256521 FDSN GE -- BUD BUD BHE ??? _
(Reading ML: 1.6 magdef=1
(Station ML: 1.6 magdef=1
VYHS 1.02 3.4 Pn 08:42:49.134 0.4 T__ 1.2 ___ ML 1.1 47256523 FDSN SK -- BUD BUD HHZ HHZ _
VYHS 1.02 3.4 Sn 08:43:04.961 0.1 T__ ___ 47256524 FDSN SK -- BUD BUD HHN ??? _
(Reading ML: 1.1 magdef=1
(Station ML: 1.1 magdef=1
MORH 1.26 183.2 Sn 08:43:10.000 -0.6 T__ ___ 47256525 FDSN HU -- BUD BUD BHN ??? _

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Event bud2019erid Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/03/08	09:33:58.97	1.82	0.33	47.3843	18.8077				0.0	0.0	5	0	255	0.37	1.11	kx	BUD	47256617	sysop			
2019/03/08	09:34:00.29	1.35	0.34	47.5393	18.5399	13.7	4.3	143	0.0f		6	4	160	0.26	0.99	kx	ILOC	35	ILOC			215

(#PRIME)
(locality : Etyek Hungary)

Magnitude	Err	Nsta	Author	OrigID
MLv	2.0	1.2	2 BUD	47256617
M	2.0		2 BUD	47256617

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	227.2	Pg	09:34:05.750	-0.2					T__		344.1		___	ML	2.6	47256618	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.26	227.2	Lg	09:34:10.869	0.5					T__				___		47256619	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.6 magdef=1 (Station ML: 2.6 magdef=0)																									
MPLH	0.77	241.9	Lg	09:34:27.633	-0.2					T__				___		47256620	FDSN	HU	--	BUD	BUD	BHN	???	_	
VYHS	0.98	11.6	Pn	09:34:20.407	0.1					T__		1.1		___	ML	1.1	47256622	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.98	11.6	Lg	09:34:34.452	0.1					T__				___		47256621	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.1 magdef=1 (Station ML: 1.1 magdef=0)																									
PSZI	0.99	67.0	I	09:39:38.113	-0.2	250.4	2.4			T__				___		40	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019ewya Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/03/11	11:16:14.48	0.41	0.58	47.0420	17.7717				0.0	0.0	9	0	142	0.16	1.02	kx	BUD	47256875	sysop			
2019/03/11	11:16:14.05	0.62	0.41	47.0474	17.7808				3.5	2.5	9	0	139	0.16	1.02	kx	BUD	46587111	sysop			
2019/03/11	11:16:12.70	1.27	0.53	47.0366	17.7639	9.4	4.8	72	0.0f		10	6	145	0.16	1.69	kx	ILOC	36	ILOC			239

(#PRIME)
(locality : Tótvázsony Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.6		4 BUD	46587111
MLv	1.6	0.4	4 BUD	46587111

MLv 1.9 0.4 4 BUD 47256875
M 1.9 4 BUD 47256875
ML 1.9 0.5 4 ILOC 35

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	0.16	147.0	Pg	11:16:17.014	0.5					T__		136.9		___ ML	1.9	47256876	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
TIH	0.16	147.0	Lg	11:16:20.022	0.4					T__				___		47256877	FDSN	HU	--	BUD	BUD	HHE	???	_
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																								
MPLH	0.20	311.2	Lg	11:16:20.917	-0.3					T__				___		47256878	FDSN	HU	--	BUD	BUD	BHZ	???	_
CSKK	0.47	45.8	Pg	11:16:22.832	0.3					T__		96.5		___ ML	2.6	47256880	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
(Reading ML: 2.6 magdef=1)																								
CSKK	0.47	45.8	Lg	11:16:29.655	-0.4					T__				___		47256879	FDSN	HU	--	BUD	BUD	HHN	???	_
(Station ML: 2.6 magdef=1)																								
KOVH	0.98	166.1	Pn	11:16:32.863	0.0					T__		7.4		___ ML	1.9	47256881	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.9 magdef=1)																								
KOVH	0.98	166.1	Lg	11:16:46.620	-0.7					T__				___		47256882	FDSN	HU	--	BUD	BUD	BHN	???	_
(Station ML: 1.9 magdef=1)																								
MORH	1.02	143.3	Pg	11:16:33.323	0.2					T__		1.7		___ ML	1.3	47256883	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MORH	1.02	143.3	Lg	11:16:47.679	-0.9					T__				___		47256884	FDSN	HU	--	BUD	BUD	BHE	???	_
(Reading ML: 1.3 magdef=1 Station ML: 1.3 magdef=1)																								
PSZI	1.69	57.8	I	11:25:38.972	-60.4	241.1	1.7			_A_				___		41	FDSN	HN	--	BUD	BUD	BDF	???	_

Event bud2019ewyv Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/03/11	11:40:18.64	0.48	0.60	47.3675	18.3628				0.0	0.0	7	0	155	0.07	1.29	kx	BUD	47256940	sysop			
2019/03/11	11:40:15.75	1.44	1.42	47.3631	18.4398	5.5	4.3	156	0.0f		9	6	149	0.12	1.30	kx	ILOC	37	ILOC			167
#PRIME																						
(locality : Gánt Hungary)																						

Magnitude Err Nsta Author OrigID
MLv 2.3 0.9 2 BUD 47256940
M 2.3 2 BUD 47256940

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	0.12	270.1	Pg	11:40:19.017	0.2					T__		2798.8		___ ML	3.1	47256941	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.12	270.1	Lg	11:40:20.900	-0.4					T__				___		47256942	FDSN	HU	--	BUD	BUD	HHN	???	_
(Reading ML: 3.1 magdef=1 Station ML: 3.1 magdef=0)																								
MPLH	0.64	252.9	Pg	11:40:29.501	0.5					T__		7.3		___ ML	1.7	47256944	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MPLH	0.64	252.9	Lg	11:40:38.152	-0.7					T__				___		47256943	FDSN	HU	--	BUD	BUD	BHE	???	_
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=0)																								
PSZI	1.13	60.0	I	11:46:45.185	-3.2	240.9	-0.2			TA_				___		42	FDSN	HN	--	BUD	BUD	BDF	???	_
PSZ	1.13	60.0	Lg	11:40:56.625	0.5					T__				___		47256945	FDSN	GE	--	BUD	BUD	BHE	???	_
MORH	1.16	173.0	Lg	11:40:56.066	-0.1					T__				___		47256946	FDSN	HU	--	BUD	BUD	BHE	???	_
KOVH	1.30	190.5	Lg	11:40:59.984	-0.7					T__				___		47256947	FDSN	HU	--	BUD	BUD	BHE	???	_

Event bud2019eywy Czech and Slovak Republics

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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2019/03/12 13:00:05.55 0.60 0.17 48.4751 19.6914 0.0 0.0 4 0 181 0.57 1.05 kx BUD 47258184 sysop
 2019/03/12 13:00:04.51 1.70 10.72 48.3990 19.7602 12.7 4.7 78 0.0f 5 4 176 0.49 0.99 kx ILOC 38 ILOC 285
 (#PRIME)
 (locality : Bulhary Slovakia)

Magnitude Err Nsta Author OrigID
 MLv 2.2 0.0 1 BUD 47258184
 M 2.2 1 BUD 47258184

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	0.49	169.4	Pg	13:00:16.872	1.7					T__		26.2		___ ML	2.1	47258185	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.49	169.4	Lg	13:00:23.590	0.5					T__				___		47258186	FDSN	GE	--	BUD	BUD	BHN	???	_
(Reading ML: 2.1 magdef=1 (Station ML: 2.1 magdef=0)																								
PSZI	0.49	169.4	I	13:02:29.570	-14.6	354.3	4.8			T__				___	43		FDSN	HN	--	BUD	BUD	BDF	???	_
LANS	0.78	345.7	Lg	13:00:27.661	-3.5					T__				___		47258187	FDSN	SK	--	BUD	BUD	EHZ	???	_
ABAH	0.99	95.4	Lg	13:00:39.366	-0.9					T__				___		47258188	FDSN	HU	--	BUD	BUD	HHE	???	_

Event bud2019fefm Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/03/15	11:00:00.05	0.43	1.35	48.1226	16.9007				0.0	0.0	10	0	182	0.36	1.28		kx BUD	46696358	sysop			
2019/03/15	10:59:57.91	1.12	1.79	48.0948	17.0096	5.7	3.6	161	0.0f		12	7	136	0.33	1.94		kx ILOC	39	ILOC			197
#PRIME) (locality : Hainburg Austria)																						

Magnitude Err Nsta Author OrigID
 M 1.8 2 BUD 46696358
 MLv 1.8 0.2 2 BUD 46696358

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	0.33	32.6	Pg	11:00:04.911	-0.2					T__				___		46696359	FDSN	SK	--	BUD	BUD	HHZ	???	_
MODS	0.33	32.6	Lg	11:00:09.443	-1.0					T__				___		46696360	FDSN	SK	--	BUD	BUD	HHN	???	_
CONA	0.79	258.2	Pg	11:00:13.281	-0.4					T__		6.5		___ ML	1.8	46696361	FDSN	OE	--	BUD	BUD	BHZ	BHZ	_
CONA	0.79	258.2	Lg	11:00:22.564	-2.8					T__				___		46696362	FDSN	OE	--	BUD	BUD	BHN	???	_
(Reading ML: 1.8 magdef=1 (Station ML: 1.8 magdef=0)																								
JAVC	0.88	29.7	Pn	11:00:18.450	1.5					T__				___		46696363	FDSN	CZ	--	BUD	BUD	BHZ	???	_
JAVC	0.88	29.7	Sn	11:00:31.641	0.1					T__				___		46696364	FDSN	CZ	--	BUD	BUD	BHE	???	_
KRUC	1.05	337.4	Lg	11:00:32.651	-0.2					T__				___		46696365	FDSN	CZ	--	BUD	BUD	BHE	???	_
VRAC	1.25	347.4	Lg	11:00:38.098	-1.4					T__				___		46696368	FDSN	CZ	--	BUD	BUD	BHE	???	_
ARSA	1.31	230.5	Pg	11:00:23.922	0.5					T__		5.3		___ ML	2.0	46696366	FDSN	OE	--	BUD	BUD	BHZ	BHZ	_
ARSA	1.31	230.5	Sn	11:00:42.077	0.4					T__				___		46696367	FDSN	OE	--	BUD	BUD	BHN	???	_
(Reading ML: 2.0 magdef=1 (Station ML: 2.0 magdef=0)																								
PSZI	1.94	94.2	I	11:12:05.400	-3.9	278.4	2.1			TA_				___	44		FDSN	HN	--	BUD	BUD	BDF	???	_

Event bud2019fjtm Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/03/18	11:45:14.48	1.58	0.13	46.1012	17.9374				0.0	0.0	5	0	249	0.11	1.10		kx BUD	47265361	sysop			
2019/03/18	11:45:14.48			46.1254	18.0152				0.0	0.0							kx BUD_GT	46410864	BUD			360
(GT info : GT2 explosion)																						

(locality : Bükkösd-II Hungary)

2019/03/18 11:45:13.34 2.33 0.94 46.1519 17.9633 17.8 7.3 51 0.0f 6 4 220 0.11 2.21 ke ILOC 40 ILOC 272
(#PRIME)

Magnitude Err Nsta Author OrigID
MLv 1.4 0.7 2 BUD 47265361
M 1.4 2 BUD 47265361

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	123.8	Pg	11:45:16.798	0.5					T__		187.0		_c_	ML	1.9	47265362	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
KOVH	0.11	123.8	Lg	11:45:17.715	-1.0					T__				---		47265363	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=0)																									
MORH	0.48	82.2	Pg	11:45:24.025	0.7					T__		1.7		---	ML	0.9	47265365	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MORH	0.48	82.2	Lg	11:45:30.386	-0.6					T__				---		47265364	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 0.9 magdef=1 Station ML: 0.9 magdef=0)																									
MPLH	1.06	344.2	Lg	11:45:50.081	-0.7					T__				---		47265366	FDSN	HU	--	BUD	BUD	BHE	???	_	
PSZI	2.21	36.1	I	11:57:43.538	-84.7	213.5	-4.0			_A_				---		45	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019fpdd Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/03/21	10:17:37.92	0.33	1.12	47.2920	17.5946					0.0	0.0	15	0	122	0.13	1.68	kx BUD	47265792	sysop			
2019/03/21	10:17:37.61	0.37	0.87	47.2655	17.5456					3.7	2.0	13	0	110	0.10	1.72	kx BUD	46859232	sysop			
2019/03/21	10:17:35.25	1.22	0.69	47.3198	17.6471	6.6	4.0	46	0.0f			16	11	130	0.17	1.63	kx ILOC	41	ILOC			131

(#PRIME)
(locality : Ugod Hungary)

Magnitude Err Nsta Author OrigID
M 1.8 4 BUD 46859232
MLv 1.8 0.3 4 BUD 46859232
MLv 2.0 0.4 5 BUD 47265792
M 2.0 5 BUD 47265792
ML 1.9 0.2 5 ILOC 40

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	0.17	206.1	Pg	10:17:39.012	-0.2					T__		102.9		---	ML	1.8	47265793	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MPLH	0.17	206.1	Lg	10:17:42.574	0.1					T__				---		47265794	FDSN	HU	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
EGYH	0.24	294.6	Pg	10:17:40.890	0.3					T__		205.7		---	ML	2.3	47265795	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
EGYH	0.24	294.6	Lg	10:17:45.261	0.5					T__				---		47265796	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.3 magdef=1 Station ML: 2.3 magdef=1)																									
TIH	0.45	158.1	Lg	10:17:51.809	-0.0					T__				---		47265797	FDSN	HU	--	BUD	BUD	HHE	???	_	
SOP	0.82	296.6	Lg	10:18:04.361	0.3					T__				---		47265798	FDSN	HU	--	BUD	BUD	BHN	???	_	
KOVH	1.27	165.6	Pg	10:18:01.307	0.5					T__		5.2		---	ML	1.9	47265799	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
KOVH	1.27	165.6	Sn	10:18:18.612	0.2					T__				---		47265800	FDSN	HU	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																									
KOGS	1.30	228.2	Pg	10:18:00.873	0.1					T__		46.4		---	ML	2.9	47265801	FDSN	SL	--	BUD	BUD	BHZ	BHZ	_
KOGS	1.30	228.2	Sn	10:18:19.953	0.7					T__				---		47265802	FDSN	SL	--	BUD	BUD	BHN	???	_	

(Reading ML: 2.9 magdef=1
 (Station ML: 2.9 magdef=0
 MORH 1.30 147.9 Pg 10:18:01.860 0.8 T__ 1.7 ___ ML 1.5 47265803 FDSN HU -- BUD BUD BHZ BHZ _
 MORH 1.30 147.9 Sn 10:18:17.404 -1.5 T__ ___ 47265804 FDSN HU -- BUD BUD BHE ??? _
 (Reading ML: 1.5 magdef=1
 (Station ML: 1.5 magdef=0
 CONA 1.35 297.4 Sn 10:18:20.007 -0.6 T__ ___ 47265805 FDSN OE -- BUD BUD BHN ??? _
 ARSA 1.45 268.0 Sn 10:18:21.131 -1.3 T__ ___ 47265806 FDSN OE -- BUD BUD BHE ??? _
 PSZI 1.63 67.7 I 10:28:18.613 41.5 246.0 -3.3 _A_ ___ 48 FDSN HN -- BUD BUD BDF ??? _
 PSZ 1.63 67.7 Lg 10:18:31.664 -0.2 T__ ___ 47265807 FDSN GE -- BUD BUD BHN ??? _

Event bud2019gqjo Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/04/05	08:12:45.47	1.39	0.40	47.8809	19.3846				0.0	0.0	5	0	245	0.35	0.95		kx BUD	48205155	sysop			
2019/04/05	08:12:45.47			47.9151	19.4088				0.0								kx BUD_GT	48205155	BUD			
(GT info : GT2 explosion)																						
(Locality : Szanda Hungary)																						
2019/04/05	08:12:44.34	1.45	1.30	47.9152	19.4022	5.1	3.1	84	0.0f		7	4	237	0.33	0.92		ke ILOC	42	ILOC			322
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
M	1.8	2	BUD	48205155
MLv	1.8 0.3	2	BUD	48205155

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	0.33	89.3	I	08:14:33.285	2.1	274.2	4.5			TA_						51	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.33	89.3	Pg	08:12:51.666	-0.1					T__		22.7		_c_	ML	1.6	48205157	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.33	89.3	Lg	08:12:56.399	-1.1					T__						48205156	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.6 magdef=1 (Station ML: 1.6 magdef=0 VYHS 0.69 327.0 Lg 08:13:08.358 -0.3 T__ ___ 48205158 FDSN SK -- BUD BUD HHN ??? _ KECS 0.92 51.5 Pn 08:13:04.353 0.8 T__ ___ 11.2 ___ ML 2.1 48205159 FDSN SK -- BUD BUD EHN EHZ _ KECS 0.92 51.5 Lg 08:13:15.941 -0.6 T__ ___ 48205160 FDSN SK -- BUD BUD EHN ??? _ (Reading ML: 2.1 magdef=1 (Station ML: 2.1 magdef=0																									

Event bud2019gxto Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/04/09	09:13:16.93	0.42	0.84	48.4007	18.4644				0.0	0.0	9	0	152	0.26	1.50		kx BUD	48206810	sysop				
2019/04/09	09:13:13.99	1.25	8.91	48.3463	18.3913	5.0	3.2	23	0.0f		14	7	160	0.33	1.54		kx ILOC	43	ILOC				204
(#PRIME)																							
(Locality : Hostie Slovakia)																							

Magnitude	Err	Nsta	Author	OrigID
MLv	1.2 0.8	2	BUD	48206810
M	1.2	2	BUD	48206810

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	63.3	Pg	09:13:21.801	1.0					T__		4.5		___	ML	0.9	48206811	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.33	63.3	Lg	09:13:25.058	-0.8					T__						48206812	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 0.9 magdef=1																									

```

(Station ML: 0.9 magdef=0
JAVC 0.70 317.3 Pg 09:13:29.740 1.5 T__ --- 48206813 FDSN CZ -- BUD BUD BHZ ??? _
JAVC 0.70 317.3 Lg 09:13:38.290 -0.4 T__ --- 48206814 FDSN CZ -- BUD BUD BHN ??? _
MODS 0.74 272.5 Sn 09:13:43.888 -0.1 T__ --- 48206815 FDSN SK -- BUD BUD HHE ??? _
LANS 1.07 41.1 Sn 09:13:50.809 -1.5 T__ --- 48206816 FDSN SK -- BUD BUD EHE ??? _
PSZI 1.09 112.5 I 09:18:41.080 -51.6 290.0 -3.6 _A_ --- 52 FDSN HN -- BUD BUD BDF ??? _
PSZI 1.09 112.5 I 09:19:17.231 -15.5 289.5 -4.1 TA_ --- 53 FDSN HN -- BUD BUD BDF ??? _
PSZI 1.09 112.5 I 09:19:57.681 25.0 289.5 -4.1 TA_ --- 54 FDSN HN -- BUD BUD BDF ??? _
PSZ 1.09 112.5 Pg 09:13:37.068 0.2 T__ 4.9 --- ML 1.8 48206818 FDSN GE -- BUD BUD BHZ BHZ _
PSZ 1.09 112.5 Sn 09:13:51.012 -1.8 T__ --- 48206817 FDSN GE -- BUD BUD BHN ??? _
(Reading ML: 1.8 magdef=1
(Station ML: 1.8 magdef=0
MORC 1.54 339.0 Lg 09:14:03.938 0.2 T__ --- 48206819 FDSN CZ -- BUD BUD BHE ??? _

```

Event bud2019gzom Hungary

```

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2019/04/10 08:56:12.00 0.72 46.1700 18.2900 0.0 0 kx BUD 48221326 BUD 360
2019/04/10 08:56:12.00 46.1765 18.2926 0.0 kx BUD_GT 48221326 BUD
(GT info : GT2 explosion)
(Localty : Komló-II Hungary)
2019/04/10 08:56:10.18 1.55 0.18 46.1703 18.2887 9.7 3.7 137 0.0f 6 3 158 0.15 2.06 ke ILOC 44 ILOC 311
(#PRIME)

```

```

Magnitude Err Nsta Author OrigID
M 1.1 2 BUD 48221326
MLv 1.1 0.5 2 BUD 48221326

```

```

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 0.15 238.1 Pg 08:56:14.052 0.1 T__ 49.0 --- ML 1.4 48221327 FDSN HU -- BUD BUD BHZ BHZ _
KOVH 0.15 238.1 Lg 08:56:16.701 -0.2 T__ --- 48221328 FDSN HU -- BUD BUD BHE ??? _
(Reading ML: 1.4 magdef=1
(Station ML: 1.4 magdef=0
MORH 0.25 79.6 Pg 08:56:15.827 0.1 T__ 5.2 --- ML 0.7 48221329 FDSN HU -- BUD BUD BHZ BHZ _
MORH 0.25 79.6 Lg 08:56:20.069 -0.1 T__ --- 48221330 FDSN HU -- BUD BUD BHN ??? _
(Reading ML: 0.7 magdef=1
(Station ML: 0.7 magdef=0
PSZI 2.06 31.5 I 09:09:09.637 -0.1 211.8 -0.9 TA_ --- 55 FDSN HN -- BUD BUD BDF ??? _

```

Event bud2019hmq Hungary

```

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2019/04/17 11:16:14.00 1.01 47.8900 20.0800 0.0 0 ke BUD 48224853 BUD 360
2019/04/17 11:16:14.00 47.8650 20.1529 0.0 0.0 0 kx BUD_GT 48224853 BUD 360
(GT info : GT2 explosion)
(Localty : Kiszána Hungary)
2019/04/17 11:16:12.29 1.76 0.45 47.8651 20.1569 5.0 1.1 107 0.0f 5 3 227 0.18 0.84 ke ILOC 45 ILOC 359
(#PRIME)

```

```

Magnitude Err Nsta Author OrigID
M 1.4 1 BUD 48224853
MLv 1.4 0.0 1 BUD 48224853

```


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	0.18	286.9	Pg	11:16:17.046	0.3					T__		52.2		___	ML	1.5	48224854	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.18	286.9	Lg	11:16:19.885	-0.5					T__				___		48224855	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=0)																									
PSZI	0.18	286.7	I	11:17:12.098	0.3	103.6	-2.9			TA_				___		57	FDSN	HN	--	BUD	BUD	BDF	???	_	
ABAH	0.84	58.9	Lg	11:16:42.874	-0.2					T__				___		48224856	FDSN	HU	--	BUD	BUD	HHE	???	_	

Event bud2019hoep Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2019/04/18	08:58:22.00		1.94	47.8300	19.1270				0.0			0					kx	BUD	48224924	BUD		360		
2019/04/18	08:58:22.00			47.8355	19.1270				0.0	0.0		0					kx	BUD_GT	48224924	BUD		360		
(GT info : GT2 explosion) (locality : Sejce-Vác Hungary)																								
2019/04/18	08:58:22.16	1.90	0.27	47.8381	19.1447	9.4	3.1	76	0.0f		4	3	235	0.51	1.42		kx	ILOC	46	ILOC		359		
(#PRIME)																								

Magnitude	Err	Nsta	Author	OrigID	
M	1.5	1	BUD	48224924	
MLv	1.5	0.0	1	BUD	48224924

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	0.51	80.7	I	09:02:01.077	52.3	261.3	0.0			_A_				___		58	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.51	80.7	Pg	08:58:33.425	0.1					T__		5.6		___	ML	1.5	48224925	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.51	80.7	Lg	08:58:41.457	-0.2					T__				___		48224926	FDSN	GE	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=0)																									
JAVC	1.42	316.6	Lg	08:59:11.024	-0.1					T__				___		48224927	FDSN	CZ	--	BUD	BUD	BHN	???	_	

Event bud2019iaxh Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2019/04/25	08:03:41.86	2.24	0.24	47.7673	19.0920				0.0	0.0	4	0	272	0.56	1.18		kx	BUD	48226193	BUD		360		
2019/04/25	08:03:41.86			47.8355	19.1270				0.0	0.0		0					kx	BUD_GT	48226193	BUD		360		
(GT info : GT2 explosion) (locality : Sejce-Vác Hungary)																								
2019/04/25	08:03:41.15	1.87	1.13	47.8275	19.1465	5.7	4.5	61	0.0f		6	4	263	0.51	1.11		ke	ILOC	47	ILOC		333		
(#PRIME)																								

Magnitude	Err	Nsta	Author	OrigID	
M	1.4	1	BUD	48226193	
MLv	1.4	0.0	1	BUD	48226193

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	0.51	79.5	I	08:06:29.718	1.7	263.9	3.8			TA_				___		59	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.51	79.5	Pg	08:03:52.555	0.3					T__		3.7		___	ML	1.3	48226194	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.51	79.5	Lg	08:04:00.034	-0.6					T__				___		48226195	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.3 magdef=1 Station ML: 1.3 magdef=0)																									
VYHS	0.70	342.8	Lg	08:04:05.954	0.2					T__				___		48226196	FDSN	SK	--	BUD	BUD	HHN	???	_	
KECS	1.11	53.3	Lg	08:04:19.283	-0.5					T__				___		48226197	FDSN	SK	--	BUD	BUD	EHE	???	_	

