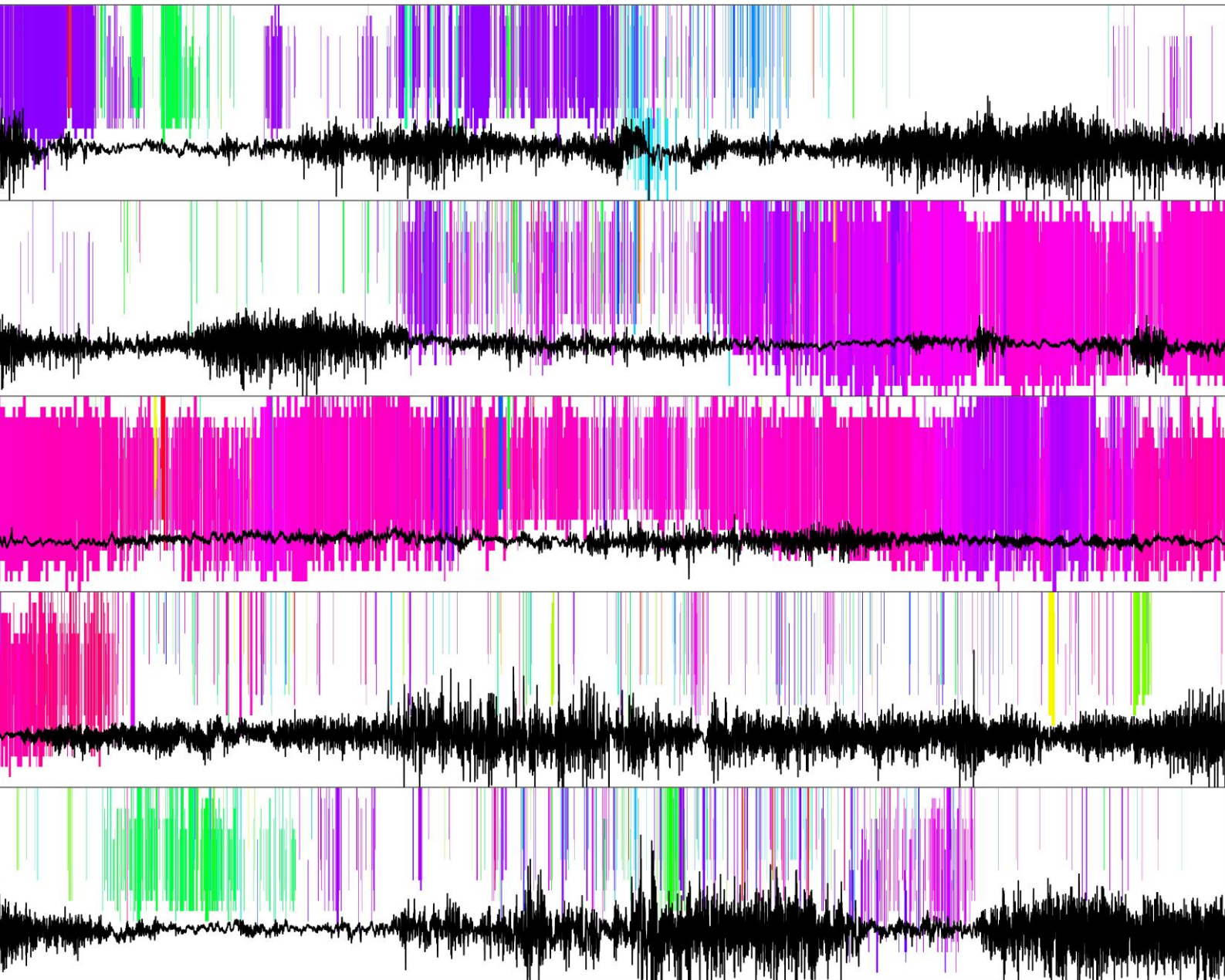


# Hungarian Seismo-Acoustic Bulletin

2023





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2023

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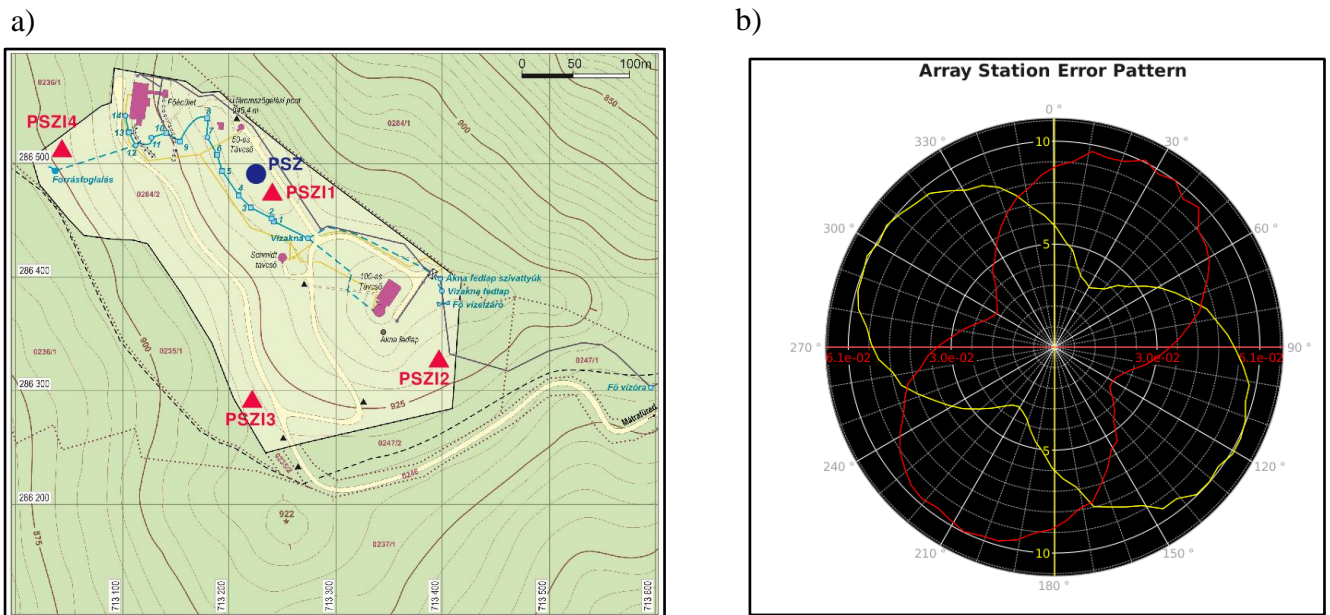
# The Hungarian National Infrasonic Network

## 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 the Hungarian Academy of Sciences, 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 Geodetic and Geophysical Institute became an independent research institute from the Research Centre for Astronomy and Earth Sciences (CSFK) and assumed its present name of HUN-REN Institute of Earth Physics and Space Science (EPSS) on April 1, 2021. The Kövesligethy Radó Seismological Observatory, HUN-REN Institute of Earth Physics and Space Science is responsible for the operations, maintenance and providing data for the Hungarian seismological (HU) and infrasonic (HN) networks.

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 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.



**Figure 1.** a) Position of the PSZI array elements relative to each other, red triangles mark the location of the microbarometers. The PSZ broadband seismological station is marked with a blue circle. b) error distribution of the azimuth and velocity estimations.

## Central and Eastern European Infrasound Network

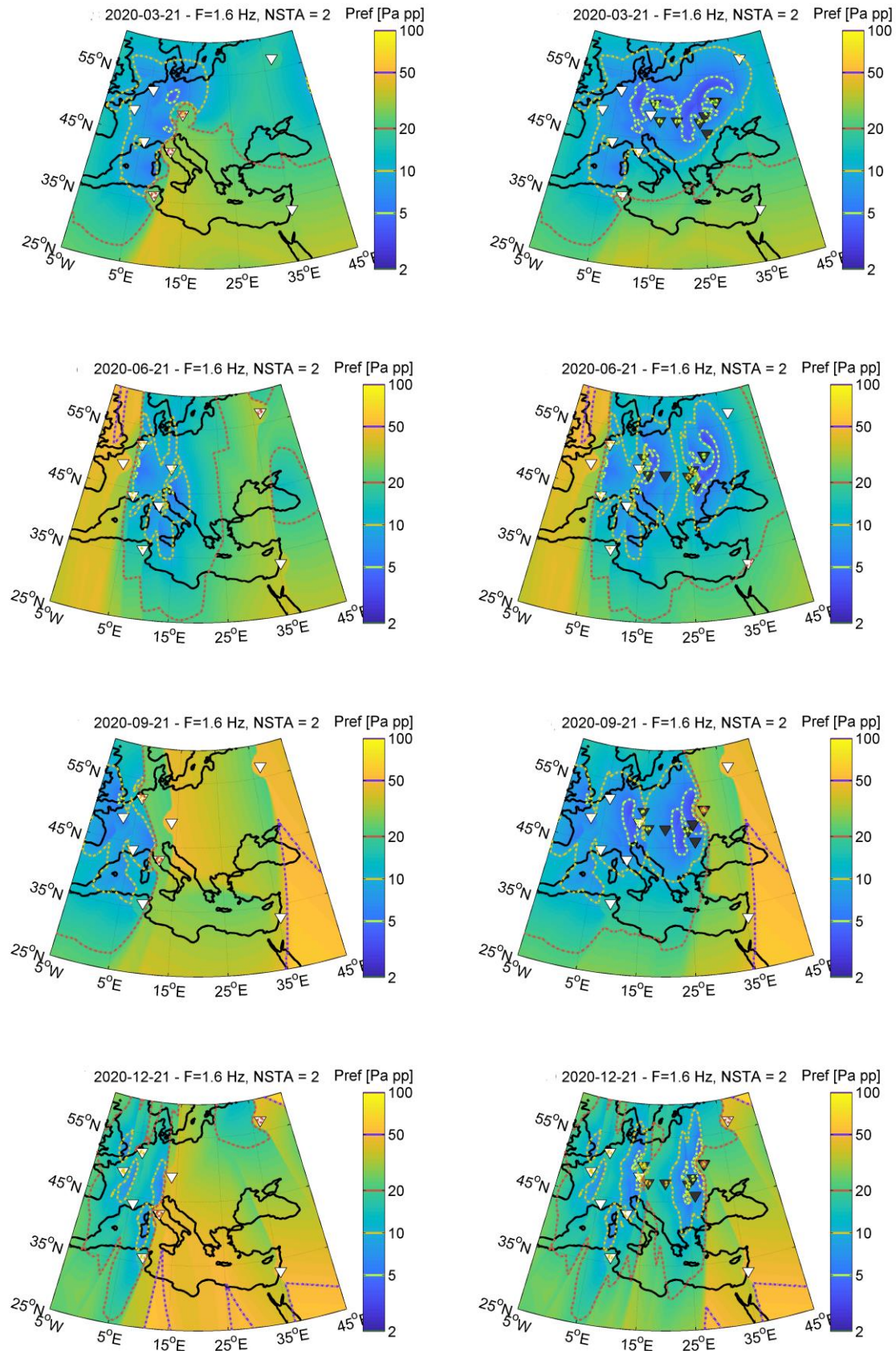
The Central and Eastern European Infrasound Network (CEEIN, Šindelářová et al., 2018; Bondár et al., 2022) was established in 2018 as part of the Atmospheric dynamics Research InfraStructure in Europe (ARISE, Blanc et al., 2018) network extension program (<http://arise-project.eu>) with the collaboration between the Zentralanstalt für Meteorologie und Geodynamik (ZAMG), Vienna, Austria, the Institute of Atmospheric Physics of the Czech Academy of Sciences (IAP), Prague, Czech Republic, the Research Centre for Astronomy and Earth Sciences of the Eötvös Loránd Research Network, Budapest, Hungary, and the National Institute for Earth Physics (NIEP), Magurele, Romania. The Main Centre of Special Monitoring National Center for Control and Testing of Space Facilities, State Agency of Ukraine, joined CEEIN in 2019. Members of the CEEIN exchange data real time and collaborate in scientific research. **Table 1** shows the infrasound arrays contributing to CEEIN.

**Table 1. CEEIN stations**

Country	Network code	Station code	Latitude [°]	Longitude [°]	Aperture [km]	Ondate	Offdate
Hungary	HN	PSZI	47.92	19.89	0.25	2017/05/25	-
Austria	OE	ISCO	47.92	16.29	0.36	2020/10/30	2021/08/12
Austria	OE	ISCO	47.92	16.29	0.1	2022/03/25	-
Czechia	C9	PVCI	50.53	14.57	0.2	2014/05/01	-
Czechia	C9	WBCI	50.25	12.44	6.0	2016/09/28.	
Romania	R1	BURARI	47.62	25.22	0.6	2016/07/28	2019/09/20
Romania	R1	BURARI	47.62	25.22	0.69	2019/09/21	-
Romania	R1	IPLOR	45.85	26.65	2.43	2009/05/28	2018/11/09
Romania	R1	IPLOR	45.85	26.65	0.49	2019/12/13	-
Romania	R1	I67RO	46.67	25.12	0.95	2016/09/27	2018/10/18
Ukraine	UD	MAAG1	50.70	29.23	0.16	2006/09/01	-
Ukraine	UD	MAAG2	48.56	26.46	0.16	2007/05/01	-
Ukraine	UD	GRDI	50.60	29.45	0.40	2020/07/01	-

Bondár et al. (2022) published the first CEEIN seismo-acoustic bulletin for 2017-2020 that includes events (bolides, sonic booms, explosions, quarry blasts and earthquakes) recorded by at least two CEEIN arrays. Bondár et al. (2022) demonstrated that CEEIN arrays close a gap in infrasound station coverage in Central and Eastern Europe. **Figure 2** shows that they not only significantly reduce the event detection threshold of the European infrasound network in all seasons, but also add new detection capability in the Aegean region and Eastern Europe. The detection capability maps were produced with the simulation method by Le Pichon et al. (2012) that takes into consideration the effects of signal dominant frequency, fine scale atmospheric disturbances as well as stratospheric winds from the models of the European Center for Medium range Weather Forecasting ([www.ecmwf.int](http://www.ecmwf.int)). **Figure 3** shows the detections in 2023 for the CEEIN stations on polar histograms. The columns are color-coded by averaged mean frequency in each bin.





**Figure 2. Detection capability *without* (left column) and *with* (right column) the CEEIN stations on 21 March, June, September and December 2020. The CEEIN stations are represented with dark grey triangles; IMS and other national infrasound stations are shown as white triangles.**

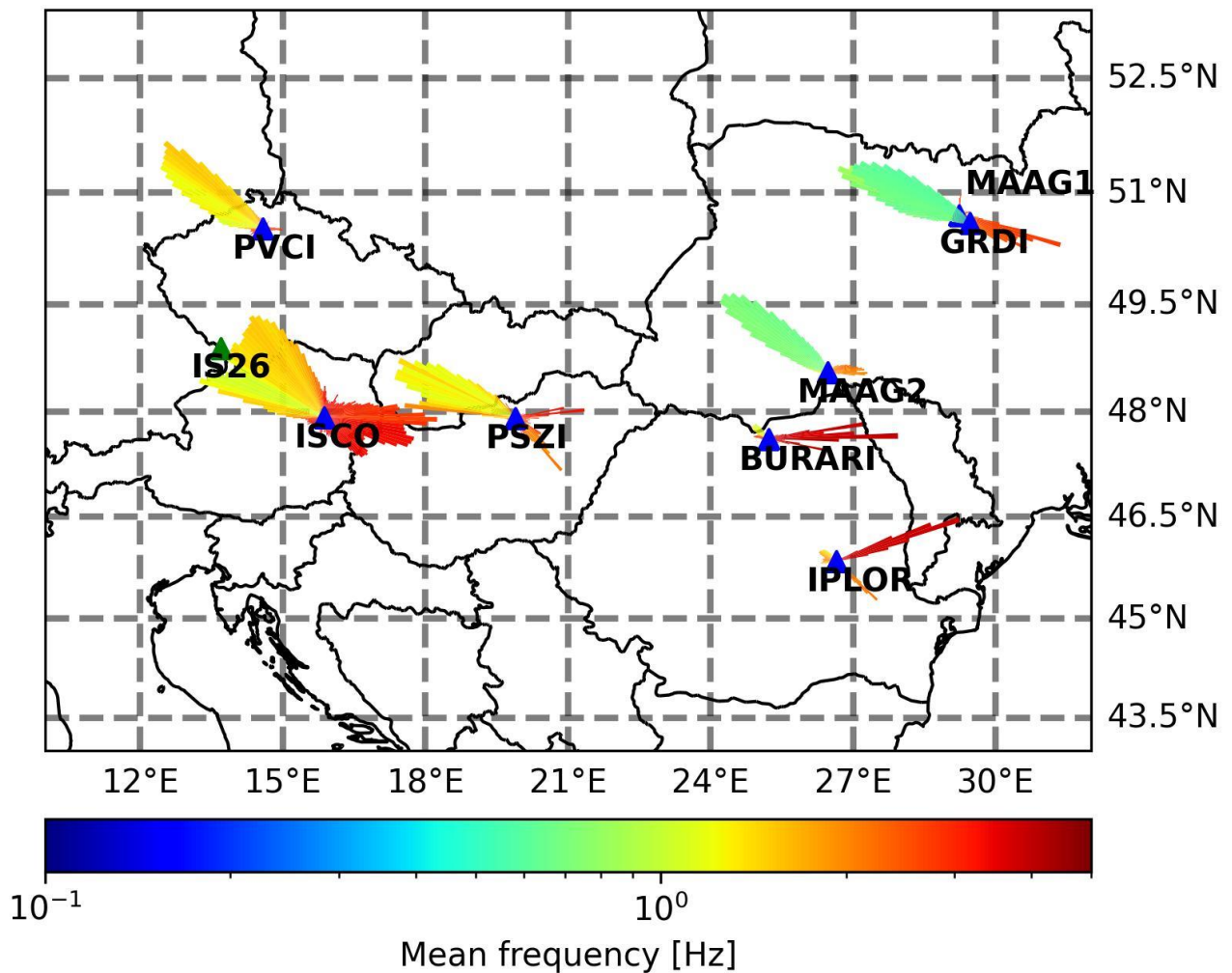


Figure 3. Detections of the CEEIN stations in the year 2023 on polar histograms placed on the location of the arrays. The azimuthal bins are color-coded by mean frequency in each bin.

## Data and Resources

The Hungarian Seismo-Acoustic Bulletin was compiled by the Kövesligethy Radó Seismological Observatory, HUN-REN Earth Physics and Space Science. PSZI data were complemented with infrasound data from the CEEIN, 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.

Networks contributing to the CEEIN include the

- Czech Microbarograph Network, Institute of Atmospheric Physics, Czech Academy of Sciences, [doi:10.7914/SN/C9](https://doi.org/10.7914/SN/C9)
- Hungarian National Infrasound Network, HUN-REN EPSS Kövesligethy Radó Seismological Observatory, [doi:10.14470/UA114590](https://doi.org/10.14470/UA114590)
- Romanian Infrasound Network, National Institute for Earth Physics (NIEP), [doi:10.7914/SN/R1](https://doi.org/10.7914/SN/R1)
- Austrian Infrasound Network, Zentralanstalt für Meteorologie und Geodynamik (ZAMG), [doi:10.7914/SN/OE](https://doi.org/10.7914/SN/OE)
- Main Centre of Special Monitoring National Center for Control and Testing of Space Facilities State Agency of Ukraine, [doi:10.7914/SN/UD](https://doi.org/10.7914/SN/UD).

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

- Slovenian Environment Agency (ARSO, [doi:10.7914/SN/SL](https://doi.org/10.7914/SN/SL)), Slovenia
- Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS, [doi:10.7914/SN/OX](https://doi.org/10.7914/SN/OX)), Italy
- University of Trieste (UniTS, [doi:10.7914/SN/RF](https://doi.org/10.7914/SN/RF)), Italy
- Central Institute for Meteorology and Geodynamics (ZAMG, [doi:10.7914/SN/OE](https://doi.org/10.7914/SN/OE)), Austria
- University of Zagreb, Croatian Seismological Survey (CSS, [doi:10.7914/SN/CR](https://doi.org/10.7914/SN/CR)), Croatia
- HUN-REN EPSS Kövesligethy Radó Seismological Observatory, [doi:10.14470/UH028726](https://doi.org/10.14470/UH028726)), Hungary
- Institute of GeoSciences, Energy, Water and Environment (IGEWE, [doi:10.7914/SN/AC](https://doi.org/10.7914/SN/AC)), Albania
- Institute of Physics of the Earth, Masaryk University Brno (IPE, [doi:10.7914/SN/CZ](https://doi.org/10.7914/SN/CZ)), Czechia
- National Institute of Geophysics, Geodesy and Geography (NIGGG, [doi:10.7914/SN/BS](https://doi.org/10.7914/SN/BS)), Bulgaria
- National Institute for Earth Physics (NIEP, [doi:10.7914/SN/RO](https://doi.org/10.7914/SN/RO)), Romania
- Carpathian Branch of the Institute of Geophysics, National Academy of Sciences of Ukraine (IGPH), Ukraine
- 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))
- GeoRisk Earthquake Engineering Ltd (GeoRisk, [doi:10.7914/SN/HM](https://doi.org/10.7914/SN/HM)), Hungary
- Institute of Rock Structure and Mechanics, Czech Academy of Sciences (IRSM CAS, [doi:10.7914/SN/CZ](https://doi.org/10.7914/SN/CZ)), Czechia

Other permanent and temporary networks include:

- Comprehensive Nuclear-Test-Ban Treaty Organization, International Monitoring System (CTBTO IMS, [www.ctbto.org](http://www.ctbto.org))
- GEOFON Seismic Network, Deutsches GeoForschungsZentrum ([doi:10.14470/TR560404](https://doi.org/10.14470/TR560404))
- Z6 AdriaArray Temporary network ([doi:10.7914/2cat-tq59](https://doi.org/10.7914/2cat-tq59))

For data acquisition *SeisComp3* ([www.seiscomp3.org](http://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, Begnaud et al., 2020, 2021) can be downloaded from the IRIS software repository, <https://seiscode.iris.washington.edu/projects/iloc>.

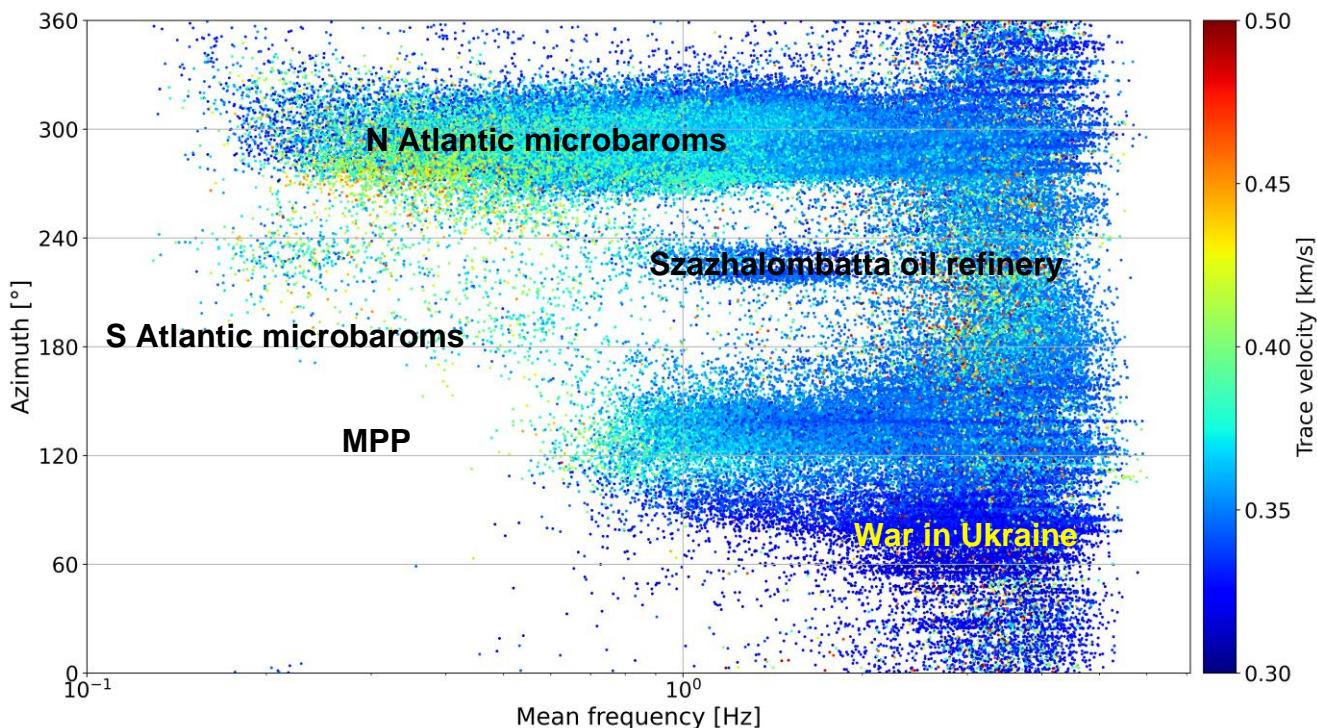
#### Data availability

The PSZI infrasound waveforms are collected in real-time at the GEOFON European Integrated Data Archive (EIDA) node, [geofon.gfz-potsdam.de/doi/network/HN](http://geofon.gfz-potsdam.de/doi/network/HN). The data availability can be checked at the GEOFON waveform archive, [geofon.gfz-potsdam.de/waveform/archive/data.php?ncode=HN](http://geofon.gfz-potsdam.de/waveform/archive/data.php?ncode=HN). The waveforms of the CEEIN arrays are also available from the <http://www.ceein.eu/> website.

## 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 3** shows the dominant coherent noise sources at PSZI as a function of mean frequency and time for 2023. Microbaroms are continuously detectable from the Atlantic Ocean during wintertime. The array detects continuous high frequency noise from the Mátra Power Plant (MPP)

located 20 km to the south-east (138°) from PSZI as well as from the Százhalombatta oil refinery. Since the Russian invasion of Ukraine in February 24, 2022, PSZI detect numerous signals of shelling, bombardment and missile attacks related to the war in Ukraine.



**Figure 3.** Coherent noise sources detected at PSZI for 2023. Since the Russian invasion of Ukraine in February 24, 2022, PSZI routinely detects signals from the war in Ukraine between 60° and 90° azimuth.

**Figure 4** shows the PSZI detection as a function of time and azimuth, color coded by mean frequency. In **4a** all detections between May 2017 and December 2023 are plotted. **4b** shows only the year 2023. In both plots a seasonal variation is present which is due to the dominant tropospheric wind direction. During wintertime the westerly North Atlantic microbaroms (peak on the histogram between 270°-320° with low frequency) dominate the detections while during summer time signals coming from the East are more prominent. The other big peak besides the microbarom is caused by the for mentioned MPP at around 138°.

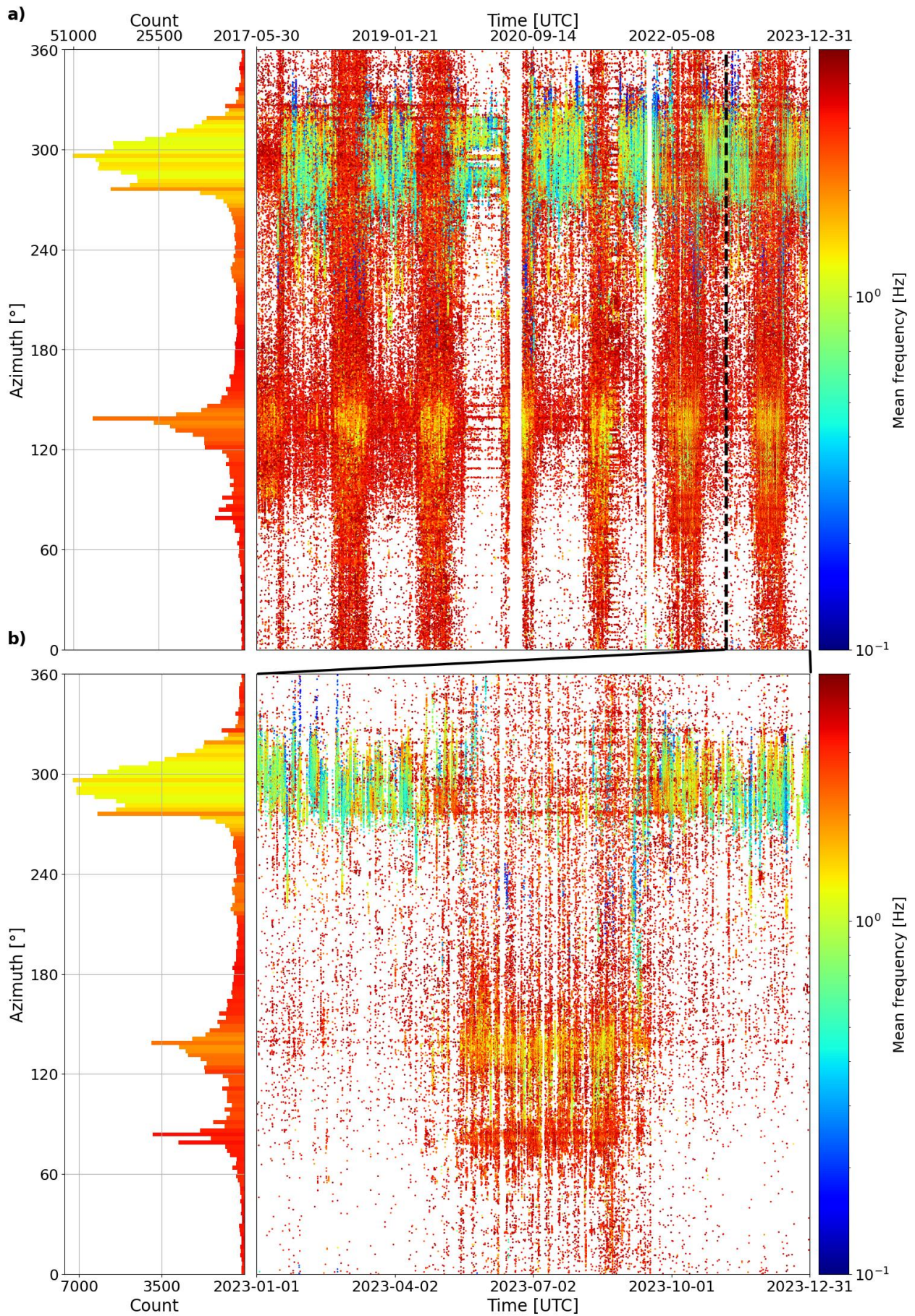
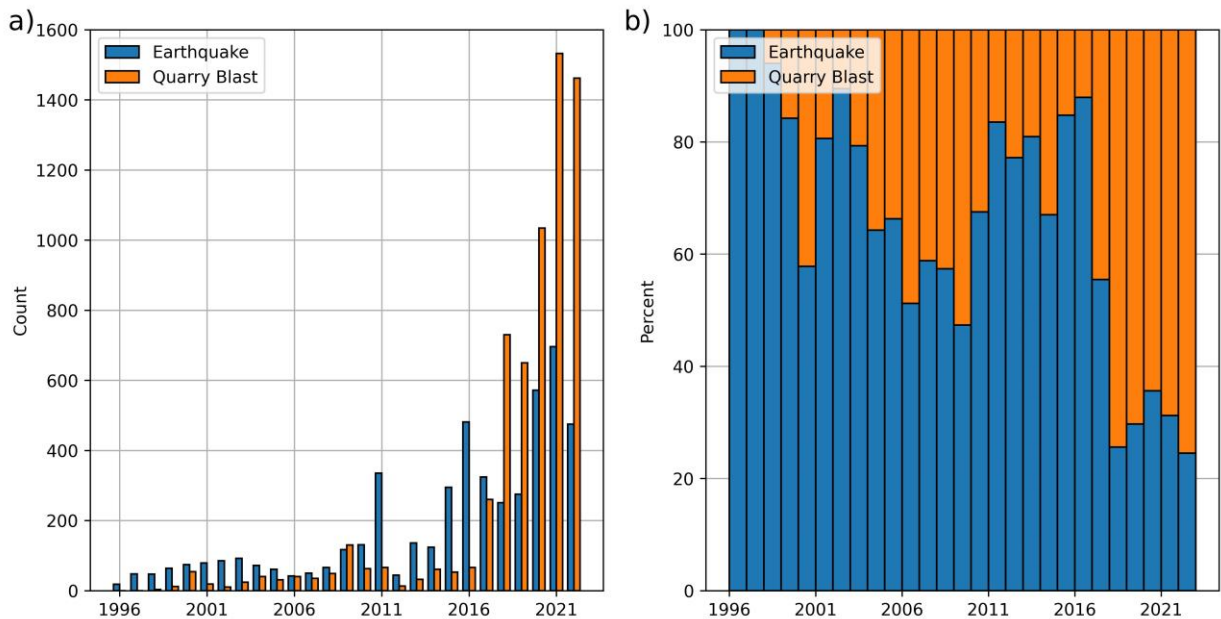


Figure 4. a) PMCC detections on time vs. azimuth diagrams color-coded by mean frequency between May 2017 and December 2023. b) Shows the detections only for 2023. For both figures the azimuth distribution of the detections' azimuth are shown on the left.

# Seismo-Acoustic Events

## Quarry Blasts and Explosions

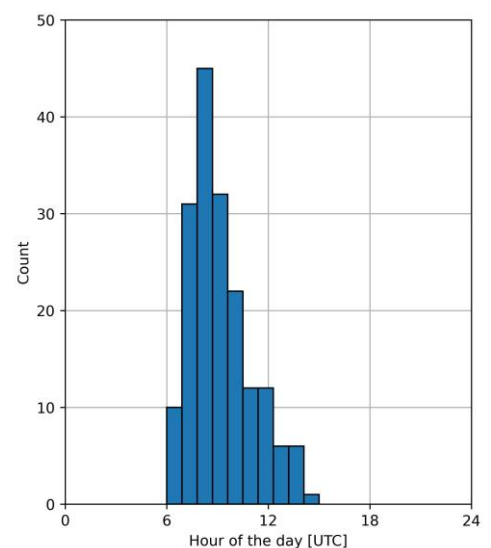
Anthropogenic events constitute two-third of the recorded seismicity in the region. Hence, it is important to discriminate explosions from natural earthquakes in order to study natural seismicity and produce reliable seismic hazard estimates. **Figure 5** shows the annual number and relative percentages of earthquakes and explosions in the Hungarian earthquake catalogue between 1996 and 2022. Note that the Hungarian earthquake catalogue is typically published with a year delay, so the earthquake catalogue is not yet available when the HSAB is published. Ever increasing number of events are identified as anthropogenic origin since the deployment of the PSZI array in 2017/05/25.



**Figure 5. 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 2022.**

The HSAB for year 2023 contains 177 quarry blasts from 64 known quarries in Hungary, Austria, Croatia, Slovakia, Romania and Ukraine. The magnitude range of the explosions is between ML 0.8-2.3. Many, but not all, quarries in Hungary regularly send confirmation of their explosions to the 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. Of the 177 recorded quarry blasts 33 are confirmed ground truth events, and 144 events in the bulletin are labeled as suspected quarry blasts.

**Figure 6** shows the hour-of-day distribution of the quarry blasts that were recorded at PSZI. Most of the blasts occur between 8 am and 12 pm, local time.



**Figure 6. Hour of day (UTC) of seismo-acoustic events recorded at PSZI in 2023.**

**Figure 7** shows the infrasound and seismic stations contributing to the Hungarian Seismo-Acoustic Bulletin in 2023 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.

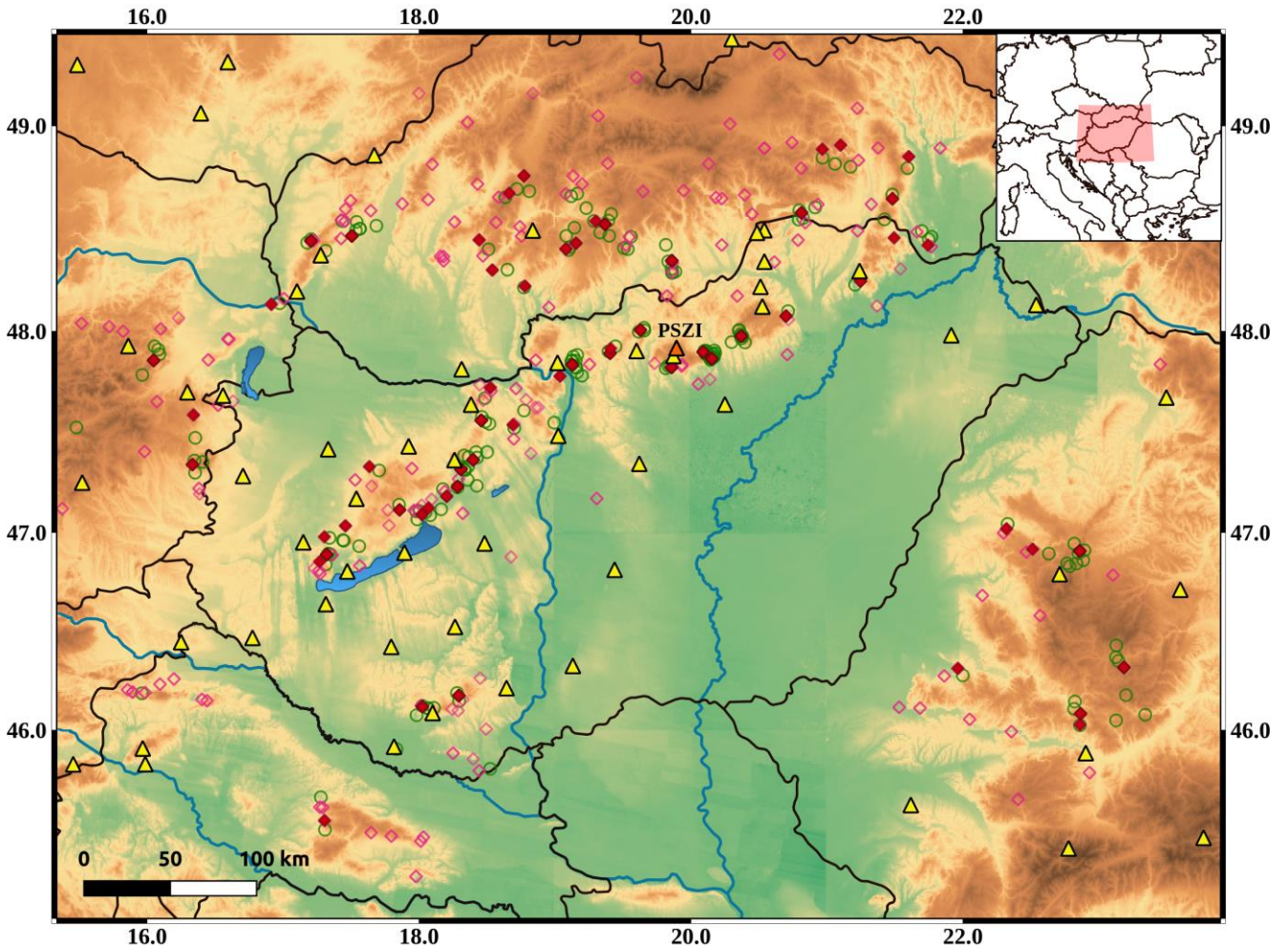


Figure 7. Infrasound (orange triangles) and seismic stations (yellow triangles) contributing to the Hungarian Seismo-Acoustic Bulletin in 2023. Known quarry and mine locations are shown as red diamonds, and the solid red diamonds indicate the quarries producing infrasound signals. Green circles denote the seismo-acoustic locations of quarry blasts. Only those events are shown that were detected at PSZI.

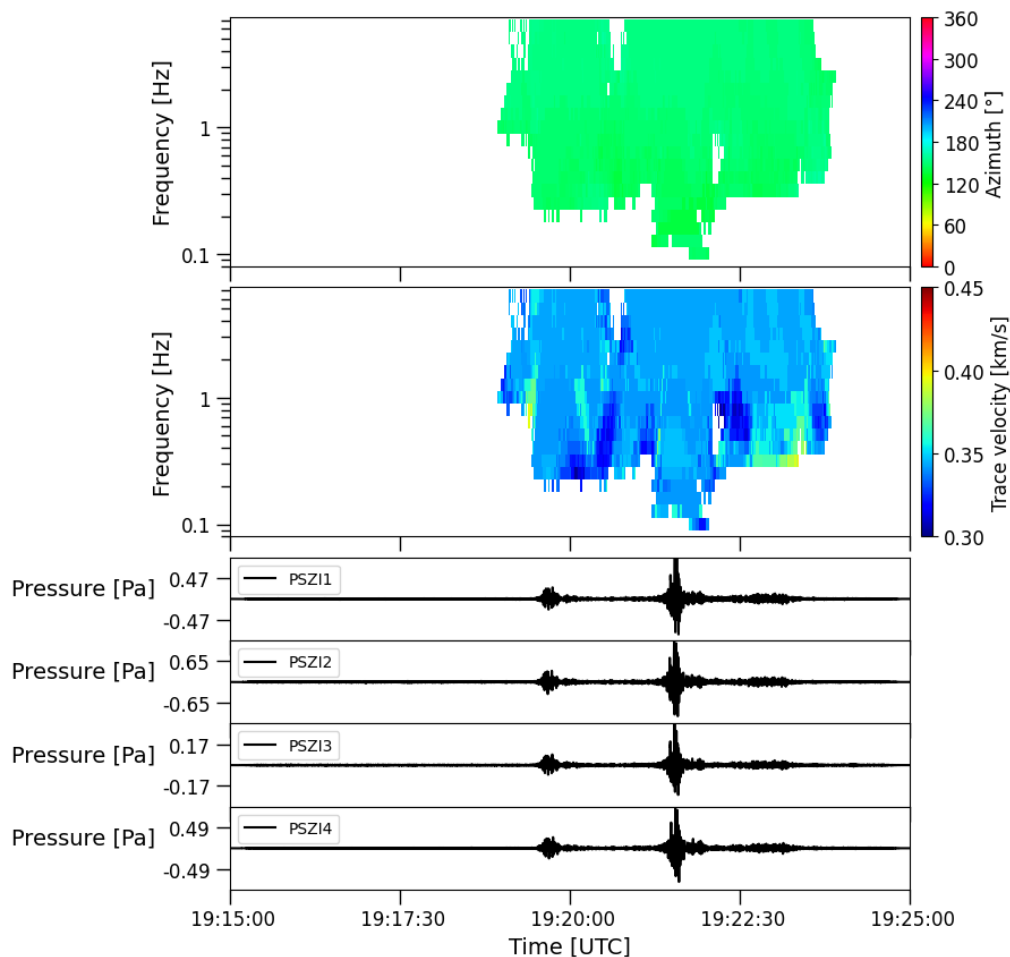
## Infrasound-only Events

### Bolides

PSZI detected two bolides at PSZI in 2023. **Table 2** contains the PMCC detection parameters and **Figure 8**. shows the detection associated with the bolide on 2023-07-11.

**Table 2. PSZI bolide detections**

Arrival time [UTC]	Azimuth [degree]	Trace velocity [km/s]
2023/06/26 21:29:31	335.38	0.349
2023/07/11 19:19:04	151.37	0.343



**Figure 7. Bolide detected at PSZI on 2023-07-11 at around 19:19. The upper and middle panels show the PMCC detections on time-frequency diagram color-coded by azimuth and trace velocity, respectively. The bottom panel contains the bandpass filtered waveforms recorded at the array elements.**

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# Hungarian Seismo-Acoustic Bulletin

The Hungarian Seismo-Acoustic Bulletin is presented in International Seismic Format (ISF2.0).

BEGIN IMS2.0

DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023atfo Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/01/11	12:23:59.96	0.45	1.03	47.9027	20.1060	7.4	3.3	149	0.0A	0.0	9	6	148	0.14	0.86	m	se BUD	729164	BUD			
2023/01/11	12:23:57.91	1.05	3.95	47.8981	20.1126	3.9	0.8	98	0.0f		11	7	149	0.15	0.85		se ILOC	729164	ILOC			201

(#PRIME)  
(Locality: Kiszána Hungary)

Magnitude	Err	Nsta	Author	OrigID	
M	1.5	3	BUD	729164	
MLv	1.5	0.1	3	BUD	729164
ML	1.5	0.0	3	ILOC	729164

Sta	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	0.15	278.0	Pg	12:24:01.143	-0.6					T__		655.6		___	ML	1.5	729165	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.15	278.0	Lg	12:24:04.522	-0.3					T__				___		729173	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=1)																									
PSZI	0.15	277.8	I	12:24:56.537	10.8	101.5	3.9	352.90	14.7	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
ET1H	0.16	263.4	Pg	12:24:01.272	-0.6					T__		570.7		___	ML	1.5	729167	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ET1H	0.16	263.4	Lg	12:24:04.736	-0.2					T__				___		729166	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=1)																									
HU03A	0.35	271.1	Lg	12:24:11.394	0.4					T__				___		729168	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU01A	0.65	211.2	Lg	12:24:21.668	-0.2					T__				___		729169	FDSN	Z6	00	BUD	BUD	HHN	???	_	
JOS	0.66	25.4	Pg	12:24:13.214	2.0					T__		58.8		___	ML	1.6	729171	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	_
JOS	0.66	25.4	Lg	12:24:21.767	0.4					T__				___		729170	FDSN	Z6	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																									
ABAH	0.85	61.8	Lg	12:24:27.139	-1.6					T__				___		729172	FDSN	HU	--	BUD	BUD	HHE	???	_	

STOP

BEGIN IMS2.0

DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023bqtg 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		
2023/01/24	09:26:33.67	0.91	0.45	48.4099	19.5449	10.3	4.2	106	0.0A	0.0	7	6	210	0.51	1.14	m	se BUD	729193	BUD					
2023/01/24	09:26:33.41	1.04	0.47	48.4029	19.5356	4.9	2.2	149	0.0f		9	7	211	0.50	1.14		se ILOC	729193	ILOC					266

(#PRIME)  
(Locality: Mytna Slovakia)

Magnitude	Err	Nsta	Author	OrigID	
M	1.7	1	BUD	729193	
MLv	1.7	0.0	1	BUD	729193

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU03A	0.50	175.1	Lg	09:26:50.108	0.6					T__				___		729196	FDSN	Z6	00	BUD	BUD	HHN	???	_	
PSZ	0.54	153.5	Pg	09:26:43.438	-0.3					T__		85.7		___	ML	1.7	729194	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.54	153.5	Lg	09:26:51.628	0.8					T__				___		729197	FDSN	GE	--	BUD	BUD	HHN	???	_	

```

(Reading ML: 1.7 magdef=1
(Station ML: 1.7 magdef=0
PSZI 0.54 153.6 I 09:29:30.691 0.2 333.8 -0.1 346.80 14.9 TA_
ET1H 0.57 156.7 Sg 09:26:51.545 -0.1 T_
JOS 0.67 81.7 Lg 09:26:55.200 0.1 T_
NIE 1.13 26.1 Lg 09:27:10.170 0.3 T_
ABAH 1.14 94.7 Sg 09:27:09.883 -0.2 T_

```

```

STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023bsst Hungary

```

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2023/01/25 11:27:22.08 0.74 0.75 47.6771 20.1642 8.3 4.8 101 0.0A 0.0 7 5 193 0.28 1.00 m se BUD 729217 BUD
2023/01/25 11:27:22.57 1.50 0.25 47.8877 20.1646 5.9 1.0 99 0.0f 8 5 245 0.18 0.66 se ILOC 729217 ILOC 347
(#PRIME)
(Locality: Kisnána Hungary)

```

```

Magnitude Err Nsta Author OrigID
M 1.8 2 BUD 729217
MLv 1.8 0.0 2 BUD 729217
ML 1.5 0.0 2 ILOC 729217

```

```

Sta 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 0.18 279.7 Pg 11:27:27.027 -0.1 T_ 523.1 ML 1.5 729218 FDSN GE -- BUD BUD HHZ HHZ _
PSZ 0.18 279.7 Lg 11:27:30.449 -0.3 T_ 729219 FDSN GE -- BUD BUD HHN ??? _
(Reading ML: 1.5 magdef=1
(Station ML: 1.5 magdef=1
PSZI 0.18 279.5 I 11:28:21.845 -0.2 103.8 4.5 349.00 11.7 TA_
ET1H 0.20 267.6 Pg 11:27:27.156 -0.0 T_ 521.7 ML 1.6 729221 FDSN HU -- BUD BUD HHZ HHZ _
ET1H 0.20 267.6 Lg 11:27:30.962 0.2 T_ 729222 FDSN HU -- BUD BUD HHN ??? _
(Reading ML: 1.6 magdef=1
(Station ML: 1.6 magdef=1
HU03A 0.38 272.6 Lg 11:27:37.205 0.3 T_ 729220 FDSN Z6 00 BUD BUD HHN ??? _
JOS 0.66 22.3 Sn 11:27:50.406 0.1 T_ 729223 FDSN Z6 -- BUD BUD HHN ??? _
HU04B 1.18 204.9 Sn 11:27:54.426 -8.0 T_ 729224 FDSN Z6 00 BUD BUD HHN ??? _

```

```

STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

```

Event bud2023bsuc Austria

```

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2023/01/25 12:08:39.37 0.38 0.82 47.8619 16.0575 5.5 3.5 60 0.0A 0.0 8 6 124 0.15 1.51 m se BUD 729243 BUD
2023/01/25 12:08:37.60 0.96 1.02 47.7850 15.9648 5.9 3.2 28 0.0f 10 7 104 0.16 2.65 se ILOC 729243 ILOC 202
(#PRIME)
(Locality: Durnbachtal Austria)

```

```

Magnitude Err Nsta Author OrigID
M 0.9 1 BUD 729243
MLv 0.9 0.0 1 BUD 729243

```

```

Sta 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 0.16 334.2 Pg 12:08:40.969 -0.0 T_ 152.4 ML 0.9 729244 FDSN OE -- BUD BUD HHZ HHZ _
CONA 0.16 334.2 Lg 12:08:43.663 0.2 T_ 729247 FDSN OE -- BUD BUD HHN ??? _
(Reading ML: 0.9 magdef=1
(Station ML: 0.9 magdef=0
RONA 0.24 110.8 Pg 12:08:42.893 0.2 T_ 729245 FDSN OE -- BUD BUD HHZ ??? _

```

RONA	0.24	110.8	Lg	12:08:46.357	0.1	T											729248	FDSN	OE	--	BUD	BUD	HHN	???		
ARSA	0.61	209.4	Sn	12:09:03.235	-0.9	T												729249	FDSN	OE	--	BUD	BUD	HHN	???	
KRUC	1.31	12.5	Sn	12:09:19.629	-1.7	T												729246	FDSN	CZ	--	BUD	BUD	HHE	???	
CKRC	1.51	313.8	Lg	12:09:28.512	1.7	T												729251	FDSN	CZ	--	BUD	BUD	HHN	???	
TREC	1.54	348.3	Sn	12:09:27.606	0.4	T												729250	FDSN	CZ	--	BUD	BUD	HHN	???	
PSZI	2.65	85.7	I	12:25:19.542	0.3	272.9	4.3	325.70	-67.7	TA								111111	FDSN	HU	--	BUD	BUD	???	???	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023bunc Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/01/26	10:52:14.97	0.56	1.25	47.2247	18.2870	8.1	5.0	72	0.0A	0.0	4	3	173	0.14	1.04	m	kx BUD	729264	BUD			
2023/01/26	10:52:12.60			47.2302	18.2835				0.0								kx BUD_GT	1	BUD			
2023/01/26	10:52:12.60	0.96	0.51	47.2262	18.2834	9.0	4.1	62	0.0f		5	4	109	0.14	1.29		kx ILOC	729264	ILOC			206

(#PRIME)  
(Localcity: Iszkaszentgyörgy Hungary)  
(GT info : GT2 explosion)

Magnitude	Err	Nsta	Author	OrigID	
M	1.7	1	BUD	729264	
MLv	1.7	0.0	1	BUD	729264

Sta	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	353.5	Lg	10:52:19.276	0.1					T						729267	FDSN	HU	--	BUD	BUD	HHN	???		
MPLH	0.51	264.0	Lg	10:52:31.250	0.0					T						729268	FDSN	HU	--	BUD	BUD	HHN	???		
MORH	1.04	166.1	Pn	10:52:32.843	-0.3					T		43.9			ML	1.7	729266	FDSN	HU	--	BUD	BUD	HHZ	HHZ	
MORH	1.04	166.1	Sn	10:52:50.035	0.7					T						729265	FDSN	HU	--	BUD	BUD	HHN	???		

(Reading ML: 1.7 magdef=1  
(Station ML: 1.7 magdef=0)

Magnitude	Err	Nsta	Author	OrigID																				
PSZI	1.29	57.0	I	11:00:37.244	46.0	237.2	-1.0	316.40	-46.6	_A						111111	FDSN	HU	--	BUD	BUD	???	???	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023cizt Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/02/03	09:10:00.42	0.38	0.83	47.1081	18.0187	4.3	4.3	26	0.0A	0.0	7	5	111	0.23	0.99	m	se BUD	729285	BUD			
2023/02/03	09:09:57.34	0.66	1.00	47.1067	17.9789	5.3	4.0	58	0.0f		8	6	114	0.22	1.53		se ILOC	729285	ILOC			200

(#PRIME)  
(Localcity: Litér Hungary)

Magnitude	Err	Nsta	Author	OrigID	
M	1.2	2	BUD	729285	
MLv	1.2	0.2	2	BUD	729285
ML	1.2	0.3	2	ILOC	729285

Sta	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	0.22	195.9	Lg	09:10:06.906	0.8					T						729291	FDSN	HU	--	BUD	BUD	HHN	???		
MPLH	0.31	282.1	Pn	09:10:07.794	-1.3					T		76.4			ML	1.0	729289	FDSN	HU	--	BUD	BUD	HHZ	HHZ	
MPLH	0.31	282.1	Lg	09:10:10.798	1.5					T						729288	FDSN	HU	--	BUD	BUD	HHN	???		

(Reading ML: 1.0 magdef=1  
(Station ML: 1.0 magdef=1)

Magnitude	Err	Nsta	Author	OrigID																					
CSKK	0.32	36.7	Pg	09:10:04.885	0.6					T		162.2			ML	1.4	729286	FDSN	HU	--	BUD	BUD	HHZ	HHZ	
CSKK	0.32	36.7	Lg	09:10:10.039	-0.2					T						729287	FDSN	HU	--	BUD	BUD	HHN	???		

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



```

(Station ML: 2.0 magdef=1
TREC 1.46 344.3 Sn 12:46:26.809 0.7 T__
CKRC 1.51 308.8 Lg 12:46:28.935 0.6 T__
PSZI 2.56 87.9 I 13:03:06.547 79.1 270.6 -0.1 308.80 -89.4 A_