Event bud2019iifg Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/04/29	08:01:36.86	1.09	0.59	47.8096	19.8803				0.0	0.0	6	0	253	0.11	1.03	kx	BUD	48226999	BUD			360
2019/04/29	08:01:35.47	1.67	1.34	47.8272	19.8816	5.7	0.9	5	0.0f		8	4	251	0.09	1.02	kx	ILOC	48	ILOC			308

(#PRIME)

(Locality : Gyöngyöstarján Hungary)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.7	0.6	3 BUD	48226999
M	1.7		3 BUD	48226999
ML	1.9	0.1	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	0.09	5.1	I	08:02:06.800	2.1	195.2	10.1			TA_				---		60	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.09	5.4	Pg	08:01:37.900	-0.2					T_		296.3		---	ML	2.0	48227000	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.09	5.4	Lg	08:01:39.769	-0.5					T_				---		48227001	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 2.0 magdef=1)																									
(Station ML: 2.0 magdef=1)																									
VYHS	0.97	314.0	Pg	08:01:55.557	0.7					T_		1.0		---	ML	1.0	48227002	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.97	314.0	Lg	08:02:09.129	-0.1					T_				---		48227003	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=1)																									
ABAH	1.02	62.2	Pg	08:01:56.665	1.0					T_		7.2		---	ML	1.9	48227005	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	1.02	62.2	Lg	08:02:10.791	-1.7					T_				---		48227004	FDSN	HU	--	BUD	BUD	HHE	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									

Event bud2019iije Austria

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/04/29	10:00:16.50	0.36	0.78	48.1298	16.9578				0.0	0.0	11	0	119	0.32	1.31	kx	BUD	47990874	sysop				
2019/04/29	10:00:15.09	1.10	0.69	48.1721	16.9328	9.2	4.8	148	0.0f		11	7	115	0.31	1.33	kx	ILOC	49	ILOC				177

(#PRIME)

(Locality : Hainburg Austria)

Magnitude	Err	Nsta	Author	OrigID
M	2.0		3 BUD	47990874
MLv	2.0	0.8	3 BUD	47990874
ML	1.7	0.5	3 ILOC	46

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	48.7	Pg	10:00:21.679	-0.1					T_				---		47990875	FDSN	SK	--	BUD	BUD	HHZ	???	_	
MODS	0.31	48.7	Lg	10:00:26.365	-0.4					T_				---		47990876	FDSN	SK	--	BUD	BUD	HHN	???	_	
CONA	0.76	251.6	Pg	10:00:30.839	0.6					T_		2.9		---	ML	1.4	47990877	FDSN	OE	--	BUD	BUD	BHZ	BHZ	_
CONA	0.76	251.6	Lg	10:00:40.469	-1.1					T_				---		47990878	FDSN	OE	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									
JAVC	0.84	35.2	Pn	10:00:34.915	1.3					T_				---		47990879	FDSN	CZ	--	BUD	BUD	BHZ	???	_	
KRUC	0.96	338.4	Pn	10:00:34.915	0.0					T_				---		47990881	FDSN	CZ	--	BUD	BUD	BHZ	???	_	
KRUC	0.96	338.4	Sn	10:00:49.804	-0.4					T_				---		47990882	FDSN	CZ	--	BUD	BUD	BHN	???	_	
SRO	0.99	110.7	Pg	10:00:34.784	-0.3					T_		75.8		---	ML	2.9	47990880	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
(Reading ML: 2.9 magdef=1)																									

(Station ML: 2.9 magdef=1
 VRAC 1.16 349.0 Sn 10:00:54.714 -0.3 T__
 ARSA 1.33 226.4 Pg 10:00:40.945 0.1 T__ 2.9 ___ ML 1.7 47990884 FDSN OE -- BUD BUD BHZ BHZ _
 ARSA 1.33 226.4 Sn 10:00:58.893 -0.3 T__ ___ 47990885 FDSN OE -- BUD BUD BHE ??? _
 (Reading ML: 1.7 magdef=1
 (Station ML: 1.7 magdef=1
 PSZI 2.00 96.2 I 10:08:32.266 -999 293.9 15.5 ___ 61 FDSN HN -- BUD BUD BDF ??? _

Event bud2019ijzh Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/04/30	07:17:03.17	0.96	0.74	47.8525	20.0829				0.0	0.0	8	0	237	0.14	1.05	kx	BUD	48086417	sysop			
2019/04/30	07:17:03.17			47.8987	20.0893				0.0	0.0	0					kx	BUD_GT	48086417	BUD			360
(GT info : GT2 explosion)																						
(locality : Recsk Hungary)																						
2019/04/30	07:17:02.20	1.39	0.77	47.8987	20.0846	3.9	1.2	99	0.0f		10	5	216	0.13	1.03	ke	ILOC	50	ILOC			254
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
MLv	1.7	0.4	4 BUD	48086417
M	1.7		4 BUD	48086417
ML	1.7	0.2	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	
PSZ	0.13	278.8	Pg	07:17:05.552	-0.0					T__		109.3		___	ML	1.7	48086418	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.13	278.8	Lg	07:17:08.309	-0.0					T__				___		48086419	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
PSZI	0.13	278.6	I	07:17:44.524	0.6	97.2	-1.2			TA_				___		62	FDSN	HN	--	BUD	BUD	BDF	???	_	
KECS	0.64	24.5	Pg	07:17:15.824	0.7					T__		11.6		___	ML	1.9	48086420	FDSN	SK	--	BUD	BUD	EHN	EHZ	_
KECS	0.64	24.5	Lg	07:17:24.940	-0.0					T__				___		48086421	FDSN	SK	--	BUD	BUD	EHE	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
ABAH	0.87	62.4	Pg	07:17:19.541	0.1					T__		6.0		___	ML	1.8	48086422	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.87	62.4	Lg	07:17:33.157	-0.7					T__				___		48086423	FDSN	HU	--	BUD	BUD	HHE	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
VYHS	1.03	306.0	Pg	07:17:23.622	0.8					T__		0.8		___	ML	1.0	48086424	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	1.03	306.0	Lg	07:17:36.441	-1.5					T__				___		48086425	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=1)																									

Event bud2019ikde Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/04/30	09:14:47.60	2.65	0.03	45.9911	17.9866				0.0	0.0	4	0	281	0.13	1.22	kx	BUD	48227203	BUD				360
2019/04/30	09:14:47.60			46.1254	18.0152				0.0	0.0	0					kx	BUD_GT	48227203	BUD				360
(GT info : GT2 explosion)																							
(locality : Bükkösd-II Hungary)																							
2019/04/30	09:14:47.99	1.70	0.59	46.1424	18.0570	10.6	4.4	119	0.0f		6	4	189	0.06	2.18	ke	ILOC	51	ILOC				261
(#PRIME)																							

Magnitude	Err	Nsta	Author	OrigID

MLv 1.5 0.0 1 BUD 48227203
M 1.5 1 BUD 48227203

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	151.1	Pg	09:14:50.107	0.2					T__		73.2		___ ML	1.3	48227204	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
KOVH	0.06	151.1	Lg	09:14:51.008	-0.6					T__				___		48227205	FDSN	HU	--	BUD	BUD	BHN	???	_
(Reading ML: 1.3 magdef=1 (Station ML: 1.3 magdef=0)																								
MORH	0.41	79.7	Lg	09:15:03.783	0.3					T__				___		48227206	FDSN	HU	--	BUD	BUD	BHN	???	_
MPLH	1.09	341.1	Sn	09:15:26.634	-0.1					T__				___		48227207	FDSN	HU	--	BUD	BUD	BHE	???	_
PSZI	2.18	34.6	I	09:28:30.485	-0.8	215.3	-0.6			TA_				___		63	FDSN	HN	--	BUD	BUD	BDF	???	_

Event bud2019ikey Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2019/04/30	10:08:54.21	0.96	1.07	47.8043	20.0274				0.0	0.0	10	0	252	0.15	1.63	kx	BUD	48086640	sysop					
2019/04/30	10:08:54.13			47.8987	20.0893				0.0	0.0		0				kx	BUD_GT	48086640	BUD			360		
(GT info : GT2 explosion) (locality : Recsk Hungary)																								
2019/04/30	10:08:54.26	1.35	2.64	47.8990	20.0533	3.8	1.0	100	0.0f		12	6	216	0.11	1.53	ke	ILOC	52	ILOC			253		
(#PRIME)																								

Magnitude	Err	Nsta	Author	OrigID
MLv	1.9	0.3	5 BUD	48086640
M	1.9		5 BUD	48086640
ML	1.9	0.1	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
PSZ	0.11	280.3	Pg	10:08:56.704	-0.5					T__		272.8		___ ML	2.0	48086641	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.11	280.3	Lg	10:08:59.391	-0.3					T__				___		48086642	FDSN	GE	--	BUD	BUD	BHN	???	_
(Reading ML: 2.0 magdef=1 (Station ML: 2.0 magdef=1)																								
PSZI	0.11	280.0	I	10:09:36.328	7.0	98.3	-1.6			TA_				___		65	FDSN	HN	--	BUD	BUD	BDF	???	_
KECS	0.65	26.2	Pg	10:09:07.259	-0.1					T__		17.7		___ ML	2.1	48086643	FDSN	SK	--	BUD	BUD	EHE	EHZ	_
KECS	0.65	26.2	Lg	10:09:16.877	-0.4					T__				___		48086644	FDSN	SK	--	BUD	BUD	EHE	???	_
(Reading ML: 2.1 magdef=1 (Station ML: 2.1 magdef=0)																								
ABAH	0.89	63.0	Pg	10:09:12.029	0.2					T__		8.9		___ ML	1.9	48086645	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.89	63.0	Lg	10:09:25.555	-1.0					T__				___		48086646	FDSN	HU	--	BUD	BUD	HHE	???	_
(Reading ML: 1.9 magdef=1 (Station ML: 1.9 magdef=1)																								
VYHS	1.01	306.6	Pg	10:09:14.096	-0.4					T__		1.1		___ ML	1.1	48086647	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	1.01	306.6	Lg	10:09:27.169	-2.2					T__				___		48086648	FDSN	SK	--	BUD	BUD	HHN	???	_
(Reading ML: 1.1 magdef=1 (Station ML: 1.1 magdef=0)																								
NIE	1.53	6.0	Pg	10:09:25.561	2.6					T__		2.5		___ ML	1.7	48086649	FDSN	PL	--	BUD	BUD	BHZ	BHZ	_
NIE	1.53	6.0	Lg	10:09:45.888	0.7					T__				___		48086650	FDSN	PL	--	BUD	BUD	BHE	???	_
(Reading ML: 1.7 magdef=1 (Station ML: 1.7 magdef=1)																								

Event bud2019insr Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
------	------	-----	-----	----------	-----------	------	------	----	-------	-----	------	------	-----	-------	-------	------	--------	--------	-----	-------	-----	-----

2019/05/02 08:29:24.60 0.44 0.88 47.9194 19.3958 0.0 0.0 6 0 144 0.34 1.49 kx BUD 49256520 BUD 360
 2019/05/02 08:29:24.60 47.9151 19.4088 0.0 kx BUD_GT 49256520 BUD

(GT info : GT2 explosion)
 (locality : Szanda Hungary)

2019/05/02 08:29:22.42 1.35 0.40 47.9137 19.4100 4.3 3.0 87 0.0f 8 6 146 0.33 1.50 ke ILOC 53 ILOC 220
 (#PRIME)

Magnitude Err Nsta Author OrigID
 MLv 1.6 0.0 1 BUD 49256520
 M 1.6 1 BUD 49256520

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	0.33	89.1	I	08:31:07.594	0.0	271.1	1.7			TA_				---	66	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.33	89.0	Pg	08:29:29.760	-0.0					T_		21.2		---	ML 1.5	49256521	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.33	89.0	Lg	08:29:35.148	-0.3					T_				---	49256522	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.5 magdef=1 (Station ML: 1.5 magdef=0)																								
VYHS	0.70	326.7	Lg	08:29:47.335	0.5					T_				---	49256523	FDSN	SK	--	BUD	BUD	HHN	???	_	
CSKK	0.95	235.1	Lg	08:29:55.783	0.1					T_				---	49256524	FDSN	HU	--	BUD	BUD	HHN	???	_	
ABAH	1.28	72.0	Sn	08:30:06.688	0.4					T_				---	49256525	FDSN	HU	--	BUD	BUD	HHN	???	_	
JAVC	1.50	309.9	Sn	08:30:10.404	-0.6					T_				---	49256526	FDSN	CZ	--	BUD	BUD	BHN	???	_	

Event bud2019intg Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/05/02	08:47:15.73	0.94	1.09	47.8055	19.1040				0.0	0.0	5	0	217	0.54	1.35		kx BUD	49256562	BUD			360
2019/05/02	08:47:15.73			47.8355	19.1270				0.0	0.0		0					kx BUD_GT	49256562	BUD			360

(GT info : GT2 explosion)
 (locality : Sejce-Vác Hungary)

2019/05/02 08:47:14.31 1.47 0.58 47.8377 19.1274 5.3 4.2 43 0.0f 7 4 213 0.52 1.35 ke ILOC 54 ILOC 262
 (#PRIME)

Magnitude Err Nsta Author OrigID
 MLv 1.1 0.4 2 BUD 49256562
 M 1.1 2 BUD 49256562

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	0.52	80.9	I	08:50:05.124	0.3	262.7	1.3			TA_				---	67	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.52	80.8	Pg	08:47:25.732	0.1					T_		3.9		---	ML 1.3	49256564	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.52	80.8	Lg	08:47:33.903	-0.3					T_				---	49256563	FDSN	GE	--	BUD	BUD	BHZ	???	_	
(Reading ML: 1.3 magdef=1 (Station ML: 1.3 magdef=0)																								
VYHS	0.69	343.6	Pg	08:47:27.498	-0.7					T_		0.9		---	ML 0.8	49256565	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.69	343.6	Lg	08:47:39.166	0.7					T_				---	49256566	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 0.8 magdef=1 (Station ML: 0.8 magdef=0)																								
MODS	1.35	294.1	Sn	08:47:59.523	0.4					T_				---	49256567	FDSN	SK	--	BUD	BUD	HHE	???	_	

Event bud2019ipqy Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/05/03	09:53:41.04	0.32	0.66	47.4035	18.7136				0.0	0.0	11	0	113	0.23	1.19		kx BUD	49256824	BUD			360
2019/05/03	09:53:38.82	1.08	0.77	47.4134	18.7210	4.6	4.0	3	0.0f		13	7	111	0.22	1.20		kx ILOC	55		ILOC		182

(#PRIME)
 (locality : Etyek Hungary)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.9	0.7	5 BUD	49256824
M	1.9		5 BUD	49256824
ML	1.8	0.4	5 ILOC	52

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	0.22	71.0	Pg	09:53:44.531	0.7					T__		37.0		___	ML	1.5	49256825	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
BUD	0.22	71.0	Lg	09:53:48.755	0.9					T__				___		49256826	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									
CSKK	0.32	261.0	Pg	09:53:46.124	0.5					T__		1734.3		___	ML	3.4	49256828	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.32	261.0	Lg	09:53:51.732	0.8					T__				___		49256827	FDSN	HU	--	BUD	BUD	HHE	???	_	
(Reading ML: 3.4 magdef=1)																									
(Station ML: 3.4 magdef=0)																									
MPLH	0.84	253.6	Pn	09:53:56.579	-0.4					T__		6.3		___	ML	1.8	49256830	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MPLH	0.84	253.6	Lg	09:54:08.212	-0.4					T__				___		49256829	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
PSZI	0.94	57.1	I	10:00:41.286	103.3	240.4	2.5			_A_				___		68	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZI	0.94	57.1	I	10:00:57.636	119.7	241.6	3.7			_A_				___		69	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.94	57.1	Pg	09:53:59.349	0.6					T__		14.0		___	ML	2.2	49256832	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.94	57.1	Lg	09:54:12.021	-1.4					T__				___		49256831	FDSN	GE	--	BUD	BUD	BHE	???	_	
(Reading ML: 2.2 magdef=1)																									
(Station ML: 2.2 magdef=1)																									
VYHS	1.08	4.1	Pg	09:54:01.219	0.6					T__		1.4		___	ML	1.2	49256833	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	1.08	4.1	Lg	09:54:16.314	-0.3					T__				___		49256834	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.2 magdef=1)																									
(Station ML: 1.2 magdef=0)																									
MORH	1.20	182.6	Sn	09:54:19.153	-0.7					T__				___		49256835	FDSN	HU	--	BUD	BUD	BHN	???	_	

Event bud2019jlng Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/05/15	09:01:01.16	0.35	1.03	47.9577	20.0150				0.0	0.0	10	0	141	0.09	2.28	kx	BUD	48484982	sysop			
2019/05/15	09:01:01.16			47.8987	20.0893				0.0	0.0	0					kx	BUD_GT	48484982	BUD			360
(GT info : GT2 explosion)																						
(locality : Recsk Hungary)																						
2019/05/15	09:01:00.02	1.14	2.94	47.9061	20.0529	3.8	1.0	97	0.0f		12	7	146	0.11	2.26	ke	ILOC	56	ILOC			183
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
MLv	1.9	0.3	6 BUD	48484982
M	1.9		6 BUD	48484982
ML	2.0	0.2	6 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	0.11	276.6	Pg	09:01:01.690	-1.3					T__		201.3		___	ML	1.9	48484983	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.11	276.6	Lg	09:01:04.352	-1.0					T__				___		48484984	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									

PSZI	0.11	276.3	I	09:01:41.280	6.6	98.9	2.7	TA_							70	FDSN	HN	--	BUD	BUD	BDF	???	_
KECS	0.65	26.5	Pg	09:01:12.632	-0.3			T__	18.5		___	ML	2.1	48484986	FDSN	SK	--	BUD	BUD	EHN	EHZ	_	
KECS	0.65	26.5	Lg	09:01:21.015	-1.8			T__			___			48484985	FDSN	SK	--	BUD	BUD	EHE	???	_	
(Reading ML: 2.1 magdef=1)																							
(Station ML: 2.1 magdef=1)																							
ABAH	0.89	63.4	Pg	09:01:17.440	-0.1			T__	10.5		___	ML	2.0	48484987	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_	
ABAH	0.89	63.4	Lg	09:01:30.555	-1.7			T__			___			48484988	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.0 magdef=1)																							
(Station ML: 2.0 magdef=1)																							
VYHS	1.00	306.3	Pg	09:01:18.771	-1.4			T__	1.1		___	ML	1.1	48484989	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_	
VYHS	1.00	306.3	Lg	09:01:32.380	-2.6			T__			___			48484990	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.1 magdef=1)																							
(Station ML: 1.1 magdef=0)																							
MORH	1.95	210.2	Pn	09:01:34.399	0.8			T__	1.1		___	ML	1.6	48484991	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_	
(Reading ML: 1.6 magdef=1)																							
(Station ML: 1.6 magdef=1)																							
KOVH	2.26	217.0	Pn	09:01:42.028	4.0			T__	4.9		___	ML	2.4	48484992	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_	
(Reading ML: 2.4 magdef=1)																							
(Station ML: 2.4 magdef=0)																							

Event bud2019kxbx Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/05/24	08:08:26.58	1.41	1.02	45.9917	17.9693				0.0	0.0	6	0	281	0.13	1.22	kx	BUD	49271510	sysop			
2019/05/24	08:08:26.58			46.1254	18.0152				0.0	0.0	0					kx	BUD_GT	49271510	BUD			360
(GT info : GT2 explosion)																						
(Locality : Bükkösd-II Hungary)																						
2019/05/24	08:08:27.02	1.56	1.19	46.1135	18.0296	6.1	4.6	110	0.0f		8	4	225	0.06	2.21	ke	ILOC	57	ILOC			277
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
MLv	1.5	0.6	3 BUD	49271510
M	1.5		3 BUD	49271510
ML	1.6	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	
KOVH	0.06	117.2	Pg	08:08:29.089	0.3					T__		154.7		___	ML	1.6	49271511	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
KOVH	0.06	117.2	Lg	08:08:30.870	0.5					T__				___		49271512	FDSN	HU	--	BUD	BUD	BHZ	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
MORH	0.44	76.4	Pg	08:08:35.806	-0.5					T__		1.3		___	ML	0.6	49271514	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MORH	0.44	76.4	Lg	08:08:43.083	-0.3					T__				___		49271513	FDSN	HU	--	BUD	BUD	BHZ	???	_	
(Reading ML: 0.6 magdef=1)																									
(Station ML: 0.6 magdef=1)																									
MPLH	1.11	342.5	Pg	08:08:50.513	1.0					T__		4.9		___	ML	1.8	49271516	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MPLH	1.11	342.5	Lg	08:09:04.610	-1.6					T__				___		49271515	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
PSZI	2.21	34.6	I	08:22:25.434	1.7	215.2	-0.7			TA_				___		71	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019khne Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
------	------	-----	-----	----------	-----------	------	------	----	-------	-----	------	------	-----	-------	-------	------	--------	--------	-----	-------	-----	-----

2019/05/27 09:57:54.00 0.25 47.7000 20.1200 0.0 0 kx BUD 49271776 sysop
 2019/05/27 09:57:54.00 47.8650 20.1529 0.0 0.0 0 kx BUD_GT 49271776 BUD 360
 (GT info : GT2 explosion)
 (Locality : Kiszána Hungary)
 2019/05/27 09:57:54.50 1.35 2.03 47.8716 20.1278 4.7 1.0 106 0.0f 6 3 226 0.16 0.86 ke ILOC 58 ILOC 359
 (#PRIME)

Magnitude Err Nsta Author OrigID
 M 2.0 2 BUD 49271776
 MLv 2.0 0.2 2 BUD 49271776

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	286.7	Pg	09:57:58.987	0.4					T__		112.2		___	ML	1.8	49271777	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.16	286.7	Lg	09:58:02.447	0.6					T__				___		49271778	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=0)																									
PSZI	0.16	286.5	I	09:58:43.947	-3.4	103.3	-3.0			TA_				___		72	FDSN	HN	--	BUD	BUD	BDF	???	_	
ABAH	0.86	59.9	Pn	09:58:12.524	-0.5					T__		6.6		___	ML	1.8	49271780	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.86	59.9	Lg	09:58:25.450	-0.3					T__				___		49271779	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=0)																									

Event bud2019klcg Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/05/29	08:59:00.74	1.76	0.53	47.7428	19.2964				0.0	0.0	5	0	271	0.44	1.09		kx BUD	49272186	sysop			
2019/05/29	08:59:00.74			47.8920	19.4049				0.0	0.0		0					kx BUD_GT	49272186	BUD			360
(GT info : GT2 explosion)																						
(Locality : Bercel Hungary)																						
2019/05/29	08:59:01.27	1.36	0.64	47.8883	19.3965	5.1	3.1	79	0.0f		7	4	243	0.34	0.94		ke ILOC	59	ILOC			325
#PRIME)																						

Magnitude Err Nsta Author OrigID
 MLv 1.5 0.5 3 BUD 49272186
 M 1.5 3 BUD 49272186
 ML 1.3 0.6 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	0.34	84.8	I	09:00:48.722	-1.1	264.1	-1.0			TA_				___		76	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.34	84.7	Pg	08:59:08.903	0.1					T__		12.4		___	ML	1.3	49272187	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.34	84.7	Lg	08:59:15.010	0.4					T__				___		49272188	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=1)																									
VYHS	0.71	328.5	Pn	08:59:17.147	-0.4					T__		1.1		___	ML	0.9	49272190	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.71	328.5	Lg	08:59:26.511	0.2					T__				___		49272189	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 0.9 magdef=1)																									
(Station ML: 0.9 magdef=1)																									
KECS	0.94	50.4	Pn	08:59:20.811	0.0					T__		8.3		___	ML	1.9	49272191	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									

Event bud2019kvzz Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/06/04	08:20:12.93	0.39	0.77	47.8576	19.8381				0.0	0.0	10	0	142	0.07	1.83	kx	BUD	49087914	sysop			
2019/06/04	08:20:09.27	1.23	1.96	47.8035	19.8484	10.0	6.2	137	0.0f		9	5	146	0.12	1.79	kx	ILOC	60	ILOC			186

(#PRIME)