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

```

Event bud2023ctzy Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/02/09	09:45:59.18	0.38	0.63	47.7499	19.2202	8.5	3.2	155	0.0A	0.0	8	6	166	0.46	1.52	m	kx BUD	729554	BUD			
2023/02/09	09:45:58.97			47.8355	19.1270				0.0								kx BUD_GT	1	BUD			
2023/02/09	09:45:58.97	0.98	1.73	47.7813	19.1979	11.0	3.6	157	0.0f		9	7	159	0.46	1.48		kx ILOC	729554	ILOC			168

(#PRIME)  
(Localilty: Sejce-Vác Hungary)  
(GT info : GT2 explosion)

Magnitude	Err	Nsta	Author	OrigID
M	1.9	2	BUD	729554
MLv	1.9	0.0	2 BUD	729554
ML	1.9	0.0	2 ILOC	729554

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
ETIH	0.46	77.6	Sg	09:46:13.696	-0.2					T__						729556	FDSN	HU	--	BUD	BUD	HHN	???	_	
PSZI	0.49	73.5	I	09:48:41.972	3.9	264.3	10.3	330.80	-1.4	T__						111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	0.49	73.4	Lg	09:46:15.010	0.3					T__						729557	FDSN	GE	--	BUD	BUD	HHN	???	_	
CSKK	0.76	236.9	Pg	09:46:13.714	0.2					T__		94.8			ML	1.9	729559	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.76	236.9	Sg	09:46:23.122	-0.2					T__						729558	FDSN	HU	--	BUD	BUD	HHN	???	_	

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

KECS	1.11	50.4	Pg	09:46:19.195	-1.1					T__		68.2			ML	2.0	729561	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
KECS	1.11	50.4	Lg	09:46:35.703	1.0					T__						729560	FDSN	SK	--	BUD	BUD	EHN	???	_	

(Reading ML: 2.0 magdef=1  
(Station ML: 2.0 magdef=1)

MPLH	1.28	242.1	Lg	09:46:40.541	0.4					T__						729562	FDSN	HU	--	BUD	BUD	HHN	???	_
JAVC	1.48	317.2	Sg	09:46:47.121	0.5					T__						729555	FDSN	CZ	--	BUD	BUD	HHN	???	_

```

STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023ctye 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
2023/02/09	08:51:58.24	0.40	0.39	48.0954	20.7094	6.7	3.4	161	0.0A	0.0	8	5	161	0.41	1.23	m	kx BUD	729524	BUD			
2023/02/09	08:51:58.08			48.0750	20.6990				0.0								kx BUD_GT	1	BUD			
2023/02/09	08:51:58.08	0.97	0.51	48.0992	20.7138	3.8	2.9	74	0.0f		10	6	161	0.40	1.22		kx ILOC	729524	ILOC			188

(#PRIME)  
(Localilty: Miskolc-Mexikóvölgy Hungary)  
(GT info : GT2 explosion)

Magnitude	Err	Nsta	Author	OrigID
M	1.7	3	BUD	729524
MLv	1.7	0.2	3 BUD	729524
ML	1.8	0.1	3 ILOC	729524

Sta	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	0.40	60.6	Pg	08:52:05.709	-0.1					T__		92.7			ML	1.4	729525	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.40	60.6	Sg	08:52:11.332	0.3					T__						729528	FDSN	HU	--	BUD	BUD	HHN	???	_	

```

(Reading ML: 1.4 magdef=1
(Station ML: 1.4 magdef=1
KECS 0.41 338.5 Pg 08:52:05.645 -0.4 T__ 215.2 ___ ML 1.8 729526 FDSN SK -- BUD BUD EHN EHZ _
KECS 0.41 338.5 Sg 08:52:11.653 0.3 T__ ___ 729529 FDSN SK -- BUD BUD EHN ??? _
(Reading ML: 1.8 magdef=1
(Station ML: 1.8 magdef=1
PSZ 0.58 252.1 Lg 08:52:16.972 0.3 T__ ___ 729530 FDSN GE -- BUD BUD HHN ??? _
PSZI 0.58 252.1 I 08:55:07.333 -1.0 72.7 1.2 357.60 25.8 TA__ ___ 111111 FDSN HU -- BUD BUD ??? ??? _
ET1H 0.61 249.1 Pg 08:52:10.071 0.4 T__ 101.7 ___ ML 1.8 729527 FDSN HU -- BUD BUD HHZ HHZ _
ET1H 0.61 249.1 Sg 08:52:17.106 -0.5 T__ ___ 729531 FDSN HU -- BUD BUD HHN ??? _
(Reading ML: 1.8 magdef=1
(Station ML: 1.8 magdef=1
TRPA 1.22 87.9 Sb 08:52:38.198 -0.2 T__ ___ 729532 FDSN HU -- BUD BUD HHN ??? _

```

```

STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

```

Event bud2023csek 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
2023/02/08	09:44:45.25	0.35	0.45	48.5887	20.8057	4.6	3.3	166	0.0A	0.0	11	7	95	0.24	1.24	m	se BUD	729488	BUD			
2023/02/08	09:44:45.21	0.98	0.52	48.5923	20.7972	4.4	3.5	9	0.0f		13	8	96	0.23	1.25		se ILOC	729488	ILOC			187

```

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

```

Magnitude	Err	Nsta	Author	OrigID
M	1.9	4	BUD	729488
MLv	1.9	0.2	4 BUD	729488
ML	2.0	0.2	4 ILOC	729488

Sta	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	242.3	Pg	09:44:48.693	-1.0					T__		973.7		___	ML	1.9	729491	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
KECS	0.23	242.3	Sg	09:44:52.339	-0.4					T__				___		729493	FDSN	SK	--	BUD	BUD	EHN	???	_	
(Reading ML: 1.9 magdef=1 (Station ML: 1.9 magdef=1)																									
ABAH	0.42	135.0	Pg	09:44:53.004	-0.2					T__		116.6		___	ML	1.5	729492	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.42	135.0	Sg	09:44:58.114	-0.5					T__				___		729494	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1 (Station ML: 1.5 magdef=1)																									
NIE	0.89	338.6	Lg	09:45:14.115	0.3					T__				___		729495	FDSN	PL	--	BUD	BUD	BHN	???	_	
PSZ	0.90	222.1	Pg	09:45:03.058	0.5					T__		143.5		___	ML	2.2	729490	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.90	222.1	Lg	09:45:14.898	0.6					T__				___		729496	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.2 magdef=1 (Station ML: 2.2 magdef=1)																									
PSZI	0.91	222.2	I	09:49:51.309	-0.3	40.4	-1.1	345.40		7.6	TA__			___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
ET1H	0.94	221.3	Pg	09:45:03.761	0.5					T__		91.7		___	ML	2.0	729489	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ET1H	0.94	221.3	Lg	09:45:15.863	0.3					T__				___		729497	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.0 magdef=1 (Station ML: 2.0 magdef=1)																									
KOLS	1.03	70.2	Lg	09:45:18.857	0.4					T__				___		729498	FDSN	SK	--	BUD	BUD	HHN	???	_	
TRPA	1.25	111.0	Lg	09:45:25.462	0.1					T__				___		729499	FDSN	HU	--	BUD	BUD	HHN	???	_	

```

STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

```

Event bud2023dbfd Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2023/02/13	08:20:19.42	0.39	0.79	47.3219	18.3038	4.7	4.0	5	0.0A	0.0	8	6	106	0.05	1.26	m	se BUD	729582	BUD				



2023/02/13 08:20:19.08 0.76 0.57 47.3252 18.3097 6.2 4.0 51 0.0f 9 7 106 0.05 1.26 se ILOC 729582 ILOC 192  
 (#PRIME)  
 (Locality: Magyaralmás Hungary)

Magnitude Err Nsta Author OrigID  
 M 1.9 2 BUD 729582  
 MLv 1.9 0.4 2 BUD 729582  
 ML 1.9 0.4 2 ILOC 729582

Sta	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	0.05	318.6	Pg	08:20:19.528	-0.5					T__		1479.6		___	ML	1.6	729583	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.05	318.6	Lg	08:20:20.587	-0.1					T__				___		729584	FDSN	HU	--	BUD	BUD	HNN	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																									
MPLH	0.55	253.8	Lg	08:20:37.559	0.9					T__				___		729585	FDSN	HU	--	BUD	BUD	HNN	???	_	
MORH	1.13	168.2	Sg	08:20:55.088	-0.4					T__				___		729586	FDSN	HU	--	BUD	BUD	HHE	???	_	
ET1H	1.19	61.8	Sg	08:20:57.060	-0.3					T__				___		729587	FDSN	HU	--	BUD	BUD	HNN	???	_	
PSZI	1.22	60.5	I	08:28:29.891	59.6	237.7	-3.9	313.90	-43.6	A__				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	1.23	60.4	Pb	08:20:43.475	0.3					T__		100.2		___	ML	2.2	729588	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	1.23	60.4	Sb	08:21:00.164	0.6					T__				___		729590	FDSN	GE	--	BUD	BUD	HNN	???	_	
(Reading ML: 2.2 magdef=1 Station ML: 2.2 magdef=1)																									
MODS	1.26	326.8	Lg	08:20:59.851	0.3					T__				___		729589	FDSN	SK	--	BUD	BUD	HHE	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023dbhn Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2023/02/13	09:32:12.99	0.38	0.59	47.3162	18.3664	4.8	4.2	112	0.0A	0.0	7	5	116	0.09	1.24	m	se BUD	729609	BUD				
2023/02/13	09:32:11.70	1.22	1.52	47.3307	18.3605	8.8	5.3	34	0.0f		8	6	124	0.08	1.26	se	ILOC	729609	ILOC			231	

(#PRIME)  
 (Locality: Magyaralmás Hungary)

Magnitude Err Nsta Author OrigID  
 M 2.0 2 BUD 729609  
 MLv 2.0 0.3 2 BUD 729609  
 ML 2.0 0.3 2 ILOC 729609

Sta	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	295.5	Pg	09:32:14.260	0.4					T__		1751.8		___	ML	1.8	729610	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.08	295.5	Lg	09:32:15.374	-0.7					T__				___		729613	FDSN	HU	--	BUD	BUD	HNN	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
MORH	1.13	170.0	Sn	09:32:49.331	-1.4					T__				___		729614	FDSN	HU	--	BUD	BUD	HNN	???	_	
ET1H	1.16	61.2	Sn	09:32:49.398	-2.4					T__				___		729615	FDSN	HU	--	BUD	BUD	HNN	???	_	
PSZI	1.19	59.9	I	09:40:24.893	75.2	237.1	-3.9	315.40	-39.5	A__				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	1.19	59.9	Pg	09:32:37.011	0.2					T__		114.3		___	ML	2.2	729611	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	1.19	59.9	Sn	09:32:51.492	-1.6					T__				___		729616	FDSN	GE	--	BUD	BUD	HNN	???	_	
(Reading ML: 2.2 magdef=1 Station ML: 2.2 magdef=1)																									
KOVH	1.26	188.3	Sn	09:32:53.225	-0.6					T__				___		729612	FDSN	HU	--	BUD	BUD	HNN	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023dbil 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
2023/02/13 10:00:23.73  1.40  0.45  46.0791  18.0025  14.6  5.9  37  0.0A  0.0  6  4  261  0.07  1.14  m  se  BUD  729634  BUD
2023/02/13 10:00:17.44  1.49  0.45  45.9037  17.8339  11.6  4.9  124  0.0f  8  5  290  0.26  2.46  se  ILOC  729634  ILOC  324
(#PRIME)
(Locality: Bükkösd Hungary)

```

```

Magnitude  Err  Nsta  Author  OrigID
M  1.4  2  BUD  729634
MLv  1.4  0.2  2  BUD  729634
ML  1.8  0.4  2  ILOC  729634

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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
KOVH  0.26  45.0  Pb  10:00:24.869  -0.2  T__  1076.0  ___  ML  2.1  729635  FDSN  HU  --  BUD  BUD  HHZ  HHZ  _
KOVH  0.26  45.0  Sg  10:00:26.045  0.2  T__  ___  ___  ___  729637  FDSN  HU  --  BUD  BUD  HHN  ???  _
(Reading ML: 2.1 magdef=1
 Station ML: 2.1 magdef=1)
MORH  0.64  60.8  Pn  10:00:32.318  -0.2  T__  51.8  ___  ML  1.6  729636  FDSN  HU  --  BUD  BUD  HHZ  HHZ  _
MORH  0.64  60.8  Lg  10:00:38.351  0.2  T__  ___  ___  ___  729638  FDSN  HU  --  BUD  BUD  HHN  ???  _
(Reading ML: 1.6 magdef=1
 Station ML: 1.6 magdef=1)
A266A  0.69  25.5  Sg  10:00:39.739  0.1  T__  ___  ___  ___  729639  FDSN  Z6  00  BUD  BUD  HHN  ???  _
MPLH  1.28  351.0  Sn  10:01:00.701  0.8  T__  ___  ___  ___  729640  FDSN  HU  --  BUD  BUD  HHN  ???  _
PSZI  2.46  34.3  I  10:15:48.635  -0.4  213.1  -2.7  318.60  -84.5  TA_  ___  ___  ___  111111  FDSN  HU  --  BUD  BUD  ???  ???  _

```

```

STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

```

Event bud2023dfdx Hungary

```

Date      Time      Err  RMS Latitude Longitude  Smaj  Smin  Az  Depth  Err  Ndef  Nsta  Gap  mdist  Mdist  Qual  Author  OrigID  Rep  DPdep  Err  Sgp
2023/02/15 12:15:28.29  0.40  0.58  47.8591  20.0992  6.4  3.9  8  0.0A  0.0  7  4  126  0.15  0.88  m  se  BUD  729770  BUD
2023/02/15 12:15:27.43  0.96  1.03  47.8768  20.1459  4.3  0.9  103  0.0f  9  5  135  0.17  0.84  se  ILOC  729770  ILOC  239
(#PRIME)
(Locality: Kisnána Hungary)

```

```

Magnitude  Err  Nsta  Author  OrigID
M  1.6  3  BUD  729770
MLv  1.6  0.2  3  BUD  729770
ML  1.6  0.1  3  ILOC  729770

```

```

Sta  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  0.17  283.9  Pg  12:15:30.491  -0.3  T__  615.0  ___  ML  1.6  729772  FDSN  GE  --  BUD  BUD  HHZ  HHZ  _
PSZ  0.17  283.9  Lg  12:15:32.775  -0.3  T__  ___  ___  ___  729775  FDSN  GE  --  BUD  BUD  HHN  ???  _
(Reading ML: 1.6 magdef=1
 Station ML: 1.6 magdef=1)
PSZI  0.17  283.7  I  12:16:26.045  2.4  103.8  0.3  350.20  12.6  TA_  ___  ___  ___  111111  FDSN  HU  --  BUD  BUD  ???  ???  _
ET1H  0.18  270.8  Pg  12:15:30.577  -0.4  T__  634.5  ___  ML  1.6  729771  FDSN  HU  --  BUD  BUD  HHZ  HHZ  _
ET1H  0.18  270.8  Lg  12:15:33.662  0.3  T__  ___  ___  ___  729776  FDSN  HU  --  BUD  BUD  HHN  ???  _
(Reading ML: 1.6 magdef=1
 Station ML: 1.6 magdef=1)
HU23A  0.25  163.6  Lg  12:15:35.722  0.3  T__  71.9  ___  ML  1.8  729777  FDSN  Z6  00  BUD  BUD  HHN  ???  _
ABAH  0.84  59.8  Pb  12:15:45.238  0.3  T__  ___  ___  ___  729774  FDSN  HU  --  BUD  BUD  HHZ  HHZ  _
ABAH  0.84  59.8  Sb  12:15:56.943  0.1  T__  ___  ___  ___  729773  FDSN  HU  --  BUD  BUD  HHN  ???  _
(Reading ML: 1.8 magdef=1
 Station ML: 1.8 magdef=1)

```

```

STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

```

Event bud2023dobl Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/02/20	09:14:00.27	0.36	0.20	47.1334	17.8373	5.7	3.6	62	0.0A	0.0	8	6	110	0.21	1.30	m	se BUD	729802	BUD			
2023/02/20	09:14:00.20	0.70	0.32	47.1398	17.8530	7.8	3.9	56	0.0f		9	7	107	0.22	1.59		se ILOC	729802	ILOC			128

(#PRIME)  
(Locality: Veszprém Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.5	3	BUD	729802
MLv	1.5	0.2	3 BUD	729802
ML	1.6	0.1	3 ILOC	729802

Sta	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	0.22	278.2	Pg	09:14:04.188	-0.1					T__		266.1			ML	1.3	729803	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
(Reading ML: 1.3 magdef=1 Station ML: 1.3 magdef=1)																									
CSKK	0.36	51.0	Sg	09:14:11.676	0.0					T__						729804	FDSN	HU	--	BUD	BUD	HHN	???	_	
KOVH	1.07	170.7	Pg	09:14:20.665	0.1					T__		40.9			ML	1.7	729806	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
KOVH	1.07	170.7	Sg	09:14:34.250	-0.1					T__						729805	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
MORH	1.07	149.2	Pg	09:14:20.678	-0.1					T__		34.3			ML	1.6	729807	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MORH	1.07	149.2	Lg	09:14:35.286	0.6					T__						729808	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																									
RONA	1.20	298.5	Lg	09:14:39.062	0.4					T__						729809	FDSN	OE	--	BUD	BUD	HHN	???	_	
MODS	1.29	342.7	Sb	09:14:42.466	-0.2					T__						729810	FDSN	SK	--	BUD	BUD	HHN	???	_	
PSZI	1.59	59.9	I	09:24:45.143	62.7	236.9	-4.5	313.60	-74.7	A_						111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023dtlu Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/02/23	08:09:23.78	0.33	0.70	47.3940	18.3960	4.0	3.3	116	0.0A	0.0	10	9	108	0.10	1.32	m	se BUD	729833	BUD			
2023/02/23	08:09:21.34	1.38	0.66	47.4024	18.4190	7.6	4.3	74	0.0f		11	10	108	0.11	1.33		se ILOC	729833	ILOC			111

(#PRIME)  
(Locality: Gánt Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	2.1	1	BUD	729833
MLv	2.1	0.0	1 BUD	729833

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
CSKK	0.11	250.0	Pg	08:09:24.504	0.2					T__		3797.2			ML	2.2	729834	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.11	250.0	Lg	08:09:26.461	-0.6					T__						729835	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.2 magdef=1 Station ML: 2.2 magdef=0)																									
SRO	0.42	350.2	Lg	08:09:37.145	-0.3					T__						729836	FDSN	SK	--	BUD	BUD	EHN	???	_	
A267A	0.46	174.6	Lg	08:09:38.418	-0.1					T__						729837	FDSN	Z6	00	BUD	BUD	HHN	???	_	
MPLH	0.64	249.1	Lg	08:09:44.300	0.0					T__						729838	FDSN	HU	--	BUD	BUD	HHN	???	_	
ET1H	1.09	63.6	Sn	08:09:59.519	-0.3					T__						729839	FDSN	HU	--	BUD	BUD	HHN	???	_	
PSZI	1.12	62.1	I	08:17:30.286	98.9	238.3	-4.9	305.60	-44.2	A_						111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	1.12	62.1	Sn	08:10:00.622	-0.4					T__						729840	FDSN	GE	--	BUD	BUD	HHN	???	_	
MORH	1.20	172.5	Sn	08:10:00.690	-1.3					T__						729841	FDSN	HU	--	BUD	BUD	HHN	???	_	
MODS	1.24	322.1	Sn	08:10:03.361	-0.5					T__						729842	FDSN	SK	--	BUD	BUD	HHN	???	_	
KOVH	1.33	189.6	Sn	08:10:06.191	0.8					T__						729843	FDSN	HU	--	BUD	BUD	HHN	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023dtrx 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
2023/02/23	11:13:40.99	0.31	0.66	48.4127	19.1252	4.2	3.2	1	0.0A	0.0	12	8	102	0.71	1.28	m	se BUD	729866	BUD			
2023/02/23	11:13:38.36	1.08	1.13	48.4124	19.1081	4.2	3.3	151	0.0f		14	9	101	0.72	1.28		se ILOC	729866	ILOC			148

(#PRIME)  
 (Locality: Sasa Slovakia)

Magnitude	Err	Nsta	Author	OrigID	
M	1.9	3	BUD	729866	
MLv	1.9	0.0	3	BUD	729866
ML	1.9	0.0	3	ILOC	729866

Sta	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	0.72	133.0	I	11:17:41.144	3.1	315.3	1.7	345.10	12.2	TA						111111	FDSN	HU	--	BUD	BUD	???	???	-	
PSZ	0.72	132.9	Pg	11:13:53.884	0.2					T		120.2			ML	2.0	729871	FDSN	GE	--	BUD	BUD	HHZ	HHZ	-
PSZ	0.72	132.9	Lg	11:14:04.062	-0.7					T						729870	FDSN	GE	--	BUD	BUD	HHN	???	-	
(Reading ML: 2.0 magdef=1)																									
(Station ML: 2.0 magdef=1)																									
ET1H	0.74	136.0	Pn	11:13:55.210	0.2					T		99.2			ML	1.9	729872	FDSN	HU	--	BUD	BUD	HHZ	HHZ	-
ET1H	0.74	136.0	Lg	11:14:04.789	-0.1					T						729873	FDSN	HU	--	BUD	BUD	HHN	???	-	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
SRO	0.80	221.9	Lg	11:14:06.885	-0.6					T						729867	FDSN	SK	--	BUD	BUD	EHN	???	-	
JOS	0.96	84.5	Lg	11:14:11.192	-0.4					T						729874	FDSN	Z6	--	BUD	BUD	HHN	???	-	
JAVC	1.05	295.7	Lg	11:14:16.005	0.2					T						729875	FDSN	CZ	--	BUD	BUD	HHN	???	-	
CSKK	1.19	208.8	Sn	11:14:20.412	0.8					T						729876	FDSN	HU	--	BUD	BUD	HHN	???	-	
MODS	1.22	268.9	Pn	11:14:02.587	0.5					T						729878	FDSN	SK	--	BUD	BUD	HHZ	???	-	
MODS	1.22	268.9	Sn	11:14:20.292	-0.4					T						729877	FDSN	SK	--	BUD	BUD	HHN	???	-	
NIE	1.28	37.5	Pn	11:14:04.319	1.5					T		48.1			ML	1.9	729869	FDSN	PL	--	BUD	BUD	BHZ	BHZ	-
NIE	1.28	37.5	Sn	11:14:22.537	0.2					T						729868	FDSN	PL	--	BUD	BUD	BHN	???	-	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023dtui Austria

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2023/02/23	12:28:12.96	0.36	0.90	47.8574	16.0328	4.4	4.2	41	0.0A	0.0	8	5	91	0.14	1.23	m	se BUD	729938	BUD				
2023/02/23	12:28:11.63	0.66	0.49	47.9098	16.0824	6.1	5.6	76	0.0f		9	6	92	0.15	2.56		se ILOC	729938	ILOC				160

(#PRIME)  
 (Locality: Durnbachtal Austria)

Magnitude	Err	Nsta	Author	OrigID	
M	1.1	1	BUD	729938	
MLv	1.1	0.0	1	BUD	729938

Sta	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	0.15	277.2	Pg	12:28:14.198	-0.3					T		257.9			ML	1.1	729939	FDSN	OE	--	BUD	BUD	HHZ	HHZ	-
CONA	0.15	277.2	Lg	12:28:17.491	1.1					T						729940	FDSN	OE	--	BUD	BUD	HHN	???	-	
(Reading ML: 1.1 magdef=1)																									
(Station ML: 1.1 magdef=0)																									
RONA	0.25	145.5	Pg	12:28:16.357	-0.1					T						729942	FDSN	OE	--	BUD	BUD	HHZ	???	-	
RONA	0.25	145.5	Lg	12:28:20.078	0.3					T						729941	FDSN	OE	--	BUD	BUD	HHN	???	-	





```

(Reading ML: 1.8 magdef=1
(Station ML: 1.8 magdef=1
PSZI 0.74 146.6 I 08:55:09.851 -1.5 330.5 3.4 342.40 9.2 TA_ 111111 FDSN HU -- BUD BUD ??? ??? _
ET1H 0.77 149.2 Pg 08:51:18.282 -0.5 T_ 48.3 ML 1.6 730193 FDSN HU -- BUD BUD HHZ HHZ _
ET1H 0.77 149.2 Lg 08:51:30.085 1.3 T_ 730192 FDSN HU -- BUD BUD HHN ??? _
(Reading ML: 1.6 magdef=1
(Station ML: 1.6 magdef=1
KECS 0.80 93.6 Sg 08:51:29.486 -0.2 T_ 730189 FDSN SK -- BUD BUD EHN ??? _
JOS 0.83 92.6 Pg 08:51:19.308 -0.7 T_ 72.0 ML 1.8 730187 FDSN Z6 -- BUD BUD HHZ HHZ _
JOS 0.83 92.6 Sg 08:51:30.555 -0.3 T_ 730188 FDSN Z6 -- BUD BUD HHN ??? _
(Reading ML: 1.8 magdef=1
(Station ML: 1.8 magdef=1
NIE 1.10 36.8 Pg 08:51:25.295 0.1 T_ 46.6 ML 1.8 730194 FDSN PL -- BUD BUD BHZ BHZ _
NIE 1.10 36.8 Lg 08:51:40.007 0.5 T_ 730195 FDSN PL -- BUD BUD BHN ??? _
(Reading ML: 1.8 magdef=1
(Station ML: 1.8 magdef=1
JAVC 1.12 287.2 Sg 08:51:39.693 -0.2 T_ 730196 FDSN CZ -- BUD BUD HHN ??? _
ABAH 1.32 99.9 Sg 08:51:46.590 0.0 T_ 730197 FDSN HU -- BUD BUD HHN ??? _
MORC 1.69 317.9 Sn 08:51:56.132 -1.0 T_ 730198 FDSN CZ -- BUD BUD HHN ??? _
OJC 1.71 11.1 Lg 08:52:00.212 1.1 T_ 730199 FDSN PL -- BUD BUD BHN ??? _

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023eppj Hungary

```

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2023/03/07 10:56:42.46 0.59 0.54 47.2396 18.2951 8.2 5.0 82 0.0A 0.0 4 3 177 0.13 1.05 m kx BUD 730218 BUD
2023/03/07 10:56:41.89 0.0 47.2302 18.2835 0.0 kx BUD_GT 1 BUD
2023/03/07 10:56:41.89 1.30 1.44 47.2642 18.3584 5.2 4.9 118 0.0f 6 4 112 0.12 1.23 kx ILOC 730218 ILOC 203
(#PRIME)
(Locality: Iszkaszentgyörgy Hungary)
(GT info : GT2 explosion)

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```

Magnitude Err Nsta Author OrigID
M 0.9 1 BUD 730218
MLv 0.9 0.0 1 BUD 730218

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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
CSKK 0.12 326.1 Pg 10:56:44.150 -0.0 T_ 191.3 ML 0.9 730220 FDSN HU -- BUD BUD HHZ HHZ _
CSKK 0.12 326.1 Sg 10:56:46.561 0.8 T_ 730219 FDSN HU -- BUD BUD HHN ??? _
(Reading ML: 0.9 magdef=1
(Station ML: 0.9 magdef=0
MPLH 0.57 260.7 Sg 10:56:58.940 -1.1 T_ 730221 FDSN HU -- BUD BUD HHN ??? _
MORH 1.07 169.3 Lg 10:57:16.615 0.4 T_ 730222 FDSN HU -- BUD BUD HHN ??? _
PSZI 1.23 57.2 I 11:03:52.392 -2.0 240.5 2.1 331.90 -25.8 TA_ 111111 FDSN HU -- BUD BUD ??? ??? _

```

```

STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

```

Event bud2023fncc Hungary

```

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2023/03/20 07:30:51.86 1.90 0.10 48.0142 19.5411 18.2 6.4 93 0.0A 0.0 6 4 291 0.26 0.82 m se BUD 730299 BUD
2023/03/20 07:30:51.50 1.39 0.82 47.9979 19.6158 5.7 1.1 112 0.0f 8 5 285 0.20 0.79 se ILOC 730299 ILOC 296
(#PRIME)
(Locality: Nagylóc Hungary)

```

```

Magnitude Err Nsta Author OrigID

```

M 1.1 2 BUD 730299  
 MLv 1.1 0.4 2 BUD 730299  
 ML 1.0 0.4 2 ILOC 730299

Sta	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	113.1	I	07:31:56.658	-0.2	296.9	3.6	333.90	-3.0	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	0.20	112.9	Pg	07:30:57.027	0.6					T_		276.1			ML	1.3	730301	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.20	112.9	Lg	07:30:59.712	-0.6					T_						730305	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=1)																									
ET1H	0.21	124.6	Pg	07:30:56.849	0.5					T_		66.4			ML	0.7	730300	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ET1H	0.21	124.6	Lg	07:30:59.643	-0.4					T_						730303	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 0.7 magdef=1)																									
(Station ML: 0.7 magdef=1)																									
KECS	0.76	49.8	Lg	07:31:17.216	-0.9					T_						730304	FDSN	SK	--	BUD	BUD	EHN	???	_	
JOS	0.79	50.7	Lg	07:31:18.226	-1.1					T_						730302	FDSN	Z6	--	BUD	BUD	HHN	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023fnkc Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/03/20	11:32:24.16	1.93	0.28	47.8544	19.1275	23.6	11.6	21	0.0A	0.0	5	4	327	0.50	1.14	m	kx BUD	730346	BUD			
2023/03/20	11:32:23.80			47.8355	19.1270				0.0								kx BUD_GT	1	BUD			
2023/03/20	11:32:23.80	1.58	0.32	47.8532	19.1199	6.0	2.8	81	0.0f		7	5	328	0.51	1.15		kx ILOC	730346	ILOC			332