(locality : Gyöngyöstarján Hungary)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.9	0.4	4 BUD	49087914
M	1.9		4 BUD	49087914
ML	2.1	0.2	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	
PSZI	0.12	14.8	I	08:17:56.333	-999	152.5	-42.4			---				---		78	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.12	15.1	Pg	08:20:12.844	0.4					T__		458.4		---	ML	2.3	49087915	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.12	15.1	Lg	08:20:15.004	-0.1					T__				---		49087916	FDSN	GE	--	BUD	BUD	BHE	???	_	
(Reading ML: 2.3 magdef=1)																									
(Station ML: 2.3 magdef=1)																									
KECS	0.80	31.9	Pn	08:20:28.967	2.1					---		13.5		---	ML	2.1	49087917	FDSN	SK	--	BUD	BUD	EHE	EHZ	_
KECS	0.80	31.9	Sn	08:20:37.266	-3.4					T__				---		49087918	FDSN	SK	--	BUD	BUD	EHE	???	_	
(Reading ML: 2.1 magdef=1)																									
(Station ML: 2.1 magdef=1)																									
VYHS	0.97	315.9	Pn	08:20:30.542	1.3					T__		1.4		---	ML	1.2	49087919	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.97	315.9	Sn	08:20:42.679	-2.0					T__				---		49087920	FDSN	SK	--	BUD	BUD	HHZ	???	_	
(Reading ML: 1.2 magdef=1)																									
(Station ML: 1.2 magdef=1)																									
ABAH	1.06	61.7	Pn	08:20:31.982	1.4					T__		8.8		---	ML	2.0	49087921	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	1.06	61.7	Sn	08:20:46.973	-0.4					T__				---		49087922	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.0 magdef=1)																									
(Station ML: 2.0 magdef=1)																									
CSKK	1.16	248.3	Lg	08:20:51.205	0.9					T__				---		49087923	FDSN	HU	--	BUD	BUD	HHE	???	_	
MORH	1.79	207.9	Lg	08:21:09.394	-1.6					T__				---		49087924	FDSN	HU	--	BUD	BUD	BHN	???	_	

Event bud20191dlp Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2019/06/08	10:09:56.00		0.24	47.9939	19.5974				0.0								kx	BUD					360	
2019/06/08	10:09:56.00			48.0061	19.6978				0.0		6	0	172	0.16	1.07	kx	BUD_GT	50128447	BUD					222

(GT info : GT2 explosion)

(locality : Nagylóc Hungary)

2019/06/08	10:09:55.05	1.53	0.73	48.0238	19.6527	4.0	1.8	122	0.0f		6	3	187	0.19	0.72	ke	ILOC	61		ILOC				359
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(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
M	1.1		2 BUD	50128447
MLv	1.1	0.5	2 BUD	50128447

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	123.1	I	10:10:58.208	0.9	296.4	-6.9			TA_				---		79	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.19	122.9	Pg	10:09:59.946	0.2					T__		41.3		---	ML	1.5	50128448	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.19	122.9	Lg	10:10:02.855	-0.5					T__				---		50128449	FDSN	GE	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=0)																									
VYHS	0.72	311.1	Pg	10:10:09.987	0.4					T__		0.7		---	ML	0.7	50128451	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_

VYHS 0.72 311.1 Lg 10:10:19.819 -0.5 T__ --- 50128450 FDSN SK -- BUD BUD HHN ??? _
 (Reading ML: 0.7 magdef=1
 (Station ML: 0.7 magdef=0

Event bud20191dlr Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/06/08	10:11:33.00		0.61	47.9887	19.5974				0.0			0					ke BUD	50128484	BUD			360
2019/06/08	10:11:33.00			48.0061	19.6978				0.0		6	0	172	0.16	1.07		kx BUD_GT	50128484	BUD			
(GT info : GT2 explosion)																						
(locality : Nagylóc Hungary)																						
2019/06/08	10:11:32.37	1.72	1.38	48.0226	19.6556	4.6	1.8	122	0.0f		5	3	187	0.19	0.72		ke ILOC	62	ILOC			359
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
M	1.5	1	BUD	50128484
MLv	1.5	0.0	1 BUD	50128484

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	123.2	I	10:12:35.606	1.7	296.9	-6.4			TA_				---		81	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.19	122.9	Pg	10:11:37.293		0.3				T__		43.8		---	ML	1.5	50128485	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.19	122.9	Lg	10:11:39.785		-0.9				T__				---			50128486	FDSN	GE	--	BUD	BUD	BHN	???	_
(Reading ML: 1.5 magdef=1 (Station ML: 1.5 magdef=0																									
VYHS	0.72	311.0	Lg	10:11:57.720	0.0					T__				---			50128487	FDSN	SK	--	BUD	BUD	HHZ	???	_

Event bud20191mkk Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/06/13	07:47:13.81	0.55	0.56	47.3786	18.3531				0.0	0.0	4	0	165	0.06	1.18		kx BUD	50128983	BUD			360
2019/06/13	07:47:10.69	1.58	3.97	47.3950	18.4672	5.9	4.4	154	0.0f		6	4	163	0.14	1.19		kx ILOC	63	ILOC			246
(#PRIME)																						
(locality : Gánt Hungary)																						

Magnitude	Err	Nsta	Author	OrigID
MLv	2.6	0.0	1 BUD	50128983
M	2.6		1 BUD	50128983

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	257.3	Pg	07:47:14.315	0.1					T__		1310.1		---	ML	2.8	50128984	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.14	257.3	Lg	07:47:15.908	-1.1					T__				---			50128985	FDSN	HU	--	BUD	BUD	HHN	???	_
(Reading ML: 2.8 magdef=1 (Station ML: 2.8 magdef=0																									
PSZI	1.10	61.0	I	07:53:24.083	-6.6	243.4	1.4			TA_				---		82	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	1.10	61.0	Lg	07:47:51.638	1.6					T__				---			50128986	FDSN	GE	--	BUD	BUD	BHE	???	_
MORH	1.19	174.1	Lg	07:47:51.707	-0.3					T__				---			50128987	FDSN	HU	--	BUD	BUD	BHE	???	_

Event bud20191vlm Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/06/18	06:32:36.95	2.69	0.41	47.7872	20.1072				0.0	0.0	4	0	290	0.19	1.11		kx BUD	50129473	BUD			360
2019/06/18	06:32:36.95			47.8987	20.0893				0.0	0.0		0					kx BUD_GT	50129473	BUD			360
(GT info : GT2 explosion)																						

(locality : Recsk Hungary)

2019/06/18 06:32:37.49 1.79 1.48 47.9001 20.0747 5.3 1.2 98 0.0f 6 4 253 0.12 1.02 ke ILOC 64 ILOC 332
(#PRIME)

Magnitude Err Nsta Author OrigID
MLv 1.7 0.0 1 BUD 50129473
M 1.7 1 BUD 50129473

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	278.6	Pg	06:32:40.946	0.2					T__		70.1		___ ML	1.5	50129474	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.12	278.6	Lg	06:32:43.162	-0.2					T__				___		50129475	FDSN	GE	--	BUD	BUD	BHN	???	_
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=0)																								
PSZI	0.12	278.4	I	06:33:19.374	2.3	97.2	-1.0			TA_				___		83	FDSN	HN	--	BUD	BUD	BDF	???	_
KECS	0.65	25.1	Lg	06:33:00.716	0.4					T__				___		50129476	FDSN	SK	--	BUD	BUD	EHE	???	_
VYHS	1.02	306.1	Lg	06:33:11.933	-1.0					T__				___		50129477	FDSN	SK	--	BUD	BUD	HHN	???	_

Event bud2019lvqi Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/06/18	08:59:52.58	1.35	0.58	47.8983	20.0533				0.0	0.0	6	0	254	0.11	1.01	kx	BUD	50152168	BUD			360
2019/06/18	08:59:50.99	1.54	1.74	47.8964	20.0722	4.7	0.8	100	0.0f		8	4	255	0.12	1.02	kx	ILOC	65	ILOC			333

(#PRIME)

(locality : Recsk Hungary)

Magnitude Err Nsta Author OrigID
MLv 1.7 0.5 3 BUD 50152168
M 1.7 3 BUD 50152168
ML 2.0 0.1 3 ILOC 62

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	280.5	Pg	08:59:54.723	0.5					T__		207.6		___ ML	2.0	50152169	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.12	280.5	Lg	08:59:55.981	-0.9					T__				___		50152170	FDSN	GE	--	BUD	BUD	BHE	???	_
(Reading ML: 2.0 magdef=1 Station ML: 2.0 magdef=1)																								
PSZI	0.12	280.2	I	09:00:33.274	3.0	97.3	-2.8			TA_				___		85	FDSN	HN	--	BUD	BUD	BDF	???	_
KECS	0.65	25.1	Pg	09:00:04.347	0.3					T__		14.9		___ ML	2.0	50152171	FDSN	SK	--	BUD	BUD	EHN	EHZ	_
KECS	0.65	25.1	Lg	09:00:14.123	0.2					T__				___		50152172	FDSN	SK	--	BUD	BUD	EHE	???	_
(Reading ML: 2.0 magdef=1 Station ML: 2.0 magdef=1)																								
VYHS	1.02	306.3	Pg	09:00:12.323	0.9					T__		1.0		___ ML	1.1	50152174	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	1.02	306.3	Lg	09:00:24.497	-2.0					T__				___		50152173	FDSN	SK	--	BUD	BUD	HHN	???	_

Event bud2019mijv Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/06/25	08:28:53.93	0.49	0.92	47.9432	19.4449				0.0	0.0	5	0	145	0.30	1.50	kx	BUD	50153083	BUD			360	
2019/06/25	08:28:53.93			47.9151	19.4088				0.0								kx	BUD_GT	50153083	BUD			

(GT info : GT2 explosion)

(locality : Szanda Hungary)

2019/06/25 08:28:51.88 1.45 2.03 47.9371 19.4322 4.6 2.9 91 0.0f 7 5 146 0.31 1.49 ke ILOC 66 ILOC 231

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.5	0.0	1 BUD	50153083
M	1.5		1 BUD	50153083

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	0.31	93.4	I	08:30:35.789	3.5	272.8	-0.9			TA_						86	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.31	93.3	Pg	08:28:58.301	-0.6					T__		23.6			ML	1.5	50153084	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.31	93.3	Lg	08:29:03.563	-0.8					T__						50153085	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=0)																									
VYHS	0.69	324.6	Lg	08:29:15.404	-0.6					T__						50153086	FDSN	SK	--	BUD	BUD	HHN	???	_	
KECS	0.89	51.8	Lg	08:29:23.367	0.3					T__						50153087	FDSN	SK	--	BUD	BUD	EHE	???	_	
MPLH	1.49	239.8	Sn	08:29:41.994	1.7					T__						50153088	FDSN	HU	--	BUD	BUD	BHN	???	_	

Event bud2019mthd Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/07/01	07:36:40.85	0.47	0.36	47.2379	18.2835				0.0	0.0	6	0	173	0.13	1.05	kx	BUD	51009102	BUD			360
2019/07/01	07:36:38.13	1.46	3.06	47.2770	18.4153	5.0	4.6	50	0.0f		8	4	114	0.14	1.19	kx	ILOC	67	ILOC			222

(#PRIME)

(locality : Iszkaszentgyörgy Hungary)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.5	0.5	3 BUD	51009102
M	1.5		3 BUD	51009102
ML	1.6	0.7	3 ILOC	64

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	309.3	Pg	07:36:42.769	1.3					T__		277.7			ML	2.1	51009103	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.14	309.3	Lg	07:36:44.847	0.6					T__						51009104	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.1 magdef=1)																									
(Station ML: 2.1 magdef=1)																									
MPLH	0.61	260.2	Pg	07:36:50.628	-0.1					T__		5.6			ML	1.6	51009106	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MPLH	0.61	260.2	Lg	07:36:57.137	-3.0					T__						51009105	FDSN	HU	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
MORH	1.07	171.5	Pg	07:37:00.738	1.2					T__		1.0			ML	1.1	51009108	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MORH	1.07	171.5	Lg	07:37:15.072	-0.6					T__						51009107	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.1 magdef=1)																									
(Station ML: 1.1 magdef=1)																									
PSZI	1.19	56.8	I	07:43:28.789	-5.9	238.1	0.2			TA_						87	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019mvfr Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/07/02	09:08:59.60	2.71	0.46	47.7450	19.8301				0.0	0.0	4	0	288	0.18	1.00	kx	BUD	51010729	BUD			360
2019/07/02	09:08:59.11			47.8285	19.9317				0.0							kx	BUD_GT	51010729	BUD			

(GT info : GT2 explosion)

(locality : Gyöngyössolymos-II Hungary)

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/07/02	09:08:59.70	1.97	0.92	47.8196	19.8713	6.0	0.6	8	0.0f		6	4	283	0.10	0.97	ke	ILOC	68	ILOC			337

(#PRIME)

Magnitude Err Nsta Author OrigID
 MLv 1.7 0.0 1 BUD 51010729
 M 1.7 1 BUD 51010729

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	0.10	8.6	I	09:09:31.297	-0.4	193.2	4.5			TA_				---		89	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.10	9.0	Pg	09:09:02.830	0.3					T__		89.1		---	ML	1.5	51010730	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.10	9.0	Lg	09:09:04.250	-0.6					T__				---		51010731	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.5 magdef=1 (Station ML: 1.5 magdef=0)																									
KECS	0.78	31.5	Lg	09:09:27.931	0.8					T__				---		51010732	FDSN	SK	--	BUD	BUD	EHN	???	_	
VYHS	0.97	314.6	Lg	09:09:32.259	-1.2					T__				---		51010733	FDSN	SK	--	BUD	BUD	HHN	???	_	

Event bud2019mwuk Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/07/03	05:43:59.00		0.50	47.8000	19.9000				0.0			0					ke	BUD	51011032	BUD		360	
2019/07/03	05:43:59.00			47.8285	19.9317				0.0			0					kx	BUD_GT	51011032	BUD			
(GT info : GT2 explosion) (locality : Gyöngyössolymos-II Hungary)																							
2019/07/03	05:43:58.21	2.07	0.14	47.8378	19.9285	6.1	0.5	163	0.0f	5	3	313	0.08	0.75			ke	ILOC	69	ILOC		359	
(#PRIME)																							

Magnitude Err Nsta Author OrigID
 M 1.6 1 BUD 51011032
 MLv 1.6 0.0 1 BUD 51011032

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	0.08	343.7	I	05:44:25.165	0.1	160.1	-3.5			TA_				---		90	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.08	344.2	Pg	05:44:00.696	0.0					T__		83.9		_c_	ML	1.5	51011033	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.08	344.2	Lg	05:44:02.635	-0.1					T__				---		51011034	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.5 magdef=1 (Station ML: 1.5 magdef=0)																									
KECS	0.75	29.8	Lg	05:44:24.499	0.0					T__				---		51011035	FDSN	SK	--	BUD	BUD	EHN	???	_	

Event aegean02 Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/07/03	19:10:00.00			39.7000	24.4500				0.0			0					kx	BUD	2	BUD		360	
2019/07/03	19:10:00.00f		0.05	40.2482	23.8835	137.2	54.6	168	0.0f	4	4	316	7.43	12.18			kx	ILOC	70	ILOC		342	
(#PRIME) (shockwave from supersonic flight)																							

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
BURAR	7.43	7.0	I	19:41:44.044	-999	189.1	1.2			_A_				---		1	FDSN	HN	--	BUD	BUD	BDF	???	_
PSZI	8.19	340.8	I	19:45:03.019	-999	156.2	-1.8			_A_				---		1	FDSN	HN	--	BUD	BUD	BDF	???	_
I26DE	11.24	323.3	I	20:01:00.000	-999	139.2	3.1			_A_				---		1	FDSN	HN	--	BUD	BUD	BDF	???	_
PVCI	12.18	330.7	I	20:01:00.000	-999	141.8	-2.2			_A_				---		1	FDSN	HN	--	BUD	BUD	BDF	???	_

Event bud2019myui Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
------	------	-----	-----	----------	-----------	------	------	----	-------	-----	------	------	-----	-------	-------	------	--------	--------	-----	-------	-----	-----

2019/07/04 07:57:38.00 0.56 48.2140 21.3426 0.0 0 ke BUD 51012204 BUD 360
 2019/07/04 07:57:38.00 48.2470 21.2460 0.0 0.0 0 kx BUD_GT 51012204 BUD 360
 (GT info : GT2 explosion)
 (locality : Tállya Hungary)
 2019/07/04 07:57:37.33 1.94 1.20 48.2022 21.2915 6.1 4.9 128 0.0f 5 3 273 0.10 0.98 ke ILOC 71 ILOC 359
 (#PRIME)

Magnitude Err Nsta Author OrigID
 M 2.8 1 BUD 51012204
 MLv 2.8 0.0 1 BUD 51012204

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	0.10	339.8	Pg	07:57:40.471	0.6					T__		1667.1		___ ML	2.8	51012205	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.10	339.8	Lg	07:57:41.302	-0.8					T__				___		51012206	FDSN	HU	--	BUD	BUD	HHN	???	_
(Reading ML: 2.8 magdef=1 Station ML: 2.8 magdef=0)																								
PSZ	0.98	253.7	Lg	07:58:12.425	-0.7					T__				___		51012207	FDSN	GE	--	BUD	BUD	BHN	???	_
PSZI	0.98	253.6	I	08:03:12.959	1.2	76.9	4.3			TA_				___		91	FDSN	HN	--	BUD	BUD	BDF	???	_

Event bud2019myul Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/07/04	08:01:21.25	0.34	0.95	48.2312	18.7901				0.0	0.0	13	0	105	0.26	1.36	kx	BUD	51012371	BUD			360
2019/07/04	08:01:19.20	1.11	0.93	48.2064	18.8048	4.2	3.3	107	0.0f		15	9	106	0.29	1.34	kx	ILOC	72	ILOC			159
(Reading ML: 2.8 magdef=1 Station ML: 2.8 magdef=0) (#PRIME) (locality : Hontianske-Trstany Slovakia)																						

Magnitude Err Nsta Author OrigID
 MLv 2.1 1.0 3 BUD 51012371
 M 2.1 3 BUD 51012371
 ML 2.1 1.4 3 ILOC 66

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	0.29	4.1	Pg	08:01:25.570	0.4					T__		10.8		___ ML	1.1	51012372	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.29	4.1	Lg	08:01:30.036	0.4					T__				___		51012373	FDSN	SK	--	BUD	BUD	HHN	???	_
(Reading ML: 1.1 magdef=1 Station ML: 1.1 magdef=1)																								
SRO	0.51	220.2	Lg	08:01:39.072	1.6					T__				___		51012374	FDSN	SK	--	BUD	BUD	EHE	???	_
PSZI	0.79	111.2	I	08:05:39.735	-1.8	288.5	-3.5			TA_				___		92	FDSN	HN	--	BUD	BUD	BDF	???	_
PSZ	0.79	111.1	Lg	08:01:47.485	-0.7					T__				___		51012375	FDSN	GE	--	BUD	BUD	BHE	???	_
CSKK	0.92	203.7	Pn	08:01:38.882	0.6					T__		98.4		___ ML	3.0	51012377	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.92	203.7	Lg	08:01:51.086	-0.2					T__				___		51012376	FDSN	HU	--	BUD	BUD	HHE	???	_
(Reading ML: 3.0 magdef=1 Station ML: 3.0 magdef=1)																								
JAVC	1.00	311.3	Pn	08:01:39.730	0.0					T__				___		51012378	FDSN	CZ	--	BUD	BUD	BHZ	???	_
JAVC	1.00	311.3	Lg	08:01:53.787	0.0					T__				___		51012379	FDSN	CZ	--	BUD	BUD	BHN	???	_
MODS	1.03	279.9	Pn	08:01:39.626	-0.5					T__				___		51012381	FDSN	SK	--	BUD	BUD	HHZ	???	_
MODS	1.03	279.9	Lg	08:01:53.510	-1.6					T__				___		51012380	FDSN	SK	--	BUD	BUD	HHN	???	_
EGYH	1.27	232.0	Lg	08:02:02.788	0.0					T__				___		51012382	FDSN	HU	--	BUD	BUD	HHN	???	_
MPLH	1.34	220.0	Pg	08:01:45.962	0.0					T__		6.8		___ ML	2.1	51012384	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MPLH	1.34	220.0	Lg	08:02:04.312	-1.0					T__				___		51012383	FDSN	HU	--	BUD	BUD	BHN	???	_
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=1)																								

Event bud2019myun Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/07/04	08:03:55.28	0.47	0.96	48.5564	20.7703				0.0	0.0	9	0	148	0.20	1.29	kx	BUD	49994098	sysop			
2019/07/04	08:03:53.51	1.19	1.86	48.5636	20.7720	5.1	3.9	14	0.0f		11	6	150	0.21	1.29	kx	ILOC	73	ILOC			242

(#PRIME)

(locality : Dvorniky-Vcelare Slovakia)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.4	0.3	5 BUD	49994098
M	1.4		5 BUD	49994098
ML	1.3	0.0	5 ILOC	67

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	08:03:57.880	0.0					T__		84.3		___	ML	1.8	49994099	FDSN	SK	--	BUD	BUD	EHE	EHZ	_
KECS	0.21	247.2	Lg	08:04:02.252	1.1					T__				---		49994100	FDSN	SK	--	BUD	BUD	EHE	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=0)																									
ABAH	0.41	130.5	Pg	08:04:01.988	0.1					T__		6.8		___	ML	1.3	49994101	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.41	130.5	Lg	08:04:08.976	-0.0					T__				---		49994102	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=1)																									
PSZ	0.87	222.6	Pg	08:04:11.277	-0.6					T__		5.4		___	ML	1.7	49994103	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.87	222.6	Lg	08:04:24.147	-1.3					T__				---		49994104	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
PSZI	0.87	222.6	I	08:08:52.464	4.6	43.5	1.6			TA_				---		93	FDSN	HN	--	BUD	BUD	BDF	???	_	
NIE	0.91	340.2	Pn	08:04:13.990	1.1					T__		1.9		___	ML	1.3	49994105	FDSN	PL	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=1)																									
VYHS	1.29	267.6	Pg	08:04:18.683	-0.5					T__		0.8		___	ML	1.1	49994106	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	1.29	267.6	Sn	08:04:35.963	-1.4					T__				---		49994107	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.1 magdef=1)																									
(Station ML: 1.1 magdef=0)																									

Event bud2019ngeb Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/07/08	08:49:49.00		1.18	47.8930	18.9100				0.0								kx	BUD	51041747	BUD			360
2019/07/08	08:49:47.60	1.60	0.26	47.8631	18.8863	4.9	3.8	90	0.0f		6	4	136	0.63	0.68	kx	ILOC	74	ILOC				271

(#PRIME)

(locality : Márianosztra Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	0.7		1 BUD	51041747
MLv	0.7	0.0	1 BUD	51041747

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	0.63	357.0	Pg	08:50:00.633	0.2					T__		0.7		___	ML	0.7	51041749	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.63	357.0	Lg	08:50:09.807	-0.1					T__				---		51041748	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 0.7 magdef=1)																									
(Station ML: 0.7 magdef=0)																									

CSKK	0.66	220.5	Lg	08:50:10.604	-0.3					T__						51041751	FDSN	HU	--	BUD	BUD	HHZ	???	_
PSZI	0.68	85.0	I	08:53:32.505	-0.0	267.9	2.2			TA_						95	FDSN	HN	--	BUD	BUD	BDF	???	_
PSZ	0.68	85.0	Lg	08:50:12.785	-0.2					T__						51041750	FDSN	GE	--	BUD	BUD	BHN	???	_

Event bud2019niaw Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/07/09	09:29:35.00		3.34	47.2216	18.2562				0.0			0					kx BUD	51020589	sysop			
2019/07/09	09:29:35.00			47.2302	18.2835				0.0	0.0		0					kx BUD_GT	51020589	BUD			360
(GT info : GT2 explosion)																						
(locality : Iszkaszentgyörgy Hungary)																						
2019/07/09	09:29:35.21	1.80	0.83	47.2219	18.4063	7.1	4.8	141	0.0f		6	3	210	0.17	1.22		ke ILOC	75	ILOC			300
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
M	1.7	2	BUD	51020589
MLv	1.7	0.6	2 BUD	51020589

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	0.17	325.0	Pg	09:29:39.719	0.4					T__		288.6		___	ML	2.2	51020590	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.17	325.0	Lg	09:29:42.280	-0.3					T__				___		51020591	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.2 magdef=1)																									
(Station ML: 2.2 magdef=0)																									
MPLH	0.59	265.3	Pg	09:29:47.753	0.2					T__		3.8		___	ML	1.4	51020593	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MPLH	0.59	265.3	Lg	09:29:56.037	-0.7					T__				___		51020592	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=0)																									
PSZI	1.22	54.8	I	09:36:45.262	-1.1	235.2	-0.7			TA_				___		99	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019njql Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/07/10	06:29:44.00		0.68	47.3345	18.3362				0.0			0					kx BUD	51021996	sysop			
2019/07/10	06:29:41.57	1.61	0.60	47.3578	18.3830	6.4	5.1	161	0.0f		5	3	147	0.08	1.17		kx ILOC	76	ILOC			257
(#PRIME)																						
(locality : Magyaralmás Hungary)																						

Magnitude	Err	Nsta	Author	OrigID
M	3.0	1	BUD	51021996
MLv	3.0	0.0	1 BUD	51021996

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	0.08	273.7	Pg	06:29:44.251	0.4					T__		3118.7		___	ML	3.0	51021997	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.08	273.7	Lg	06:29:45.205	-0.7					T__				___		51021998	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 3.0 magdef=1)																									
(Station ML: 3.0 magdef=0)																									
MORH	1.16	171.0	Sn	06:30:21.556	-0.0					T__				___		51021999	FDSN	HU	--	BUD	BUD	BHE	???	_	
PSZI	1.17	60.7	I	06:36:28.338	-0.4	239.5	-2.3			TA_				___		100	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event aegean04 Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/07/10	19:10:00.00			39.7000	24.4500				0.0			0					kx BUD	4	BUD			360

2019/07/10 19:10:00.00f 0.15 40.3122 23.2516 31.3 3.8 67 0.0f 6 4 314 7.44 11.89 kx ILOC 77 ILOC 341
 (#PRIME)
 (shockwave from supersonic flight)

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
BURAR	7.44	10.3	I	19:53:04.047	-85.2	186.5	-5.2			_A_						1	FDSN	HN	--	BUD	BUD	BDF	???	_
PSZI	7.98	343.5	I	19:57:41.521	0.2	156.2	-5.0			TA_						1	FDSN	HN	--	BUD	BUD	BDF	???	_
I26DE	10.91	324.7	I	20:20:00.000	287.7	137.9	-0.1			_A_						1	FDSN	HN	--	BUD	BUD	BDF	???	_
PVCI	11.89	332.1	I	20:21:04.315	-0.2	141.5	-4.4			TA_						1	FDSN	HN	--	BUD	BUD	BDF	???	_

Event bud2019nlrn Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/07/11	09:18:35.06	0.49	0.28	46.9920	22.2874				0.0	0.0	8	0	157	0.35	1.15	kx	BUD	50475691	sysop			
2019/07/11	09:18:33.92	1.20	1.86	46.9646	22.3102	5.7	3.9	24	0.0f		10	6	90	0.32	1.90	kx	ILOC	78	ILOC			179

(#PRIME)
 (locality : Subpiatra Romania)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.9	0.5	5 BUD	50475691
M	1.9		5 BUD	50475691
ML	1.7	0.2	5 ILOC	71

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	0.32	122.0	Pg	09:18:41.628	0.9					T__		32.3		_c_ ML	1.7	50475693	FDSN	RO	--	BUD	BUD	BH	BHZ	_		
DRGR	0.32	122.0	Lg	09:18:46.310	-0.1					T__						50475692	FDSN	RO	--	BUD	BUD	BHN	???	_		
(Reading ML: 1.7 magdef=1 (Station ML: 1.7 magdef=1)																										
SIRR	0.83	213.0	Pg	09:18:51.195	0.3					T__		4.2		___ ML	1.6	50475695	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_		
SIRR	0.83	213.0	Lg	09:19:02.391	-1.2					T__						50475694	FDSN	RO	--	BUD	BUD	BHN	???	_		
(Reading ML: 1.6 magdef=1 (Station ML: 1.6 magdef=1)																										
CJR	0.92	105.4	Pg	09:18:53.104	1.1					T__		33.4		___ ML	2.5	50475697	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_		
CJR	0.92	105.4	Lg	09:19:05.241	-1.2					T__						50475696	FDSN	RO	--	BUD	BUD	BHN	???	_		
(Reading ML: 2.5 magdef=1 (Station ML: 2.5 magdef=0)																										
BMR	1.07	48.2	Pn	09:18:55.903	0.0					T__		17.6		___ ML	2.3	50475698	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_		
(Reading ML: 2.3 magdef=1 (Station ML: 2.3 magdef=1)																										
TRPA	1.18	7.5	Pg	09:18:56.463	-0.3					T__		1.7		___ ML	1.4	50475699	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_		
(Reading ML: 1.4 magdef=1 (Station ML: 1.4 magdef=0)																										
PSZI	1.90	301.1	I	09:30:30.400	4.4	118.8	-0.5			TA_						101	FDSN	HN	--	BUD	BUD	BDF	???	_		

Event bud2019nnjy Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/07/12	07:45:13.00		0.54	47.8099	19.4200				0.0								kx	BUD	51023535	sysop		
2019/07/12	07:45:13.00			47.8920	19.4049				0.0	0.0							kx	BUD_GT	51023535	BUD		360
(GT info : GT2 explosion) (locality : Bercel Hungary)																						
2019/07/12	07:45:12.78	1.58	2.98	47.8900	19.4363	4.6	1.9	81	0.0f		6	3	241	0.31	0.73	ke	ILOC	79	ILOC			359

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
M	1.2	2	BUD	51023535
MLv	1.2 0.2	2	BUD	51023535

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	0.31	84.6	I	07:46:57.609	5.1	266.9	1.9			TA_				---		102	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.31	84.6	Pg	07:45:19.326	-0.5					T__		12.6		---	ML	1.3	51023536	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.31	84.6	Lg	07:45:24.698	-0.5					T__				---		51023537	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=0)																									
VYHS	0.73	326.6	Pg	07:45:28.112	0.7					T__		1.5		---	ML	1.1	51023538	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.73	326.6	Lg	07:45:38.154	-0.1					T__				---		51023539	FDSN	SK	--	BUD	BUD	HHZ	???	_	
(Reading ML: 1.1 magdef=1)																									
(Station ML: 1.1 magdef=0)																									

Event bud2019nwm Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/07/17	07:15:29.87	0.54	0.04	48.6779	18.6081				0.0	0.0	5	0	172	0.24	1.30	kx	BUD	51024516	sysop			
2019/07/17	07:15:29.87f		6.09	48.5982	18.5958	6.0	4.1	32	0.0f		7	5	153	0.19	1.37	kx	ILOC	80	ILOC			189

(#PRIME)

(locality : Kamenec-pod-Vtacnikom Slovakia)

Magnitude	Err	Nsta	Author	OrigID
MLv	0.6 0.0	1	BUD	51024516
M	0.6	1	BUD	51024516

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	0.19	123.0	Pg	07:15:34.623	0.7					T__		4.1		---	ML	0.4	51024517	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.19	123.0	Lg	07:15:36.983	0.1					T__				---		51024518	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 0.4 magdef=1)																									
(Station ML: 0.4 magdef=0)																									
JAVC	0.67	293.4	Lg	07:15:50.489	-2.8					T__				---		51024519	FDSN	CZ	--	BUD	BUD	BHE	???	_	
MODS	0.91	256.1	Lg	07:16:00.129	-1.3					T__				---		51024520	FDSN	SK	--	BUD	BUD	HHE	???	_	
PSZI	1.10	127.6	I	07:21:39.062	-13.0	309.9	1.3			TA_				---		103	FDSN	HN	--	BUD	BUD	BDF	???	_	
MORC	1.37	330.0	Lg	07:16:11.376	-2.8					T__				---		51024521	FDSN	CZ	--	BUD	BUD	BHE	???	_	

Event bud2019nyhw Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/07/18	07:12:06.14	0.69	0.32	48.6147	19.3326				0.0	0.0	6	0	209	0.35	0.79	kx	BUD	51024754	sysop			
2019/07/18	07:12:05.28	1.56	0.54	48.5524	19.3627	5.1	3.7	175	0.0f		7	3	194	0.35	0.75	kx	ILOC	81	ILOC			304

(#PRIME)

(locality : Viglas Slovakia)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.3 0.7	3	BUD	51024754
M	1.3	3	BUD	51024754
ML	1.5 0.6	3	ILOC	74

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	0.35	260.7	Pg	07:12:12.979	0.4	T__	1.8	___	ML	0.5	51024756	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.35	260.7	Lg	07:12:17.246	-0.7	T__		___			51024755	FDSN	SK	--	BUD	BUD	HHN	???	_
(Reading ML: 0.5 magdef=1)																			
(Station ML: 0.5 magdef=1)																			
PSZ	0.73	150.5	Pg	07:12:20.761	0.0	T__	3.7	___	ML	1.5	51024757	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.73	150.5	Lg	07:12:31.807	-0.3	T__		___			51024758	FDSN	GE	--	BUD	BUD	BHN	???	_
(Reading ML: 1.5 magdef=1)																			
(Station ML: 1.5 magdef=1)																			
PSZI	0.73	150.6	I	07:16:07.544	0.6	TA_		___		104		FDSN	HN	--	BUD	BUD	BDF	???	_
KECS	0.75	94.9	Pn	07:12:20.861	-1.2	___	9.3	___	ML	1.9	51024760	FDSN	SK	--	BUD	BUD	EHN	EHZ	_
KECS	0.75	94.9	Lg	07:12:31.506	0.0	T__		___			51024759	FDSN	SK	--	BUD	BUD	EHN	???	_
(Reading ML: 1.9 magdef=1)																			
(Station ML: 1.9 magdef=1)																			

Event bud2019nyrna Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/07/18	09:18:36.15	0.45	0.63	47.0114	22.2577				0.0	0.0	13	0	160	0.38	1.66	kx	BUD	50475244	sysop			
2019/07/18	09:18:34.96	1.10	1.09	46.9935	22.2928	5.6	3.9	20	0.0f		15	9	89	0.35	1.87	kx	ILOC	82	ILOC			157

(#PRIME)

(locality : Tetchea Romania)

Magnitude	Err	Nsta	Author	OrigID
MLv	2.0	0.4	6 BUD	50475244
M	2.0		6 BUD	50475244
ML	2.0	0.4	8 ILOC	75

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	125.0	Pg	09:18:42.646	0.3					T__		34.1		___	ML	1.8	50475245	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
DRGR	0.35	125.0	Lg	09:18:47.429	-0.9					T__				___		50475246	FDSN	RO	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
SIRR	0.85	211.2	Pg	09:18:52.518	0.2					T__		3.7		___	ML	1.5	50475247	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
SIRR	0.85	211.2	Lg	09:19:04.020	-1.3					T__				___		50475248	FDSN	RO	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									
CJR	0.94	106.9	Pn	09:18:55.165	0.2					T__		44.2		___	ML	2.7	50475250	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
CJR	0.94	106.9	Lg	09:19:07.480	-0.6					T__				___		50475249	FDSN	RO	--	BUD	BUD	BHN	???	_	
(Reading ML: 2.7 magdef=1)																									
(Station ML: 2.7 magdef=0)																									
BMR	1.06	49.8	Pn	09:18:56.997	0.2					T__		17.2		___	ML	2.3	50475251	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 2.3 magdef=1)																									
(Station ML: 2.3 magdef=1)																									
TRPA	1.15	8.3	Pn	09:18:57.517	-0.3					T__		1.7		___	ML	1.4	50475252	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=0)																									
DEV	1.19	159.0	Pn	09:18:59.044	1.1					T__		23.2		___	ML	2.5	50475253	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 2.5 magdef=1)																									
(Station ML: 2.5 magdef=1)																									
BZS	1.45	199.0	Pn	09:19:01.486	-0.1					T__		3.0		___	ML	1.8	50475254	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
BZS	1.45	199.0	Sn	09:19:21.741	-0.8					T__				___		50475255	FDSN	RO	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									

GZR 1.64 168.0 Pg 09:19:06.168 -0.0 T__ 5.5 ___ ML 2.1 50475257 FDSN RO -- BUD BUD BHZ BHZ _
 GZR 1.64 168.0 Sn 09:19:29.069 1.5 T__ ___ 50475256 FDSN RO -- BUD BUD BHE ??? _
 (Reading ML: 2.1 magdef=1
 (Station ML: 2.1 magdef=1
 PSZI 1.87 300.5 I 09:30:19.396 2.6 117.8 -0.9 TA_ ___ 105 FDSN HN -- BUD BUD BDF ??? _

Event bud2019nynt Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/07/18	10:10:49.00		0.76	47.8537	19.1258				0.0			0					kx BUD	51024937	sysop			
2019/07/18	10:10:48.17	1.87	0.71	47.8594	19.1290	5.6	3.1	78	0.0f		5	3	259	0.52	0.66		kx ILOC	83	ILOC			359

(#PRIME)
 (locality : Sejce-Vác Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.4	1	BUD	51024937
MLv	1.4	0.0	1 BUD	51024937

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	0.52	83.2	I	10:13:38.020	0.7	263.6	-0.2			TA_						106	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.52	83.2	Pg	10:10:59.744	0.3					T__		4.5		___	ML	1.4	51024938	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.52	83.2	Lg	10:11:07.276	-0.6					T__				___		51024939	FDSN	GE	--	BUD	BUD	BHN	???	_	

(Reading ML: 1.4 magdef=1
 (Station ML: 1.4 magdef=0
 VYHS 0.66 343.0 Lg 10:11:11.443 -0.1 T__ ___ 51024940 FDSN SK -- BUD BUD HHN ??? _

Event bud2019ofpx Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/07/22	07:12:39.42	0.71	0.71	47.9119	20.0251				0.0	0.0	8	0	209	0.09	0.99		kx BUD	50555229	sysop				
2019/07/22	07:12:39.42			47.8987	20.0893				0.0	0.0		0					kx BUD_GT	50555229	BUD				360

(GT info : GT2 explosion)
 (locality : Recsk Hungary)
 2019/07/22 07:12:37.73 1.39 3.38 47.9028 20.0457 3.8 0.6 98 0.0f 10 5 215 0.10 1.00 ke ILOC 84 ILOC 251
 (#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.8	0.2	4 BUD	50555229
M	1.8		4 BUD	50555229
ML	1.8	0.1	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	
PSZ	0.10	278.8	Pg	07:12:40.169	-0.4					T__		154.0		___	ML	1.8	50555230	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.10	278.8	Lg	07:12:43.075	0.1					T__				___		50555231	FDSN	GE	--	BUD	BUD	BHN	???	_	

(Reading ML: 1.8 magdef=1
 (Station ML: 1.8 magdef=1
 PSZI 0.10 278.5 I 07:13:19.524 8.5 97.2 -1.1 TA_ ___ 107 FDSN HN -- BUD BUD BDF ??? _
 KECS 0.65 26.7 Pg 07:12:52.050 1.3 T__ ___ 13.0 ___ ML 2.0 50555232 FDSN SK -- BUD BUD EHN EHZ _
 KECS 0.65 26.7 Lg 07:13:00.233 -0.5 T__ ___ 50555233 FDSN SK -- BUD BUD EHE ??? _
 (Reading ML: 2.0 magdef=1
 (Station ML: 2.0 magdef=1
 ABAH 0.89 63.4 Pg 07:12:56.505 1.1 T__ ___ 7.3 ___ ML 1.9 50555234 FDSN HU -- BUD BUD HHZ HHZ _
 ABAH 0.89 63.4 Lg 07:13:08.925 -1.2 T__ ___ 50555235 FDSN HU -- BUD BUD HHN ??? _

(Reading ML: 1.9 magdef=1
 (Station ML: 1.9 magdef=1
 VYHS 1.00 306.6 Pg 07:12:57.604 -0.2 T__ 3.4 ___ ML 1.6 50555236 FDSN SK -- BUD BUD HHZ HHZ _
 VYHS 1.00 306.6 Lg 07:13:11.142 -1.5 T__ ___ 50555237 FDSN SK -- BUD BUD HHN ??? _
 (Reading ML: 1.6 magdef=1
 (Station ML: 1.6 magdef=1

Event bud2019ofuk Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/07/22	09:29:26.85	0.46	0.80	48.8297	20.0547				0.4	3.4	9	0	107	0.61	1.40		kx BUD	50555401	sysop			
2019/07/22	09:29:25.83	1.16	0.82	48.7880	20.0796	4.1	3.9	111	0.0f		11	6	109	0.65	1.44		kx ILOC	85	ILOC			175

(#PRIME)
 (locality : Cervena-Skala Slovakia)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.4	0.3	5 BUD	50555401
M	1.4		5 BUD	50555401
ML	1.6	0.0	5 ILOC	78

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	
NIE	0.65	12.8	Pg	09:29:37.956	-0.1					T__		1.9		___	ML	1.1	50555402	FDSN	PL	--	BUD	BUD	BHZ	BHZ	_
NIE	0.65	12.8	Lg	09:29:46.480	-1.0					T__				___		50555403	FDSN	PL	--	BUD	BUD	BHZ	???	_	
(Reading ML: 1.1 magdef=1 (Station ML: 1.1 magdef=1																									
VYHS	0.88	250.8	Pg	09:29:43.427	0.1					T__		0.9		___	ML	0.9	50555404	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.88	250.8	Lg	09:29:54.966	-1.2					T__				___		50555405	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 0.9 magdef=1 (Station ML: 0.9 magdef=0																									
PSZ	0.88	188.1	Pg	09:29:44.802	0.5					T__		4.4		___	ML	1.6	50555406	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.88	188.1	Lg	09:29:56.708	-1.2					T__				___		50555407	FDSN	GE	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.6 magdef=1 (Station ML: 1.6 magdef=1																									
PSZI	0.88	188.2	I	09:34:23.092	0.6	10.3	2.3			TA_				___		108	FDSN	HN	--	BUD	BUD	BDF	???	_	
ABAH	0.91	122.1	Pg	09:29:43.529	-0.3					T__		4.3		___	ML	1.6	50555408	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.91	122.1	Lg	09:29:58.508	-0.3					T__				___		50555409	FDSN	HU	--	BUD	BUD	HHE	???	_	
(Reading ML: 1.6 magdef=1 (Station ML: 1.6 magdef=1																									
OJC	1.44	352.8	Pn	09:29:53.900	0.9					T__		2.8		___	ML	1.8	50555410	FDSN	PL	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.8 magdef=1 (Station ML: 1.8 magdef=0																									

Event bud2019oley Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/07/25	08:29:34.92	0.65	0.13	48.3925	19.0651				0.0	0.0	4	0	186	0.18	1.19		kx BUD	51026241	sysop			
2019/07/25	08:29:33.23	1.58	1.71	48.3324	19.0359	4.4	4.3	130	0.0f		6	4	164	0.21	1.17		kx ILOC	86	ILOC			212

(#PRIME)
 (locality : Krupina Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.1		1 BUD	51026241
MLv	1.1	0.0	1 BUD	51026241

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	0.21	320.6	Pg	08:29:38.368	0.7					T__		18.5		___ ML	1.1	51026243	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.21	320.6	Lg	08:29:40.426	-0.6					T__				___		51026242	FDSN	SK	--	BUD	BUD	HHN	???	_
(Reading ML: 1.1 magdef=1 Station ML: 1.1 magdef=0)																								
PSZI	0.71	125.5	I	08:33:30.707	2.5	311.1	5.0			TA_				___		109	FDSN	HN	--	BUD	BUD	BDF	???	_
PSZ	0.71	125.4	Lg	08:29:58.401	-1.1					T__				___		51026244	FDSN	GE	--	BUD	BUD	BHZ	???	_
MODS	1.17	272.7	Lg	08:30:13.112	-0.7					T__				___		51026245	FDSN	SK	--	BUD	BUD	HHE	???	_

Event bud2019oztv Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2019/08/02	07:54:53.94	0.39	0.28	48.3012	21.4735				0.0	0.0	7	0	147	0.16	1.13	kx	BUD	51870612	sysop					
2019/08/02	07:54:52.02	1.30	1.61	48.2701	21.4630	6.2	4.8	18	0.0f		8	5	151	0.15	1.11	kx	ILOC	87	ILOC			213		
(#PRIME) (locality : Sáropatak Hungary)																								

Magnitude	Err	Nsta	Author	OrigID
MLv	2.1	1.6	3 BUD	51870612
M	2.1		3 BUD	51870612
ML	1.4	0.6	3 ILOC	80

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	0.15	280.0	Pg	07:54:56.678	1.1					T__		45.9		___ ML	1.4	51870613	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.15	280.0	Lg	07:54:58.184	-0.4					T__				___		51870614	FDSN	HU	--	BUD	BUD	HHE	???	_
(Reading ML: 1.4 magdef=1 Station ML: 1.4 magdef=1)																								
TRPA	0.73	100.6	Pg	07:55:08.008	1.6					T__		1.2		___ ML	1.0	51870615	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
TRPA	0.73	100.6	Lg	07:55:17.397	-1.6					T__				___		51870616	FDSN	HU	--	BUD	BUD	BHN	???	_
(Reading ML: 1.0 magdef=1 Station ML: 1.0 magdef=1)																								
KOLS	0.85	38.7	Pg	07:55:09.682	1.4					T__		882.1		___ ML	3.9	51870618	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
KOLS	0.85	38.7	Lg	07:55:20.761	-1.6					T__				___		51870617	FDSN	SK	--	BUD	BUD	HHN	???	_
(Reading ML: 3.9 magdef=1 Station ML: 3.9 magdef=1)																								
PSZ	1.11	252.1	Sn	07:55:30.669	-1.5					T__				___		51870619	FDSN	GE	--	BUD	BUD	BHN	???	_
PSZI	1.11	252.1	I	08:02:56.791	99.8	72.2	1.3			_A_				___		110	FDSN	HN	--	BUD	BUD	BDF	???	_

Event bud2019ozvd Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2019/08/02	08:35:19.25	0.33	0.68	48.3390	19.8221				0.0	0.0	10	0	110	0.42	1.13	kx	BUD	51870933	sysop					
2019/08/02	08:35:17.86	1.33	1.32	48.3241	19.8288	4.0	2.2	175	0.0f		12	7	110	0.41	1.14	kx	ILOC	88	ILOC			170		
(#PRIME) (locality : Velke-Dravce Slovakia)																								

Magnitude	Err	Nsta	Author	OrigID
MLv	1.6	0.3	5 BUD	51870933
M	1.6		5 BUD	51870933
ML	1.7	0.1	5 ILOC	81

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	173.8	Pg	08:35:26.882	0.0	T__	19.5	_c_	ML	1.7	51870934	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.41	173.8	Lg	08:35:33.309	-0.3	T__		---			51870935	FDSN	GE	--	BUD	BUD	BHN	???	_
(Reading ML: 1.7 magdef=1)																			
(Station ML: 1.7 magdef=1)																			
PSZI	0.41	173.9	I	08:37:33.748	3.2	TA_		---		111		FDSN	HN	--	BUD	BUD	BDF	???	_
KECS	0.47	69.8	Pg	08:35:26.832	-0.4	T__	20.7	---	ML	1.9	51870937	FDSN	SK	--	BUD	BUD	EHN	EHZ	_
KECS	0.47	69.8	Lg	08:35:33.962	-0.5	T__		---			51870936	FDSN	SK	--	BUD	BUD	EHN	???	_
(Reading ML: 1.9 magdef=1)																			
(Station ML: 1.9 magdef=0)																			
VYHS	0.68	284.8	Pg	08:35:31.602	-0.0	T__	2.6	---	ML	1.3	51870938	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.68	284.8	Lg	08:35:41.092	-0.7	T__		---			51870939	FDSN	SK	--	BUD	BUD	HHN	???	_
(Reading ML: 1.3 magdef=1)																			
(Station ML: 1.3 magdef=0)																			
LANS	0.86	344.0	Lg	08:35:47.317	-0.1	T__		---			51870940	FDSN	SK	--	BUD	BUD	EHN	???	_
ABAH	0.94	91.2	Pg	08:35:37.527	1.1	T__	6.2	---	ML	1.8	51870941	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.94	91.2	Lg	08:35:50.581	-1.3	T__		---			51870942	FDSN	HU	--	BUD	BUD	HHE	???	_
(Reading ML: 1.8 magdef=1)																			
(Station ML: 1.8 magdef=1)																			
NIE	1.14	15.7	Pg	08:35:40.389	1.1	T__	1.8	---	ML	1.4	51870943	FDSN	PL	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.4 magdef=1)																			
(Station ML: 1.4 magdef=1)																			

Event bud2019pfgv Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/08/05	08:09:42.79	0.97	0.37	47.8113	19.3521				0.0	0.0	6	0	219	0.38	1.50	kx	BUD	51872684	sysop				
2019/08/05	08:09:42.79			47.9151	19.4088				0.0							kx	BUD_GT	51872684	BUD				
(GT info : GT2 explosion)																							
(locality : Szanda Hungary)																							
2019/08/05	08:09:42.63	1.34	0.59	47.9126	19.4179	4.2	1.9	86	0.0f		8	5	199	0.32	1.51	ke	ILOC	89	ILOC			237	
(#PRIME)																							

Magnitude	Err	Nsta	Author	OrigID
MLv	1.4	0.5	2 BUD	51872684
M	1.4		2 BUD	51872684

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	0.32	88.9	I	08:11:26.245	0.2	270.8	1.6			TA_				---		112	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.32	88.8	Pg	08:09:49.924	0.0					T__		22.3		---	ML	1.5	51872685	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.32	88.8	Lg	08:09:55.246	-0.2					T__				---		51872686	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=0)																									
VYHS	0.70	326.4	Pg	08:09:57.104	0.3					T__		1.3		---	ML	1.0	51872687	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.70	326.4	Lg	08:10:07.689	0.5					T__				---		51872688	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=0)																									
KECS	0.91	51.0	Lg	08:10:15.170	0.6					T__				---		51872689	FDSN	SK	--	BUD	BUD	EHE	???	_	
MODS	1.51	288.6	Sn	08:10:30.192	-1.0					T__				---		51872690	FDSN	SK	--	BUD	BUD	HHE	???	_	

Event bud2019pfke Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2019/08/05	09:51:58.67	0.34	0.54	48.5631	20.4027				0.0	0.0	10	0	89	0.10	1.04	kx	BUD	51021168	sysop					