(#PRIME)  
 (Locality: Sejce-Vác Hungary)  
 (GT info : GT2 explosion)

Magnitude	Err	Nsta	Author	OrigID
M	1.8	2	BUD	730346
MLv	1.8	0.3	2	BUD
ML	1.8	0.3	2	ILOC

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
ET1H	0.51	86.8	Sg	11:32:40.164	0.1					T_						730348	FDSN	HU	--	BUD	BUD	HHN	???	_	
PSZI	0.52	82.6	I	11:35:15.124	-0.2	263.1	-0.1	323.10	-8.8	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	0.53	82.6	Sg	11:32:40.493	-0.2					T_						730349	FDSN	GE	--	BUD	BUD	HHN	???	_	
KECS	1.11	54.9	Pg	11:32:44.657	-0.4					T_		82.4			ML	2.0	730351	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
KECS	1.11	54.9	Lg	11:32:59.780	0.3					T_						730350	FDSN	SK	--	BUD	BUD	EHN	???	_	
(Reading ML: 2.0 magdef=1)																									
(Station ML: 2.0 magdef=1)																									
JOS	1.15	55.4	Pg	11:32:46.082	0.3					T_		28.0			ML	1.6	730347	FDSN	Z6	--	BUD	BUD	HHN	HHZ	_
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023fqsd Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/03/22	07:00:42.21	0.61	0.37	47.9764	20.3501	10.4	3.3	142	0.0A	0.0	9	5	191	0.31	0.68	m	kx BUD	730374	BUD			
2023/03/22	07:00:42.04			47.9760	20.3693				0.0								kx BUD_GT	1	BUD			
2023/03/22	07:00:42.04	0.98	1.23	47.9770	20.3657	4.0	1.7	83	0.0f		11	6	192	0.32	0.67		kx ILOC	730374	ILOC			241

(#PRIME)  
 (Locality: Eger-III Hungary)  
 (GT info : GT2 explosion)



Magnitude	Err	Nsta	Author	OrigID	
M	1.2	4	BUD	730374	
MLv	1.2	0.3	4	BUD	730374
ML	1.2	0.2	4	ILOC	730374

Sta	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	0.32	259.7	Pg	07:00:48.140	-0.1					T__		73.4			ML	1.1	730376	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.32	259.7	Lg	07:00:52.356	-0.0					T__						730379	FDSN	GE	--	BUD	BUD	HNN	???	_	
(Reading ML: 1.1 magdef=1)																									
(Station ML: 1.1 magdef=1)																									
PSZI	0.32	259.6	I	07:02:29.706	3.3	79.4	0.1	354.30	19.9	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_	
ET1H	0.35	253.8	Pg	07:00:48.551	-0.1					T__		62.6			ML	1.1	730377	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ET1H	0.35	253.8	Sg	07:00:52.596	-0.6					T__						730380	FDSN	HU	--	BUD	BUD	HNN	???	_	
(Reading ML: 1.1 magdef=1)																									
(Station ML: 1.1 magdef=1)																									
KECS	0.51	8.9	Pg	07:00:51.955	0.1					T__		80.7			ML	1.6	730382	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
KECS	0.51	8.9	Sg	07:00:58.854	0.3					T__						730381	FDSN	SK	--	BUD	BUD	EHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
JOS	0.53	12.5	Pg	07:00:51.781	-0.5					T__		35.7			ML	1.3	730375	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	_
JOS	0.53	12.5	Lg	07:00:59.233	0.1					T__						730383	FDSN	Z6	--	BUD	BUD	HNN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=1)																									
ABAH	0.67	61.1	Lg	07:01:04.269	0.8					T__						730378	FDSN	HU	--	BUD	BUD	HNN	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023gdnd Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/03/29	07:16:04.52	0.29	0.89	46.8646	17.2813	3.8	2.8	40	0.0A	0.0	15	10	96	0.14	1.14	m	se BUD	730416	BUD			
2023/03/29	07:16:03.19	0.46	0.77	46.8917	17.3480	3.4	3.0	14	0.0f		17	11	93	0.12	2.01	se	ILOC	730416	ILOC			147

(#PRIME)  
(Localty: Várvölgy Hungary)

Magnitude	Err	Nsta	Author	OrigID	
M	1.9	3	BUD	730416	
MLv	1.9	0.2	3	BUD	730416
ML	1.9	0.2	4	ILOC	730416

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
BADH	0.12	135.2	Lg	07:16:08.799	-0.0					T__						730419	FDSN	HU	--	BUD	BUD	HNN	???	_	
A261A	0.15	293.9	Pg	07:16:06.520	-0.3					T__		8885.0			ML	2.7	730417	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
A261A	0.15	293.9	Lg	07:16:09.075	-0.7					T__						730418	FDSN	Z6	00	BUD	BUD	HNN	???	_	
(Reading ML: 2.7 magdef=1)																									
(Station ML: 2.7 magdef=1)																									
MPLH	0.31	25.1	Pg	07:16:09.293	-0.7					T__		399.5			ML	1.8	730420	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MPLH	0.31	25.1	Lg	07:16:14.765	-0.5					T__						730430	FDSN	HU	--	BUD	BUD	HNN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
TIH	0.37	88.5	Pg	07:16:11.707	0.6					T__		437.5			ML	2.0	730422	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
TIH	0.37	88.5	Lg	07:16:17.540	0.3					T__						730421	FDSN	HU	--	BUD	BUD	HNN	???	_	
(Reading ML: 2.0 magdef=1)																									
(Station ML: 2.0 magdef=1)																									
EGYH	0.53	358.8	Lg	07:16:22.967	0.5					T__						730431	FDSN	HU	--	BUD	BUD	HNN	???	_	
CSKK	0.78	52.5	Sn	07:16:33.056	-0.7					T__						730424	FDSN	HU	--	BUD	BUD	HNN	???	_	
KOGS	0.88	240.0	Lg	07:16:31.257	-0.7					T__						730423	FDSN	SL	--	BUD	BUD	BHN	???	_	
KOVH	0.96	146.8	Pn	07:16:23.000	0.3					T__		42.1			ML	1.7	730426	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_

KOVH	0.96	146.8	Lg	07:16:35.434	-0.7	T__	---	730425	FDSN	HU	--	BUD	BUD	HHN	???	_				
				(Reading ML: 1.7 magdef=1																
				(Station ML: 1.7 magdef=1																
RONA	1.08	318.9	Pn	07:16:25.987	1.1	T__	---	730427	FDSN	OE	--	BUD	BUD	HHZ	???	_				
RONA	1.08	318.9	Lg	07:16:39.018	-0.0	T__	---	730428	FDSN	OE	--	BUD	BUD	HHN	???	_				
MORH	1.12	126.7	Lg	07:16:41.742	-0.1	T__	---	730429	FDSN	HU	--	BUD	BUD	HHN	???	_				
PSZI	2.01	58.4	I	07:28:39.489	-1.9	238.3	-1.9	312.90	-99.0	TA_	---	111111	FDSN	HU	--	BUD	BUD	???	???	_

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023gfgb 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	
2023/03/30	11:00:52.20	0.33	0.81	48.8736	20.9325	4.3	3.8	125	0.0A	0.0	13	7	122	0.46	1.22	m	se BUD	730464	BUD				
2023/03/30	11:00:51.08	0.98	1.19	48.8471	20.9674	4.2	3.6	85	0.0f		15	8	121	0.45	1.21	se	ILOC	730464	ILOC			222	
(#PRIME)																							
(Locality: Jaklovce Slovakia)																							

Magnitude	Err	Nsta	Author	OrigID
M	1.9	6	BUD	730464
MLv	1.9	0.2	6 BUD	730464
ML	1.9	0.2	6 ILOC	730464

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
JOS	0.45	219.1	Pg	11:01:00.383	0.2					T__		148.4		ML	1.7	730468	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	_	
JOS	0.45	219.1	Lg	11:01:07.409	0.4					T__						730467	FDSN	Z6	--	BUD	BUD	HHN	???	_	
				(Reading ML: 1.7 magdef=1																					
				(Station ML: 1.7 magdef=1																					
KECS	0.48	221.4	Pg	11:01:00.851	0.0					T__		304.1		ML	2.1	730465	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_	
KECS	0.48	221.4	Lg	11:01:07.963	-0.2					T__						730466	FDSN	SK	--	BUD	BUD	EHN	???	_	
				(Reading ML: 2.1 magdef=1																					
				(Station ML: 2.1 magdef=1																					
ABAH	0.58	161.7	Pg	11:01:03.193	0.5					T__		129.9		ML	1.9	730469	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_	
ABAH	0.58	161.7	Lg	11:01:10.518	-1.9					T__						730470	FDSN	HU	--	BUD	BUD	HHN	???	_	
				(Reading ML: 1.9 magdef=1																					
				(Station ML: 1.9 magdef=1																					
NIE	0.72	322.8	Pg	11:01:05.322	0.6					T__		61.2		ML	1.7	730474	FDSN	PL	--	BUD	BUD	BHZ	BHZ	_	
NIE	0.72	322.8	Lg	11:01:13.498	-1.5					T__						730475	FDSN	PL	--	BUD	BUD	BHN	???	_	
				(Reading ML: 1.7 magdef=1																					
				(Station ML: 1.7 magdef=0																					
KOLS	0.87	83.8	Pn	11:01:08.814	-0.9					T__						730477	FDSN	SK	--	BUD	BUD	HHZ	???	_	
KOLS	0.87	83.8	Lg	11:01:22.271	0.8					T__						730476	FDSN	SK	--	BUD	BUD	HHN	???	_	
PSZ	1.17	218.0	Pn	11:01:14.648	0.7					T__		96.5		c	ML	2.1	730472	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	1.17	218.0	Sn	11:01:31.341	-0.7					T__						730471	FDSN	GE	--	BUD	BUD	HHN	???	_	
				(Reading ML: 2.1 magdef=1																					
				(Station ML: 2.1 magdef=0																					
PSZI	1.17	218.0	I	11:07:44.343	2.7	36.7	-0.5	364.00	10.5	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_	
ETIH	1.21	217.4	Pg	11:01:15.457	-0.8					T__		48.8		ML	1.9	730473	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_	
				(Reading ML: 1.9 magdef=1																					
				(Station ML: 1.9 magdef=1																					

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023ghdp Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2023/03/31	06:59:07.39	0.56	0.44	47.8855	19.1278	12.5	4.4	152	0.0A	0.0	7	5	187	0.50	1.12	m	kx BUD	730526	BUD				

2023/03/31 06:59:05.18 47.8355 19.1270 0.0  
 2023/03/31 06:59:05.18 1.16 0.97 47.8568 19.1257 4.3 2.7 88 0.0f 9 6 184 0.50 1.14 kx BUD\_GT 1 BUD  
 (#PRIME) kx ILOC 730526 ILOC 327  
 (Locality: Sejce-Vác Hungary)  
 (GT info : GT2 explosion)

Magnitude Err Nsta Author OrigID  
 M 1.8 3 BUD 730526  
 MLv 1.8 0.3 3 BUD 730526  
 ML 1.9 0.2 3 ILOC 730526

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
ET1H	0.50	87.2	Pg	06:59:16.107	0.1					T__		59.0		___	ML	1.5	730527	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ET1H	0.50	87.2	Lg	06:59:23.788	-0.0					T__				___		730529	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=1)																									
PSZI	0.52	83.0	I	07:01:56.368	1.2	264.9	1.4	322.90	-9.1	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	0.52	82.9	Lg	06:59:23.692	-1.2					T__				___		730530	FDSN	GE	--	BUD	BUD	HHN	???	_	
CSKK	0.77	230.2	Lg	06:59:32.869	-0.3					T__				___		730531	FDSN	HU	--	BUD	BUD	HHN	???	_	
KECS	1.11	54.9	Pg	06:59:28.014	0.8					T__		80.6		___	ML	2.0	730533	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
KECS	1.11	54.9	Sn	06:59:42.748	-1.2					T__				___		730532	FDSN	SK	--	BUD	BUD	EHN	???	_	
(Reading ML: 2.0 magdef=1 Station ML: 2.0 magdef=1)																									
JOS	1.14	55.4	Pg	06:59:28.530	0.7					T__		57.7		___	ML	1.9	730528	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	_
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																									

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023ghew 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
2023/03/31	07:37:07.52	1.68	0.77	45.7353	18.4498	15.4	7.5	174	0.0A	0.0	6	4	287	0.43	0.81	m	se BUD	730553	BUD			
2023/03/31	07:37:07.16	1.42	0.87	45.8023	18.5233	7.7	4.4	129	0.0f		8	5	275	0.41	2.32		se ILOC	730553	ILOC			307
#PRIME)																						
(Locality: Croatia)																						

Magnitude Err Nsta Author OrigID  
 M 1.3 2 BUD 730553  
 MLv 1.3 0.0 2 BUD 730553  
 ML 1.2 0.1 2 ILOC 730553

Sta	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	0.41	314.2	Pg	07:37:16.522	0.5					T__		64.9		___	ML	1.3	730555	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
KOVH	0.41	314.2	Lg	07:37:21.121	-1.2					T__				___		730554	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1 Station ML: 1.3 magdef=1)																									
MORH	0.42	11.4	Pg	07:37:15.841	-0.2					T__		46.3		___	ML	1.1	730556	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MORH	0.42	11.4	Lg	07:37:22.739	-0.2					T__				___		730557	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.1 magdef=1 Station ML: 1.1 magdef=1)																									
HU22A	0.67	38.6	Lg	07:37:32.953	0.6					T__				___		730558	FDSN	Z6	00	BUD	BUD	HHN	???	_	
A266A	0.75	346.1	Lg	07:37:33.635	-0.1					T__				___		730559	FDSN	Z6	00	BUD	BUD	HHN	???	_	
PSZI	2.32	23.5	I	07:51:45.593	1.2	201.1	-3.4	317.20	-91.7	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023ghf1 Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/03/31	07:54:58.12	0.33	0.50	47.1190	18.0388	4.1	3.6	76	0.0A	0.0	12	7	112	0.24	1.03	m	se BUD	730586	BUD			
2023/03/31	07:54:56.66	0.52	0.85	47.1021	18.0478	4.7	3.4	64	0.0f		13	8	107	0.23	1.49		se ILOC	730586	ILOC			181

(#PRIME)  
(Locality: Vilonya Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.6	5	BUD	730586
MLv	1.6	0.2	5 BUD	730586
ML	1.7	0.0	5 ILOC	730586

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
TIH	0.23	207.7	Lg	07:55:05.823	-0.0					T__						730587	FDSN	HU	--	BUD	BUD	HHN	???	_	
CSKK	0.30	29.0	Pg	07:55:03.760	0.6					T__		162.9			ML	1.3	730588	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.30	29.0	Lg	07:55:07.220	-1.6					T__						730589	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1 Station ML: 1.3 magdef=0)																									
A267A	0.34	117.5	Pg	07:55:04.479	0.7					T__		329.6			ML	1.8	730591	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
A267A	0.34	117.5	Lg	07:55:08.482	-1.3					T__						730590	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
MPLH	0.35	281.3	Pg	07:55:04.609	0.3					T__		117.7			ML	1.4	730592	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MPLH	0.35	281.3	Lg	07:55:09.038	-1.2					T__						730593	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.4 magdef=1 Station ML: 1.4 magdef=1)																									
A266A	0.60	165.4	Lg	07:55:18.318	0.5					T__						730594	FDSN	Z6	00	BUD	BUD	HHN	???	_	
MORH	0.98	155.0	Pn	07:55:16.291	-0.0					T__		47.5			ML	1.7	730596	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MORH	0.98	155.0	Lg	07:55:29.918	-0.6					T__						730595	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
KOVH	1.01	178.0	Pg	07:55:16.908	-0.2					T__		57.4			ML	1.8	730598	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
KOVH	1.01	178.0	Lg	07:55:31.983	-0.1					T__						730597	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=0)																									
PS2I	1.49	56.2	I	08:04:46.400	46.7	234.8	-2.8	317.90	-62.5	A__						111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023ghil Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/03/31	09:26:18.41	0.28	0.32	48.2427	21.2335	4.1	3.0	177	0.0A	0.0	15	10	103	0.05	1.76	m	kx BUD	730634	BUD			
2023/03/31	09:26:16.86			48.2470	21.2460				0.0								kx BUD_GT	1	BUD			
2023/03/31	09:26:16.86	1.02	0.87	48.2285	21.2068	5.8	4.2	81	0.0f		16	11	105	0.07	1.76		kx ILOC	730634	ILOC			153

(#PRIME)  
(Locality: Táallya Hungary)  
(GT info : GT2 explosion)

Magnitude	Err	Nsta	Author	OrigID
M	2.0	4	BUD	730634
MLv	2.0	0.1	4 BUD	730634
ML	2.0	0.1	5 ILOC	730634

Sta	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	18.0	Pg	09:26:18.821	-0.0					T__		11492.3			ML	2.6	730635	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.07	18.0	Lg	09:26:19.620	-1.2					T__						730640	FDSN	HU	--	BUD	BUD	HHE	???	_	
(Reading ML: 2.6 magdef=1)																									

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(Station ML: 2.6 magdef=0
JOS 0.52 301.3 Pg 09:26:28.041 0.7 T__ 133.1 ___ ML 1.9 730636 FDSN Z6 -- BUD BUD HHZ HHZ _
JOS 0.52 301.3 Lg 09:26:35.301 0.0 T__ ___ 730641 FDSN Z6 -- BUD BUD HHN ??? _
(Reading ML: 1.9 magdef=1
(Station ML: 1.9 magdef=0
KECS 0.54 298.2 Lg 09:26:35.975 -0.2 T__ ___ 730642 FDSN SK -- BUD BUD EHN ??? _
TRPA 0.90 95.8 Pn 09:26:35.152 -0.4 T__ 127.4 ___ ML 2.1 730637 FDSN HU -- BUD BUD HHZ HHZ _
(Reading ML: 2.1 magdef=1
(Station ML: 2.1 magdef=1
PSZ 0.93 251.1 Pg 09:26:36.962 0.4 T__ 96.6 ___ ML 2.0 730638 FDSN GE -- BUD BUD HHZ HHZ _
PSZ 0.93 251.1 Lg 09:26:49.332 -1.2 T__ ___ 730643 FDSN GE -- BUD BUD HHN ??? _
(Reading ML: 2.0 magdef=1
(Station ML: 2.0 magdef=1
PSZI 0.93 251.1 I 09:33:41.340 127.5 74.9 4.8 359.30 20.4 A_ ___ 111111 FDSN HU -- BUD BUD ??? ??? _
ET1H 0.96 249.2 Pg 09:26:37.430 0.5 T__ 70.0 ___ ML 1.9 730639 FDSN HU -- BUD BUD HHZ HHZ _
ET1H 0.96 249.2 Lg 09:26:49.971 -1.1 T__ ___ 730645 FDSN HU -- BUD BUD HHN ??? _
(Reading ML: 1.9 magdef=1
(Station ML: 1.9 magdef=1
KOLS 1.00 44.7 Pn 09:26:37.456 0.2 T__ ___ 730644 FDSN SK -- BUD BUD HHZ ??? _
NIE 1.33 333.6 Lg 09:27:01.102 -0.5 T__ ___ 730646 FDSN PL -- BUD BUD BHN ??? _
MEZ 1.56 78.6 Pg 09:26:48.005 1.0 T__ ___ 730648 FDSN UA -- BUD BUD BHZ ??? _
MEZ 1.56 78.6 Lg 09:27:08.700 -1.2 T__ ___ 730647 FDSN UA -- BUD BUD BHN ??? _
DRGR 1.76 144.1 Sn 09:27:13.331 1.4 T__ ___ 730649 FDSN RO -- BUD BUD HHN ??? _

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023gsgi Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/04/06	08:52:05.07	0.66	0.31	46.1377	17.9925	8.4	6.8	143	0.0A	0.0	6	4	181	0.09	0.47	m	se BUD	730675	BUD			
2023/04/06	08:52:04.80	1.09	0.50	46.1129	18.0668	5.4	3.2	125	0.0f		8	5	156	0.03	2.20	se	ILOC	730675	ILOC			241

(#PRIME)  
(Locality: Bükkösd Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.8	4	BUD	730675
MLv	1.8	0.3	4 BUD	730675
ML	1.8	0.2	4 ILOC	730675

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.03	136.9	Pg	08:52:06.340	0.1					T__		2175.2		_c_	ML	1.7	730681	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
KOVH	0.03	136.9	Lg	08:52:07.526	-0.1					T__						730680	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1 (Station ML: 1.7 magdef=1																									
A273A	0.26	221.7	Pg	08:52:10.609	0.0					T__		722.1			ML	1.9	730677	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
(Reading ML: 1.9 magdef=1 (Station ML: 1.9 magdef=1																									
MORH	0.41	75.5	Pg	08:52:13.734	0.2					T__		47.4			ML	1.1	730676	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MORH	0.41	75.5	Lg	08:52:19.814	-0.5					T__						730678	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.1 magdef=1 (Station ML: 1.1 magdef=1																									
A266A	0.44	18.3	Pg	08:52:14.189	0.2					T__		299.2			ML	2.0	730679	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
(Reading ML: 2.0 magdef=1 (Station ML: 2.0 magdef=1																									
PSZI	2.20	34.0	I	09:05:55.083	-1.0	214.1	-1.3	315.80	-96.1	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_	

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023hbgk Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/04/11	07:07:24.16	0.24	0.45	47.3180	18.3036	3.2	2.6	136	0.0A	0.0	18	12	101	0.05	1.24	m	se BUD	730719	BUD			
2023/04/11	07:07:22.23	0.89	0.79	47.3163	18.3333	4.1	3.3	90	0.0f		19	13	103	0.07	1.24		se ILOC	730719	ILOC			107

(#PRIME)

(Locality: Magyaralmás Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.7	6	BUD	730719
MLv	1.7	0.2	6 BUD	730719
ML	1.7	0.1	6 ILOC	730719

Sta	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	313.5	Pg	07:07:24.566	0.3					T__		2481.1		___	ML	1.9	730720	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.07	313.5	Lg	07:07:25.552	-0.8					T__				___		730721	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=0)																									
HU08A	0.30	292.6	Pg	07:07:29.386	0.6					T__		155.2		___	ML	1.3	730722	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU08A	0.30	292.6	Lg	07:07:33.111	-1.1					T__				___		730723	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1 Station ML: 1.3 magdef=0)																									
HU09A	0.32	5.9	Pg	07:07:29.532	0.4					T__		212.5		___	ML	1.5	730724	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU09A	0.32	5.9	Lg	07:07:34.791	-0.3					T__				___		730725	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=1)																									
A267A	0.38	164.6	Lg	07:07:35.740	-1.2					T__				___		730726	FDSN	Z6	00	BUD	BUD	HHN	???	_	
MPLH	0.56	255.2	Pg	07:07:34.353	0.5					T__		62.2		___	ML	1.6	730727	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MPLH	0.56	255.2	Lg	07:07:41.729	-0.8					T__				___		730728	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																									
HU10A	0.70	41.0	Lg	07:07:47.645	-0.7					T__				___		730729	FDSN	Z6	00	BUD	BUD	HHN	???	_	
A261A	0.89	246.2	Lg	07:07:52.247	-0.3					T__				___		730730	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU03A	1.04	55.1	Sn	07:07:58.455	-0.8					T__				___		730731	FDSN	Z6	00	BUD	BUD	HHN	???	_	
MORH	1.12	168.9	Lg	07:08:00.646	-0.2					T__				___		730732	FDSN	HU	--	BUD	BUD	HHN	???	_	
ET1H	1.18	61.0	Pn	07:07:45.965	1.0					T__		41.2		___	ML	1.8	730734	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ET1H	1.18	61.0	Sn	07:08:02.326	-0.6					T__				___		730733	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
PSZI	1.22	59.7	I	07:15:47.827	78.2	241.5	0.6	302.40	-54.3	A_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	1.22	59.7	Pn	07:07:46.915	1.3					T__		40.3		___	ML	1.8	730737	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	1.22	59.7	Sn	07:08:04.736	0.5					T__				___		730736	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
KOVH	1.24	187.5	Sn	07:08:04.444	0.5					T__				___		730735	FDSN	HU	--	BUD	BUD	HHN	???	_	

STOP

BEGIN IMS2.0

DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023hdef Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/04/12	08:17:17.85	0.45	0.44	46.1831	18.2930	7.7	4.4	146	0.0A	0.0	5	3	152	0.16	0.36	m	se BUD	730789	BUD			
2023/04/12	08:17:17.65	1.14	0.96	46.1490	18.2950	7.1	3.8	134	0.0f		8	5	171	0.15	5.04		se ILOC	730789	ILOC			257

(#PRIME)

(Locality: Komló Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.4	2	BUD	730789

MLv 1.4 0.1 2 BUD 730789  
 ML 1.4 0.1 2 ILOC 730789

Sta	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	246.0	Pg	08:17:20.422	-0.1					T__		609.8		___	ML	1.5	730792	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
KOVH	0.15	246.0	Lg	08:17:23.158	0.7					T__				___		730793	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=1)																									
MORH	0.25	74.6	Pg	08:17:22.468	0.0					T__		234.6		___	ML	1.4	730790	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MORH	0.25	74.6	Sg	08:17:25.512	-0.2					T__				___		730791	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.4 magdef=1 Station ML: 1.4 magdef=1)																									
A266A	0.38	356.8	Sg	08:17:29.121	-0.7					T__				___		730794	FDSN	Z6	00	BUD	BUD	HHN	???	_	
PSZI	2.08	31.1	I	08:30:25.387	1.9	212.0	-0.3	319.30	-93.4	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
PVCI	5.04	331.8	I	08:45:19.719	-999	149.2	0.2	325.50	-48.0	A_				___		222222	FDSN	C9	--	BUD	BUD	???	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023hdev 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		
2023/04/12	08:35:23.01	0.33	0.32	45.6457	17.2683	4.7	3.8	142	0.0A	0.0	10	6	124	0.73	1.28	m	se BUD	730819	BUD					
2023/04/12	08:35:22.11	1.01	0.85	45.6567	17.2782	6.2	5.5	119	0.0F		11	7	125	0.72	2.89	se ILOC	730819	ILOC				219		
#PRIME (Locality: Batinjska-Rijeka)																								

Magnitude	Err	Nsta	Author	OrigID
M	2.0	5	BUD	730819
MLv	2.0	0.2	5	BUD
ML	1.9	0.0	5	ILOC

Sta	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	0.72	52.8	Pg	08:35:37.260	0.3					T__		319.3		___	ML	2.4	730820	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
KOVH	0.72	52.8	Lg	08:35:46.415	-0.8					T__				___		730822	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.4 magdef=1 Station ML: 2.4 magdef=0)																									
BEHE	0.89	336.9	Lg	08:35:51.657	-0.7					T__				___		730823	FDSN	HU	--	BUD	BUD	HHN	???	_	
BLY	0.91	184.2	Pg	08:35:39.434	-0.4					T__		92.1		___	ML	2.0	730825	FDSN	MN	--	BUD	BUD	HHZ	HHZ	_
BLY	0.91	184.2	Lg	08:35:52.465	1.1					T__				___		730824	FDSN	MN	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.0 magdef=1 Station ML: 2.0 magdef=1)																									
PTJ	0.95	285.7	Pg	08:35:41.348	0.3					T__		81.4		___	ML	1.9	730821	FDSN	CR	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																									
MORH	1.10	59.1	Pn	08:35:44.401	0.7					T__		60.0		___	ML	1.9	730827	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MORH	1.10	59.1	Sn	08:35:58.964	-1.1					T__				___		730826	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																									
CRES	1.29	278.2	Pg	08:35:46.761	-0.1					T__		35.5		___	ML	1.8	730829	FDSN	SL	--	BUD	BUD	BHZ	BHZ	_
CRES	1.29	278.2	Sn	08:36:03.964	-1.1					T__				___		730828	FDSN	SL	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=0)																									
PSZI	2.89	37.5	I	08:54:47.832	76.0	215.5	-3.9	317.40	-63.9	A_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023hdnp Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/04/12	13:02:08.94	1.90	0.87	47.5882	18.4963	20.5	5.0	94	0.0A	0.0	5	4	244	0.09	0.77	m	kx BUD	730851	BUD			
2023/04/12	13:01:56.43			47.5600	18.4573				0.0								kx BUD_GT	1	BUD			
2023/04/12	13:01:56.43	2.48	1.58	47.5488	18.9943	16.5	3.6	59	0.0f		6	5	191	0.42	1.06		kx ILOC	730851	ILOC			309

(#PRIME)  
(Localcity: Tatabánya Hungary)  
(GT info : GT2 explosion)

Magnitude	Err	Nsta	Author	OrigID
M	1.7	1	BUD	730851
MLv	1.7	0.0	1 BUD	730851

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU09A	0.42	282.5	Pn	13:02:09.555	-0.2					T__		1485.9		___	ML	2.7	730852	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU09A	0.42	282.5	Lg	13:02:10.704	-2.0					T__				___		730853	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 2.7 magdef=1)																									
(Station ML: 2.7 magdef=0)																									
SRO	0.53	300.2	Lg	13:02:17.944	1.5					T__				___		730856	FDSN	SK	--	BUD	BUD	EHN	???	_	
CSKK	0.53	249.8	Lg	13:02:17.454	1.0					T__				___		730854	FDSN	HU	--	BUD	BUD	HHN	???	_	
PSZI	0.71	58.3	I	13:08:59.335	187.3	242.0	3.0	322.50	-10.2	A__				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
MPLH	1.06	249.6	Sn	13:02:34.317	0.2					T__				___		730855	FDSN	HU	--	BUD	BUD	HHN	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023hezx 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
2023/04/13	08:23:27.72	0.61	0.52	48.5418	17.5219	9.3	3.4	117	0.0A	0.0	9	6	201	0.33	1.27	m	se BUD	730876	BUD			
2023/04/13	08:23:25.98	1.33	0.59	48.5358	17.5411	12.6	4.4	119	0.0f		10	7	110	0.33	1.69		se ILOC	730876	ILOC			206

(#PRIME)  
(Localcity: Boleraz Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.7	3	BUD	730876
MLv	1.7	0.3	3 BUD	730876
ML	1.8	0.4	3 ILOC	730876

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
JAVC	0.33	14.8	Pg	08:23:33.483	0.2					T__		147.3		___	ML	1.4	730877	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	_
JAVC	0.33	14.8	Lg	08:23:38.593	-0.4					T__				___		730885	FDSN	CZ	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									
ZST	0.45	220.9	Lg	08:23:41.941	-0.6					T__				___		730882	FDSN	SK	--	BUD	BUD	HHN	???	_	
KRUC	0.92	305.2	Pn	08:23:44.889	-0.7					T__		54.8		___	ML	1.8	730878	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	_
KRUC	0.92	305.2	Lg	08:23:57.026	-0.2					T__				___		730879	FDSN	CZ	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
RONA	1.18	225.4	Sn	08:24:06.207	-0.5					T__				___		730883	FDSN	OE	--	BUD	BUD	HHN	???	_	
MORC	1.24	0.0	Sn	08:24:08.238	-0.8					T__				___		730884	FDSN	CZ	--	BUD	BUD	HHN	???	_	
CONA	1.28	242.2	Pn	08:23:50.429	-0.4					T__		68.6		___	ML	2.0	730881	FDSN	OE	--	BUD	BUD	HHZ	HHZ	_
CONA	1.28	242.2	Lg	08:24:08.144	0.6					T__				___		730880	FDSN	OE	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.0 magdef=1)																									
(Station ML: 2.0 magdef=1)																									
PSZI	1.69	110.6	I	08:34:35.565	43.9	295.3	3.0	322.40	-73.8	A__				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions



Event bud2023hfas Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/04/13	08:47:49.34	0.30	0.37	47.8301	19.1089	9.7	2.5	165	0.0A	0.0	13	9	159	0.06	1.17	m	se BUD	730915	BUD			
2023/04/13	08:47:49.07	0.80	0.36	47.8354	19.1206	3.1	2.7	93	0.0f		15	10	159	0.07	1.16		se ILOC	730915	ILOC			165

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

Magnitude	Err	Nsta	Author	OrigID
M	1.6	4	BUD	730915
MLv	1.6	0.1	4 BUD	730915
ML	1.7	0.0	5 ILOC	730915

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU10A	0.07	278.1	Pg	08:47:50.610	0.2					T__		1123.5			ML	1.5	730916	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU10A	0.07	278.1	Sg	08:47:50.919	-0.4					T__						730919	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=0)																									
HU03A	0.33	77.9	Sg	08:47:59.718	0.1					T__						730920	FDSN	Z6	00	BUD	BUD	HHN	???	_	
ET1H	0.51	84.8	Sg	08:48:05.324	-0.0					T__						730921	FDSN	HU	--	BUD	BUD	HHN	???	_	
PS2I	0.53	80.7	I	08:50:40.415	-0.9	265.9	4.6	321.90	-10.0	TA__						111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	0.53	80.7	Sg	08:48:06.213	0.2					T__						730922	FDSN	GE	--	BUD	BUD	HHN	???	_	
HU09A	0.54	248.7	Sg	08:48:05.936	-0.3					T__						730923	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU08A	0.90	243.9	Pg	08:48:06.612	0.2					T__		51.5			ML	1.7	730925	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU08A	0.90	243.9	Lg	08:48:18.109	-0.0					T__						730924	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
HU02A	0.99	72.6	Pb	08:48:08.985	-0.1					T__		32.6			ML	1.6	730918	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.99	72.6	Sb	08:48:22.441	-0.2					T__						730917	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																									
KECS	1.12	54.1	Pg	08:48:10.478	-0.1					T__		84.6			ML	2.1	730926	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=0)																									
JOS	1.16	54.6	Pg	08:48:11.146	-0.1					T__		36.8			ML	1.7	730927	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	_
JOS	1.16	54.6	Sg	08:48:26.816	0.6					T__						730928	FDSN	Z6	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023hfed Austria

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/04/13	10:31:19.61	0.30	0.50	48.1335	16.9364	4.6	3.0	125	0.0A	0.0	13	8	96	0.13	1.30	m	se BUD	730961	BUD			
2023/04/13	10:31:18.24	0.50	0.41	48.1380	16.9755	5.4	3.4	114	0.0f		14	9	82	0.10	1.97		se ILOC	730961	ILOC			131

(#PRIME)  
(Locality: Hainburg Austria)

Magnitude	Err	Nsta	Author	OrigID
M	1.5	3	BUD	730961
MLv	1.5	0.2	3 BUD	730961
ML	1.7	0.3	4 ILOC	730961

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
ZST	0.10	55.6	Pg	10:31:21.398	0.5					T__						730968	FDSN	SK	--	BUD	BUD	HHZ	???	_
ZST	0.10	55.6	Lg	10:31:23.591	0.3					T__						730969	FDSN	SK	--	BUD	BUD	HHN	???	_
RONA	0.63	226.4	Pg	10:31:30.553	-0.4					T__						730965	FDSN	OE	--	BUD	BUD	HHZ	???	_

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RONA 0.63 226.4 Lg 10:31:39.730 0.3 T__
CONA 0.78 254.7 Pg 10:31:33.470 -0.2 T__ 40.7 ___ ML 1.5 730963 FDSN OE -- BUD BUD HHN ??? _
CONA 0.78 254.7 Lg 10:31:43.456 -0.4 T__ ___ 730962 FDSN OE -- BUD BUD HHN ??? _
(Reading ML: 1.5 magdef=1
Station ML: 1.5 magdef=1
JAVC 0.86 32.4 Pn 10:31:36.847 -0.4 T__ 62.4 ___ ML 1.8 730970 FDSN CZ -- BUD BUD HHZ HHZ _
(Reading ML: 1.8 magdef=1
Station ML: 1.8 magdef=1
KRUC 1.00 337.6 Lg 10:31:52.271 -0.0 T__ ___ 730974 FDSN CZ -- BUD BUD HHN ??? _
MPLH 1.04 158.3 Lg 10:31:53.398 -0.6 T__ ___ 730971 FDSN HU -- BUD BUD HHN ??? _
VRAC 1.20 348.0 Pn 10:31:41.593 -0.1 T__ 15.0 ___ ML 1.3 730973 FDSN CZ -- BUD BUD HHZ HHZ _
VRAC 1.20 348.0 Lg 10:31:58.456 -0.1 T__ ___ 730972 FDSN CZ -- BUD BUD HHN ??? _
(Reading ML: 1.3 magdef=1
Station ML: 1.3 magdef=1
ARSA 1.32 228.4 Pg 10:31:45.053 0.7 T__ 64.4 ___ ML 2.0 730967 FDSN OE -- BUD BUD HHZ HHZ _
ARSA 1.32 228.4 Sn 10:32:02.256 0.4 T__ ___ 730966 FDSN OE -- BUD BUD HHN ??? _
(Reading ML: 2.0 magdef=1
Station ML: 2.0 magdef=1
PSZI 1.97 95.3 I 10:44:31.612 51.3 281.7 4.2 331.70 -79.3 A_ ___ 111111 FDSN HU -- BUD BUD ??? ??? _

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023hoce Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/04/18	07:44:35.64	1.15	0.40	47.8048	20.1938	15.0	3.6	159	0.0A	0.0	10	6	238	0.23	0.79	m	se BUD	731002	BUD			
2023/04/18	07:44:35.25	0.61	1.64	47.8684	20.1413	3.6	0.7	107	0.0F		12	7	223	0.17	0.76		se ILOC	731002	ILOC			245

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(#PRIME)
(Locality: Kisnana Hungary)

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Magnitude	Err	Nsta	Author	OrigID
M	1.3	4	BUD	731002
MLv	1.3	0.1	4 BUD	731002
ML	1.2	0.0	4 ILOC	731002

Sta	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	0.17	286.8	Pg	07:44:40.294	0.7					T__		295.4		___	ML	1.3	731003	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.17	286.8	Lg	07:44:42.892	-0.2					T__				___		731010	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1 Station ML: 1.3 magdef=1)																									
PSZI	0.17	286.6	I	07:45:35.047	3.8	104.3	-2.1	345.90	8.3	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
ET1H	0.18	273.5	Pg	07:44:40.422	0.9					T__		259.4		___	ML	1.2	731005	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ET1H	0.18	273.5	Lg	07:44:42.743	-0.2					T__				___		731004	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.2 magdef=1 Station ML: 1.2 magdef=1)																									
HU02A	0.36	45.3	Pg	07:44:43.482	0.3					T__		62.0		___	ML	1.1	731007	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.36	45.3	Lg	07:44:47.613	-1.7					T__				___		731011	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.1 magdef=1 Station ML: 1.1 magdef=1)																									
HU03A	0.37	275.7	Lg	07:44:47.608	-1.5					T__				___		731006	FDSN	Z6	00	BUD	BUD	HHN	???	_	
JOS	0.68	22.8	Pg	07:44:49.088	0.2					T__		20.3		___	ML	1.2	731008	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	_
JOS	0.68	22.8	Lg	07:44:59.190	-0.2					T__				___		731009	FDSN	Z6	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.2 magdef=1 Station ML: 1.2 magdef=1)																									
HU10A	0.76	268.7	Lg	07:45:01.370	-1.6					T__				___		731012	FDSN	Z6	00	BUD	BUD	HHN	???	_	

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023honn Austria

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/04/18	13:29:33.66	0.29	0.89	47.3148	16.3158	4.0	3.3	31	0.0	0.0	13	7	83	0.25	0.87	m	se BUD	731045	BUD			
2023/04/18	13:29:31.98	1.00	1.18	47.3000	16.3530	6.2	3.4	50	0.0f		15	9	86	0.24	3.44		se ILOC	731045	ILOC			166

(#PRIME)

(Locality: Unterkohlstatten Austria)

Magnitude	Err	Nsta	Author	OrigID
M	1.7	6	BUD	731045
MLv	1.7 0.2	6	BUD	731045
ML	1.6 0.1	6	ILOC	731045

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
A260A	0.24	93.8	Pg	13:29:37.430	0.2					T__		514.7		___	ML	1.7	731052	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
A260A	0.24	93.8	Lg	13:29:41.284	0.2					T__				___		731053	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
RONA	0.40	354.5	Pg	13:29:40.880	0.6					T__				___		731048	FDSN	OE	--	BUD	BUD	HHZ	???	_	
RONA	0.40	354.5	Lg	13:29:45.180	-0.8					T__				___		731049	FDSN	OE	--	BUD	BUD	HHN	???	_	
ARSA	0.57	265.3	Pn	13:29:44.371	-2.9					T__		48.3		___	ML	1.5	731050	FDSN	OE	--	BUD	BUD	HHZ	HHZ	_
ARSA	0.57	265.3	Lg	13:29:49.779	-0.4					T__				___		731051	FDSN	OE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									
EGYH	0.68	79.7	Pn	13:29:49.013	1.0					T__		131.0		___	ML	2.0	731054	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
(Reading ML: 2.0 magdef=1)																									
(Station ML: 2.0 magdef=1)																									
CONA	0.71	332.3	Pn	13:29:48.289	-1.0					T__		35.5		___	ML	1.4	731046	FDSN	OE	--	BUD	BUD	HHZ	HHZ	_
CONA	0.71	332.3	Lg	13:29:55.699	0.2					T__				___		731047	FDSN	OE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=0)																									
MPLH	0.82	98.7	Pn	13:29:49.609	-0.3					T__		37.5		___	ML	1.5	731055	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MPLH	0.82	98.7	Lg	13:30:00.042	-0.7					T__				___		731056	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									
KOGS	0.86	184.8	Pn	13:29:50.163	-0.4					T__		114.1		___	ML	2.0	731057	FDSN	SL	--	BUD	BUD	BHZ	BHZ	_
KOGS	0.86	184.8	Sn	13:30:02.384	-1.3					T__				___		731058	FDSN	SL	--	BUD	BUD	BHN	???	_	
(Reading ML: 2.0 magdef=1)																									
(Station ML: 2.0 magdef=0)																									
PSZI	2.47	74.2	I	13:44:36.494	-32.2	257.1	0.3	327.30	-75.1	A_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
PVCI	3.44	340.7	I	13:51:04.266	-1.6	150.3	-9.0	232.80	-137.1	T__				___		222222	FDSN	C9	--	BUD	BUD	???	???	_	

STOP

BEGIN IMS2.0

DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023hqad Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2023/04/19	08:59:15.09	0.34	0.60	46.8919	17.3194	3.7	3.5	42	0.0A	0.0	10	8	93	0.14	1.14	m	kx BUD	731088	BUD					
2023/04/19	08:59:13.34			46.8902	17.3220				0.0								kx BUD_GT	1	BUD					
2023/04/19	08:59:13.34	1.01	1.51	46.8945	17.3324	5.0	3.4	157	0.0f		12	9	93	0.13	2.02		kx ILOC	731088	ILOC					148

(#PRIME)

(Locality: Uzsa Hungary)

(GT info : GT2 explosion)

Magnitude	Err	Nsta	Author	OrigID
M	2.2	2	BUD	731088
MLv	2.2 0.4	2	BUD	731088
ML	2.1 0.4	2	ILOC	731088

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
BADH	0.13	132.8	Lg	08:59:19.386	0.1					T__						731089	FDSN	HU	--	BUD	BUD	HHN	???	_	
A261A	0.14	294.6	Pg	08:59:17.235	0.5					T__		4866.1		___	ML	2.4	731090	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
A261A	0.14	294.6	Lg	08:59:19.215	-0.3					T__				___		731091	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 2.4 magdef=1)																									
(Station ML: 2.4 magdef=1)																									
MPLH	0.31	27.1	Pg	08:59:20.535	0.4					T__		531.9		___	ML	1.9	731092	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MPLH	0.31	27.1	Lg	08:59:25.496	-0.0					T__				___		731093	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
HU08A	0.67	36.7	Lg	08:59:37.058	-1.0					T__				___		731094	FDSN	Z6	00	BUD	BUD	HHN	???	_	
CSKK	0.79	53.2	Lg	08:59:41.061	-1.4					T__				___		731095	FDSN	HU	--	BUD	BUD	HHN	???	_	
KOGS	0.87	239.5	Sn	08:59:43.786	-1.7					T__				___		731096	FDSN	SL	--	BUD	BUD	BHN	???	_	
KOVH	0.97	146.4	Lg	08:59:46.000	-0.6					T__				___		731097	FDSN	HU	--	BUD	BUD	HHN	???	_	
MORH	1.13	126.4	Sn	08:59:51.110	-0.8					T__				___		731098	FDSN	HU	--	BUD	BUD	HHN	???	_	
PSZI	2.02	58.6	I	09:11:58.230	3.6	243.0	2.5	318.00	-94.1	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023htni 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	
2023/04/21	07:04:10.49	0.68	0.55	48.4976	17.5823	9.9	3.7	116	0.0A	0.0	10	6	217	0.24	1.28	m	se BUD	731120	BUD				
2023/04/21	07:04:08.89	1.40	0.62	48.5025	17.5662	13.3	3.3	119	0.0f		11	7	115	0.23	1.66		se ILOC	731120	ILOC			214	

(#PRIME)  
(Locality: Boleraz Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.5	2	BUD	731120
MLv	1.5	0.0	2 BUD	731120
ML	1.5	0.0	2 ILOC	731120

Sta	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	0.23	236.3	Pg	07:04:14.137	0.0					T__				___		731121	FDSN	SK	--	BUD	BUD	HHZ	???	_	
MODS	0.23	236.3	Lg	07:04:17.682	-0.7					T__				___		731125	FDSN	SK	--	BUD	BUD	HHN	???	_	
JAVC	0.36	10.9	Pg	07:04:16.735	0.0					T__		160.4		___	ML	1.5	731122	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	_
JAVC	0.36	10.9	Lg	07:04:22.643	-0.2					T__				___		731126	FDSN	CZ	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									
ZST	0.44	225.4	Lg	07:04:24.388	-0.6					T__				___		731127	FDSN	SK	--	BUD	BUD	HHN	???	_	
KRUC	0.96	306.3	Pn	07:04:29.410	0.4					T__		32.7		___	ML	1.5	731128	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	_
KRUC	0.96	306.3	Lg	07:04:41.476	0.2					T__				___		731124	FDSN	CZ	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									
RONA	1.17	227.1	Pg	07:04:33.044	1.0					T__				___		731123	FDSN	OE	--	BUD	BUD	HHZ	???	_	
RONA	1.17	227.1	Sn	07:04:48.587	-0.8					T__				___		731129	FDSN	OE	--	BUD	BUD	HHN	???	_	
CONA	1.28	243.9	Sn	07:04:51.558	-0.6					T__				___		731130	FDSN	OE	--	BUD	BUD	HHN	???	_	
PSZI	1.66	109.7	I	07:15:26.620	63.4	293.6	2.1	335.80	-58.4	A_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023icve Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2023/04/26	09:15:41.61	1.49	0.94	46.0717	18.0431	14.8	6.0	30	0.0A	0.0	7	5	271	0.04	1.15	m	se BUD	731196	BUD				
2023/04/26	09:15:40.77	1.06	1.09	46.1142	18.1095	7.3	2.9	121	0.0f		9	6	145	0.03	2.18		se ILOC	731196	ILOC			265	

(#PRIME)  
 (Locality: Bükkösd Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.4	2	BUD	731196
MLv	1.4 0.4	2	BUD	731196
ML	1.3 0.5	2	ILOC	731196

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
KOVH	0.03	194.5	Pg	09:15:42.253	0.3					T__		2090.9		ML	1.7	731199	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
KOVH	0.03	194.5	Lg	09:15:42.625	-0.8					T__						731201	FDSN	HU	--	BUD	BUD	HHN	???	_
(Reading ML: 1.7 magdef=1)																								
(Station ML: 1.7 magdef=1)																								
MORH	0.38	74.6	Pg	09:15:49.311	0.4					T__		41.1		ML	1.0	731197	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MORH	0.38	74.6	Lg	09:15:54.847	-0.4					T__						731202	FDSN	HU	--	BUD	BUD	HHN	???	_
(Reading ML: 1.0 magdef=1)																								
(Station ML: 1.0 magdef=1)																								
A266A	0.43	14.6	Lg	09:15:56.735	0.1					T__						731203	FDSN	Z6	00	BUD	BUD	HHN	???	_
HU22A	0.74	72.9	Sn	09:16:08.985	-0.8					T__						731198	FDSN	Z6	00	BUD	BUD	HHN	???	_
MPLH	1.13	339.8	Lg	09:16:19.481	-0.6					T__						731200	FDSN	HU	--	BUD	BUD	HHN	???	_
PSZI	2.18	33.4	I	09:29:22.934	-2.3	215.9	1.2	322.80	-89.4	TA__						111111	FDSN	HU	--	BUD	BUD	???	???	_

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023icwa Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/04/26	09:41:04.98	0.67	0.62	46.3441	21.9000	8.3	4.1	120	0.0A	0.0	10	6	216	0.72	1.58	m	se BUD	731227	BUD			
2023/04/26	09:41:04.12	1.40	2.85	46.2794	21.9987	8.5	3.6	48	0.0F		14	8	111	0.71	6.52		se ILOC	731227	ILOC			165

(#PRIME)  
 (Locality: Şilindia Romania)

Magnitude	Err	Nsta	Author	OrigID
M	2.1	4	BUD	731227
MLv	2.1 0.3	4	BUD	731227
ML	2.1 0.3	4	ILOC	731227

Sta	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	0.71	43.6	Pg	09:41:18.608	0.2					T__		113.4		ML	1.9	731234	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DRGR	0.71	43.6	Lg	09:41:28.488	-1.4					T__						731235	FDSN	RO	--	BUD	BUD	HHN	???	_
(Reading ML: 1.9 magdef=1)																								
(Station ML: 1.9 magdef=1)																								
BZS	0.71	202.0	Pn	09:41:19.375	-1.0					T__		60.8		ML	1.7	731233	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
BZS	0.71	202.0	Sn	09:41:29.765	-3.4					T__						731232	FDSN	RO	--	BUD	BUD	HHN	???	_
(Reading ML: 1.7 magdef=1)																								
(Station ML: 1.7 magdef=1)																								
DEV	0.74	121.9	Sn	09:41:33.007	-0.8					T__						731237	FDSN	RO	--	BUD	BUD	HHE	???	_
GZR	1.04	148.2	Pn	09:41:25.720	0.4					T__		119.5		ML	2.2	731229	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
GZR	1.04	148.2	Sn	09:41:40.496	-1.1					T__						731228	FDSN	RO	--	BUD	BUD	HHN	???	_
(Reading ML: 2.2 magdef=1)																								
(Station ML: 2.2 magdef=1)																								
CJR	1.19	68.0	Sn	09:41:44.116	-1.1					T__						731236	FDSN	RO	--	BUD	BUD	HHN	???	_
LOT	1.49	123.3	Pg	09:41:33.257	0.8					T__		118.5		ML	2.4	731230	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
LOT	1.49	123.3	Lg	09:41:54.208	0.2					T__						731231	FDSN	RO	--	BUD	BUD	HHN	???	_
(Reading ML: 2.4 magdef=1)																								
(Station ML: 2.4 magdef=1)																								
PSZI	2.18	319.5	I	09:54:55.111	5.8	138.2	0.2	331.60	-80.6	TA__						111111	FDSN	HU	--	BUD	BUD	???	???	_
PVCI	6.52	313.4	I	10:19:47.879	-6.1	123.0	-4.9	343.30	38.4	TA__						222222	FDSN	C9	--	BUD	BUD	???	???	_

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023ient Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/04/27	07:47:06.78	0.35	0.38	46.0591	22.8349	5.4	3.3	92	0.0A	0.0	9	6	110	0.18	0.94	m	se BUD	731263	BUD			
2023/04/27	07:47:04.88	0.94	0.57	46.1087	22.8178	8.8	5.2	96	0.0f		10	7	92	0.23	2.70		se ILOC	731263	ILOC			140

(#PRIME)  
 (Locality: Kristyor Romania)

Magnitude	Err	Nsta	Author	OrigID
M	1.8	3	BUD	731263
MLv	1.8	0.1	3 BUD	731263
ML	1.9	0.3	3 ILOC	731263

Sta	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	0.23	165.2	Pg	07:47:09.751	0.4					T__		1270.6		_c	ML	2.1	731264	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DEV	0.23	165.2	Lg	07:47:12.349	-0.3					T__				___		731265	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.1 magdef=1)																									
(Station ML: 2.1 magdef=1)																									
DRGR	0.69	353.9	Pn	07:47:21.153	-0.7					T__		57.9		___	ML	1.6	731268	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DRGR	0.69	353.9	Lg	07:47:30.308	0.4					T__				___		731269	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
GZR	0.72	182.3	Pg	07:47:19.077	0.5					T__		94.0		___	ML	1.9	731267	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
GZR	0.72	182.3	Lg	07:47:27.849	-0.9					T__				___		731266	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
CJR	0.81	41.5	Lg	07:47:33.929	0.4					T__				___		731270	FDSN	RO	--	BUD	BUD	HHN	???	_	
LOT	0.94	134.4	Lg	07:47:36.161	-0.4					T__				___		731271	FDSN	RO	--	BUD	BUD	HHN	???	_	
BZS	0.97	240.0	Lg	07:47:37.754	0.2					T__				___		731272	FDSN	RO	--	BUD	BUD	HHN	???	_	
PSZI	2.70	313.2	I	08:05:08.736	64.3	131.2	0.1	320.00	-70.8	A_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023ieor Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/04/27	08:15:11.14	1.82	0.09	46.0012	17.9560	19.0	7.8	23	0.0A	0.0	5	3	280	0.13	1.20	m	se BUD	731291	BUD			
2023/04/27	08:15:11.05	1.05	1.03	46.0765	17.9820	6.4	4.8	125	0.0f		7	4	262	0.08	2.26		se ILOC	731291	ILOC			312

(#PRIME)  
 (Locality: Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.6	2	BUD	731291
MLv	1.6	0.5	2 BUD	731291
ML	1.5	0.5	2 ILOC	731291

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.08	81.8	Pg	08:15:13.903	0.5					T__		2063.3		___	ML	1.8	731294	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
KOVH	0.08	81.8	Lg	08:15:14.925	-0.6					T__				___		731295	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
MORH	0.48	73.0	Pg	08:15:21.249	0.2					T__		30.8		___	ML	1.1	731292	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MORH	0.48	73.0	Lg	08:15:27.615	-1.1					T__				___		731293	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.1 magdef=1)																									
(Station ML: 1.1 magdef=1)																									

MPLH 1.14 344.6 Sn 08:15:49.652 -0.3 T\_\_ 731296 FDSN HU -- BUD BUD HHN ??? \_  
 PSZI 2.26 34.7 I 08:29:28.176 1.5 217.9 1.8 312.70 -97.9 TA\_\_ 111111 FDSN HU -- BUD BUD ??? ??? \_

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023igfw 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
2023/04/28	06:03:24.89	0.30	0.43	48.3978	17.2573	4.7	2.9	100	0.0A	0.0	13	8	121	0.03	1.39	m	se BUD	731321	BUD			
2023/04/28	06:03:23.54	0.74	0.64	48.3949	17.3131	7.7	2.8	113	0.0f		14	9	110	0.03	1.79		se ILOC	731321	ILOC			188

(#PRIME)  
 (Locality: Solosnica Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.7	2	BUD	731321
MLv	1.7	0.1	2 BUD	731321
ML	1.7	0.1	2 ILOC	731321