2019/08/05 09:51:57.43 1.16 2.29 48.5548 20.3957 4.3 3.3 21 0.0f 12 7 88 0.09 1.04 kx ILOC 90 ILOC 147
 (#PRIME)
 (locality : Slavec Slovakia)

Magnitude Err Nsta Author OrigID
 MLv 1.7 0.1 5 BUD 51021168
 M 1.7 5 BUD 51021168
 ML 1.7 0.0 5 ILOC 83

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	0.09	140.1	Pg	09:51:59.411	-0.1					T__		176.2		___ ML	1.8	51021169	FDSN	SK	--	BUD	BUD	EHE	EHZ	_	
KECS	0.09	140.1	Lg	09:52:01.015	-0.2					T__				___		51021170	FDSN	SK	--	BUD	BUD	EHE	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=0)																									
ABAH	0.62	114.4	Pg	09:52:11.188	1.4					T__		5.2		___ ML	1.6	51021172	FDSN	HU	--	BUD	BUD	HHE	HHZ	_	
ABAH	0.62	114.4	Lg	09:52:18.646	-1.5					T__				___		51021171	FDSN	HU	--	BUD	BUD	HHE	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=0)																									
PSZ	0.72	207.9	Pg	09:52:12.699	0.0					T__		6.0		___ ML	1.7	51021173	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_	
PSZ	0.72	207.9	Lg	09:52:22.233	-1.8					T__				___		51021174	FDSN	GE	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
PSZI	0.72	208.0	I	09:56:02.744	6.2	29.0	1.4			TA_				___		113	FDSN	HN	--	BUD	BUD	BDF	???	_	
NIE	0.87	355.8	Lg	09:52:25.758	-0.5					T__				___		51021175	FDSN	PL	--	BUD	BUD	BHE	???	_	
STHS	1.03	32.6	Pn	09:52:18.781	0.3					T__		5.0		___ ML	1.8	51021176	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
VYHS	1.04	267.2	Pg	09:52:18.890	0.7					T__		3.9		___ ML	1.7	51021177	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_	
VYHS	1.04	267.2	Lg	09:52:32.377	-1.0					T__				___		51021178	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									

Event bud2019phhq Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/08/06	10:50:43.69	1.83	0.32	47.8436	20.0565				0.0	0.0	5	0	280	0.13	1.04	kx	BUD	51872862	sysop			
2019/08/06	10:50:42.80	1.48	1.86	47.8933	20.0677	5.3	0.7	102	0.0f		7	4	256	0.12	1.02	kx	ILOC	91	ILOC			335
#PRIME)																						
(locality : Kisnána Hungary)																						

Magnitude Err Nsta Author OrigID
 MLv 1.2 0.4 2 BUD 51872862
 M 1.2 2 BUD 51872862

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	282.2	Pg	10:50:46.058	0.1					T__		62.1		___ ML	1.4	51872863	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_	
PSZ	0.12	282.2	Lg	10:50:47.765	-0.8					T__				___		51872864	FDSN	GE	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.4 magdef=1 Station ML: 1.4 magdef=0)																									
PSZI	0.12	281.9	I	10:51:24.621	3.3	96.5	-5.3			TA_				___		114	FDSN	HN	--	BUD	BUD	BDF	???	_	
KECS	0.65	25.2	Lg	10:51:06.192	0.3					T__				___		51872865	FDSN	SK	--	BUD	BUD	EHE	???	_	
VYHS	1.02	306.6	Pn	10:51:03.882	0.4					T__		0.6		___ ML	0.8	51872867	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_	
VYHS	1.02	306.6	Lg	10:51:16.987	-1.3					T__				___		51872866	FDSN	SK	--	BUD	BUD	HHN	???	_	

(Reading ML: 0.8 magdef=1
(Station ML: 0.8 magdef=0

Event bud2019phic Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/08/06	11:04:25.71	0.79	0.74	47.9204	20.0410				0.0	0.0	6	0	204	0.10	0.99	kx	BUD	51872919	sysop			
2019/08/06	11:04:23.54	1.50	1.23	47.9189	20.0795	4.4	1.2	90	0.0f		8	5	205	0.12	1.01	kx	ILOC	92	ILOC			244

(#PRIME)
(locality : Kisdána Hungary)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.5	0.4	2 BUD	51872919
M	1.5		2 BUD	51872919

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	269.8	Pg	11:04:26.510	-0.3					T__		149.8		___	ML	1.8	51872920	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.12	269.8	Lg	11:04:29.523	0.0					T__				___		51872921	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.8 magdef=1 (Station ML: 1.8 magdef=0																									
PSZI	0.13	269.6	I	11:05:05.822	2.1	96.6	7.1			TA_				___		115	FDSN	HN	--	BUD	BUD	BDF	???	_	
KECS	0.63	25.5	Lg	11:04:46.192	0.5					T__				___		51872922	FDSN	SK	--	BUD	BUD	EHE	???	_	
ABAH	0.86	63.7	Lg	11:04:54.527	-0.4					T__				___		51872923	FDSN	HU	--	BUD	BUD	HHE	???	_	
VYHS	1.01	305.1	Pg	11:04:44.636	0.8					T__		1.3		___	ML	1.2	51872925	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	1.01	305.1	Lg	11:04:57.338	-1.4					T__				___		51872924	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.2 magdef=1 (Station ML: 1.2 magdef=0																									

Event bud2019piyb Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2019/08/07	08:16:21.49	0.46	0.57	47.7700	19.0425				0.0	0.0	5	0	116	0.29	0.74	kx	BUD	51875284	sysop					
2019/08/07	08:16:21.49			47.7791	19.0372				0.0								kx	BUD_GT	51875284	BUD				

(GT info : GT2 explosion)
(locality : Dunabogdány Hungary)

2019/08/07	08:16:19.15	1.57	0.43	47.7697	19.0580	4.7	3.2	82	0.0f		7	5	115	0.29	0.74	ke	ILOC	93	ILOC					201
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(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.5	0.0	1 BUD	51875284
M	1.5		1 BUD	51875284

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	0.29	184.6	Lg	08:16:30.539	0.0					T__				___		51875285	FDSN	HU	--	BUD	BUD	BHN	???	_	
PSZI	0.58	74.9	I	08:19:29.440	-0.7	257.4	1.9			TA_				___		116	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.58	74.9	Pg	08:16:31.845	0.1					T__		5.1		___	ML	1.5	51875287	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.58	74.9	Lg	08:16:40.983	-0.2					T__				___		51875286	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.5 magdef=1 (Station ML: 1.5 magdef=0																									
CSKK	0.68	233.3	Lg	08:16:42.790	-0.4					T__				___		51875288	FDSN	HU	--	BUD	BUD	HHE	???	_	
VYHS	0.74	348.5	Lg	08:16:45.401	0.3					T__				___		51875289	FDSN	SK	--	BUD	BUD	HHN	???	_	

Event bud2019pjbh Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/08/07	09:55:16.49	0.56	0.46	46.1013	21.7584				0.1	2.7	11	0	148	0.18	1.55	kx	BUD	51047076	sysop			
2019/08/07	09:55:15.25	1.09	0.87	46.1312	21.7713	5.9	3.3	62	0.0f		13	7	133	0.16	2.20	kx	ILOC	94	ILOC			188

(#PRIME)
(locality : Lipova Romania)

Magnitude	Err	Nsta	Author	OrigID
MLv	2.0	0.4	6 BUD	51047076
M	2.0		6 BUD	51047076
ML	2.0	0.2	6 ILOC	87

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	0.16	330.4	Pg	09:55:19.226	0.2					T__		67.7		___	ML	1.6	51047077	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
SIRR	0.16	330.4	Lg	09:55:21.876	-0.2					T__				___		51047078	FDSN	RO	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																									
BZS	0.53	191.9	Pg	09:55:25.718	-0.0					T__		3.3		___	ML	1.3	51047079	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
BZS	0.53	191.9	Lg	09:55:32.600	-1.0					T__				___		51047080	FDSN	RO	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.3 magdef=1 Station ML: 1.3 magdef=0)																									
DRGR	0.93	44.2	Pn	09:55:35.221	0.4					T__		18.0		___	ML	2.3	51047081	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
DRGR	0.93	44.2	Lg	09:55:47.232	-1.8					T__				___		51047082	FDSN	RO	--	BUD	BUD	BHE	???	_	
(Reading ML: 2.3 magdef=1 Station ML: 2.3 magdef=1)																									
GZR	1.02	136.0	Pg	09:55:35.295	0.5					T__		7.6		___	ML	1.9	51047083	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
GZR	1.02	136.0	Lg	09:55:48.568	-0.8					T__				___		51047084	FDSN	RO	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																									
CJR	1.39	64.6	Pg	09:55:43.148	0.6					T__		17.8		___	ML	2.5	51047085	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 2.5 magdef=1 Station ML: 2.5 magdef=0)																									
LOT	1.56	115.3	Pn	09:55:44.768	1.2					T__		6.1		___	ML	2.2	51047087	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
LOT	1.56	115.3	Sn	09:56:05.206	-0.8					T__				___		51047086	FDSN	RO	--	BUD	BUD	BHN	???	_	
(Reading ML: 2.2 magdef=1 Station ML: 2.2 magdef=1)																									
PSZI	2.20	325.0	I	10:09:08.221	-0.2	143.2	-0.4			TA_				___		117	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019pkzq Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/08/08	11:19:40.00		0.38	47.8780	19.1449				0.0			0					kx	BUD	51967339	BUD			360
2019/08/08	11:19:40.00			47.8355	19.1270				0.0	0.0		0					kx	BUD_GT	51967339	BUD			360

(GT info : GT2 explosion)
(locality : Sejce-Vác Hungary)

2019/08/08	11:19:37.82	1.87	0.40	47.8391	19.1482	5.6	3.0	76	0.0f		5	3	261	0.51	0.69	ke	ILOC	95	ILOC				359
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(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
M	1.3		1 BUD	51967339
MLv	1.3	0.0	1 BUD	51967339

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
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ML 1.6 0.2 5 ILOC 90

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	0.33	131.1	Pg	08:21:21.405	0.9					T__		13.0		___ ML	1.3	51393467	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
DRGR	0.33	131.1	Lg	08:21:26.426	0.2					T__				___		51393468	FDSN	RO	--	BUD	BUD	BHE	???	_
(Reading ML: 1.3 magdef=1)																								
(Station ML: 1.3 magdef=1)																								
SIRR	0.88	213.0	Pg	08:21:31.548	-0.0					T__		4.0		___ ML	1.6	51393469	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
SIRR	0.88	213.0	Lg	08:21:44.100	-1.0					T__				___		51393470	FDSN	RO	--	BUD	BUD	BHN	???	_
(Reading ML: 1.6 magdef=1)																								
(Station ML: 1.6 magdef=1)																								
TRPA	1.13	6.4	Pn	08:21:36.468	0.2					T__		1.0		___ ML	1.1	51393471	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
TRPA	1.13	6.4	Sn	08:21:52.022	-2.1					T__				___		51393472	FDSN	HU	--	BUD	BUD	BHN	???	_
(Reading ML: 1.1 magdef=1)																								
(Station ML: 1.1 magdef=0)																								
BZS	1.48	200.4	Pg	08:21:42.142	-0.3					T__		2.6		___ ML	1.7	51393473	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
BZS	1.48	200.4	Sn	08:22:01.874	-0.0					T__				___		51393474	FDSN	RO	--	BUD	BUD	BHN	???	_
(Reading ML: 1.7 magdef=1)																								
(Station ML: 1.7 magdef=1)																								
GZR	1.64	169.5	Pg	08:21:46.359	1.4					T__		2.6		___ ML	1.8	51393475	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.8 magdef=1)																								
(Station ML: 1.8 magdef=0)																								
PSZI	1.90	299.5	I	08:33:12.495	5.7	117.4	-0.3			TA_				___		125	FDSN	HN	--	BUD	BUD	BDF	???	_

Event bud2019pzka Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2019/08/16	08:29:51.83	0.32	0.55	48.2399	21.2176				0.0	0.0	11	0	106	0.06	1.77	kx	BUD	51876932	sysop					
2019/08/16	08:29:51.53	0.47	0.44	48.2565	21.2188				2.8	3.9	9	0	104	0.04	1.78	kx	BUD	51343527	sysop					
2019/08/16	08:29:51.83			48.2470	21.2460				0.0	0.0		0				kx	BUD_GT	51876932	BUD			360		
(GT info : GT2 explosion)																								
(Locality : Tállya Hungary)																								
2019/08/16	08:29:50.24	1.08	1.21	48.2239	21.2114	5.1	4.3	39	0.0f		12	7	107	0.07	1.76	ke	ILOC	98		ILOC			155	
(#PRIME)																								

Magnitude	Err	Nsta	Author	OrigID
M	2.2	5	BUD	51343527
MLv	2.2 0.8	5	BUD	51343527
MLv	2.3 0.8	5	BUD	51876932
M	2.3	5	BUD	51876932
ML	2.0 0.2	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
ABAH	0.07	14.6	Pg	08:29:52.112	-0.2					T__		1018.8		___ ML	2.5	51876933	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
(Reading ML: 2.5 magdef=1)																								
ABAH	0.07	14.6	Lg	08:29:52.733	-1.4					T__				___		51876934	FDSN	HU	--	BUD	BUD	HHN	???	_
(Station ML: 2.5 magdef=1)																								
KECS	0.55	298.5	Pg	08:30:02.005	0.7					T__		15.5		___ ML	2.0	51876935	FDSN	SK	--	BUD	BUD	EHE	EHZ	_
KECS	0.55	298.5	Lg	08:30:09.707	0.0					T__				___		51876936	FDSN	SK	--	BUD	BUD	EHN	???	_
(Reading ML: 2.0 magdef=1)																								
(Station ML: 2.0 magdef=1)																								
TRPA	0.89	95.5	Pg	08:30:08.390	0.8					T__		2.8		___ ML	1.4	51876938	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
TRPA	0.89	95.5	Lg	08:30:21.265	-1.6					T__				___		51876937	FDSN	HU	--	BUD	BUD	BHE	???	_

(Reading ML: 1.4 magdef=1
 (Station ML: 1.4 magdef=0
 PSZ 0.93 251.4 Pn 08:30:10.427 0.4 T__ 7.2 ___ ML 1.9 51876939 FDSN GE -- BUD BUD BHZ BHZ _
 PSZ 0.93 251.4 Lg 08:30:22.294 -2.2 T__ ___ 51876940 FDSN GE -- BUD BUD BHN ??? _
 (Reading ML: 1.9 magdef=1
 (Station ML: 1.9 magdef=1
 PSZI 0.94 251.4 I 08:36:09.830 62.0 70.4 -0.0 _A_ ___ 126 FDSN HN -- BUD BUD BDF ??? _
 KOLS 1.00 44.4 Pg 08:30:10.640 1.4 T__ 1271.4 ___ ML 4.2 51876941 FDSN SK -- BUD BUD HHZ HHZ _
 (Reading ML: 4.2 magdef=1
 KOLS 1.00 44.4 Lg 08:30:24.584 -1.0 T__ ___ 51876942 FDSN SK -- BUD BUD HHE ??? _
 (Station ML: 4.2 magdef=0
 DRGR 1.76 144.1 Sn 08:30:46.305 0.2 T__ ___ 51876943 FDSN RO -- BUD BUD BHE ??? _

Event bud2019qinp Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/08/21	08:31:43.86	0.53	0.41	47.1801	17.8083				0.0	0.0	6	0	174	0.29	1.25	kx	BUD	51877441	sysop			
2019/08/21	08:31:41.74	1.49	1.03	47.1748	17.8306	12.9	6.0	83	0.0f		7	6	171	0.28	1.58	kx	ILOC	99	ILOC			245

(#PRIME)
 (locality : Sejce-Vác Hungary)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.6	0.0	1 BUD	51877441
M	1.6		1 BUD	51877441

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	0.28	171.1	Lg	08:31:53.107	0.6					T__						51877442	FDSN	HU	--	BUD	BUD	HHN	???	_	
CSKK	0.35	57.1	Lg	08:31:55.251	0.3					T__						51877443	FDSN	HU	--	BUD	BUD	HHN	???	_	
KOVH	1.10	170.2	Pg	08:32:04.790	0.8					T__		2.9		___	ML	1.6	51877445	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
KOVH	1.10	170.2	Lg	08:32:19.803	-0.7					T__						51877444	FDSN	HU	--	BUD	BUD	BHE	???	_	

(Reading ML: 1.6 magdef=1
 (Station ML: 1.6 magdef=0
 MORH 1.11 149.5 Lg 08:32:19.200 -1.4 T__ ___ 51877446 FDSN HU -- BUD BUD BHN ??? _
 MODS 1.26 342.9 Sn 08:32:23.569 -0.9 T__ ___ 51877447 FDSN SK -- BUD BUD HHE ??? _
 PSZI 1.58 61.2 I 08:39:46.694 -95.7 237.2 -5.5 _A_ ___ 128 FDSN HN -- BUD BUD BDF ??? _

Event bud2019qmep Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/08/23	08:31:17.34	0.41	0.88	47.0022	22.2684				0.4	2.4	16	0	159	0.37	1.87	kx	BUD	51879334	sysop			
2019/08/23	08:31:16.43	1.01	1.65	46.9850	22.3110	4.5	3.8	25	0.0f		18	10	88	0.34	1.89	kx	ILOC	100	ILOC			155

(#PRIME)
 (locality : Subpiatra Romania)

Magnitude	Err	Nsta	Author	OrigID
MLv	2.0	0.4	7 BUD	51879334
M	2.0		7 BUD	51879334
ML	2.0	0.5	9 ILOC	93

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	125.0	Pg	08:31:23.489	0.0					T__		23.3		_c_	ML	1.6	51879336	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
DRGR	0.34	125.0	Lg	08:31:28.309	-1.0					T__						51879335	FDSN	RO	--	BUD	BUD	BHN	???	_	

(Reading ML: 1.6 magdef=1

(Station ML: 1.6 magdef=1
SIRR 0.85 212.3 Pg 08:31:33.093 -0.6 T__ 3.4 ___ ML 1.5 51879337 FDSN RO -- BUD BUD BHZ BHZ _
SIRR 0.85 212.3 Lg 08:31:45.052 -1.7 T__ ___ 51879338 FDSN RO -- BUD BUD BHN ??? _
(Reading ML: 1.5 magdef=1
(Station ML: 1.5 magdef=1
CJR 0.92 106.6 Pg 08:31:34.610 -0.0 T__ 38.7 ___ ML 2.6 51879340 FDSN RO -- BUD BUD BHZ BHZ _
CJR 0.92 106.6 Lg 08:31:48.267 -0.8 T__ ___ 51879339 FDSN RO -- BUD BUD BHE ??? _
(Reading ML: 2.6 magdef=1
(Station ML: 2.6 magdef=0
BMR 1.06 49.0 Pn 08:31:37.949 -0.2 T__ 18.5 ___ ML 2.4 51879341 FDSN RO -- BUD BUD BHZ BHZ _
BMR 1.06 49.0 Lg 08:31:53.830 -0.6 T__ ___ 51879342 FDSN RO -- BUD BUD BHN ??? _
(Reading ML: 2.4 magdef=1
(Station ML: 2.4 magdef=1
TRPA 1.16 7.6 Pg 08:31:38.315 -0.6 T__ 1.5 ___ ML 1.3 51879343 FDSN HU -- BUD BUD BHZ BHZ _
(Reading ML: 1.3 magdef=1
(Station ML: 1.3 magdef=0
DEV 1.18 159.4 Pn 08:31:39.771 0.6 T__ 16.2 ___ ML 2.4 51879344 FDSN RO -- BUD BUD BHZ BHZ _
(Reading ML: 2.4 magdef=1
(Station ML: 2.4 magdef=1
BZS 1.45 199.6 Pn 08:31:42.583 -0.5 T__ 2.8 ___ ML 1.8 51879345 FDSN RO -- BUD BUD BHZ BHZ _
BZS 1.45 199.6 Sn 08:32:04.508 0.6 T__ ___ 51879346 FDSN RO -- BUD BUD BHN ??? _
(Reading ML: 1.8 magdef=1
(Station ML: 1.8 magdef=1
GZR 1.62 168.3 Pn 08:31:46.634 0.9 T__ 3.9 ___ ML 2.0 51879347 FDSN RO -- BUD BUD BHZ BHZ _
GZR 1.62 168.3 Sn 08:32:09.881 1.1 T__ ___ 51879348 FDSN RO -- BUD BUD BHN ??? _
(Reading ML: 2.0 magdef=1
(Station ML: 2.0 magdef=1
LOT 1.84 146.1 Pn 08:31:50.049 1.0 T__ 8.9 ___ ML 2.5 51879350 FDSN RO -- BUD BUD BHZ BHZ _
LOT 1.84 146.1 Sn 08:32:15.906 1.4 T__ ___ 51879349 FDSN RO -- BUD BUD BHE ??? _
(Reading ML: 2.5 magdef=1
(Station ML: 2.5 magdef=1
PSZI 1.89 300.5 I 08:43:09.846 5.4 117.5 -1.2 TA_ ___ 130 FDSN HN -- BUD BUD BDF ??? _

Event bud2019qmfw Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/08/23	09:10:10.46	0.40	1.15	46.8048	17.1705				0.0	0.0	10	0	154	0.50	1.43	kx	BUD	51878011	sysop			
2019/08/23	09:10:10.46			46.8548	17.2699				0.0	0.0		0				kx	BUD_GT	51878011	BUD			360
(GT info : GT2 explosion)																						
(locality : Várvölgy Hungary)																						
2019/08/23	09:10:08.29	1.14	0.90	46.8205	17.2096	7.8	5.0	44	0.0f		11	9	151	0.48	2.13	ke	ILOC	101	ILOC			181
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
MLv	1.9	0.1	2 BUD	51878011
M	1.9		2 BUD	51878011

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	0.48	80.1	Lg	09:10:26.866	1.0					T__						51878012	FDSN	HU	--	BUD	BUD	HHE	???	_
EGYH	0.60	7.9	Lg	09:10:29.276	-1.0					T__						51878013	FDSN	HU	--	BUD	BUD	HHE	???	_
CSKK	0.90	52.5	Lg	09:10:40.389	0.3					T__						51878014	FDSN	HU	--	BUD	BUD	HHN	???	_
KOVH	0.96	139.6	Pg	09:10:28.221	0.5					T__		8.3				51878015	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
KOVH	0.96	139.6	Lg	09:10:42.079	-0.2					T__						51878016	FDSN	HU	--	BUD	BUD	BHN	???	_

```

(Reading ML: 2.0 magdef=1
(Station ML: 2.0 magdef=0
MORH 1.16 120.9 Sn 09:10:48.021 -0.7 T__ --- 51878017 FDSN HU -- BUD BUD BHN ??? _
ARSA 1.23 291.1 Lg 09:10:50.765 1.1 T__ --- 51878018 FDSN OE -- BUD BUD BHN ??? _
SRO 1.25 36.7 Lg 09:10:52.439 1.2 T__ --- 51878019 FDSN SK -- BUD BUD EHN ??? _
CONA 1.44 320.9 Pn 09:10:34.146 -0.9 T__ 3.4 --- ML 1.8 51878021 FDSN OE -- BUD BUD BHZ BHZ _
CONA 1.44 320.9 Sn 09:10:56.489 0.5 T__ --- 51878020 FDSN OE -- BUD BUD BHE ??? _
(Reading ML: 1.8 magdef=1
(Station ML: 1.8 magdef=0
PSZI 2.13 58.0 I 09:21:37.532 -999 240.6 0.7 _A_ --- 132 FDSN HN -- BUD BUD BDF ??? _

```

Event bud2019qoax Czech and Slovak Republics

```

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2019/08/24 08:55:55.00 0.54 48.0065 19.6200 0.0 0 0 172 0.16 1.07 kx BUD 51878076 sysop
2019/08/24 08:55:55.00 48.0061 19.6978 0.0 6 0 172 0.16 1.07 kx BUD_GT 51878076 BUD 222
(GT info : GT2 explosion)
(Locality : Nagylóc Hungary)
2019/08/24 08:55:54.36 1.53 0.75 48.0037 19.6256 4.0 1.2 114 0.0f 6 3 197 0.20 0.72 kx ILOC 102 ILOC 359
(#PRIME)

```

```

Magnitude Err Nsta Author OrigID
M 1.4 2 BUD 51878076
MLv 1.4 0.1 2 BUD 51878076

```

```

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 0.20 115.4 I 08:56:58.321 -0.2 292.4 -3.2 TA_ --- 133 FDSN HN -- BUD BUD BDF ??? _
PSZ 0.20 115.2 Pg 08:55:59.719 0.6 T__ 42.2 --- ML 1.5 51878078 FDSN GE -- BUD BUD BHZ BHZ _
PSZ 0.20 115.2 Lg 08:56:02.079 -0.8 T__ --- 51878077 FDSN GE -- BUD BUD BHN ??? _
(Reading ML: 1.5 magdef=1
(Station ML: 1.5 magdef=0
VYHS 0.72 313.2 Pg 08:56:09.309 0.4 T__ 2.4 --- ML 1.3 51878079 FDSN SK -- BUD BUD HHZ HHZ _
VYHS 0.72 313.2 Lg 08:56:18.949 -0.7 T__ --- 51878080 FDSN SK -- BUD BUD HHN ??? _
(Reading ML: 1.3 magdef=1
(Station ML: 1.3 magdef=0