Sta	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	0.03	228.2	Pg	06:03:25.432	0.6					T__						731322	FDSN	SK	--	BUD	BUD	HHZ	???	_	
MODS	0.03	228.2	Lg	06:03:25.683	-0.6					T__						731326	FDSN	SK	--	BUD	BUD	HHN	???	_	
ZST	0.24	215.3	Pg	06:03:28.882	-0.0					T__						731323	FDSN	SK	--	BUD	BUD	HHZ	???	_	
ZST	0.24	215.3	Lg	06:03:31.713	-1.5					T__						731327	FDSN	SK	--	BUD	BUD	HHN	???	_	
JAVC	0.52	26.9	Pg	06:03:34.428	-0.1					T__		105.6			ML	1.8	731324	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	_
JAVC	0.52	26.9	Lg	06:03:42.540	-0.4					T__						731328	FDSN	CZ	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1 (Station ML: 1.8 magdef=1)																									
KRUC	0.90	318.0	Pg	06:03:41.337	0.5					T__		42.3			ML	1.6	731325	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	_
KRUC	0.90	318.0	Lg	06:03:53.197	-1.0					T__						731329	FDSN	CZ	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.6 magdef=1 (Station ML: 1.6 magdef=1)																									
RONA	0.97	224.8	Pg	06:03:42.974	0.1					T__						731331	FDSN	OE	--	BUD	BUD	HHZ	???	_	
RONA	0.97	224.8	Lg	06:03:55.578	-0.0					T__						731330	FDSN	OE	--	BUD	BUD	HHN	???	_	
VRAC	1.03	332.8	Lg	06:03:58.200	-0.0					T__						731332	FDSN	CZ	--	BUD	BUD	HHN	???	_	
CONA	1.08	244.9	Lg	06:03:59.028	0.3					T__						731333	FDSN	OE	--	BUD	BUD	HHN	???	_	
MORC	1.39	6.1	Lg	06:04:08.770	-0.0					T__						731334	FDSN	CZ	--	BUD	BUD	HHN	???	_	
PSZI	1.79	104.5	I	06:13:29.680	-62.4	290.7	4.3	328.00	-75.0	A__						111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023iglu 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
2023/04/28	09:03:04.52	0.39	0.35	48.7375	18.7451	7.2	3.3	24	0.0A	0.0	11	9	137	0.72	1.34	m	se BUD	731360	BUD			
2023/04/28	09:03:03.04	0.97	1.00	48.6953	18.7196	5.0	3.3	23	0.0f		13	10	133	0.71	1.33		se ILOC	731360	ILOC			175

(#PRIME)  
 (Locality: Remata Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.7	5	BUD	731360
MLv	1.7	0.1	5 BUD	731360
ML	1.7	0.1	5 ILOC	731360

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
JAVC	0.71	283.7	Pg	09:03:18.306	0.6					T__		59.8			ML	1.7	731364	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	_
JAVC	0.71	283.7	Lg	09:03:28.015	-0.8					T__						731365	FDSN	CZ	--	BUD	BUD	HHN	???	_	

(Reading ML: 1.7 magdef=1)

(Station ML: 1.7 magdef=1  
 HU10A 0.87 166.7 Lg 09:03:33.701 -0.9 T\_\_  
 HU03A 0.99 143.1 Pg 09:03:24.485 1.1 T\_\_ 57.9 \_\_\_ ML 1.8 731363 FDSN Z6 00 BUD BUD HHN ??? \_  
 (Reading ML: 1.8 magdef=1  
 (Station ML: 1.8 magdef=0  
 MODS 1.01 252.0 Lg 09:03:38.108 -0.7 T\_\_ 731367 FDSN SK -- BUD BUD HHN ??? \_  
 PSZI 1.10 134.4 I 09:09:26.404 0.5 313.0 -2.2 334.80 -13.7 TA\_\_ 111111 FDSN HU -- BUD BUD ??? ??? \_  
 PSZ 1.10 134.3 Sn 09:03:40.702 -1.8 T\_\_ 731368 FDSN GE -- BUD BUD HHN ??? \_  
 ET1H 1.12 136.3 Pn 09:03:25.353 0.2 T\_\_ 22.0 \_\_\_ ML 1.5 731370 FDSN HU -- BUD BUD HHZ HHZ \_  
 ET1H 1.12 136.3 Sn 09:03:41.194 -1.3 T\_\_ 731369 FDSN HU -- BUD BUD HHN ??? \_  
 (Reading ML: 1.5 magdef=1  
 (Station ML: 1.5 magdef=0  
 JOS 1.22 98.7 Lg 09:03:43.477 -1.1 T\_\_ 731361 FDSN Z6 -- BUD BUD HHN ??? \_  
 MORC 1.33 325.0 Pn 09:03:28.270 -0.1 T\_\_ 29.4 \_\_\_ ML 1.7 731371 FDSN CZ -- BUD BUD HHZ HHZ \_  
 (Reading ML: 1.7 magdef=1  
 (Station ML: 1.7 magdef=1  
 HU02A 1.33 114.8 Pg 09:03:30.361 0.2 T\_\_ 23.8 \_\_\_ ML 1.6 731362 FDSN Z6 00 BUD BUD HHZ HHZ \_  
 (Reading ML: 1.6 magdef=1  
 (Station ML: 1.6 magdef=1

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023irkh Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/05/04	08:48:20.94	0.35	0.55	46.0010	22.8703	4.8	3.5	94	0.0A	0.0	10	6	105	0.12	0.94	m	se BUD	731427	BUD			
2023/05/04	08:48:19.70	1.15	0.59	46.0254	22.8602	6.6	6.1	117	0.0F		11	7	95	0.15	2.78		se ILOC	731427	ILOC			139

(#PRIME)  
 (Locality: Baita Romania)

Magnitude	Err	Nsta	Author	OrigID
M	1.6	3	BUD	731427
MLv	1.6 0.1	3	BUD	731427
ML	1.7 0.2	4	ILOC	731427

Sta	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	0.15	168.0	Pg	08:48:22.301	-0.2					T__		741.2		___	ML	1.6	731428	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DEV	0.15	168.0	Lg	08:48:24.657	0.1					T__				___		731432	FDSN	RO	--	BUD	BUD	HHN	???	_	
	(Reading ML: 1.6 magdef=1 (Station ML: 1.6 magdef=1																								
GZR	0.63	185.3	Pg	08:48:31.616	-0.3					T__		84.1		___	ML	1.8	731429	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
GZR	0.63	185.3	Lg	08:48:40.767	-0.2					T__				___		731430	FDSN	RO	--	BUD	BUD	HHN	???	_	
	(Reading ML: 1.8 magdef=1 (Station ML: 1.8 magdef=1																								
DRGR	0.77	352.4	Lg	08:48:46.667	-0.6					T__				___		731433	FDSN	RO	--	BUD	BUD	HHN	???	_	
CJR	0.86	36.3	Lg	08:48:49.247	-0.7					T__				___		731435	FDSN	RO	--	BUD	BUD	HHN	???	_	
LOT	0.86	131.9	Pg	08:48:37.260	1.1					T__		170.3		___	ML	2.2	731431	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
LOT	0.86	131.9	Lg	08:48:48.273	-0.5					T__				___		731434	FDSN	RO	--	BUD	BUD	HHN	???	_	
	(Reading ML: 2.2 magdef=1 (Station ML: 2.2 magdef=1																								
BZS	0.96	245.3	Pg	08:48:39.068	0.6					T__		35.4		___	ML	1.6	731437	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
BZS	0.96	245.3	Lg	08:48:51.780	-0.2					T__				___		731436	FDSN	RO	--	BUD	BUD	HHN	???	_	
	(Reading ML: 1.6 magdef=1 (Station ML: 1.6 magdef=1																								
PSZI	2.78	314.1	I	09:04:43.187	-65.0	130.4	-1.5	332.10	-54.6	_A_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions



Event bud2023ivhw Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/05/06	12:07:21.95	0.71	0.59	46.8216	22.4741	8.4	4.5	120	0.0A	0.0	7	5	192	0.17	1.64	m	se BUD	731460	BUD			
2023/05/06	12:07:21.27	1.45	1.79	46.8945	22.6317	10.6	4.4	32	0.0f		9	6	114	0.12	2.12		se ILOC	731460	ILOC			211

(#PRIME)

(Locality: Tomnatic Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.5	2	BUD	731460
MLv	1.5	0.3	2 BUD	731460
ML	1.5	0.4	2 ILOC	731460

Sta	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	0.12	152.1	Pg	12:07:23.890	-0.1					T__		361.1			ML	1.2	731461	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DRGR	0.12	152.1	Lg	12:07:27.123	0.8					T__						731465	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.2 magdef=1)																									
(Station ML: 1.2 magdef=1)																									
BMR	0.98	36.7	Sn	12:07:57.855	0.4					T__						731464	FDSN	RO	--	BUD	BUD	HHN	???	_	
BZS	1.46	209.2	Sn	12:08:04.386	-4.1					T__						731466	FDSN	RO	--	BUD	BUD	HHN	???	_	
GZR	1.50	176.1	Pn	12:07:48.438	-0.6					T__		28.1			ML	1.8	731463	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
GZR	1.50	176.1	Sn	12:08:09.369	-0.7					T__						731462	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
LOT	1.65	150.9	Lg	12:08:15.639	-0.7					T__						731467	FDSN	RO	--	BUD	BUD	HHN	???	_	
PSZI	2.12	299.8	I	12:20:44.793	0.8	116.9	-0.9	342.80	-69.9	TA__						111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP

BEGIN IMS2.0

DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023jjazc Austria

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2023/05/09	14:30:10.97	0.27	0.49	47.4601	16.2701	3.8	3.0	95	0.0A	0.0	16	9	81	0.24	1.61	m	se BUD	731499	BUD				
2023/05/09	14:30:10.16	0.88	2.37	47.4733	16.3546	3.4	3.2	23	0.0f		18	10	75	0.23	2.43		se ILOC	731499	ILOC				139

(#PRIME)

(Locality: Burgruine-Landsee Austria)

Magnitude	Err	Nsta	Author	OrigID
M	1.7	6	BUD	731499
MLv	1.7	0.2	6 BUD	731499
ML	1.6	0.1	6 ILOC	731499

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
RONA	0.23	350.1	Pg	14:30:15.073	-0.0					T__						731501	FDSN	OE	--	BUD	BUD	HHZ	???	_	
RONA	0.23	350.1	Lg	14:30:18.234	-0.3					T__						731509	FDSN	OE	--	BUD	BUD	HHN	???	_	
SOP	0.25	33.2	Pg	14:30:15.912	0.4					T__		185.3			ML	1.3	731502	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
SOP	0.25	33.2	Lg	14:30:19.987	0.6					T__						731510	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=0)																									
A260A	0.30	128.4	Pg	14:30:16.737	0.1					T__		517.6			ML	1.9	731512	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
A260A	0.30	128.4	Lg	14:30:21.228	-0.1					T__						731511	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=0)																									
CONA	0.56	324.0	Pg	14:30:21.947	0.5					T__		58.0			ML	1.6	731500	FDSN	OE	--	BUD	BUD	HHZ	HHZ	_
CONA	0.56	324.0	Lg	14:30:28.447	-0.5					T__						731505	FDSN	OE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
ARSA	0.61	248.8	Pg	14:30:21.609	-0.3					T__		50.3			ML	1.5	731503	FDSN	OE	--	BUD	BUD	HHZ	HHZ	_

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ARSA 0.61 248.8 Lg 14:30:28.228 -1.4 T__ 731506 FDSN OE -- BUD BUD HHN ??? _
(Reading ML: 1.5 magdef=1
(Station ML: 1.5 magdef=1
MPLH 0.86 110.2 Pg 14:30:28.240 0.7 T__ 55.2 ___ ML 1.7 731513 FDSN HU -- BUD BUD HHZ HHZ _
(Reading ML: 1.7 magdef=1
(Station ML: 1.7 magdef=1
KOGS 1.03 184.0 Pg 14:30:30.833 0.5 T__ 59.9 ___ ML 1.8 731515 FDSN SL -- BUD BUD BHZ BHZ _
KOGS 1.03 184.0 Lg 14:30:43.906 0.4 T__ ___ 731514 FDSN SL -- BUD BUD BHN ??? _
(Reading ML: 1.8 magdef=1
(Station ML: 1.8 magdef=1
MODS 1.09 34.2 Pn 14:30:32.464 0.3 T__ 731507 FDSN SK -- BUD BUD HHZ ??? _
MODS 1.09 34.2 Sn 14:30:48.770 0.3 T__ 731504 FDSN SK -- BUD BUD HHN ??? _
KRUC 1.59 1.0 Sn 14:31:00.834 0.6 T__ 731508 FDSN CZ -- BUD BUD HHN ??? _
PSZI 2.43 78.2 I 14:45:22.081 -8.9 261.3 0.5 329.00 -75.4 TA_ ___ 111111 FDSN HU -- BUD BUD ??? ??? _

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023jazi Hungary

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Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2023/05/09 14:37:26.11 0.31 0.92 47.9060 20.1144 5.0 2.7 154 0.0A 0.0 14 8 108 0.15 0.85 m se BUD 731553 BUD
2023/05/09 14:37:23.97 0.90 0.87 47.8766 20.1437 3.1 0.9 105 0.0f 16 9 107 0.17 0.85 se ILOC 731553 ILOC 211
(#PRIME)
(Locality: Kismána Hungary)

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Magnitude Err Nsta Author OrigID
M 1.4 6 BUD 731553
MLv 1.4 0.1 6 BUD 731553
ML 1.5 0.1 6 ILOC 731553

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Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude ArrID Agy Deploy Ln Auth Rep PCh ACh L
PSZ 0.17 284.1 Pg 14:37:28.265 0.0 T__ 579.2 ___ ML 1.5 731554 FDSN GE -- BUD BUD HHZ HHZ _
PSZ 0.17 284.1 Lg 14:37:31.296 -0.5 T__ ___ 731560 FDSN GE -- BUD BUD HHN ??? _
(Reading ML: 1.5 magdef=1
(Station ML: 1.5 magdef=1
PSZI 0.17 283.9 I 14:38:22.048 2.3 104.4 0.7 348.10 10.5 TA_ ___ 111111 FDSN HU -- BUD BUD ??? ??? _
ET1H 0.18 270.9 Pg 14:37:28.301 -0.0 T__ 527.8 ___ ML 1.5 731555 FDSN HU -- BUD BUD HHZ HHZ _
ET1H 0.18 270.9 Lg 14:37:31.259 -0.4 T__ ___ 731561 FDSN HU -- BUD BUD HHN ??? _
(Reading ML: 1.5 magdef=1
(Station ML: 1.5 magdef=1
HU23A 0.25 163.2 Lg 14:37:35.767 1.7 T__ 134.7 ___ ML 1.4 731562 FDSN Z6 00 BUD BUD HHN ??? _
HU02A 0.35 46.0 Pg 14:37:31.369 -0.4 T__ 134.7 ___ ML 1.4 731557 FDSN Z6 00 BUD BUD HHZ HHZ _
HU02A 0.35 46.0 Lg 14:37:37.175 -0.7 T__ ___ 731564 FDSN Z6 00 BUD BUD HHN ??? _
(Reading ML: 1.4 magdef=1
(Station ML: 1.4 magdef=1
HU03A 0.37 274.5 Pg 14:37:32.136 0.2 T__ 102.7 ___ ML 1.3 731556 FDSN Z6 00 BUD BUD HHZ HHZ _
HU03A 0.37 274.5 Lg 14:37:37.577 -0.2 T__ ___ 731563 FDSN Z6 00 BUD BUD HHN ??? _
(Reading ML: 1.3 magdef=1
(Station ML: 1.3 magdef=1
KECS 0.65 20.5 Lg 14:37:47.369 0.4 T__ 28.3 ___ ML 1.3 731565 FDSN SK -- BUD BUD EHN ??? _
JOS 0.67 23.0 Pg 14:37:37.358 -0.1 T__ 28.3 ___ ML 1.3 731558 FDSN Z6 -- BUD BUD HHZ HHZ _
JOS 0.67 23.0 Lg 14:37:47.912 0.1 T__ ___ 731566 FDSN Z6 -- BUD BUD HHN ??? _
(Reading ML: 1.3 magdef=1
(Station ML: 1.3 magdef=0
ABAH 0.85 59.9 Pn 14:37:42.105 0.3 T__ 39.4 ___ ML 1.6 731559 FDSN HU -- BUD BUD HHZ HHZ _
ABAH 0.85 59.9 Lg 14:37:53.974 -0.6 T__ ___ 731567 FDSN HU -- BUD BUD HHN ??? _
(Reading ML: 1.6 magdef=1
(Station ML: 1.6 magdef=0

```

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023jedm Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/05/11	08:07:46.32	1.80	0.05	45.9791	17.9559	18.3	8.1	23	0.0A	0.0	5	3	283	0.15	1.23	m	se BUD	731592	BUD			
2023/05/11	08:07:47.81	1.69	0.41	46.1112	18.0655	10.3	4.2	118	0.0f		7	4	207	0.03	2.20		se ILOC	731592	ILOC			265

(#PRIME)  
 (Locality: Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.5	2	BUD	731592
MLv	1.5	0.3	2 BUD	731592
ML	1.2	0.3	2 ILOC	731592

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOVH	0.03	133.7	Pg	08:07:49.247	0.0					T__		1156.4		___	ML	1.5	731593	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
KOVH	0.03	133.7	Lg	08:07:50.572	-0.1					T__				___			731596	FDSN	HU	--	BUD	BUD	HNN	???	_
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									
MORH	0.41	75.3	Pg	08:07:56.678	0.1					T__		34.8		___	ML	1.0	731594	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MORH	0.41	75.3	Lg	08:08:03.177	-0.2					T__				___			731597	FDSN	HU	--	BUD	BUD	HNN	???	_
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=1)																									
MPLH	1.12	341.3	Sn	08:08:25.507	-0.8					T__				___			731595	FDSN	HU	--	BUD	BUD	HNN	???	_
PSZI	2.20	34.0	I	08:21:39.683	-0.1	216.2	0.8	320.20	-91.7	TA_				___			111111	FDSN	HU	--	BUD	BUD	???	???	_

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023jgdw Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/05/12	10:35:56.99	0.82	0.33	47.8644	20.1905	13.6	3.1	159	0.0A	0.0	10	6	215	0.21	0.83	m	se BUD	731621	BUD			
2023/05/12	10:35:55.73	0.58	1.30	47.8930	20.1780	3.3	0.8	98	0.0f		12	7	206	0.19	0.82		se ILOC	731621	ILOC			220

(#PRIME)  
 (Locality: Kisnána Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.6	4	BUD	731621
MLv	1.6	0.2	4 BUD	731621
ML	1.5	0.2	4 ILOC	731621

Sta	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	0.19	277.7	Pg	10:36:00.553	0.1					T__		757.0		___	ML	1.7	731623	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.19	277.7	Lg	10:36:03.491	-0.7					T__				___			731627	FDSN	GE	--	BUD	BUD	HNN	???	_
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
PSZI	0.19	277.5	I	10:36:54.837	-3.0	101.7	4.4	344.70	7.6	TA_				___			111111	FDSN	HU	--	BUD	BUD	???	???	_
ET1H	0.21	266.2	Pg	10:36:00.723	0.2					T__		635.4		___	ML	1.7	731622	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ET1H	0.21	266.2	Lg	10:36:03.662	-0.6					T__				___			731628	FDSN	HU	--	BUD	BUD	HNN	???	_
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
HU02A	0.33	45.3	Pg	10:36:03.832	0.9					T__		132.6		___	ML	1.3	731625	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.33	45.3	Lg	10:36:07.324	-1.3					T__				___			731626	FDSN	Z6	00	BUD	BUD	HNN	???	_
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=1)																									
HU03A	0.39	271.8	Pg	10:36:04.769	0.6					T__		109.0		___	ML	1.4	731624	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_

HU03A 0.39 271.8 Lg 10:36:09.666 -0.7 T\_\_ 731629 FDSN Z6 00 BUD BUD HHN ??? \_  
 (Reading ML: 1.4 magdef=1  
 (Station ML: 1.4 magdef=1  
 JOS 0.65 21.7 Lg 10:36:18.363 -0.4 T\_\_ 731630 FDSN Z6 -- BUD BUD HHN ??? \_  
 ABAH 0.82 60.1 Lg 10:36:24.031 -1.4 T\_\_ 731631 FDSN HU -- BUD BUD HHN ??? \_

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023j1ku 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
2023/05/15	07:45:49.63	0.52	0.43	47.9886	19.6632	6.9	3.7	126	0.0A	0.0	12	7	200	0.10	1.10	m	se BUD	731663	BUD			
2023/05/15	07:45:47.99	0.67	1.88	48.0044	19.6569	4.7	0.7	118	0.0f		15	9	108	0.11	4.18	se	ILOC	731663	ILOC			207

(#PRIME)  
 (Locality: Nagylóc Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.6	6	BUD	731663
MLv	1.6	0.1	6 BUD	731663
ML	1.6	0.1	6 ILOC	731663

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
HU03A	0.11	200.9	Pg	07:45:51.199	0.5					T__		1290.9		ML	1.7	731666	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU03A	0.11	200.9	Lg	07:45:52.696	-0.2					T__						731671	FDSN	Z6	00	BUD	BUD	HHN	???	_
PSZI	0.18	118.5	I	07:46:52.297	6.1	299.9	1.2	336.50	-0.9	TA_					111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	0.18	118.2	Pg	07:45:52.860	0.4					T__		619.3		ML	1.6	731664	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.18	118.2	Lg	07:45:54.503	-1.5					T__						731675	FDSN	GE	--	BUD	BUD	HHN	???	_
ET1H	0.19	130.9	Pg	07:45:52.860	0.4					T__		231.5		ML	1.2	731665	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ET1H	0.19	130.9	Lg	07:45:55.161	-0.8					T__						731672	FDSN	HU	--	BUD	BUD	HHN	???	_
HU02A	0.59	78.2	Pg	07:46:00.693	0.2					T__		47.6		ML	1.5	731667	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.59	78.2	Lg	07:46:08.691	-1.3					T__						731669	FDSN	Z6	00	BUD	BUD	HHN	???	_
KECS	0.73	48.8	Lg	07:46:13.511	-0.3					T__						731670	FDSN	SK	--	BUD	BUD	EHN	???	_
JOS	0.77	49.9	Pn	07:46:04.804	-0.1					T__		38.5		ML	1.5	731674	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	_
JOS	0.77	49.9	Lg	07:46:15.029	0.1					T__						731673	FDSN	Z6	--	BUD	BUD	HHN	???	_
ABAH	1.10	74.0	Pg	07:46:09.531	-0.1					T__		41.7		ML	1.7	731668	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
PVCI	4.18	309.1	I	08:13:17.959	70.1	119.8	-5.4	153.20	-229.0	_A_						222222	FDSN	C9	--	BUD	BUD	???	???	_

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023j1mk 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	
2023/05/15	08:34:54.23	0.77	0.97	48.4924	17.5835	10.9	3.7	118	0.0A	0.0	8	6	218	0.24	1.28	m	se BUD	731702	BUD				
2023/05/15	08:34:53.08	1.07	0.65	48.5397	17.4358	32.5	3.1	119	0.0f		10	8	102	0.20	2.73	se	ILOC	731702	ILOC				186

(#PRIME)

(Locality: Boleraz Slovakia)

Magnitude Err Nsta Author OrigID  
M 1.5 1 BUD 731702  
MLv 1.5 0.0 1 BUD 731702

Sta	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	0.20	212.4	Pg	08:34:57.312	-0.3					T						731703	FDSN	SK	--	BUD	BUD	HHZ	???	-
MODS	0.20	212.4	Lg	08:35:00.817	-0.5					T						731704	FDSN	SK	--	BUD	BUD	HHN	???	-
JAVC	0.36	25.9	Pg	08:35:00.654	-0.1					T		136.8			ML 1.4	731707	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	-
JAVC	0.36	25.9	Lg	08:35:06.862	0.1					T						731706	FDSN	CZ	--	BUD	BUD	HHN	???	-
(Reading ML: 1.4 magdef=1 Station ML: 1.4 magdef=0)																								
ZST	0.41	213.0	Lg	08:35:09.699	1.4					T						731705	FDSN	SK	--	BUD	BUD	HHN	???	-
KRUC	0.86	307.6	Sn	08:35:25.552	-0.7					T						731708	FDSN	CZ	--	BUD	BUD	HHN	???	-
RONA	1.14	222.7	Sn	08:35:32.474	-0.2					T						731709	FDSN	OE	--	BUD	BUD	HHN	???	-
CONA	1.22	240.4	Sn	08:35:35.054	0.2					T						731710	FDSN	OE	--	BUD	BUD	HHN	???	-
PSZI	1.76	109.8	I	08:46:17.013	30.1	296.0	4.3	320.50	-80.3	A						111111	FDSN	HU	--	BUD	BUD	???	???	-
PVCI	2.73	317.9	I	08:48:31.740	-999	135.5	-0.3	326.40	-62.7	A						222222	FDSN	C9	--	BUD	BUD	???	???	-

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023jlnk Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/05/15	09:04:53.12	0.35	0.63	47.5404	18.4773	4.3	3.4	135	0.0A	0.0	9	8	105	0.12	1.33	m	kx BUD	731728	BUD			
2023/05/15	09:04:50.47			47.5600	18.4573				0.0								kx BUD_GT	1	BUD			
2023/05/15	09:04:50.47	0.65	2.27	47.5429	18.5172	3.2	3.1	124	0.0f		11	9	106	0.13	1.33		kx ILOC	731728	ILOC			154

(#PRIME)  
(Locality: Tatabánya Hungary)  
(GT info : GT2 explosion)

Magnitude Err Nsta Author OrigID  
M 1.8 1 BUD 731728  
MLv 1.8 0.0 1 BUD 731728

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
HU09A	0.13	316.4	Pg	09:04:54.175	0.5					T		1620.8			ML 1.9	731729	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	-
HU09A	0.13	316.4	Lg	09:04:56.402	-0.2					T						731730	FDSN	Z6	00	BUD	BUD	HHN	???	-
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=0)																								
CSKK	0.25	224.2	Lg	09:05:00.732	-0.1					T						731731	FDSN	HU	--	BUD	BUD	HHN	???	-
SRO	0.30	333.1	Lg	09:05:02.948	0.4					T						731732	FDSN	SK	--	BUD	BUD	EHN	???	-
HU08A	0.42	254.7	Lg	09:05:04.717	-1.6					T						731733	FDSN	Z6	00	BUD	BUD	HHN	???	-
MPLH	0.76	241.1	Lg	09:05:17.217	-0.1					T						731734	FDSN	HU	--	BUD	BUD	HHN	???	-
ET1H	0.97	69.3	Lg	09:05:25.613	0.2					T						731735	FDSN	HU	--	BUD	BUD	HHN	???	-
PSZI	1.00	67.5	I	09:10:27.251	-6.1	253.9	5.4	320.10	-22.1	TA						111111	FDSN	HU	--	BUD	BUD	???	???	-
PSZ	1.00	67.5	Lg	09:05:26.461	-0.3					T						731736	FDSN	GE	--	BUD	BUD	HHN	???	-
MORH	1.33	176.2	Sn	09:05:35.111	0.6					T						731737	FDSN	HU	--	BUD	BUD	HHN	???	-

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023jsql Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/05/19	06:34:51.25	1.12	0.45	47.9564	20.4185	16.6	3.6	135	0.0A	0.0	8	5	235	0.18	0.55	m	ke BUD	731756	BUD			
2023/05/19	06:34:50.07			47.9760	20.3693				0.0								kx BUD_GT	1	BUD			

2023/05/19 06:34:50.07 0.98 0.81 47.9762 20.3786 3.3 1.7 87 0.0f 10 6 220 0.18 0.53 ke ILOC 731756 ILOC 242  
 (#PRIME)  
 (Locality: Eger-III Hungary)  
 (GT info : GT2 explosion)

Magnitude Err Nsta Author OrigID  
 M 1.1 3 BUD 731756  
 MLv 1.1 0.1 3 BUD 731756  
 ML 1.0 0.0 3 ILOC 731756

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU02A	0.18	33.9	Pg	06:34:54.668	0.4					T__		156.9			ML	1.0	731757	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.18	33.9	Lg	06:34:57.188	-0.6					T__						731758	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=1)																									
PSZ	0.33	260.1	Pg	06:34:57.891	0.3					T__		65.3			ML	1.0	731759	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.33	260.1	Lg	06:35:02.474	-0.8					T__						731760	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=1)																									
PSZI	0.33	260.0	I	06:36:36.303	-0.9	77.7	-2.0	345.50	11.3	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_	
ET1H	0.35	254.3	Pg	06:34:58.539	0.7					T__		53.2			ML	1.0	731761	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ET1H	0.35	254.3	Lg	06:35:03.040	-0.6					T__						731762	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=1)																									
KECS	0.51	8.0	Lg	06:35:08.447	0.1					T__						731763	FDSN	SK	--	BUD	BUD	EHN	???	_	
JOS	0.53	11.6	Lg	06:35:07.634	-1.4					T__						731764	FDSN	Z6	--	BUD	BUD	HHN	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023jsxe Austria

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/05/19	09:58:27.62	0.36	0.59	47.8940	16.0137	4.3	4.3	49	0.0A	0.0	8	5	83	0.11	1.20	m	se BUD	731786	BUD			
2023/05/19	09:58:26.71	0.95	0.52	47.9263	16.0547	5.0	4.1	21	0.0f		9	6	100	0.13	2.58	se	ILOC	731786	ILOC			162

(#PRIME)  
 (Locality: Durnbachtal Austria)

Magnitude Err Nsta Author OrigID  
 M 1.2 2 BUD 731786  
 MLv 1.2 0.5 2 BUD 731786  
 ML 1.2 0.4 2 ILOC 731786

Sta	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	0.13	270.9	Pg	09:58:29.908	0.4					T__		181.6			_c	ML	0.9	731787	FDSN	OE	--	BUD	BUD	HHZ	HHZ	_
CONA	0.13	270.9	Lg	09:58:31.259	-0.3					T__						731792	FDSN	OE	--	BUD	BUD	HHN	???	_		
(Reading ML: 0.9 magdef=1)																										
(Station ML: 0.9 magdef=1)																										
RONA	0.28	144.2	Pg	09:58:32.921	0.4					T__						731788	FDSN	OE	--	BUD	BUD	HHZ	???	_		
RONA	0.28	144.2	Lg	09:58:36.025	-0.5					T__						731793	FDSN	OE	--	BUD	BUD	HHN	???	_		
ARSA	0.77	208.2	Lg	09:58:50.505	-0.7					T__						731789	FDSN	OE	--	BUD	BUD	HHN	???	_		
MODS	0.93	60.9	Lg	09:58:59.942	-0.1					T__						731794	FDSN	SK	--	BUD	BUD	HHN	???	_		
KRUC	1.16	11.1	Pg	09:58:49.080	0.1					T__		22.2			ML	1.5	731791	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	_	
KRUC	1.16	11.1	Lg	09:59:05.368	-0.7					T__						731790	FDSN	CZ	--	BUD	BUD	HHN	???	_		
(Reading ML: 1.5 magdef=1)																										
(Station ML: 1.5 magdef=1)																										
PSZI	2.58	88.8	I	10:17:36.378	172.9	277.1	5.5	323.00	-74.0	A_						111111	FDSN	HU	--	BUD	BUD	???	???	_		

STOP  
 BEGIN IMS2.0

DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023kage 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
2023/05/23	10:28:04.50	0.52	0.35	48.3230	19.8654	6.6	3.1	121	0.0A	0.0	12	8	171	0.41	1.14	m	se BUD	731820	BUD			
2023/05/23	10:28:03.29	0.52	0.92	48.2929	19.8850	3.2	1.5	173	0.0f		14	9	167	0.37	1.16		se ILOC	731820	ILOC			218

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

Magnitude	Err	Nsta	Author	OrigID	
M	1.7	4	BUD	731820	
MLv	1.7	0.1	4	BUD	731820
ML	1.7	0.1	4	ILOC	731820

Sta	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	0.37	179.0	Pg	10:28:11.987	0.4					T__		189.4		___	ML	1.6	731821	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.37	179.0	Lg	10:28:17.290	-0.6					T__				___		731825	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																									
PSZI	0.38	179.1	I	10:30:03.644	-1.2	358.8	-0.3	350.90	17.4	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
ET1H	0.41	181.3	Lg	10:28:18.482	-0.3					T__				___		731826	FDSN	HU	--	BUD	BUD	HHN	???	_	
HU03A	0.43	206.3	Lg	10:28:19.202	-0.1					T__				___		731828	FDSN	Z6	00	BUD	BUD	HHN	???	_	
KECS	0.44	64.3	Pg	10:28:13.392	1.1					T__		178.6		___	ML	1.8	731823	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
KECS	0.44	64.3	Lg	10:28:18.691	-0.5					T__				___		731827	FDSN	SK	--	BUD	BUD	EHN	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
HU02A	0.46	111.5	Pg	10:28:13.850	0.7					T__		88.4		___	ML	1.5	731822	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.46	111.5	Lg	10:28:19.117	-1.5					T__				___		731830	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=1)																									
JOS	0.48	64.8	Pg	10:28:13.328	0.3					T__		112.3		___	ML	1.7	731824	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	_
JOS	0.48	64.8	Lg	10:28:19.628	-0.8					T__				___		731829	FDSN	Z6	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
ABAH	0.90	89.3	Lg	10:28:34.787	-0.6					T__				___		731831	FDSN	HU	--	BUD	BUD	HHN	???	_	
NIE	1.16	13.5	Lg	10:28:40.834	-1.3					T__				___		731832	FDSN	PL	--	BUD	BUD	BHN	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023kbwy Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp			
2023/05/24	08:04:52.36	0.66	0.42	47.8838	20.1465	11.1	2.7	156	0.0A	0.0	12	8	207	0.17	0.84	m	kx BUD	731862	BUD						
2023/05/24	08:04:50.36			47.8987	20.0893				0.0								kx BUD_GT	1	BUD						
2023/05/24	08:04:50.36	0.58	0.87	47.8749	20.1498	4.1	0.7	105	0.0f		14	10	208	0.18	4.52		kx ILOC	731862	ILOC					222	

(#PRIME)  
(Locality: Recsk Hungary)  
(GT info : GT2 explosion)

Magnitude	Err	Nsta	Author	OrigID	
M	2.0	4	BUD	731862	
MLv	2.0	0.2	4	BUD	731862
ML	2.1	0.1	4	ILOC	731862

Sta	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	284.3	Pg	08:04:55.283	0.5					T__		2410.4		___	ML	2.2	731863	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.18	284.3	Lg	08:04:57.540	-0.8					T__				___		731864	FDSN	GE	--	BUD	BUD	HHN	???	_	

(Reading ML: 2.2 magdef=1)

```

(Station ML: 2.2 magdef=1
PSZI 0.18 284.1 I 08:03:26.529 -999 99.0 -4.9 329.10 -8.4 A_
ET1H 0.19 271.4 Pg 08:04:55.518 0.7 T_ 1492.8 ML 2.0 731865 FDSN HU -- BUD BUD ??? ??? _
ET1H 0.19 271.4 Lg 08:04:57.679 -0.5 T_ 731867 FDSN HU -- BUD BUD HHN ??? _
(Reading ML: 2.0 magdef=1
(Station ML: 2.0 magdef=1
HU02A 0.35 45.4 Pg 08:04:59.265 1.2 T_ 341.3 ML 1.8 731866 FDSN Z6 00 BUD BUD HHZ HHZ _
HU02A 0.35 45.4 Lg 08:05:03.630 -0.5 T_ 731868 FDSN Z6 00 BUD BUD HHN ??? _
(Reading ML: 1.8 magdef=1
(Station ML: 1.8 magdef=1
HU03A 0.37 274.7 Lg 08:05:03.986 -0.4 T_ 731869 FDSN Z6 00 BUD BUD HHN ??? _
KECS 0.65 20.1 Lg 08:05:12.032 -1.3 T_ 731870 FDSN SK -- BUD BUD EHN ??? _
JOS 0.67 22.6 Lg 08:05:14.186 0.0 T_ 731871 FDSN Z6 -- BUD BUD HHN ??? _
HU10A 0.76 268.2 Pn 08:05:06.982 -0.2 T_ 161.7 ML 2.1 731873 FDSN Z6 00 BUD BUD HHZ HHZ _
HU10A 0.76 268.2 Lg 08:05:17.372 -0.9 T_ 731872 FDSN Z6 00 BUD BUD HHN ??? _
(Reading ML: 2.1 magdef=1
(Station ML: 2.1 magdef=1
ABAH 0.84 59.6 Lg 08:05:19.373 -1.5 T_ 731874 FDSN HU -- BUD BUD HHN ??? _
PVCI 4.52 308.1 I 08:40:06.711 401.7 125.6 1.7 334.10 -56.4 A_ 222222 FDSN C9 -- BUD BUD ??? ??? _

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023kcaa Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/05/24	09:38:04.03	0.54	0.67	46.8048	17.2554	6.6	3.8	64	0.0A	0.0	10	6	194	0.15	1.13	m	kx BUD	731902	BUD			
2023/05/24	09:38:03.17			46.8902	17.3220				0.0								kx BUD_GT	1	BUD			
2023/05/24	09:38:03.17	0.60	1.23	46.8399	17.3132	3.9	3.8	37	0.0f		12	7	171	0.11	2.06		kx ILOC	731902	ILOC			241

(#PRIME)  
(Locality: Uzsa Hungary)  
(GT info : GT2 explosion)

Magnitude	Err	Nsta	Author	OrigID
M	2.1	4	BUD	731902
MLv	2.1	0.4	4 BUD	731902
ML	1.9	0.3	4 ILOC	731902

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
BADH	0.11	107.5	Pg	09:38:06.983	0.9					T_		1587.0		ML	1.8	731904	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
BADH	0.11	107.5	Lg	09:38:08.303	-0.3					T_						731909	FDSN	HU	--	BUD	BUD	HHN	???	_
A261A	0.16	314.9	Pg	09:38:07.494	0.5					T_		5617.2		ML	2.5	731903	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
A261A	0.16	314.9	Lg	09:38:10.262	0.2					T_						731911	FDSN	Z6	00	BUD	BUD	HHN	???	_
MPLH	0.36	25.0	Pg	09:38:10.262	-0.8					T_		536.2		ML	2.0	731905	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MPLH	0.36	25.0	Lg	09:38:17.374	0.2					T_						731912	FDSN	HU	--	BUD	BUD	HHN	???	_
HU08A	0.72	34.9	Lg	09:38:29.467	-0.2					T_						731906	FDSN	Z6	00	BUD	BUD	HHN	???	_
KOVH	0.93	143.8	Pn	09:38:22.313	0.0					T_		38.8		ML	1.6	731908	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
KOVH	0.93	143.8	Lg	09:38:33.896	-0.8					T_						731907	FDSN	HU	--	BUD	BUD	HHN	???	_
HU09A	1.08	42.0	Sn	09:38:40.441	-0.6					T_						731910	FDSN	Z6	00	BUD	BUD	HHN	???	_
PSZI	2.06	57.5	I	09:51:03.741	3.3	241.2	1.8	333.20	-79.4	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_

STOP



BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023kfk Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/05/26	06:21:47.41	1.71	0.36	46.9340	22.8378	17.7	9.0	172	0.0A	0.0	6	4	303	0.17	1.62	m	se BUD	731960	BUD			
2023/05/26	06:21:48.26	2.06	0.41	46.8453	22.8351	10.7	4.7	31	0.0f		8	5	215	0.10	2.27		se ILOC	731960	ILOC			276

(#PRIME)  
(Locality: Poieni Romania)

Magnitude	Err	Nsta	Author	OrigID
M	1.9	2	BUD	731960
MLv	1.9	0.6	2 BUD	731960
ML	1.8	0.7	2 ILOC	731960

Sta	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	0.10	237.8	Pg	06:21:50.716	0.0					T__		555.1		___	ML	1.3	731961	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DRGR	0.10	237.8	Lg	06:21:52.684	-0.1					T__				___		731964	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=1)																									
GZR	1.45	181.6	Sn	06:22:36.068	0.2					T__				___		731962	FDSN	RO	--	BUD	BUD	HHN	???	_	
BZS	1.49	215.0	Sn	06:22:35.642	-0.6					T__				___		731963	FDSN	RO	--	BUD	BUD	HHN	???	_	
LOT	1.54	154.7	Pn	06:22:16.871	0.1					T__	87.2			___	ML	2.3	731966	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
LOT	1.54	154.7	Sn	06:22:37.907	-0.6					T__				___		731965	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.3 magdef=1)																									
(Station ML: 2.3 magdef=1)																									
PSZI	2.27	299.3	I	06:36:07.482	0.0	115.1	-2.0	305.90	-104.4	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023kfn 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	
2023/05/26	07:40:44.19	1.39	0.39	48.0451	19.5824	13.7	6.4	137	0.0A	0.0	7	4	267	0.14	0.64	m	se BUD	731986	BUD				
2023/05/26	07:40:43.80	1.17	1.54	48.0171	19.6550	4.7	1.0	122	0.0f		9	5	241	0.12	0.59		se ILOC	731986	ILOC				306

(#PRIME)  
(Locality: Nagylóc Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.1	3	BUD	731986
MLv	1.1	0.3	3 BUD	731986
ML	1.0	0.5	3 ILOC	731986

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU03A	0.12	198.2	Pg	07:40:47.203	0.5					T__		604.0		___	ML	1.4	731989	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU03A	0.12	198.2	Lg	07:40:48.608	-0.5					T__				___		731990	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									
PSZI	0.19	121.7	I	07:41:48.051	3.6	299.1	-2.8	328.10	-9.1	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	0.19	121.5	Pg	07:40:48.694	0.3					T__	142.0			___	ML	1.0	731987	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.19	121.5	Lg	07:40:51.632	-0.5					T__				___		731991	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=1)																									
ET1H	0.20	133.5	Pg	07:40:48.566	0.1					T__	63.3			___	ML	0.7	731988	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ET1H	0.20	133.5	Lg	07:40:51.674	-0.4					T__				___		731992	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 0.7 magdef=1)																									
(Station ML: 0.7 magdef=1)																									
HU02A	0.59	79.5	Lg	07:41:05.066	-0.7					T__				___		731993	FDSN	Z6	00	BUD	BUD	HHN	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud20231bkk Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/06/07	07:17:29.70	0.33	0.89	48.5089	21.6978	6.0	3.0	163	0.0A	0.0	12	8	132	0.37	1.37	m	se BUD	732056	BUD			
2023/06/07	07:17:28.21	0.54	0.88	48.4913	21.6977	4.4	3.3	173	0.0f		13	9	129	0.36	1.37		se ILOC	732056	ILOC			211

(#PRIME)  
 (Locality: Veľká Trňa Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.5	3	BUD	732056
MLv	1.5	0.3	3 BUD	732056
ML	1.6	0.0	3 ILOC	732056

Sta	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	0.36	237.6	Pg	07:17:37.494	1.8					T__		68.9			1.1	732058	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.36	237.6	Lg	07:17:41.497	-0.6					T__						732060	FDSN	HU	--	BUD	BUD	HHN	???	_
(Reading ML: 1.1 magdef=1 Station ML: 1.1 magdef=1)																								
KOLS	0.58	40.5	Pg	07:17:39.737	0.2					T__						732062	FDSN	SK	--	BUD	BUD	HHZ	???	_
KOLS	0.58	40.5	Lg	07:17:48.849	-0.3					T__						732061	FDSN	SK	--	BUD	BUD	HHN	???	_
TRPA	0.67	122.4	Pg	07:17:40.479	-0.8					T__		54.7			1.6	732063	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
TRPA	0.67	122.4	Lg	07:17:52.743	0.1					T__						732064	FDSN	HU	--	BUD	BUD	HHN	???	_
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																								
JOS	0.77	270.8	Lg	07:17:54.628	-0.5					T__						732065	FDSN	Z6	--	BUD	BUD	HHN	???	_
KECS	0.81	269.9	Lg	07:17:55.468	-0.9					T__						732066	FDSN	SK	--	BUD	BUD	EHN	???	_
HU02A	0.87	245.2	Pn	07:17:46.884	0.3					T__		43.7			1.6	732057	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.87	245.2	Lg	07:17:57.913	-1.5					T__						732067	FDSN	Z6	00	BUD	BUD	HHN	???	_
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																								
PSZ	1.34	245.3	Sn	07:18:13.092	-0.1					T__						732068	FDSN	GE	--	BUD	BUD	HHN	???	_
PSZI	1.34	245.2	I	07:26:39.305	73.9	63.0	-0.9	353.40	-13.4	A__						111111	FDSN	HU	--	BUD	BUD	???	???	_
ET1H	1.37	244.1	Sn	07:18:13.328	-0.1					T__						732059	FDSN	HU	--	BUD	BUD	HHN	???	_

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud20231fhg Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2023/06/09	10:14:46.08	0.97	0.48	47.8867	20.1709	16.5	3.8	154	0.0A	0.0	7	4	222	0.19	0.66	m	se BUD	732111	BUD				
2023/06/09	10:14:44.57	1.01	0.92	47.8870	20.1613	3.5	1.0	101	0.0f		9	5	221	0.18	0.66		se ILOC	732111	ILOC				245

(#PRIME)  
 (Locality: Kismána Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.1	3	BUD	732111
MLv	1.1	0.3	3 BUD	732111
ML	1.2	0.1	3 ILOC	732111

Sta	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	280.0	Pg	10:14:49.620	0.6					T__		302.6			1.3	732112	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.18	280.0	Lg	10:14:52.303	-0.4					T__						732114	FDSN	GE	--	BUD	BUD	HHN	???	_
(Reading ML: 1.3 magdef=1 Station ML: 1.3 magdef=1)																								

```

PSZI 0.18 279.8 I 10:15:44.247 0.9 104.2 4.6 348.00 10.6 TA_ 111111 FDSN HU -- BUD BUD ??? ??? _
ET1H 0.20 267.8 Pg 10:14:49.449 0.3 T_ 240.3 ML 1.2 732113 FDSN HU -- BUD BUD HHZ HHZ _
ET1H 0.20 267.8 Lg 10:14:52.049 -0.7 T_ 732115 FDSN HU -- BUD BUD HHN ??? _
(Reading ML: 1.2 magdef=1
(Station ML: 1.2 magdef=1
HU02A 0.34 45.9 Pg 10:14:52.751 0.7 T_ 31.6 ML 0.7 732116 FDSN Z6 00 BUD BUD HHZ HHZ _
HU02A 0.34 45.9 Lg 10:14:56.996 -0.9 T_ 732117 FDSN Z6 00 BUD BUD HHN ??? _
(Reading ML: 0.7 magdef=1
(Station ML: 0.7 magdef=1
JOS 0.66 22.4 Lg 10:15:06.459 -1.4 T_ 732118 FDSN Z6 -- BUD BUD HHN ??? _

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud202310hb Hungary

```

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2023/06/14 08:21:38.39 0.41 0.43 48.8202 21.1462 4.9 3.8 173 0.0A 0.0 11 9 123 0.52 1.27 m se BUD 732177 BUD
2023/06/14 08:21:37.03 1.33 0.82 48.8032 21.1732 7.5 4.9 39 0.0f 12 10 122 0.51 1.27 se ILOC 732177 ILOC 204
(#PRIME)
(Locality: Sedlice Slovakia)

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```

Magnitude Err Nsta Author OrigID
M 1.8 4 BUD 732177
MLv 1.8 0.2 4 BUD 732177
ML 1.8 0.2 4 ILOC 732177

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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
ABAH 0.51 175.0 Lg 08:21:55.273 -0.7 T_ 732179 FDSN HU -- BUD BUD HHN ??? _
JOS 0.52 234.0 Lg 08:21:55.113 -0.2 T_ 732184 FDSN Z6 -- BUD BUD HHN ??? _
KECS 0.56 235.2 Pg 08:21:48.204 0.0 T_ 205.3 ML 2.1 732178 FDSN SK -- BUD BUD EHZ EHZ _
KECS 0.56 235.2 Lg 08:21:55.843 -0.8 T_ 732181 FDSN SK -- BUD BUD EHN ??? _
(Reading ML: 2.1 magdef=1
(Station ML: 2.1 magdef=1
KOLS 0.74 79.4 Lg 08:22:02.560 -0.5 T_ 732185 FDSN SK -- BUD BUD HHN ??? _
HU02A 0.81 212.6 Pg 08:21:54.269 0.6 T_ 71.5 ML 1.8 732186 FDSN Z6 00 BUD BUD HHZ HHZ _
(Reading ML: 1.8 magdef=1
(Station ML: 1.8 magdef=1
NIE 0.84 317.3 Lg 08:22:04.668 -0.2 T_ 732182 FDSN PL -- BUD BUD BHN ??? _
TRPA 1.13 126.0 Lg 08:22:15.447 -0.7 T_ 732183 FDSN HU -- BUD BUD HHN ??? _
PSZ 1.23 224.4 Pn 08:22:01.208 0.6 T_ 36.0 ML 1.7 732180 FDSN GE -- BUD BUD HHZ HHZ _
(Reading ML: 1.7 magdef=1
(Station ML: 1.7 magdef=1
PSZI 1.23 224.4 I 08:30:27.313 96.8 43.4 -0.1 347.70 -10.2 A_ 111111 FDSN HU -- BUD BUD ??? ??? _
ET1H 1.27 223.7 Pn 08:22:02.672 1.7 T_ 24.5 ML 1.6 732187 FDSN HU -- BUD BUD HHZ HHZ _
ET1H 1.27 223.7 Sn 08:22:19.056 -0.8 T_ 732188 FDSN HU -- BUD BUD HHN ??? _
(Reading ML: 1.6 magdef=1
(Station ML: 1.6 magdef=1

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

```

Event bud202310kg Hungary

```

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2023/06/14 09:58:46.16 1.19 0.44 47.7998 20.1670 15.2 3.6 164 0.0A 0.0 9 7 230 0.21 0.87 m se BUD 732214 BUD
2023/06/14 09:58:44.97 0.63 0.56 47.8706 20.1621 3.6 0.8 105 0.0f 11 8 213 0.19 0.84 se ILOC 732214 ILOC 228
(#PRIME)
(Locality: Kiszána Hungary)

```

Magnitude	Err	Nsta	Author	OrigID
M	1.9	3	BUD	732214
MLv	1.9	0.3	3 BUD	732214
ML	1.7	0.1	3 ILOC	732214

Sta	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	0.19	285.0	Pg	09:58:49.779	0.2					T__		700.8		___	ML	1.7	732217	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.19	285.0	Lg	09:58:52.558	-0.7					T__				___		732219	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
PSZI	0.19	284.8	I	09:59:44.297	-0.8	104.3	-0.3	348.90	11.6	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
ET1H	0.20	272.6	Pg	09:58:49.907	0.3					T__		554.1		___	ML	1.6	732215	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ET1H	0.20	272.6	Lg	09:58:53.016	-0.1					T__				___		732216	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
HU02A	0.35	43.9	Lg	09:58:58.770	0.1					T__				___		732218	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU03A	0.38	275.2	Lg	09:58:59.173	-0.1					T__				___		732220	FDSN	Z6	00	BUD	BUD	HHN	???	_	
KECS	0.65	19.3	Pn	09:58:59.672	-0.5					T__		202.8		___	ML	2.2	732221	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
(Reading ML: 2.2 magdef=1)																									
(Station ML: 2.2 magdef=1)																									
JOS	0.67	21.8	Lg	09:59:09.686	0.9					T__				___		732222	FDSN	Z6	--	BUD	BUD	HHN	???	_	
ABAH	0.84	59.1	Lg	09:59:14.924	-0.4					T__				___		732223	FDSN	HU	--	BUD	BUD	HHN	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud20231qao Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/06/15	07:21:19.58	0.37	0.51	46.0592	22.8468	5.5	3.7	74	0.0A	0.0	10	5	140	0.18	0.95	m	se BUD	732250	BUD			
2023/06/15	07:21:16.81	0.92	1.20	46.1463	22.8232	7.8	4.0	53	0.0f		12	6	142	0.27	2.68	se	ILOC	732250	ILOC			183

(#PRIME)  
(Locality: Kristyor Romania)

Magnitude	Err	Nsta	Author	OrigID
M	1.8	5	BUD	732250
MLv	1.8	0.2	5 BUD	732250
ML	1.8	0.2	5 ILOC	732250

Sta	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	0.27	168.0	Pg	07:21:22.015	0.1					T__		1405.5		___	ML	2.2	732251	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DEV	0.27	168.0	Lg	07:21:24.634	-1.1					T__				___		732252	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.2 magdef=1)																									
(Station ML: 2.2 magdef=0)																									
DRGR	0.65	353.2	Pn	07:21:34.002	0.7					T__		54.8		___	ML	1.6	732259	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DRGR	0.65	353.2	Sn	07:21:43.115	-1.1					T__				___		732260	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
GZR	0.75	182.5	Pg	07:21:31.745	0.5					T__		84.9		___	ML	1.8	732254	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
GZR	0.75	182.5	Lg	07:21:41.156	-0.7					T__				___		732253	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
LOT	0.96	136.2	Pn	07:21:36.685	-0.7					T__		85.3		___	ML	2.0	732255	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
LOT	0.96	136.2	Lg	07:21:49.119	-0.2					T__				___		732256	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.0 magdef=1)																									
(Station ML: 2.0 magdef=1)																									
BZS	1.00	238.3	Pn	07:21:38.261	1.1					T__		25.4		___	ML	1.5	732258	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
BZS	1.00	238.3	Lg	07:21:50.610	0.4					T__				___		732257	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1)																									

(Station ML: 1.5 magdef=0  
PSZI 2.68 312.6 I 07:38:05.240 -2.7 132.3 1.9 321.20 -70.9 TA\_ 111111 FDSN HU -- BUD BUD ??? ??? \_

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023lqcf 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
2023/06/15	08:11:16.86	0.30	0.84	48.4285	19.1712	3.7	2.6	163	0.0A	0.0	19	13	102	0.59	1.30	m	se BUD	732301	BUD			
2023/06/15	08:11:12.69	1.17	1.54	48.5074	19.1425	5.3	3.4	151	0.0f		21	14	109	0.67	1.35		se ILOC	732301	ILOC			159

(#PRIME)  
(Locality: Sasa Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.8	6	BUD	732301
MLv	1.8	0.2	6 BUD	732301
ML	1.8	0.1	6 ILOC	732301

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
HU10A	0.67	187.2	Pg	08:11:27.338	0.9					T__		178.5		ML	2.1	732305	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU10A	0.67	187.2	Lg	08:11:36.068	-1.1					T__						732309	FDSN	Z6	00	BUD	BUD	HHN	???	_
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=1)																								
HU03A	0.68	153.0	Pg	08:11:26.231	-0.6					T__		70.8		ML	1.7	732303	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU03A	0.68	153.0	Lg	08:11:37.090	0.1					T__						732310	FDSN	Z6	00	BUD	BUD	HHN	???	_
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																								
PSZI	0.77	139.3	I	08:15:35.295	4.1	316.6	-3.3	327.60	-6.2	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_
PSZ	0.77	139.2	Pn	08:11:30.308	0.3					T__		57.9		ML	1.7	732302	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.77	139.2	Lg	08:11:39.889	-1.0					T__						732311	FDSN	GE	--	BUD	BUD	HHN	???	_
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																								
ET1H	0.80	141.9	Lg	08:11:40.781	-0.4					T__						732312	FDSN	HU	--	BUD	BUD	HHN	???	_
SRO	0.89	218.9	Lg	08:11:44.219	-0.6					T__						732313	FDSN	SK	--	BUD	BUD	EHN	???	_
KECS	0.89	91.0	Pn	08:11:32.799	1.3					T__		268.3		ML	2.4	732306	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
KECS	0.89	91.0	Sn	08:11:45.872	-0.5					T__						732314	FDSN	SK	--	BUD	BUD	EHN	???	_
(Reading ML: 2.4 magdef=1 Station ML: 2.4 magdef=0)																								
JOS	0.93	90.2	Pn	08:11:33.310	1.4					T__		40.4		ML	1.6	732308	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	_
JOS	0.93	90.2	Sn	08:11:46.533	-0.7					T__						732307	FDSN	Z6	--	BUD	BUD	HHN	???	_
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=0)																								
HU02A	1.00	112.2	Pn	08:11:34.407	1.3					T__		55.1		ML	1.8	732304	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	1.00	112.2	Lg	08:11:47.650	-0.5					T__						732315	FDSN	Z6	00	BUD	BUD	HHN	???	_
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																								
JAVC	1.04	290.4	Sn	08:11:52.632	1.6					T__						732316	FDSN	CZ	--	BUD	BUD	HHN	???	_
NIE	1.19	39.5	Sn	08:11:57.748	3.3					T__						732319	FDSN	PL	--	BUD	BUD	BHN	???	_
MODS	1.25	264.5	Sn	08:11:56.661	1.0					T__						732318	FDSN	SK	--	BUD	BUD	HHN	???	_
CSKK	1.29	207.7	Sn	08:11:57.138	0.9					T__						732317	FDSN	HU	--	BUD	BUD	HHN	???	_
HU08A	1.35	217.7	Lg	08:11:59.601	-0.4					T__						732320	FDSN	Z6	00	BUD	BUD	HHN	???	_

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023lqcn Hungary

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

2023/06/15 08:20:50.98 0.89 0.85 48.7387 21.4847 10.5 4.8 10 0.0A 0.0 11 6 241 0.47 1.34 m se BUD 732354 BUD  
 2023/06/15 08:20:50.22 1.26 0.64 48.6686 21.4807 8.5 4.2 40 0.0f 0.0 12 7 232 0.41 1.30 se ILOC 732354 ILOC 308

(#PRIME)  
 (Locality: Slanec Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.6	5	BUD	732354
MLv	1.6 0.2	5	BUD	732354
ML	1.5 0.0	5	ILOC	732354

Sta	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	0.41	203.4	Pg	08:20:59.143	0.6					T__		107.1		___	ML	1.5	732359	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.41	203.4	Lg	08:21:05.361	-0.2					T__				___		732360	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									
JOS	0.65	254.9	Pg	08:21:03.694	0.6					T__		26.1		___	ML	1.3	732358	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	_
JOS	0.65	254.9	Lg	08:21:13.392	0.5					T__				___		732361	FDSN	Z6	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=0)																									
KECS	0.69	254.7	Pg	08:21:02.853	-1.1					T__		167.3		___	ML	2.1	732357	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
KECS	0.69	254.7	Lg	08:21:14.680	0.5					T__				___		732362	FDSN	SK	--	BUD	BUD	EHN	???	_	
(Reading ML: 2.1 magdef=1)																									
(Station ML: 2.1 magdef=0)																									
HU02A	0.84	229.7	Pg	08:21:07.814	0.3					T__		31.7		___	ML	1.5	732356	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.84	229.7	Lg	08:21:19.556	-0.9					T__				___		732363	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									
TRPA	0.89	127.0	Lg	08:21:21.778	-0.2					T__				___		732364	FDSN	HU	--	BUD	BUD	HHN	???	_	
PSZ	1.30	235.3	Pg	08:21:16.863	-0.4					T__		29.4		___	ML	1.7	732355	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	1.30	235.3	Sn	08:21:34.822	0.5					T__				___		732365	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
PSZI	1.30	235.3	I	08:29:28.190	56.1	56.7	2.6	350.40	-13.2	_A_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023lqfj Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/06/15	09:47:23.35	0.33	0.28	47.5371	18.4363	3.9	3.4	151	0.0A	0.0	10	8	117	0.11	1.14	m	kx BUD	732393	BUD			
2023/06/15	09:47:21.06			47.5600	18.4573				0.0								kx BUD_GT	1	BUD			
2023/06/15	09:47:21.06	0.58	1.37	47.5528	18.4868	3.2	3.1	49	0.0f		12	9	118	0.11	1.16		kx ILOC	732393	ILOC			148

(#PRIME)  
 (Locality: Tatabánya Hungary)  
 (GT info : GT2 explosion)

Magnitude	Err	Nsta	Author	OrigID
M	1.6	2	BUD	732393
MLv	1.6 0.4	2	BUD	732393
ML	1.6 0.4	2	ILOC	732393

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU09A	0.11	320.6	Pg	09:47:25.129	1.3					T__		1965.6		___	ML	1.9	732395	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU09A	0.11	320.6	Lg	09:47:26.321	-0.1					T__				___		732394	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
CSKK	0.24	219.1	Pg	09:47:27.173	0.7					T__		252.0		___	ML	1.4	732396	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.24	219.1	Lg	09:47:29.557	-1.6					T__				___		732397	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.4 magdef=1)																									