```

Event bud2019qxa Romania

```

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2019/08/29 06:56:03.44 0.28 1.24 46.0064 22.7802 0.0 0.0 13 0 90 0.14 0.91 kx BUD 51879485 sysop
2019/08/29 06:56:01.53 1.07 1.88 46.0487 22.8038 5.7 3.2 52 0.0f 15 8 91 0.18 2.73 kx ILOC 103 ILOC 136
(#PRIME)
(Locality : Baita Romania)

```

```

Magnitude Err Nsta Author OrigID
MLv 1.6 0.1 6 BUD 51879485
M 1.6 6 BUD 51879485
ML 1.6 0.0 6 ILOC 96

```

```

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
DEV 0.18 157.2 Pg 06:56:04.970 0.0 T__ 94.5 --- ML 1.8 51879486 FDSN RO -- BUD BUD BHZ BHZ _
DEV 0.18 157.2 Lg 06:56:08.284 0.7 T__ --- 51879487 FDSN RO -- BUD BUD BHN ??? _
(Reading ML: 1.8 magdef=1

```

```

(Station ML: 1.8 magdef=0
GZR 0.66 181.7 Pg 06:56:14.558 0.4 T__ 5.8 ___ ML 1.6 51879488 FDSN RO -- BUD BUD BHZ BHZ _
GZR 0.66 181.7 Lg 06:56:23.596 -0.1 T__ ___ 51879489 FDSN RO -- BUD BUD BHE ??? _
(Reading ML: 1.6 magdef=1
(Station ML: 1.6 magdef=1
DRGR 0.75 355.1 Pg 06:56:17.219 0.5 T__ 4.3 ___ ML 1.5 51879491 FDSN RO -- BUD BUD BHZ BHZ _
DRGR 0.75 355.1 Lg 06:56:27.464 -1.5 T__ ___ 51879490 FDSN RO -- BUD BUD BHN ??? _
(Reading ML: 1.5 magdef=1
(Station ML: 1.5 magdef=1
SIRR 0.82 285.8 Pg 06:56:18.627 0.1 T__ 4.8 ___ ML 1.6 51879492 FDSN RO -- BUD BUD BHZ BHZ _
SIRR 0.82 285.8 Lg 06:56:30.926 -0.4 T__ ___ 51879493 FDSN RO -- BUD BUD BHN ??? _
(Reading ML: 1.6 magdef=1
(Station ML: 1.6 magdef=1
CJR 0.86 39.3 Sn 06:56:35.497 0.4 T__ ___ 51879498 FDSN RO -- BUD BUD BHN ??? _
LOT 0.90 131.3 Pg 06:56:19.177 0.3 T__ 4.6 ___ ML 1.7 51879497 FDSN RO -- BUD BUD BHZ BHZ _
LOT 0.90 131.3 Lg 06:56:32.734 0.7 T__ ___ 51879496 FDSN RO -- BUD BUD BHE ??? _
(Reading ML: 1.7 magdef=1
(Station ML: 1.7 magdef=1
BZS 0.94 242.9 Pn 06:56:20.081 -0.6 T__ 2.2 ___ ML 1.4 51879494 FDSN RO -- BUD BUD BHZ BHZ _
BZS 0.94 242.9 Lg 06:56:33.236 -0.3 T__ ___ 51879495 FDSN RO -- BUD BUD BHN ??? _
(Reading ML: 1.4 magdef=1
(Station ML: 1.4 magdef=0
PSZI 2.73 314.2 I 07:13:19.899 6.2 133.5 1.4 TA_ ___ 135 FDSN HN -- BUD BUD BDF ??? _

```

Event bud2019reii Hungary

```

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2019/09/02 06:51:22.00 4.42 47.6853 19.4500 0.0 0
2019/09/02 06:51:22.00 47.9151 19.4088 0.0 kx BUD 52731467 sysop
(GT info : GT2 explosion)
(locality : Szanda Hungary)
2019/09/02 06:51:20.39 1.39 0.74 47.9228 19.4147 5.0 2.0 88 0.0f 6 3 235 0.32 0.69 ke ILOC 104 ILOC 359
(#PRIME)

```

```

Magnitude Err Nsta Author OrigID
M 1.3 2 BUD 52731467
MLv 1.3 0.3 2 BUD 52731467

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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
PSZI 0.32 90.7 I 06:53:03.946 -0.5 270.7 -0.4 TA_ 137 FDSN HN -- BUD BUD BDF ??? _
PSZ 0.32 90.6 Pg 06:51:27.345 -0.3 T__ 15.9 ___ ML 1.4 52731468 FDSN GE -- BUD BUD BHZ BHZ _
PSZ 0.32 90.6 Lg 06:51:33.169 -0.1 T__ ___ 52731469 FDSN GE -- BUD BUD BHN ??? _
(Reading ML: 1.4 magdef=1
(Station ML: 1.4 magdef=0
VYHS 0.69 326.1 Pn 06:51:37.135 0.7 T__ 1.3 ___ ML 1.0 52731471 FDSN SK -- BUD BUD HHZ HHZ _
VYHS 0.69 326.1 Lg 06:51:43.813 -0.8 T__ ___ 52731470 FDSN SK -- BUD BUD HHN ??? _
(Reading ML: 1.0 magdef=1
(Station ML: 1.0 magdef=0

```

Event bud2019ribz Hungary

```

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2019/09/04 08:12:16.92 1.92 0.51 47.6713 18.9637 0.0 0.0 4 0 285 0.67 0.83 kx BUD 52731835 sysop

```


2019/09/04 08:12:18.35 2.21 0.11 47.8051 19.1233 13.2 5.0 4 0.0f 5 3 267 0.53 0.72 kx ILOC 105 ILOC 359
 (#PRIME)
 (locality : Dunabogdány Hungary)

Magnitude Err Nsta Author OrigID
 MLv 1.5 0.2 2 BUD 52731835
 M 1.5 2 BUD 52731835

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	0.53	77.4	I	08:15:11.881	-0.0	260.6	2.6			T__				---	139	FDSN	HN	--	BUD	BUD	BDF	???	_		
PSZ	0.53	77.4	Pg	08:12:29.949	0.1					T__		5.3		---	ML	1.5	52731836	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.53	77.4	Lg	08:12:38.485	-0.1					T__				---		52731837	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.5 magdef=1 (Station ML: 1.5 magdef=0)																									
VYHS	0.72	344.5	Pg	08:12:32.761	-0.1					T__		2.3		---	ML	1.3	52731839	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.72	344.5	Lg	08:12:43.606	0.1					T__				---		52731838	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1 (Station ML: 1.3 magdef=0)																									

Event bud2019rjwa Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/09/05	07:28:02.71	0.39	1.04	48.5587	20.7579				0.0	0.0	9	0	161	0.20	1.28	kx	BUD	51873109	sysop			
2019/09/05	07:28:00.83	1.13	1.44	48.5761	20.7621	5.0	3.6	177	0.0f		11	6	162	0.21	1.28	kx	ILOC	106	ILOC			224
#PRIME) (locality : Dvorniky-Vcelare Slovakia)																						

Magnitude Err Nsta Author OrigID
 MLv 1.9 1.1 4 BUD 51873109
 M 1.9 4 BUD 51873109
 ML 1.7 0.7 4 ILOC 100

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	243.3	Pg	07:28:05.018	-0.1					T__		124.0		---	ML	2.0	51873110	FDSN	SK	--	BUD	BUD	EHE	EHZ	_
KECS	0.21	243.3	Lg	07:28:08.968	0.5					T__				---		51873111	FDSN	SK	--	BUD	BUD	EHN	???	_	
(Reading ML: 2.0 magdef=1 (Station ML: 2.0 magdef=1)																									
ABAH	0.42	131.2	Pg	07:28:09.309	-0.2					T__		7.6		---	ML	1.4	51873112	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.42	131.2	Lg	07:28:15.571	-1.2					T__				---		51873113	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.4 magdef=1 (Station ML: 1.4 magdef=1)																									
PSZ	0.88	221.7	Lg	07:28:32.195	-0.7					T__				---		51873114	FDSN	GE	--	BUD	BUD	BHE	???	_	
PSZI	0.88	221.7	I	07:33:00.363	3.4	42.5	1.4			TA_				---		141	FDSN	HN	--	BUD	BUD	BDF	???	_	
KOLS	1.06	69.8	Pn	07:28:23.863	1.3					T__		573.6		---	ML	3.8	51873115	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
KOLS	1.06	69.8	Lg	07:28:38.148	0.0					T__				---		51873116	FDSN	SK	--	BUD	BUD	HHE	???	_	
(Reading ML: 3.8 magdef=1 (Station ML: 3.8 magdef=1)																									
VYHS	1.28	267.0	Pg	07:28:25.644	-0.7					T__		0.6		---	ML	1.0	51873117	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	1.28	267.0	Sn	07:28:43.606	-0.9					T__				---		51873118	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.0 magdef=1 (Station ML: 1.0 magdef=1)																									

Event bud2019rnul Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/09/07	11:11:49.00		2.12	47.9235	19.4320				0.0								kx BUD	52732564	sysop			
2019/09/07	11:11:49.00			48.0061	19.6978				0.0		6	0	172	0.16	1.07		kx BUD_GT	52732564	BUD			222
(GT info : GT2 explosion)																						
(locality : Nagylóc Hungary)																						
2019/09/07	11:11:47.94	2.25	0.99	48.0034	19.6293	56.0	4.0	30	0.0f		5	3	197	0.20	0.72		ke ILOC	107	ILOC			359
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
M	1.3	2	BUD	52732564
MLv	1.3 0.3	2	BUD	52732564

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	0.20	115.6	I	11:12:52.255	0.9	296.8	1.0			T__						143	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.20	115.4	Pg	11:11:53.066	0.4					T__		20.8			ML	1.2	52732565	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.20	115.4	Lg	11:11:55.627	-0.8					T__						52732566	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.2 magdef=1)																									
(Station ML: 1.2 magdef=0)																									
VYHS	0.72	313.1	Pg	11:12:02.907	0.4					T__		1.6			ML	1.1	52732568	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.72	313.1	Lg	11:12:12.799	-0.5					T__						52732567	FDSN	SK	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.1 magdef=1)																									
(Station ML: 1.1 magdef=0)																									

Event bud2019rszm Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/09/10	07:25:19.87	0.59	0.90	46.9066	22.8640				0.0	0.0	10	0	191	0.16	1.75		kx BUD	52028153	BUD				360
2019/09/10	07:25:18.85	1.22	1.01	46.8318	22.8998	7.2	3.9	19	0.0f		12	7	123	0.14	2.31		kx ILOC	108	ILOC				169
(#PRIME)																							
(locality : Poieni Romania)																							

Magnitude	Err	Nsta	Author	OrigID
MLv	1.7 0.2	5	BUD	52028153
M	1.7	5	BUD	52028153
ML	1.7 0.1	5	ILOC	102

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	0.14	252.8	Pg	07:25:22.227	0.2					T__		54.9			ML	1.4	52028154	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
DRGR	0.14	252.8	Lg	07:25:24.293	-0.5					T__						52028155	FDSN	RO	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									
CJR	0.49	103.6	Pg	07:25:28.897	0.1					T__		15.3			ML	1.9	52028156	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=0)																									
SIRR	1.03	237.0	Pn	07:25:39.261	-0.5					T__		2.0			ML	1.4	52028157	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
SIRR	1.03	237.0	Lg	07:25:54.033	-1.3					T__						52028158	FDSN	RO	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=0)																									
GZR	1.44	183.5	Pg	07:25:47.362	1.0					T__		3.3			ML	1.8	52028159	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
GZR	1.44	183.5	Lg	07:26:07.916	-0.3					T__						52028160	FDSN	RO	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									

(#PRIME)

(locality : Dabas Hungary)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.4	0.4	3 BUD	52732957
M	1.4		3 BUD	52732957
ML	1.6	0.2	3 ILOC	104

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	0.86	24.9	I	14:30:49.892	0.9	206.4	1.1			TA_				---	146	FDSN	HN	--	BUD	BUD	BDF	???	_		
PSZ	0.86	24.9	Pg	14:26:15.564	-2.5					T__		6.0		---	ML	1.8	52732959	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.86	24.9	Lg	14:26:28.322	-3.3					T__				---		52732958	FDSN	GE	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
MORH	1.05	208.2	Pg	14:26:18.079	-2.6					T__		0.8		---	ML	1.0	52732960	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MORH	1.05	208.2	Lg	14:26:33.242	-3.2					T__				---		52732961	FDSN	HU	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.0 magdef=1 Station ML: 1.0 magdef=1)																									
KOVH	1.36	219.9	Pg	14:26:26.962	-0.2					T__		2.2		---	ML	1.6	52732963	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
KOVH	1.36	219.9	Sn	14:26:42.531	-2.6					T__				---		52732962	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																									
MODS	1.87	312.1	Sn	14:26:57.037	-0.4					T__				---		52732964	FDSN	SK	--	BUD	BUD	HHN	???	_	

Event bud2019ruxc Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/09/11	08:30:14.48	1.11	0.45	47.8463	20.0562				0.0	0.0	6	0	243	0.13	0.91	kx	BUD	52733245	sysop			
2019/09/11	08:30:14.48			47.8650	20.1529				0.0	0.0		0				kx	BUD_GT	52733245	BUD			360
(GT info : GT2 explosion) (locality : Kismána Hungary)																						
2019/09/11	08:30:13.12	2.08	1.06	47.8592	20.0634	13.0	4.4	11	0.0f		7	4	236	0.13	0.90	kx	ILOC	111	ILOC			273
(Reading ML: 2.0 magdef=1 Station ML: 2.0 magdef=1)																						

Magnitude	Err	Nsta	Author	OrigID
MLv	2.1	0.2	3 BUD	52733245
M	2.1		3 BUD	52733245
ML	2.0	0.1	3 ILOC	105

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	0.13	297.6	Pg	08:30:16.702	0.2					T__		225.5		---	ML	2.0	52733246	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.13	297.6	Lg	08:30:18.661	-0.6					T__				---		52733247	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 2.0 magdef=1 Station ML: 2.0 magdef=1)																									
PSZI	0.13	297.2	I	08:30:55.324	0.9	97.1	-20.0			T__				---		147	FDSN	HN	--	BUD	BUD	BDF	???	_	
KECS	0.69	24.2	Pg	08:30:27.630	0.8					T__		26.9		---	ML	2.3	52733249	FDSN	SK	--	BUD	BUD	EHN	EHZ	_
KECS	0.69	24.2	Lg	08:30:36.542	-0.8					T__				---		52733248	FDSN	SK	--	BUD	BUD	EHN	???	_	
(Reading ML: 2.3 magdef=1 Station ML: 2.3 magdef=1)																									
ABAH	0.90	60.6	Pg	08:30:31.772	0.8					T__		8.3		---	ML	1.9	52733251	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.90	60.6	Lg	08:30:44.619	-1.3					T__				---		52733250	FDSN	HU	--	BUD	BUD	HHE	???	_	
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																									

Event bud2019rwp Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/09/12	07:07:40.34	0.44	0.43	47.3850	18.3677				0.0	0.0	7	0	168	0.08	1.31	kx	BUD	52733390	sysop			
2019/09/12	07:07:37.82	1.29	3.51	47.4178	18.4283	6.4	3.7	152	0.0f		9	6	178	0.13	1.35	kx	ILOC	112	ILOC			232

(#PRIME)
(locality : Gánt Hungary)

Magnitude	Err	Nsta	Author	OrigID
MLv	2.8	1.4	2 BUD	52733390
M	2.8		2 BUD	52733390

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	244.4	Pg	07:07:41.205	0.2					T__		18605.2		___	ML	3.9	52733391	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.13	244.4	Lg	07:07:42.761	-0.8					T__				___			52733392	FDSN	HU	--	BUD	BUD	HHN	???	_
(Reading ML: 3.9 magdef=1 Station ML: 3.9 magdef=0)																									
BUD	0.41	80.5	Lg	07:07:54.811	1.2					T__				___			52733393	FDSN	HU	--	BUD	BUD	BHN	???	_
PSZI	1.11	62.7	I	07:13:54.416	-8.4	246.9	3.2			TA_				___			148	FDSN	HN	--	BUD	BUD	BDF	???	_
PSZ	1.11	62.6	Pg	07:08:01.790	0.6					T__		5.0		___	ML	1.8	52733395	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	1.11	62.6	Lg	07:08:18.008	0.4					T__				___			52733394	FDSN	GE	--	BUD	BUD	BHE	???	_
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=0)																									
MORH	1.21	172.9	Sn	07:08:18.209	-1.0					T__				___			52733396	FDSN	HU	--	BUD	BUD	BHN	???	_
KOVH	1.35	189.8	Sn	07:08:22.225	-0.6					T__				___			52733397	FDSN	HU	--	BUD	BUD	BHE	???	_

Event bud2019rwsa Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/09/12	08:12:50.39	1.20	0.17	45.9852	17.9926				0.0	0.0	5	0	228	0.13	1.30	kx	BUD	52733465	sysop				
2019/09/12	08:12:49.66	1.68	0.62	46.1258	17.9716	17.5	8.1	22	0.0f		6	4	172	0.10	2.22	kx	ILOC	113	ILOC				282

(#PRIME)
(locality : Bükkösd-II Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.2		2 BUD	52733465
MLv	1.2	0.8	2 BUD	52733465

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	0.10	112.8	Pg	08:12:52.757	0.5					T__		139.3		___	ML	1.7	52733466	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
KOVH	0.10	112.8	Lg	08:12:53.861	-0.6					T__				___			52733467	FDSN	HU	--	BUD	BUD	BHN	???	_
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=0)																									
MORH	0.48	79.0	Pg	08:13:00.087	0.5					T__		0.8		___	ML	0.5	52733469	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MORH	0.48	79.0	Lg	08:13:06.765	-0.5					T__				___			52733468	FDSN	HU	--	BUD	BUD	BHE	???	_
(Reading ML: 0.5 magdef=1 Station ML: 0.5 magdef=0)																									
KOGS	1.24	285.7	Sn	08:13:31.769	-0.3					T__				___			52733470	FDSN	SL	--	BUD	BUD	BHE	???	_
PSZI	2.22	35.6	I	08:24:55.985	-999	215.1	-1.9			_A_				___			149	FDSN	HN	--	BUD	BUD	BDF	???	_

Event bud2019rytr Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/09/13	11:18:35.98	0.73	0.50	46.1106	21.6927				0.3	3.1	8	0	168	0.16	1.04		kx BUD	52122320	sysop			
2019/09/13	11:18:34.68	1.44	1.49	46.1312	21.6828	8.2	4.5	93	0.0f		9	5	141	0.14	2.17		kx ILOC	114	ILOC			192

(#PRIME)
(locality : Lipova Romania)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.6	0.3	4 BUD	52122320
M	1.6		4 BUD	52122320
ML	1.6	0.4	4 ILOC	108

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	0.14	353.3	Pg	11:18:38.537	0.4					T__		46.5		___	ML	1.3	52122321	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
SIRR	0.14	353.3	Lg	11:18:41.082	0.2					T__				___		52122322	FDSN	RO	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.3 magdef=1 Station ML: 1.3 magdef=1)																									
BZS	0.52	185.2	Pg	11:18:45.078	0.1					T__		3.3		___	ML	1.3	52122323	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
BZS	0.52	185.2	Lg	11:18:51.706	-1.0					T__				___		52122324	FDSN	RO	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.3 magdef=1 Station ML: 1.3 magdef=1)																									
DRGR	0.97	46.7	Pg	11:18:55.392	1.2					T__		7.2		___	ML	1.9	52122325	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
DRGR	0.97	46.7	Lg	11:19:07.067	-2.9					T__				___		52122326	FDSN	RO	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																									
GZR	1.06	133.5	Pg	11:18:56.451	1.4					T__		5.4		___	ML	1.8	52122327	FDSN	RO	--	BUD	BUD	BHZ	BHZ	_
GZR	1.06	133.5	Lg	11:19:09.758	-0.5					T__				___		52122328	FDSN	RO	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
PSZI	2.17	326.2	I	11:32:49.478	35.1	143.3	-1.6			_A_				___		150	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019secj Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/09/16	09:22:34.00		0.45	48.3430	19.8860				0.0								kx BUD	52749305	BUD			360
2019/09/16	09:22:32.33	1.62	0.36	48.3362	19.8610	4.9	2.5	171	0.0f		6	3	253	0.42	0.44		kx ILOC	115	ILOC			359

(#PRIME)
(locality : Velke-Dravce Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.7		2 BUD	52749305
MLv	1.7	0.3	2 BUD	52749305

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	0.42	176.9	Pg	09:22:41.576	0.1					T__		10.6		___	ML	1.5	52749309	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.42	176.9	Lg	09:22:48.293	-0.2					T__				___		52749308	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=0)																									
PSZI	0.42	177.0	I	09:24:48.846	0.4	359.9	2.9			TA_				___		151	FDSN	HN	--	BUD	BUD	BDF	???	_	
KECS	0.44	70.3	Pg	09:22:41.507	0.2					T__		24.3		___	ML	1.9	52749306	FDSN	SK	--	BUD	BUD	EHN	EHZ	_
KECS	0.44	70.3	Lg	09:22:47.739	-0.3					T__				___		52749307	FDSN	SK	--	BUD	BUD	EHN	???	_	
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=0)																									

Event bud2019sfzv Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/09/17	10:21:59.00		0.63	47.4017	18.4229				0.0			0					kx BUD	52749993	BUD			360
2019/09/17	10:21:56.56	1.65	0.63	47.4127	18.4790	6.3	5.1	158	0.0f		5	3	170	0.16	1.20		kx ILOC	116	ILOC			282

(#PRIME)
(locality : Gánt Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	3.4	1	BUD	52749993
MLv	3.4	0.0	1 BUD	52749993

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	0.16	251.6	Pg	10:22:00.661	0.4					T__		6422.1		___ ML	3.5	52749994	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.16	251.6	Lg	10:22:02.635	-0.7					T__				___		52749995	FDSN	HU	--	BUD	BUD	HHN	???	_
(Reading ML: 3.5 magdef=1 Station ML: 3.5 magdef=0)																								
PSZI	1.08	61.6	I	10:28:09.938	-0.5	239.5	-3.2			TA_				___		153	FDSN	HN	--	BUD	BUD	BDF	???	_
MORH	1.20	174.6	Sn	10:22:37.672	-0.0					T__				___		52749996	FDSN	HU	--	BUD	BUD	BHN	???	_

Event bud2019sjmx Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/09/19	08:23:40.66	0.93	0.69	47.9350	19.3823				0.0	0.0	5	0	204	0.34	1.30		kx BUD	52750563	BUD			360
2019/09/19	08:23:40.66			47.8920	19.4049				0.0	0.0		0					kx BUD_GT	52750563	BUD			360
(GT info : GT2 explosion) (locality : Bercel Hungary)																						
2019/09/19	08:23:38.99	1.52	1.03	47.8896	19.4095	5.0	2.0	86	0.0f		7	5	197	0.33	1.29		ke ILOC	117	ILOC			325
(PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
M	1.8	2	BUD	52750563
MLv	1.8	0.4	2 BUD	52750563

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	0.33	84.9	I	08:25:26.469	1.8	264.1	-1.1			TA_				___		157	FDSN	HN	--	BUD	BUD	BDF	???	_
PSZ	0.33	84.8	Pg	08:23:46.162	-0.2					T__		17.2		___ ML	1.4	52750564	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.33	84.8	Lg	08:23:51.425	-0.6					T__				___		52750565	FDSN	GE	--	BUD	BUD	BHN	???	_
(Reading ML: 1.4 magdef=1 Station ML: 1.4 magdef=0)																								
BUD	0.48	212.8	Lg	08:23:57.172	0.0					T__				___		52750566	FDSN	HU	--	BUD	BUD	BHN	???	_
KECS	0.93	50.1	Pg	08:23:58.245	0.7					T__		12.4		___ ML	2.1	52750567	FDSN	SK	--	BUD	BUD	EHN	EHZ	_
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=0)																								
ABAH	1.29	71.0	Sn	08:24:22.862	-0.2					T__				___		52750568	FDSN	HU	--	BUD	BUD	HHN	???	_

Event bud2019sspg Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/09/24	07:48:27.43	0.96	0.01	48.0638	20.6815				0.2	4.7	5	0	197	0.44	0.55		kx BUD	52442576	sysop			
2019/09/24	07:48:27.43			48.0750	20.6990				0.0	0.0		0					kx BUD_GT	52442576	BUD			360
(GT info : GT2 explosion) (locality : Miskolc-Mexikóvölgy Hungary)																						

2019/09/24 07:48:25.85 1.48 2.11 48.0653 20.6740 4.1 3.2 82 0.0f 7 4 196 0.44 0.54 ke ILOC 118 ILOC 271
 (#PRIME)

Magnitude Err Nsta Author OrigID
 MLv 1.4 0.2 2 BUD 52442576
 M 1.4 2 BUD 52442576

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	0.44	343.3	Lg	07:48:41.314	-0.2					T__						52442579	FDSN	SK	--	BUD	BUD	EHE	???	_	
ABAH	0.44	58.4	Pg	07:48:35.982	1.0					T__		5.5		---	ML	1.3	52442577	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.44	58.4	Lg	07:48:41.315	-1.3					T__				---		52442578	FDSN	HU	--	BUD	BUD	HHE	???	_	
(Reading ML: 1.3 magdef=1 (Station ML: 1.3 magdef=0)																									
PSZ	0.54	254.6	Pg	07:48:38.005	0.4					T__		5.8		---	ML	1.6	52442580	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.54	254.6	Lg	07:48:44.914	-1.5					T__				---		52442581	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.6 magdef=1 (Station ML: 1.6 magdef=0)																									
PSZI	0.54	254.6	I	07:51:27.633	3.5	71.9	-2.1			TA_				---		159	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019sunp Northwestern Balkan Peninsula

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/09/25	09:13:35.82	0.73	3.79	45.5948	17.2380				0.0	0.0	9	0	230	0.78	2.14	kx	BUD	52752145	BUD			360
2019/09/25	09:13:32.69	1.65	5.57	45.6414	17.2646	7.8	3.2	140	0.0f		12	6	226	0.74	2.91	kx	ILOC	119	ILOC			241
#PRIME																						
(locality : Batinjska-Rijeka Croatia)																						

Magnitude Err Nsta Author OrigID
 MLv 2.1 0.4 4 BUD 52752145
 M 2.1 4 BUD 52752145
 ML 2.1 0.4 4 ILOC 114

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	0.74	52.3	Pg	09:13:48.091	0.2					T__		4.1		---	ML	1.5	52752146	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
KOVH	0.74	52.3	Lg	09:13:59.274	-0.2					T__				---		52752147	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.5 magdef=1 (Station ML: 1.5 magdef=1)																									
BEHE	0.90	337.8	Lg	09:14:04.986	0.1					T__				---		52752148	FDSN	HU	--	BUD	BUD	BHE	???	_	
PTJ	0.95	286.8	Pg	09:13:52.042	0.3					T__		7.9		---	ML	1.9	52752149	FDSN	CR	--	BUD	BUD	BHZ	BHZ	_
PTJ	0.95	286.8	Lg	09:14:05.886	-0.5					T__				---		52752150	FDSN	CR	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.9 magdef=1 (Station ML: 1.9 magdef=1)																									
KOGS	1.07	319.2	Lg	09:14:10.253	0.4					T__				---		52752151	FDSN	SL	--	BUD	BUD	BHE	???	_	
CRES	1.28	278.9	Pg	09:13:57.581	0.1					T__		14.5		---	ML	2.4	52752152	FDSN	SL	--	BUD	BUD	BHZ	BHZ	_
CRES	1.28	278.9	Lg	09:14:16.031	-0.7					T__				---		52752153	FDSN	SL	--	BUD	BUD	BHE	???	_	
(Reading ML: 2.4 magdef=1 (Station ML: 2.4 magdef=1)																									
SOP	2.10	346.9	Pg	09:14:23.201	8.9					---		7.2		---	ML	2.5	52752154	FDSN	HU	--	BUD	BUD	BHE	BHZ	_
(Reading ML: 2.5 magdef=1 (Station ML: 2.5 magdef=1)																									
PSZI	2.91	37.5	I	09:31:36.481	-12.5	217.9	-1.5			TA_				---		163	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZI	2.91	37.5	I	09:32:00.029	11.1	218.5	-0.9			TA_				---		164	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019tdnt Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/09/30	07:32:19.72	0.94	0.63	47.9499	19.3751				0.0	0.0	5	0	206	0.35	1.30	kx	BUD	52756640	sysop			
2019/09/30	07:32:19.72			47.9151	19.4088				0.0							kx	BUD_GT	52756640	BUD			
(GT info : GT2 explosion)																						
(Locality : Szanda Hungary)																						
2019/09/30	07:32:18.32	1.52	0.75	47.9071	19.4272	5.0	1.9	89	0.0f		7	5	197	0.31	1.28	ke	ILOC	120	ILOC			322
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID
M	1.9	2	BUD	52756640
MLv	1.9 0.5	2	BUD	52756640

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	0.31	87.9	I	07:33:58.800	-0.9	269.1	0.9			TA_						167	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.31	87.8	Pg	07:32:25.326	-0.1					T__		19.4		---	ML	1.5	52756641	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.31	87.8	Lg	07:32:30.849	-0.1					T__				---		52756642	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=0)																									
BUD	0.50	212.9	Lg	07:32:36.573	-0.7					T__				---		52756643	FDSN	HU	--	BUD	BUD	BHN	???	_	
KECS	0.91	50.5	Pg	07:32:37.376	0.9					T__		15.8		---	ML	2.2	52756644	FDSN	SK	--	BUD	BUD	EHN	EHZ	_
(Reading ML: 2.2 magdef=1)																									
(Station ML: 2.2 magdef=0)																									
ABAH	1.28	71.6	Sn	07:33:01.627	-0.3					T__				---		52756645	FDSN	HU	--	BUD	BUD	HHE	???	_	

Event bud2019tlax Austria

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/10/04	10:08:26.83	0.34	0.86	47.6419	16.2851				0.0	0.0	10	0	82	0.19	1.68	kx	BUD	53521982	BUD				360
2019/10/04	10:08:25.31	1.36	3.07	47.6232	16.4500	5.1	4.0	150	0.0f		11	7	105	0.09	2.34	kx	ILOC	121	ILOC				158
(#PRIME)																							
(locality : Burgruine-Landsee Austria)																							

Magnitude	Err	Nsta	Author	OrigID
MLv	1.7 0.6	4	BUD	53521982
M	1.7	4	BUD	53521982
ML	1.7 0.7	4	ILOC	116

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	
SOP	0.09	50.6	Pg	10:08:29.322	1.7					T__		17.0		---	ML	0.8	53521983	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
SOP	0.09	50.6	Lg	10:08:31.572	2.1					T__				---		53521984	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 0.8 magdef=1)																									
(Station ML: 0.8 magdef=1)																									
CONA	0.50	307.8	Pg	10:08:35.584	0.2					T__		9.1		---	ML	1.7	53521985	FDSN	OE	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
EGYH	0.63	108.7		10:08:52.702						---				---		53521987	FDSN	HU	--	BUD	BUD	HHN	???	_	
ARSA	0.73	239.7	Pg	10:08:39.402	-0.1					T__		7.1		---	ML	1.8	53521986	FDSN	OE	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
KOGS	1.18	186.7	Pg	10:08:49.032	0.4					T__		33.2		---	ML	2.7	53521989	FDSN	SL	--	BUD	BUD	BHZ	BHZ	_
KOGS	1.18	186.7	Lg	10:09:04.570	-1.1					T__				---		53521988	FDSN	SL	--	BUD	BUD	BHE	???	_	

(Reading ML: 2.7 magdef=1
(Station ML: 2.7 magdef=1

KRUC	1.44	358.6	Pg	10:08:52.495	-0.1					T__						53521990	FDSN	CZ	--	BUD	BUD	BHZ	???	_
KRUC	1.44	358.6	Lg	10:09:11.973	-1.1					T__						53521991	FDSN	CZ	--	BUD	BUD	BHE	???	_
VRAC	1.69	3.2	Lg	10:09:19.311	-1.3					T__						53521992	FDSN	CZ	--	BUD	BUD	BHE	???	_
PSZI	2.34	81.5	I	10:23:04.218	-8.0	264.4	0.4			TA_						169	FDSN	HN	--	BUD	BUD	BDF	???	_

Event bud2019tshk Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/10/08	09:22:31.66	0.52	1.19	48.5573	20.8165				0.0	0.0	7	0	153	0.23	0.92	kx	BUD	52858671	sysop			
2019/10/08	09:22:30.02	1.28	1.90	48.5638	20.8266	5.2	4.1	11	0.0f		9	5	155	0.24	0.92	kx	ILOC	122	ILOC			246

(#PRIME)

(Locality : Dvorniky-Vcelare Slovakia)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.6	0.3	4 BUD	52858671
M	1.6		4 BUD	52858671
ML	1.7	0.3	4 ILOC	117

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	250.5	Pg	09:22:34.509	-0.5					T__		87.0			ML	1.9	52858672	FDSN	SK	--	BUD	BUD	EHE	EHZ	_
KECS	0.24	250.5	Lg	09:22:38.555	-0.3					T__						52858673	FDSN	SK	--	BUD	BUD	EHN	???	_	

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

ABAH	0.38	134.1	Pg	09:22:37.517	-0.4					T__		9.7			ML	1.4	52858674	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.38	134.1	Lg	09:22:44.717	0.1					T__						52858675	FDSN	HU	--	BUD	BUD	HHE	???	_	

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

PSZ	0.90	224.3	Pg	09:22:48.471	-0.4					T__		6.7			ML	1.8	52858676	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.90	224.3	Lg	09:23:01.666	-1.2					T__						52858677	FDSN	GE	--	BUD	BUD	BHN	???	_	

(Reading ML: 1.8 magdef=1
(Station ML: 1.8 magdef=1

PSZI	0.90	224.3	I	09:27:38.012	4.3	44.1	0.5			TA_						171	FDSN	HN	--	BUD	BUD	BDF	???	_	
NIE	0.92	338.1	Pn	09:22:50.561	1.0					T__		2.9			ML	1.5	52858678	FDSN	PL	--	BUD	BUD	BHZ	BHZ	_

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

Event bud2019txvd Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/10/11	09:59:14.19	0.45	0.94	46.8474	17.3383				0.0	0.0	11	0	166	0.54	1.66	kx	BUD	52989669	sysop			
2019/10/11	09:59:13.78	1.42	0.62	46.8949	17.3675				7.1	15.2	7	0	246	0.59	1.11	kx	BUD	52912207	sysop			
2019/10/11	09:59:11.81	1.06	1.12	46.8304	17.3116	5.9	3.7	163	0.0f		13	8	98	0.52	2.06	kx	ILOC	123	ILOC			164

(#PRIME)

(Locality : Várvölgy Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.7		3 BUD	52912207
MLv	1.7	0.7	3 BUD	52912207
M	1.6		4 BUD	52989669
MLv	1.6	0.5	4 BUD	52989669
ML	1.5	0.3	4 ILOC	118

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	
BEHE	0.52	225.9	Pg	09:59:22.801	0.1					T__		5.9		___	ML	1.5	52989670	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
BEHE	0.52	225.9	Lg	09:59:31.774	0.9					T__				___		52989671	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=1)																									
KOGS	0.83	242.8	Pn	09:59:30.014	-0.0					T__		33.4		___	ML	2.5	52989672	FDSN	SL	--	BUD	BUD	BHZ	BHZ	_
KOGS	0.83	242.8	Sn	09:59:42.881	-1.5					T__				___		52989673	FDSN	SL	--	BUD	BUD	BHN	???	_	
(Station ML: 2.5 magdef=1)																									
KOVH	0.92	143.4	Pn	09:59:31.855	0.6					T__		3.0		___	ML	1.5	52989674	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
KOVH	0.92	143.4	Sn	09:59:45.497	-1.0					T__				___		52989675	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=1)																									
MORH	1.11	123.3	Pg	09:59:34.288	0.3					T__		1.1		___	ML	1.2	52989677	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MORH	1.11	123.3	Lg	09:59:49.469	-1.1					T__				___		52989676	FDSN	HU	--	BUD	BUD	BHE	???	_	
(Station ML: 1.2 magdef=1)																									
ARSA	1.29	289.6	Sn	09:59:55.450	0.1					T__				___		52989678	FDSN	OE	--	BUD	BUD	BHN	???	_	
CONA	1.48	318.6	Lg	10:00:01.763	-0.7					T__				___		52989679	FDSN	OE	--	BUD	BUD	BHE	???	_	
CRES	1.63	232.7	Sn	10:00:05.271	0.9					T__				___		52989680	FDSN	SL	--	BUD	BUD	BHN	???	_	
PSZI	2.06	57.3	I	10:12:13.817	2.3	242.4	3.2			TA_				___		172	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019udcd Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/10/14	07:12:16.00		0.38	47.5181	18.3827				0.0			0					kx BUD	53573952	BUD			360
2019/10/14	07:12:13.90	1.75	0.83	47.5314	18.4287	11.2	6.3	78	0.0f		4	3	213	0.20	1.06		kx ILOC	124	ILOC			359

(#PRIME)
(locality : Tatabánya Hungary)

Magnitude	Err	Nsta	Author	OrigID	
M	2.7	1	BUD	53573952	
MLv	2.7	0.0	1	BUD	53573952

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	0.20	214.2	Pg	07:12:18.977	0.5					T__		753.3		___	ML	2.7	53573953	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.20	214.2	Lg	07:12:21.504	-0.7					T__				___		53573954	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.7 magdef=1 Station ML: 2.7 magdef=0)																									
PSZI	1.06	68.1	I	07:17:47.108	-32.9	251.9	2.7			_A_				___		173	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	1.06	68.1	Sn	07:12:51.833	-0.2					T__				___		53573955	FDSN	GE	--	BUD	BUD	BHE	???	_	

Event bud2019udhu Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/10/14	10:03:46.55	0.52	1.01	48.5587	20.7864				0.0	0.0	7	0	150	0.21	0.92		kx BUD	52990974	sysop			
2019/10/14	10:03:45.05	1.27	1.26	48.5536	20.7779	5.1	4.0	11	0.0f		9	5	149	0.21	0.92		kx ILOC	125	ILOC			243

(#PRIME)
(locality : Dvorniky-Vcelare Slovakia)

Magnitude	Err	Nsta	Author	OrigID	
MLv	1.6	0.3	4	BUD	52990974

M 1.6 4 BUD 52990974
 ML 1.5 0.3 4 ILOC 119

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	250.2	Pg	10:03:48.973	-0.4					T__		157.4		___	ML	2.1	52990976	FDSN	SK	--	BUD	BUD	EHN	EHZ	_
KECS	0.21	250.2	Lg	10:03:52.956	0.2					T__				___		52990975	FDSN	SK	--	BUD	BUD	EHN	???	_	
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=1)																									
ABAH	0.40	129.8	Pg	10:03:53.499	0.2					T__		7.7		___	ML	1.3	52990977	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.40	129.8	Lg	10:03:59.626	-0.6					T__				___		52990978	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1 Station ML: 1.3 magdef=1)																									
PSZ	0.87	223.2	Pg	10:04:02.988	-0.3					T__		4.8		___	ML	1.7	52990980	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.87	223.2	Lg	10:04:16.134	-0.7					T__				___		52990981	FDSN	GE	--	BUD	BUD	BHZ	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
PSZI	0.87	223.2	I	10:08:40.514	2.8	39.6	-3.0			TA_				___		174	FDSN	HN	--	BUD	BUD	BDF	???	_	
NIE	0.92	340.2	Pn	10:04:05.116	0.5					T__		2.3		___	ML	1.4	52990979	FDSN	PL	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.4 magdef=1 Station ML: 1.4 magdef=1)																									

Event bud2019ugwm Northwestern Balkan Peninsula

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/10/16	08:53:03.00		0.20	45.8070	18.4064				0.0				0				kx BUD	53574825	BUD			360
2019/10/16	08:53:03.00			45.8525	18.3977				0.0								kx BUD_GT	53574825	BUD			
(GT info : GT2 explosion) (Locality : Nagyharsány Hungary)																						
2019/10/16	08:53:03.74	3.43	0.22	45.8999	18.4023	23.4	7.8	1	0.0f		5	3	283	0.28	2.26		ke ILOC	126		ILOC		358
(#PRIME)																						

Magnitude Err Nsta Author OrigID
 M 0.8 2 BUD 53574825
 MLv 0.8 0.2 2 BUD 53574825

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	0.28	311.9	Pg	08:53:10.132	0.1					T__		4.6		___	ML	0.7	53574827	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
KOVH	0.28	311.9	Lg	08:53:14.771	-0.2					T__				___		53574826	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 0.7 magdef=1 Station ML: 0.7 magdef=0)																									
MORH	0.36	28.0	Pg	08:53:11.309	-0.1					T__		1.2		___	ML	0.4	53574828	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MORH	0.36	28.0	Lg	08:53:17.610	0.2					T__				___		53574829	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 0.4 magdef=1 Station ML: 0.4 magdef=0)																									
PSZI	2.26	26.3	I	09:08:12.692	52.0	207.9	0.5			_A_				___		178	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019uirl Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/10/17	08:36:43.00		0.34	46.1660	18.2999				0.0				0				kx BUD	53615784	BUD			360
2019/10/17	08:36:43.00			46.1765	18.2926				0.0								kx BUD_GT	53615784	BUD			
(GT info : GT2 explosion) (Locality : Komló-II Hungary)																						

2019/10/17 08:36:41.66 1.54 0.34 46.1535 18.2942 8.4 3.7 139 0.0f 6 3 168 0.15 2.08 ke ILOC 127 ILOC 315
 (#PRIME)

Magnitude Err Nsta Author OrigID
 M 1.1 2 BUD 53615784
 MLv 1.1 0.5 2 BUD 53615784

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	244.3	Pg	08:36:45.492	0.2					T__		47.4		___ ML	1.4	53615785	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
KOVH	0.15	244.3	Lg	08:36:47.985	-0.3					T__				___		53615786	FDSN	HU	--	BUD	BUD	BHN	???	_
(Reading ML: 1.4 magdef=1 (Station ML: 1.4 magdef=0)																								
MORH	0.25	75.7	Pg	08:36:47.500	0.3					T__		6.2		___ ML	0.8	53615788	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MORH	0.25	75.7	Lg	08:36:51.240	-0.4					T__				___		53615787	FDSN	HU	--	BUD	BUD	BHN	???	_
(Reading ML: 0.8 magdef=1 (Station ML: 0.8 magdef=0)																								
PSZI	2.08	31.2	I	08:49:46.034	-0.0	212.3	-0.1			TA_				___		181	FDSN	HN	--	BUD	BUD	BDF	???	_

Event bud2019uvxq Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/10/24	14:30:42.46	0.58	0.53	47.0629	19.5040				0.0	0.0	5	0	198	0.90	1.03	kx	BUD	53616734	BUD			360
2019/10/24	14:30:40.19	1.66	2.74	47.1030	19.4954	14.4	4.0	113	0.0f		6	4	195	0.86	1.06	kx	ILOC	128	ILOC			269

(#PRIME)
 (locality : Dabas Hungary)

Magnitude Err Nsta Author OrigID
 M 1.7 2 BUD 53616734
 MLv 1.7 0.4 2 BUD 53616734

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	0.86	18.2	I	14:35:24.688	-4.6	210.6	12.1			T__				___		184	FDSN	HN	--	BUD	BUD	BDF	???	_
PSZ	0.86	18.2	Pg	14:30:59.133	0.6					T__		9.5		___ ML	2.0	53616736	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.86	18.2	Lg	14:31:11.944	-0.1					T__				___		53616737	FDSN	GE	--	BUD	BUD	BHE	???	_
(Reading ML: 2.0 magdef=1 (Station ML: 2.0 magdef=0)																								
CSKK	0.88	287.6	Lg	14:31:11.390	0.1					T__				___		53616735	FDSN	HU	--	BUD	BUD	HHE	???	_
MORH	1.06	213.8	Pg	14:31:01.557	0.1					T__		2.0		___ ML	1.4	53616739	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MORH	1.06	213.8	Lg	14:31:16.514	-1.0					T__				___		53616738	FDSN	HU	--	BUD	BUD	BHE	???	_
(Reading ML: 1.4 magdef=1 (Station ML: 1.4 magdef=0)																								

Event bud2019uxim Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/10/25	09:07:47.58	0.77	0.54	47.3560	18.7458				0.0	0.0	7	0	215	0.23	1.42	kx	BUD	53616820	BUD			360
2019/10/25	09:07:46.48	1.22	1.27	47.4878	18.7341	5.1	3.6	173	0.0f		9	5	157	0.20	1.32	kx	ILOC	129	ILOC			221

(#PRIME)
 (locality : Etyek Hungary)

Magnitude Err Nsta Author OrigID
 M 2.4 3 BUD 53616820
 MLv 2.4 1.1 3 BUD 53616820

ML 2.1 1.1 3 ILOC 123

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	0.20	91.1	Pg	09:07:51.008	-0.1					T__		34.8		___	ML	1.4	53616821	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
BUD	0.20	91.1	Lg	09:07:54.968	0.2					T__				___		53616822	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									
CSKK	0.34	249.0	Pg	09:07:53.830	-0.0					T__		2277.2		___	ML	3.6	53616823	FDSN	HU	--	BUD	BUD	HHN	HHZ	_
CSKK	0.34	249.0	Lg	09:07:58.354	-1.1					T__				___		53616824	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 3.6 magdef=1)																									
(Station ML: 3.6 magdef=1)																									
PSZI	0.89	60.8	I	09:12:45.630	-2.8	243.7	2.1			TA_				___		186	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.89	60.8	Pn	09:08:06.059	0.5					T__		12.7		___	ML	2.1	53616826	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.89	60.8	Lg	09:08:18.902	-0.6					T__				___		53616825	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 2.1 magdef=1)																									
(Station ML: 2.1 magdef=1)																									
MODS	1.32	312.7	Lg	09:08:32.151	0.2					T__				___		53616827	FDSN	SK	--	BUD	BUD	HHN	???	_	

Event bud2019uxjl Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2019/10/25	09:36:38.65	1.36	0.43	47.2482	18.1596				0.0	0.0	4	0	228	0.13	1.35	kx	BUD	53616862	BUD			360		
2019/10/25	09:36:38.65			47.2302	18.2835				0.0	0.0		0				kx	BUD_GT	53616862	BUD			360		
(GT info : GT2 explosion)																								
(locality : Iszkaszentgyörgy Hungary)																								
2019/10/25	09:36:37.31	1.61	2.04	47.2594	18.3990	5.4	4.9	144	0.0f		6	4	147	0.14	1.21	ke	ILOC	130	ILOC			261		
(#PRIME)																								

Magnitude	Err	Nsta	Author	OrigID	
M	2.7	1	BUD	53616862	
MLv	2.7	0.0	1	BUD	53616862

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	317.8	Pg	09:36:40.834	0.1					T__		1020.1		___	ML	2.7	53616863	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.14	317.8	Lg	09:36:42.981	-0.6					T__				___		53616864	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.7 magdef=1)																									
(Station ML: 2.7 magdef=0)																									
MORH	1.06	170.8	Lg	09:37:13.795	-0.5					T__				___		53616865	FDSN	HU	--	BUD	BUD	BHE	???	_	
PSZI	1.21	56.4	I	09:43:38.247	-3.3	237.7	0.2			TA_				___		187	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	1.21	56.4	Lg	09:37:21.342	1.1					T__				___		53616866	FDSN	GE	--	BUD	BUD	BHE	???	_	

Event bud2019vgot Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2019/10/30	10:31:02.98	0.36	0.95	47.6911	18.5200				0.0	0.0	9	0	124	0.19	1.48	kx	BUD	53697964	sysop					
2019/10/30	10:31:01.08	1.17	1.30	47.7104	18.5484	4.4	3.8	170	0.0f		11	7	133	0.19	1.50	kx	ILOC	131	ILOC			139		
(#PRIME)																								
(locality : Bersekbánya-II Hungary)																								

Magnitude	Err	Nsta	Author	OrigID	
MLv	2.1	0.7	4	BUD	53697964
M	2.1		4	BUD	53697964
ML	2.1	0.7	4	ILOC	126

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	0.19	303.1	Pg	10:31:05.442	0.1					T__		329.3		___	ML	2.3	53697965	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
SRO	0.19	303.1	Lg	10:31:08.419	-0.2					T__				___		53697966	FDSN	SK	--	BUD	BUD	EHE	???	_	
(Reading ML: 2.3 magdef=1)																									
(Station ML: 2.3 magdef=1)																									
CSKK	0.40	209.4	Pg	10:31:09.463	0.0					T__		596.6		___	ML	3.2	53697968	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.40	209.4	Lg	10:31:15.061	-0.8					T__				___		53697967	FDSN	HU	--	BUD	BUD	HHE	???	_	
(Reading ML: 3.2 magdef=1)																									
(Station ML: 3.2 magdef=1)																									
EGYH	0.87	250.8	Lg	10:31:32.007	0.1					T__				___		53697969	FDSN	HU	--	BUD	BUD	HHN	???	_	
PSZI	0.93	76.6	I	10:36:13.245	-3.4	256.8	-0.8			TA_				___		191	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.93	76.6	Pg	10:31:21.396	0.7					T__		5.6		___	ML	1.8	53697971	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.93	76.6	Lg	10:31:34.908	-0.4					T__				___		53697970	FDSN	GE	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
ZST	1.09	297.1	Lg	10:31:37.809	-0.9					T__				___		53697972	FDSN	SK	--	BUD	BUD	HHN	???	_	
MORH	1.50	177.5	Pn	10:31:28.496	0.2					T__		1.2		___	ML	1.4	53697973	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									

Event bud2019vvgd Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2019/11/07	11:12:14.78	0.34	1.11	46.8027	17.2643				0.0	0.0	9	0	102	0.78	1.48	kx	BUD	54405211	sysop					
2019/11/07	11:12:14.84	0.75	0.67	46.7745	17.2765				18.5	9.7	9	0	105	0.78	1.50	kx	BUD	53642509	sysop					
2019/11/07	11:12:12.52	1.12	1.88	46.8579	17.3412	6.8	4.0	157	0.0f		11	7	96	0.81	2.03	kx	ILOC	132	ILOC			142		
(#PRIME)																								
(locality : Várvölgy Hungary)																								

Magnitude	Err	Nsta	Author	OrigID	
M	1.4	2	BUD	53642509	
MLv	1.4	0.4	2	BUD	53642509
M	2.1	3	BUD	54405211	
MLv	2.1	1.2	3	BUD	54405211
ML	1.7	0.8	3	ILOC	127

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	0.81	50.8	Pn	11:12:31.025	0.8					T__		330.8		___	ML	3.5	54405213	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.81	50.8	Sn	11:12:44.969	0.6					T__				___		54405214	FDSN	HU	--	BUD	BUD	HHE	???	_	
(Reading ML: 3.5 magdef=1)																									
(Station ML: 3.5 magdef=1)																									
KOGS	0.86	241.8	Lg	11:12:41.871	-0.3					T__				___		54405212	FDSN	SL	--	BUD	BUD	BHE	???	_	
KOVH	0.93	145.5	Pg	11:12:31.422	-0.0					T__		4.6		___	ML	1.7	54405215	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
KOVH	0.93	145.5	Lg	11:12:44.871	-0.8					T__				___		54405216	FDSN	HU	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
MORH	1.11	125.1	Pg	11:12:35.325	0.7					T__		1.1		___	ML	1.2	54405217	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.2 magdef=1)																									
MORH	1.11	125.1	Lg	11:12:50.471	-0.8					T__				___		54405218	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Station ML: 1.2 magdef=1)																									
ARSA	1.30	288.2	Sn	11:12:53.824	-2.5					T__				___		54405219	FDSN	OE	--	BUD	BUD	BHZ	???	_	
CONA	1.47	317.4	Sn	11:13:01.418	0.5					T__				___		54405220	FDSN	OE	--	BUD	BUD	BHE	???	_	

PSZI 2.03 57.6 I 11:24:55.119 -4.4 241.7 2.2 TA_ --- 192 FDSN HN -- BUD BUD BDF ??? _

Event bud2019wcjk Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/11/11	08:48:47.29	0.49	0.61	47.3537	18.3478				0.0	0.0	5	0	141	0.06	1.28	kx	BUD	54405916	sysop			
2019/11/11	08:48:44.12	1.42	3.05	47.3751	18.4583	5.7	4.4	154	0.0f		7	5	155	0.13	1.31	kx	ILOC	133	ILOC			229

(#PRIME)

(locality : Gánt Hungary)

Magnitude	Err	Nsta	Author	OrigID
MLv	3.2	0.0	1 BUD	54405916
M	3.2		1 BUD	54405916

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	265.0	Pg	08:48:47.526	0.1					T__		5160.1		___	ML	3.4	54405917	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.13	265.0	Lg	08:48:49.358	-0.8					T__				___		54405918	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 3.4 magdef=1)																									
(Station ML: 3.4 magdef=0)																									
PSZI	1.11	60.2	I	08:55:04.231	-5.8	242.1	0.8			TA_				___		194	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	1.11	60.2	Lg	08:49:25.541	1.6					T__				___		54405919	FDSN	GE	--	BUD	BUD	BHE	???	_	
MORH	1.17	173.7	Lg	08:49:24.676	-0.2					T__				___		54405920	FDSN	HU	--	BUD	BUD	BHE	???	_	
KOVH	1.31	191.0	Sn	08:49:27.882	-0.3					T__				___		54405921	FDSN	HU	--	BUD	BUD	BHE	???	_	

Event bud2019whwg Northwestern Balkan Peninsula

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/11/14	08:59:15.00		0.27	45.7745	18.4250				0.0								kx	BUD	54406727	sysop			
2019/11/14	08:59:15.37	1.92	0.33	45.8520	18.4057	8.8	4.7	125	0.0f		7	3	292	0.32	2.30	kx	ILOC	134	ILOC				358

(#PRIME)

(locality : Beremend Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.1		2 BUD	54406727
MLv	1.1	0.2	2 BUD	54406727

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	0.32	318.0	Pg	08:59:22.633	0.3					T__		7.0		___	ML	1.0	54406729	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
KOVH	0.32	318.0	Lg	08:59:27.417	-0.4					T__				___		54406728	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=0)																									
MORH	0.40	24.4	Pg	08:59:24.058	0.2					T__		2.3		_c_	ML	0.8	54406730	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MORH	0.40	24.4	Lg	08:59:30.165	-0.3					T__				___		54406731	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 0.8 magdef=1)																									
(Station ML: 0.8 magdef=0)																									
PSZI	2.30	25.7	I	09:11:55.991	-999	206.3	-0.5			_A_				___		196	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZI	2.30	25.7	I	09:13:48.692	0.3	204.3	-2.5			TA_				___		197	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019whyl Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/11/14	10:05:00.82	1.03	0.39	47.8171	19.4457				0.0	0.0	5	0	220	0.32	1.70	kx	BUD	54406798	sysop				
2019/11/14	10:05:00.82			47.8920	19.4049				0.0	0.0			0			kx	BUD_GT	54406798	BUD				360

(GT info : GT2 explosion)

(locality : Bercel Hungary)

2019/11/14 10:04:58.94 1.56 0.82 47.9165 19.4016 4.4 2.0 88 0.0f 7 5 199 0.33 1.62 ke ILOC 135 ILOC 220 (#PRIME)

Magnitude Err Nsta Author OrigID
M 1.3 1 BUD 54406798
MLv 1.3 0.0 1 BUD 54406798

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 0.33 89.6 I 10:06:46.746 0.8 270.5 0.6 TA_ 198 FDSN HN -- BUD BUD BDF ??? _
PSZ 0.33 89.5 Pg 10:05:06.514 0.1 T__ 14.2 ___ ML 1.4 54406799 FDSN GE -- BUD BUD BHZ BHZ _
PSZ 0.33 89.5 Lg 10:05:11.195 -0.9 T__ ___ 54406800 FDSN GE -- BUD BUD BHN ??? _
(Reading ML: 1.4 magdef=1
(Station ML: 1.4 magdef=0
JAVC 1.49 309.9 Lg 10:05:50.585 0.3 T__ ___ 54406802 FDSN CZ -- BUD BUD BHN ??? _
MODS 1.49 288.6 Lg 10:05:49.669 -0.6 T__ ___ 54406801 FDSN SK -- BUD BUD HHN ??? _
NIE 1.62 21.3 Lg 10:05:53.536 0.8 T__ ___ 54406803 FDSN PL -- BUD BUD BHE ??? _

Event bud2019wuxt Czech and Slovak Republics

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2019/11/21 12:30:45.89 0.50 1.10 48.1749 18.9532 0.0 0.0 6 0 168 0.68 1.85 kx BUD 54424163 sysop
2019/11/21 12:30:43.53 1.34 1.16 48.1471 18.9517 4.3 4.0 119 0.0f 8 6 172 0.67 1.88 kx ILOC 136 ILOC 200
(#PRIME)
(locality : Horne-Turovce Slovakia)

Magnitude Err Nsta Author OrigID
MLv 1.6 0.0 1 BUD 54424163
M 1.6 1 BUD 54424163

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 0.67 109.6 I 12:34:23.626 -2.2 290.8 0.5 TA_ 199 FDSN HN -- BUD BUD BDF ??? _
PSZ 0.67 109.5 Pg 12:30:58.519 0.6 T__ 4.8 ___ ML 1.6 54424164 FDSN GE -- BUD BUD BHZ BHZ _
PSZ 0.67 109.5 Lg 12:31:07.984 -0.6 T__ ___ 54424165 FDSN GE -- BUD BUD BHN ??? _
(Reading ML: 1.6 magdef=1
(Station ML: 1.6 magdef=0
KECS 1.08 71.2 Lg 12:31:20.656 -0.3 T__ ___ 54424166 FDSN SK -- BUD BUD EHE ??? _
JAVC 1.11 310.4 Sn 12:31:22.692 0.1 T__ ___ 54424167 FDSN CZ -- BUD BUD BHN ??? _
MODS 1.14 282.1 Lg 12:31:22.081 -1.1 T__ ___ 54424168 FDSN SK -- BUD BUD HHN ??? _
MORC 1.88 330.9 Sn 12:31:41.725 0.2 T__ ___ 54424169 FDSN CZ -- BUD BUD BHE ??? _

Event bud2019xdwo Hungary

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2019/11/26 10:07:43.00 0.56 46.2332 18.2000 0.0 0 0 kx BUD 54424677 sysop
2019/11/26 10:07:43.00 46.1765 18.2926 0.0 kx BUD_GT 54424677 BUD
(GT info : GT2 explosion)
(locality : Komló-II Hungary)
2019/11/26 10:07:41.35 1.79 0.73 46.2644 18.2397 10.0 4.1 129 0.0f 5 2 184 0.20 2.00 ke ILOC 137 ILOC 293
(#PRIME)

Magnitude Err Nsta Author OrigID

M 1.2 2 BUD 54424677
 MLv 1.2 0.4 2 BUD 54424677

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	0.20	208.9	Pg	10:07:46.256	0.3					T__		55.5		___	ML	1.6	54424678	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
KOVH	0.20	208.9	Lg	10:07:49.055	-0.6					T__				___		54424679	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.6 magdef=1 (Station ML: 1.6 magdef=0)																									
MORH	0.28	99.9	Pg	10:07:48.597	1.0					___		5.5		___	ML	0.8	54424681	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
MORH	0.28	99.9	Lg	10:07:52.465	0.0					T__				___		54424680	FDSN	HU	--	BUD	BUD	BHN	???	_	
(Reading ML: 0.8 magdef=1 (Station ML: 0.8 magdef=0)																									
PSZI	2.00	33.7	I	10:20:15.741	-0.8	209.4	-5.5			TA_				___		203	FDSN	HN	--	BUD	BUD	BDF	???	_	

Event bud2019xoyq Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2019/12/02	11:40:03.00		0.42	47.7531	19.0591				0.0			0					kx BUD	55143644	sysop					
2019/12/02	11:40:03.00			47.7791	19.0372				0.0								kx BUD_GT	55143644	BUD					
(GT info : GT2 explosion) (locality : Dunabogdány Hungary)																								
2019/12/02	11:40:02.69	1.73	1.50	47.7849	19.1019	5.6	3.4	72	0.0f		5	3	243	0.55	1.44		ke ILOC	138	ILOC			359		
(#PRIME)																								

Magnitude Err Nsta Author OrigID
 M 1.8 1 BUD 55143644
 MLv 1.8 0.0 1 BUD 55143644

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	0.55	75.7	I	11:43:04.484	1.9	258.8	2.5			TA_				___		205	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.55	75.7	Pg	11:40:14.437	-0.2					T__		9.7		___	ML	1.8	55143645	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.55	75.7	Lg	11:40:23.066	-0.5					T__				___		55143646	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.8 magdef=1 (Station ML: 1.8 magdef=0)																									
JAVC	1.44	318.9	Sn	11:40:50.558	0.8					T__				___		55143647	FDSN	CZ	--	BUD	BUD	BHE	???	_	

Event bud2019xsnh Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2019/12/04	10:29:22.15	0.44	1.10	48.5604	20.8185				0.0	0.0	9	0	130	0.23	1.23		kx BUD	54409250	sysop					
2019/12/04	10:29:20.45	1.13	1.05	48.5481	20.8189	5.1	3.8	12	0.0f		11	6	130	0.23	1.22		kx ILOC	139	ILOC			215		
(#PRIME) (locality : Dvorniky-Vcelare Slovakia)																								

Magnitude Err Nsta Author OrigID
 MLv 1.7 0.2 5 BUD 54409250
 M 1.7 5 BUD 54409250
 ML 1.7 0.1 5 ILOC 134

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	253.8	Pg	10:29:24.992	-0.3					T__		80.8		___	ML	1.8	54409251	FDSN	SK	--	BUD	BUD	EHE	EHZ	_
KECS	0.23	253.8	Lg	10:29:29.312	0.4					T__				___		54409252	FDSN	SK	--	BUD	BUD	EHE	???	_	
(Reading ML: 1.8 magdef=1)																									

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(Station ML: 1.8 magdef=1
ABAH 0.38 131.8 Pg 10:29:29.003 0.8 T__ 11.2 ___ ML 1.4 54409253 FDSN HU -- BUD BUD HHZ HHZ _
ABAH 0.38 131.8 Lg 10:29:33.747 -1.0 T__ ___ 54409254 FDSN HU -- BUD BUD HHN ??? _
(Reading ML: 1.4 magdef=1
(Station ML: 1.4 magdef=0
PSZ 0.88 224.8 Pg 10:29:38.325 -0.7 T__ 7.9 ___ ML 1.9 54409255 FDSN GE -- BUD BUD BHZ BHZ _
PSZ 0.88 224.8 Lg 10:29:52.827 0.1 T__ ___ 54409256 FDSN GE -- BUD BUD BHE ??? _
(Reading ML: 1.9 magdef=1
(Station ML: 1.9 magdef=0
PSZI 0.88 224.8 I 10:34:21.016 2.4 43.7 -0.4 TA_ ___ 206 FDSN HN -- BUD BUD BDF ??? _
NIE 0.94 338.7 Pn 10:29:40.703 0.5 T__ 4.3 ___ ML 1.7 54409257 FDSN PL -- BUD BUD BHZ BHZ _
(Reading ML: 1.7 magdef=1
(Station ML: 1.7 magdef=1
TRPA 1.22 109.4 Pn 10:29:44.599 0.3 T__ 2.4 ___ ML 1.6 54409258 FDSN HU -- BUD BUD BHZ BHZ _
TRPA 1.22 109.4 Sn 10:30:02.650 -0.6 T__ ___ 54409259 FDSN HU -- BUD BUD BHN ??? _
(Reading ML: 1.6 magdef=1
(Station ML: 1.6 magdef=1

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Event bud2019xujl Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/12/05	10:49:12.39	0.40	0.86	48.8722	20.4830				0.1	2.6	11	0	139	0.39	1.56	kx	BUD	54428467	sysop			
2019/12/05	10:49:10.77	1.09	0.78	48.8671	20.4963	5.2	3.3	78	0.0f		13	7	138	0.38	1.55	kx	ILOC	140	ILOC			152

(#PRIME)
(locality : Gretla Slovakia)

Magnitude	Err	Nsta	Author	OrigID
MLv	2.0	0.3	5 BUD	54428467
M	2.0		5 BUD	54428467
ML	2.1	0.1	5 ILOC	135

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	0.38	181.1	Pg	10:49:18.724	0.2					T__		31.1		___	ML	1.9	54428468	FDSN	SK	--	BUD	BUD	EHN	EHZ	_
KECS	0.38	181.1	Lg	10:49:24.419	0.0					T__				___		54428469	FDSN	SK	--	BUD	BUD	EHE	???	_	
(Reading ML: 1.9 magdef=1 (Station ML: 1.9 magdef=1																									
NIE	0.57	346.9	Pg	10:49:22.248	0.8					T__		6.3		___	ML	1.6	54428471	FDSN	PL	--	BUD	BUD	BHZ	BHZ	_
NIE	0.57	346.9	Lg	10:49:29.755	0.0					T__				___		54428470	FDSN	PL	--	BUD	BUD	BHE	???	_	
(Reading ML: 1.6 magdef=1 (Station ML: 1.6 magdef=0																									
ABAH	0.76	138.9	Pg	10:49:26.039	0.3					T__		13.7		___	ML	2.1	54428472	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.76	138.9	Lg	10:49:38.215	0.1					T__				___		54428473	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.1 magdef=1 (Station ML: 2.1 magdef=1																									
PSZ	1.03	203.1	Pn	10:49:31.684	-0.1					T__		11.5		___	ML	2.1	54428474	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	1.03	203.1	Lg	10:49:46.752	-0.7					T__				___		54428475	FDSN	GE	--	BUD	BUD	BHE	???	_	
(Reading ML: 2.1 magdef=1 (Station ML: 2.1 magdef=1																									
PSZI	1.03	203.2	I	10:55:07.048	2.0	23.9	1.2			TA_				___		208	FDSN	HN	--	BUD	BUD	BDF	???	_	
OJC	1.43	341.7	Pg	10:49:39.290	0.3					T__		16.3		___	ML	2.5	54428476	FDSN	PL	--	BUD	BUD	BHZ	BHZ	_
OJC	1.43	341.7	Lg	10:49:58.331	-0.8					T__				___		54428477	FDSN	PL	--	BUD	BUD	BHN	???	_	
(Reading ML: 2.5 magdef=1 (Station ML: 2.5 magdef=0																									

TRPA 1.55 117.7 Sn 10:50:01.366 -0.3 T__ --- 54428478 FDSN HU -- BUD BUD BHN ??? _

Event bud2019xuog Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2019/12/05	13:14:11.00		0.97	47.9500	19.4600				0.0				0				kx BUD	55146388	sysop			
2019/12/05	13:14:11.00			47.9151	19.4088				0.0								kx BUD_GT	55146388	BUD			
(GT info : GT2 explosion)																						
(Locality : Szanda Hungary)																						
2019/12/05	13:14:07.99	2.07	0.10	47.9178	19.4350	6.2	1.9	89	0.0f		5	3	320	0.31	0.90	ke	ILOC	141	ILOC			359
(#PRIME)																						

Magnitude	Err	Nsta	Author	OrigID	
M	1.3	1	BUD	55146388	
MLv	1.3	0.0	1	BUD	55146388

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	0.31	89.8	I	13:15:47.563	-0.1	265.9	-4.2			TA_				---		209	FDSN	HN	--	BUD	BUD	BDF	???	_	
PSZ	0.31	89.7	Pg	13:14:14.969	-0.0					T__		15.8		---	ML	1.4	55146389	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.31	89.7	Lg	13:14:20.465	0.1					T__				---		55146390	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=0)																									
KECS	0.90	50.8	Lg	13:14:39.600	0.1					T__				---		55146391	FDSN	SK	--	BUD	BUD	EHN	???	_	

Event bud2019yfdo Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/12/11	08:20:04.35	0.31	0.83	47.2736	17.5826				0.0	0.0	11	0	105	0.11	1.69	kx	BUD	55159359	sysop				
2019/12/11	08:20:03.35	1.49	0.64	47.2988	17.5050				1.4	2.8	7	0	236	0.13	1.73	kx	BUD	54595713	sysop				
2019/12/11	08:20:02.42	1.17	0.89	47.2725	17.6077	4.4	3.9	139	0.0f		13	9	95	0.11	1.68	kx	ILOC	142	ILOC				136
(#PRIME)																							
(Locality : Nemetbánya Hungary)																							

Magnitude	Err	Nsta	Author	OrigID	
M	1.9	3	BUD	55159359	
MLv	1.9	0.3	3	BUD	55159359
ML	2.0	0.4	3	ILOC	137

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	0.11	204.4	Pg	08:20:05.254	-0.1					T__		94.0		---	ML	1.6	55159360	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.6 magdef=1)																									
MPLH	0.11	204.4	Lg	08:20:07.478	-0.3					T__				---			55159361	FDSN	HU	--	BUD	BUD	BHE	???	_
(Station ML: 1.6 magdef=1)																									
EGYH	0.24	307.7	Pg	08:20:07.104	-0.7					T__		181.3		---	ML	2.2	55159363	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
EGYH	0.24	307.7	Lg	08:20:12.084	0.1					T__				---			55159362	FDSN	HU	--	BUD	BUD	HHE	???	_
(Reading ML: 2.2 magdef=1)																									
(Station ML: 2.2 magdef=1)																									
TIH	0.42	152.3	Lg	08:20:18.271	0.3					T__				---			55159364	FDSN	HU	--	BUD	BUD	HHZ	???	_
SRO	0.72	41.2	Lg	08:20:28.151	0.1					T__				---			55159365	FDSN	SK	--	BUD	BUD	EHN	???	_
SOP	0.82	300.4	Pg	08:20:19.305	0.3					T__		10.2		---	ML	2.0	55159367	FDSN	HU	--	BUD	BUD	BHZ	BHZ	_
SOP	0.82	300.4	Lg	08:20:31.132	-0.1					T__				---			55159366	FDSN	HU	--	BUD	BUD	BHN	???	_
(Reading ML: 2.0 magdef=1)																									
(Station ML: 2.0 magdef=1)																									

KOVH	1.23	163.9	Sn	08:20:44.701	0.0					T__						55159368	FDSN	HU	--	BUD	BUD	BHE	???	_
MORH	1.28	145.7	Sn	08:20:45.192	-0.3					T__						55159369	FDSN	HU	--	BUD	BUD	BHE	???	_
PSZI	1.68	66.5	I	08:30:20.015	-2.4	249.4	1.2			TA_						211	FDSN	HN	--	BUD	BUD	BDF	???	_
PSZ	1.68	66.5	Sn	08:20:56.917	1.1					T__						55159370	FDSN	GE	--	BUD	BUD	BHE	???	_

Event bud2019yfkcz Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/12/11	11:38:18.88	0.60	0.46	48.1627	19.8326				0.0	0.0	8	0	203	0.25	1.30	kx	BUD	55159539	sysop				
2019/12/11	11:38:17.48	1.37	0.95	48.1494	19.8418	4.0	1.4	169	0.0f		10	5	201	0.23	1.31	kx	ILOC	143	ILOC			240	

(#PRIME)
(Locality : Siatorska-Bukovinka Slovakia)

Magnitude	Err	Nsta	Author	OrigID
MLv	1.9	0.3	4 BUD	55159539
M	1.9		4 BUD	55159539
ML	1.9	0.3	4 ILOC	138

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	0.23	171.3	Pg	11:38:23.496	0.6					T__		36.8		___	ML	1.5	55159540	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.23	171.3	Lg	11:38:26.854	-0.3					T__				___		55159541	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=1)																									
PSZI	0.23	171.5	I	11:39:33.352	0.4	351.7	0.2			TA_				___		213	FDSN	HN	--	BUD	BUD	BDF	???	_	
KECS	0.54	51.9	Pg	11:38:28.381	-0.0					T__		9.1		___	ML	1.8	55159543	FDSN	SK	--	BUD	BUD	EHN	EHZ	_
KECS	0.54	51.9	Lg	11:38:36.524	-0.2					T__				___		55159542	FDSN	SK	--	BUD	BUD	EHE	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
ABAH	0.95	80.6	Pg	11:38:36.880	0.7					T__		11.0		___	ML	2.1	55159544	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.95	80.6	Lg	11:38:49.603	-2.1					T__				___		55159545	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=1)																									
NIE	1.31	13.2	Pg	11:38:42.834	0.8					T__		10.0		___	ML	2.2	55159547	FDSN	PL	--	BUD	BUD	BHZ	BHZ	_
NIE	1.31	13.2	Lg	11:39:00.697	-0.2					T__				___		55159546	FDSN	PL	--	BUD	BUD	BHE	???	_	
(Reading ML: 2.2 magdef=1 Station ML: 2.2 magdef=1)																									

Event bud2019yhbw Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2019/12/12	09:44:59.00		0.28	48.0000	20.3610				0.0								kx	BUD	55163787	sysop			
2019/12/12	09:44:57.97	2.24	0.25	48.0004	20.3215	17.3	4.4	149	0.0f		5	3	241	0.30	0.50	kx	ILOC	144	ILOC			359	

(#PRIME)
(Locality : Egerbakta Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.4		2 BUD	55163787
MLv	1.4	0.3	2 BUD	55163787

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	254.2	Pg	09:45:04.801	0.0					T__		8.7		___	ML	1.1	55163788	FDSN	GE	--	BUD	BUD	BHZ	BHZ	_
PSZ	0.30	254.2	Lg	09:45:09.890	-0.1					T__				___		55163789	FDSN	GE	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.1 magdef=1)																									

(Station ML: 1.1 magdef=0

PSZI 0.30 254.2 I 09:46:34.823 0.2 76.0 2.1

KECS 0.50 12.7 Pg 09:45:08.134 0.1

KECS 0.50 12.7 Lg 09:45:15.437 -0.2

(Reading ML: 1.6 magdef=1

(Station ML: 1.6 magdef=0

T__

T__

T__

8.1

ML

214

1.6 55163791

55163790

FDSN HN

FDSN SK

FDSN SK

-- BUD BUD BDF ??? _

-- BUD BUD EHN EHZ _

-- BUD BUD EHN ??? _

STOP