```

(Station ML: 1.4 magdef=1
SRO 0.29 335.9 Lg 09:47:32.453 -0.0 T__ 732398 FDSN SK -- BUD BUD EHN ??? _
BUD 0.37 100.6 Lg 09:47:35.860 0.3 T__ 732399 FDSN HU -- BUD BUD HHN ??? _
MPLH 0.75 239.6 Lg 09:47:46.676 -0.8 T__ 732400 FDSN HU -- BUD BUD HHN ??? _
ETLH 0.99 70.2 Sn 09:47:56.811 -0.3 T__ 732401 FDSN HU -- BUD BUD HHN ??? _
PSZI 1.02 68.4 I 09:53:07.097 -2.8 254.9 5.4 314.80 -28.3 TA_ 111111 FDSN HU -- BUD BUD ??? ??? _
PSZ 1.02 68.4 Lg 09:47:57.407 -0.5 T__ 732402 FDSN GE -- BUD BUD HHE ??? _
MODS 1.16 315.7 Sn 09:47:59.792 -1.8 T__ 732403 FDSN SK -- BUD BUD HHN ??? _

```

```

STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

```

Event bud20231qku Romania

```

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2023/06/15 12:30:45.91 1.01 0.47 46.8502 22.8436 12.0 5.0 169 0.0A 0.0 6 4 227 0.11 1.49 m se BUD 732421 BUD
2023/06/15 12:30:43.42 1.62 0.70 46.9448 22.8188 8.6 4.3 22 0.0f 8 5 175 0.17 2.21 se ILOC 732421 ILOC 260
(#PRIME)
(Locality: Poieni Romania)

```

```

Magnitude Err Nsta Author OrigID
M 1.4 2 BUD 732421
MLv 1.4 0.7 2 BUD 732421
ML 1.5 0.7 2 ILOC 732421

```

```

Sta 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 0.17 205.8 Pg 12:30:47.425 0.3 T__ 190.2 ML 1.1 732422 FDSN RO -- BUD BUD HHZ HHZ _
DRGR 0.17 205.8 Lg 12:30:49.533 -0.8 T__ 732423 FDSN RO -- BUD BUD HHN ??? _
(Reading ML: 1.1 magdef=1
(Station ML: 1.1 magdef=1
CJR 0.58 113.1 Lg 12:31:03.273 -0.8 T__ 732425 FDSN RO -- BUD BUD HHN ??? _
GZR 1.55 181.1 Pg 12:31:13.506 0.7 T__ 41.3 ML 2.0 732427 FDSN RO -- BUD BUD HHZ HHZ _
GZR 1.55 181.1 Sn 12:31:33.265 -0.2 T__ 732426 FDSN RO -- BUD BUD HHN ??? _
(Reading ML: 2.0 magdef=1
(Station ML: 2.0 magdef=1
BZS 1.57 212.5 Lg 12:31:34.481 -0.4 T__ 732424 FDSN RO -- BUD BUD HHN ??? _
PSZI 2.21 297.2 I 12:44:40.020 -0.7 110.8 -4.2 322.60 -89.1 TA_ 111111 FDSN HU -- BUD BUD ??? ??? _

```

```

STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

```

Event bud20231rym 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
2023/06/16 08:34:06.62 0.38 0.82 48.0128 20.3621 6.5 3.0 133 0.0A 0.0 8 7 127 0.15 0.65 m kx BUD 732469 BUD
2023/06/16 08:34:04.22 47.9760 20.3693 0.0 kx BUD_GT 1 BUD
2023/06/16 08:34:04.22 0.99 0.77 48.0073 20.3543 3.6 1.6 77 0.0f 10 8 127 0.16 0.66 kx ILOC 732469 ILOC 184
(#PRIME)
(Locality: Eger-III Hungary)
(GT info : GT2 explosion)

```

```

Magnitude Err Nsta Author OrigID
M 1.2 1 BUD 732469
MLv 1.2 0.0 1 BUD 732469

```

```

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude ArrID Agy Deploy Ln Auth Rep PCh Ach L
HU02A 0.16 44.8 Pg 08:34:08.080 -0.0 T__ 302.5 ML 1.2 732470 FDSN Z6 00 BUD BUD HHZ HHZ _
HU02A 0.16 44.8 Lg 08:34:10.592 -0.8 T__ 732476 FDSN Z6 00 BUD BUD HHN ??? _
(Reading ML: 1.2 magdef=1

```

(Station ML: 1.2 magdef=0

PSZ	0.32	254.1	Lg	08:34:16.713	-0.4					T						732477	FDSN	GE	--	BUD	BUD	HHN	???	
PSZI	0.32	254.1	I	08:35:48.549	0.1	77.1	3.4	350.80	16.4	TA						111111	FDSN	HU	--	BUD	BUD	???	???	
ET1H	0.35	248.6	Lg	08:34:17.083	-0.5					T						732475	FDSN	HU	--	BUD	BUD	HHN	???	
HU23A	0.38	190.9	Lg	08:34:19.447	0.8					T						732474	FDSN	Z6	00	BUD	BUD	HHN	???	
KECS	0.48	10.4	Lg	08:34:22.377	0.8					T						732471	FDSN	SK	--	BUD	BUD	EHN	???	
JOS	0.50	14.1	Lg	08:34:23.229	1.0					T						732472	FDSN	Z6	--	BUD	BUD	HHN	???	
ABAH	0.66	63.7	Lg	08:34:27.729	-0.9					T						732473	FDSN	HU	--	BUD	BUD	HHN	???	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023lsck Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2023/06/16	10:33:07.72	0.32	0.91	48.7665	21.6366	8.3	2.9	146	0.0A	0.0	13	9	148	0.45	1.48	m	se BUD	732503	BUD				
2023/06/16	10:33:05.87	1.00	0.71	48.7969	21.5921	7.0	4.4	144	0.0f		14	10	153	0.47	1.47		se ILOC	732503	ILOC			185	

(#PRIME)  
 (Locality: Vechec Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.8	5	BUD	732503
MLv	1.8	0.1	5 BUD	732503
ML	1.8	0.1	5 ILOC	732503

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOLS	0.47	72.9	Pg	10:33:15.434	0.4					T						732512	FDSN	SK	--	BUD	BUD	HHZ	???		
KOLS	0.47	72.9	Lg	10:33:21.822	-1.0					T						732513	FDSN	SK	--	BUD	BUD	HHN	???		
ABAH	0.55	205.2	Pg	10:33:17.259	0.3					T		94.3			ML	1.8	732505	FDSN	HU	--	BUD	BUD	HHZ	HHZ	
ABAH	0.55	205.2	Lg	10:33:26.286	-0.0					T						732504	FDSN	HU	--	BUD	BUD	HHN	???		
				(Reading ML: 1.8 magdef=1)																					
				(Station ML: 1.8 magdef=1)																					
JOS	0.76	247.1	Pn	10:33:22.347	-0.3					T		90.8			ML	1.9	732507	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	
				(Reading ML: 1.9 magdef=1)																					
				(Station ML: 1.9 magdef=1)																					
KECS	0.80	247.3	Pn	10:33:23.114	-0.1					T		157.8			ML	2.1	732508	FDSN	SK	--	BUD	BUD	EHZ	EHZ	
KECS	0.80	247.3	Lg	10:33:33.234	-0.4					T						732514	FDSN	SK	--	BUD	BUD	EHN	???		
				(Reading ML: 2.1 magdef=1)																					
				(Station ML: 2.1 magdef=0)																					
TRPA	0.92	136.3	Pn	10:33:24.413	-0.5					T		54.2			ML	1.7	732506	FDSN	HU	--	BUD	BUD	HHZ	HHZ	
				(Reading ML: 1.7 magdef=1)																					
				(Station ML: 1.7 magdef=1)																					
HU02A	0.98	226.9	Pn	10:33:25.626	-0.3					T		48.9			ML	1.7	732509	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	
HU02A	0.98	226.9	Lg	10:33:39.509	-1.2					T						732511	FDSN	Z6	00	BUD	BUD	HHE	???		
				(Reading ML: 1.7 magdef=1)																					
				(Station ML: 1.7 magdef=0)																					
KWP	1.11	40.8	Sn	10:33:45.157	-1.3					T						732515	FDSN	PL	--	BUD	BUD	HHN	???		
PSZ	1.43	232.8	Lg	10:33:56.229	0.7					T						732516	FDSN	GE	--	BUD	BUD	HHN	???		
PSZI	1.43	232.8	I	10:42:41.625	57.7	50.1	-1.4	349.40	-25.9	A						111111	FDSN	HU	--	BUD	BUD	???	???		
ET1H	1.47	232.0	Sn	10:33:53.838	0.2					T						732510	FDSN	HU	--	BUD	BUD	HHN	???		

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023lxjj Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2023/06/19	07:45:16.03	1.11	0.63	47.7830	19.8258	11.8	4.7	172	0.0A	0.0	10	7	247	0.10	1.08	m	se BUD	732545	BUD					
2023/06/19	07:45:15.18	0.75	2.19	47.8301	19.8323	4.5	0.4	24	0.0f		12	8	232	0.06	1.05		se ILOC	732545	ILOC			321		



(#PRIME)

(Locality: Gyöngyöstarján Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.5	3	BUD	732545
MLv	1.5 0.2	3	BUD	732545
ML	1.4 0.2	3	ILOC	732545

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
ET1H	0.06	28.1	Pg	07:45:16.929	0.0					T__		1345.9		___	ML	1.6	732548	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ET1H	0.06	28.1	Lg	07:45:18.547	-0.0					T__				___		732547	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
PS2I	0.10	25.1	I	07:45:52.690	6.3	207.4	2.3	318.70	-20.8	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	0.10	25.3	Pg	07:45:18.345	0.4					T__		632.3		___	ML	1.4	732546	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.10	25.3	Lg	07:45:20.368	-0.1					T__				___		732550	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									
HU03A	0.17	295.3	Pg	07:45:19.800	0.6					T__		284.8		___	ML	1.2	732549	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU03A	0.17	295.3	Lg	07:45:22.504	0.1					T__				___		732551	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.2 magdef=1)																									
(Station ML: 1.2 magdef=1)																									
HU02A	0.55	57.6	Lg	07:45:35.069	-0.7					T__				___		732552	FDSN	Z6	00	BUD	BUD	HHN	???	_	
KECS	0.79	33.6	Lg	07:45:41.911	-0.9					T__				___		732553	FDSN	SK	--	BUD	BUD	EHN	???	_	
JOS	0.82	35.1	Lg	07:45:44.106	0.2					T__				___		732554	FDSN	Z6	--	BUD	BUD	HHN	???	_	
ABAH	1.05	63.2	Sn	07:45:51.430	-1.0					T__				___		732555	FDSN	HU	--	BUD	BUD	HHN	???	_	

STOP

BEGIN IMS2.0

DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023mcyb 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
2023/06/22	08:51:10.95	1.41	0.25	48.6697	19.1929	12.8	5.2	132	0.0A	0.0	10	8	272	0.81	1.41	m	se BUD	732606	BUD			
2023/06/22	08:51:10.29	3.34	0.53	48.6029	19.2298	18.7	3.6	144	0.0f		11	9	265	0.74	1.37		se ILOC	732606	ILOC			296

(#PRIME)

(Locality: Horná Mičiná Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.7	2	BUD	732606
MLv	1.7 0.1	2	BUD	732606
ML	1.7 0.1	2	ILOC	732606

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU03A	0.74	160.4	Lg	08:51:37.047	0.3					T__				___		732611	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU10A	0.77	190.6	Lg	08:51:37.853	-0.5					T__				___		732612	FDSN	Z6	00	BUD	BUD	HHN	???	_	
PSZ	0.82	146.8	Lg	08:51:39.458	-0.4					T__				___		732613	FDSN	GE	--	BUD	BUD	HHN	???	_	
PS2I	0.82	146.9	I	08:55:11.214	-32.7	328.2	0.9	326.50	-8.3	A_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
ET1H	0.84	149.1	Lg	08:51:40.564	0.3					T__				___		732614	FDSN	HU	--	BUD	BUD	HHN	???	_	
KECS	0.84	97.7	Lg	08:51:39.581	-0.1					T__				___		732609	FDSN	SK	--	BUD	BUD	EHN	???	_	
JOS	0.88	96.5	Pn	08:51:28.083	-0.7					T__		47.0		___	ML	1.7	732607	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	_
JOS	0.88	96.5	Lg	08:51:40.603	-0.2					T__				___		732608	FDSN	Z6	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
HU02A	0.99	118.6	Pg	08:51:31.149	0.6					T__		51.8		___	ML	1.8	732610	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.99	118.6	Lg	08:51:44.308	-0.9					T__				___		732615	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
ABAH	1.37	102.2	Sn	08:51:55.342	-0.2					T__				___		732616	FDSN	HU	--	BUD	BUD	HHN	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023mdel 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
2023/06/22	12:04:25.38	0.36	0.72	48.7211	18.7860	9.2	3.1	9	0.0A	0.0	10	7	133	0.75	1.30	m	se BUD	732658	BUD			
2023/06/22	12:04:25.11	0.82	1.03	48.6849	18.8110	5.0	3.4	7	0.0f		12	8	129	0.77	1.27		se ILOC	732658	ILOC			175

(#PRIME)  
 (Locality: Remata Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.4	3	BUD	732658
MLv	1.4	0.2	3	BUD
ML	1.5	0.2	3	ILOC

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
JAVC	0.77	283.4	Pg	12:04:40.232	0.3					T__		47.6		___	ML	1.6	732664	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	_
JAVC	0.77	283.4	Sg	12:04:48.674	-1.3					T__				___			732665	FDSN	CZ	--	BUD	BUD	HHN	???	_
(Reading ML: 1.6 magdef=1 (Station ML: 1.6 magdef=1)																									
PSZI	1.05	136.3	I	12:10:26.487	-1.8	319.0	1.9	332.00	-13.3	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	1.05	136.3	Sb	12:05:01.298	0.7					T__				___			732666	FDSN	GE	--	BUD	BUD	HHN	???	_
MODS	1.07	253.6	Pb	12:04:46.588	0.1					T__				___			732661	FDSN	SK	--	BUD	BUD	HHZ	???	_
MODS	1.07	253.6	Sg	12:04:59.448	0.1					T__				___			732660	FDSN	SK	--	BUD	BUD	HHN	???	_
KECS	1.13	99.7	Lg	12:05:02.888	1.5					T__				___			732662	FDSN	SK	--	BUD	BUD	EHN	???	_
JOS	1.16	98.7	Sg	12:05:02.872	0.4					T__				___			732667	FDSN	Z6	--	BUD	BUD	HHN	???	_
NIE	1.22	52.6	Pb	12:04:48.995	-0.2					T__		8.9		___	ML	1.1	732663	FDSN	PL	--	BUD	BUD	BHZ	BHZ	_
(Reading ML: 1.1 magdef=1 (Station ML: 1.1 magdef=1)																									
HU02A	1.27	115.6	Pg	12:04:48.246	-1.3					T__		17.6		___	ML	1.5	732659	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	1.27	115.6	Sg	12:05:06.366	0.4					T__				___			732668	FDSN	Z6	00	BUD	BUD	HHN	???	_
(Reading ML: 1.5 magdef=1 (Station ML: 1.5 magdef=1)																									

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023mpoe Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2023/06/29	06:37:55.52	0.25	0.83	47.6792	18.5006	3.5	2.4	164	0.0A	0.0	17	13	107	0.09	1.80	m	se BUD	732701	BUD				
2023/06/29	06:37:55.24	0.51	1.35	47.6706	18.4853	3.1	3.1	162	0.0f		19	14	102	0.08	1.79		se ILOC	732701	ILOC				112

(#PRIME)  
 (Locality: Bersekbánya Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.8	4	BUD	732701
MLv	1.8	0.3	4	BUD
ML	1.7	0.1	4	ILOC

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU09A	0.08	245.3	Pg	06:37:57.165	0.5					T__		1760.4		___	ML	1.8	732706	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU09A	0.08	245.3	Lg	06:37:59.174	1.5					T__				___			732705	FDSN	Z6	00	BUD	BUD	HHN	???	_
(Reading ML: 1.8 magdef=1 (Station ML: 1.8 magdef=1)																									
SRO	0.18	321.0	Pg	06:37:58.584	-0.2					T__		3518.7		___	ML	2.4	732703	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
SRO	0.18	321.0	Lg	06:38:00.611	-0.5					T__				___			732707	FDSN	SK	--	BUD	BUD	EHN	???	_
(Reading ML: 2.4 magdef=1)																									

```

(Station ML: 2.4 magdef=1
CSKK 0.34 206.4 Pg 06:38:02.474 0.7 T__ 203.2 ___ ML 1.6 732702 FDSN HU -- BUD BUD HHZ HHZ _
CSKK 0.34 206.4 Lg 06:38:06.582 0.3 T__ 732708 FDSN HU -- BUD BUD HHN ??? _
(Reading ML: 1.6 magdef=1
(Station ML: 1.6 magdef=1
HU10A 0.40 63.9 Sg 06:38:08.049 -0.0 T__ 732709 FDSN Z6 00 BUD BUD HHN ??? _
BUD 0.41 117.0 Lg 06:38:08.672 0.3 T__ 732710 FDSN HU -- BUD BUD HHN ??? _
HU08A 0.45 238.0 Lg 06:38:10.754 1.1 T__ 732711 FDSN Z6 00 BUD BUD HHN ??? _
MPLH 0.81 232.4 Sb 06:38:23.410 -0.4 T__ 732712 FDSN HU -- BUD BUD HHN ??? _
ET1H 0.96 76.9 Lg 06:38:26.228 0.2 T__ 732713 FDSN HU -- BUD BUD HHN ??? _
PSZI 0.98 74.9 I 06:43:34.678 4.5 260.4 4.5 306.80 -34.3 TA__ 111111 FDSN HU -- BUD BUD ??? ??? _
PSZ 0.98 74.9 Lg 06:38:27.188 0.4 T__ 732704 FDSN GE -- BUD BUD HHN ??? _
MODS 1.07 311.4 Sg 06:38:29.854 0.1 T__ 732714 FDSN SK -- BUD BUD HHN ??? _
HU02A 1.45 71.0 Sn 06:38:42.647 0.2 T__ 732715 FDSN Z6 00 BUD BUD HHN ??? _
MORH 1.46 175.7 Pn 06:38:21.361 -1.5 T__ 26.6 ___ ML 1.7 732717 FDSN HU -- BUD BUD HHZ HHZ _
MORH 1.46 175.7 Sg 06:38:40.862 -1.3 T__ 732716 FDSN HU -- BUD BUD HHN ??? _
(Reading ML: 1.7 magdef=1
(Station ML: 1.7 magdef=1
CONA 1.79 279.3 Sn 06:38:50.605 -0.3 T__ 732718 FDSN OE -- BUD BUD HHN ??? _

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023mpps 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
2023/06/29	07:11:40.29	0.31	0.50	48.4267	18.4598	4.6	2.9	19	0.0A	0.0	11	9	110	0.68	1.48	m	se BUD	732744	BUD			
2023/06/29	07:11:38.11	0.97	4.90	48.4019	18.5112	4.2	3.4	42	0.0F		13	10	109	0.65	1.52		se ILOC	732744	ILOC			135

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(#PRIME)
(Locality: Hostie Slovakia)

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Magnitude	Err	Nsta	Author	OrigID
M	1.6	1	BUD	732744
MLv	1.6 0.0	1	BUD	732744

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU10A	0.65	148.4	Lg	07:12:01.692	-0.4											732748	FDSN	Z6	00	BUD	BUD	HHN	???		
JAVC	0.72	309.7	Pg	07:11:53.864	0.9							47.9			ML	1.6	732746	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	
JAVC	0.72	309.7	Lg	07:12:01.399	-2.9											732747	FDSN	CZ	--	BUD	BUD	HHN	???		

```

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

```

MODS	0.82	268.5	Pg	07:11:56.275	1.4											732745	FDSN	SK	--	BUD	BUD	HHZ	???	
MODS	0.82	268.5	Lg	07:12:05.270	-2.3											732749	FDSN	SK	--	BUD	BUD	HHN	???	
ZST	0.96	258.2	Lg	07:12:10.529	-1.4											732750	FDSN	SK	--	BUD	BUD	HHN	???	
PSZI	1.04	117.1	I	07:17:22.662	-14.8	296.0	-2.1	331.20	-13.5	TA__						111111	FDSN	HU	--	BUD	BUD	???	???	
HU08A	1.05	202.4	Lg	07:12:14.546	-0.6											732751	FDSN	Z6	00	BUD	BUD	HHN	???	
ET1H	1.05	119.4	Lg	07:12:16.226	0.9											732752	FDSN	HU	--	BUD	BUD	HHN	???	
KECS	1.32	85.7	Sn	07:12:22.872	0.4											732753	FDSN	SK	--	BUD	BUD	EHN	???	
JOS	1.35	85.3	Sn	07:12:24.114	0.8											732754	FDSN	Z6	--	BUD	BUD	HHN	???	
MORC	1.52	335.5	Lg	07:12:26.962	-0.4											732755	FDSN	CZ	--	BUD	BUD	HHN	???	

```

STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

```

Event bud2023mptl 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
2023/06/29	09:17:56.77	0.36	0.76	48.5656	20.8025	4.5	3.4	143	0.0A	0.0	14	10	90	0.19	1.04	m	se BUD	732782	BUD			
2023/06/29	09:17:55.34	1.09	0.93	48.5534	20.8245	4.2	3.6	43	0.0F		16	11	89	0.20	1.03		se ILOC	732782	ILOC			174

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

Magnitude	Err	Nsta	Author	OrigID
M	1.6	5	BUD	732782
MLv	1.6 0.2	5	BUD	732782
ML	1.6 0.1	5	ILOC	732782

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
JOS	0.20	253.2	Pg	09:17:59.502	0.0					T__		605.3		___	ML	1.6 732783	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	_
JOS	0.20	253.2	Lg	09:18:03.364	0.6					T__				___		732784	FDSN	Z6	--	BUD	BUD	HHN	???	_
(Reading ML: 1.6 magdef=1 (Station ML: 1.6 magdef=1)																								
KECS	0.24	252.8	Pg	09:18:00.196	-0.1					T__		1576.8		___	ML	2.2 732785	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
KECS	0.24	252.8	Lg	09:18:04.569	0.5					T__				___		732786	FDSN	SK	--	BUD	BUD	EHN	???	_
(Reading ML: 2.2 magdef=1 (Station ML: 2.2 magdef=1)																								
CP16A	0.28	222.0	Pg	09:18:02.309	1.1					T__		381.3		___	ML	1.7 732787	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
CP16A	0.28	222.0	Lg	09:18:06.025	0.4					T__				___		732788	FDSN	Z6	00	BUD	BUD	HHN	???	_
(Reading ML: 1.7 magdef=1 (Station ML: 1.7 magdef=1)																								
ABAH	0.38	132.8	Lg	09:18:09.093	-0.7					T__				___		732791	FDSN	HU	--	BUD	BUD	HHN	???	_
CP17A	0.39	212.1	Lg	09:18:07.705	-1.9					T__				___		732789	FDSN	Z6	00	BUD	BUD	HHN	???	_
HU02A	0.48	205.0	Lg	09:18:12.525	-0.6					T__				___		732790	FDSN	Z6	00	BUD	BUD	HHN	???	_
PSZ	0.89	224.7	Pg	09:18:14.406	0.3					T__		36.8		___	ML	1.6 732792	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
(Reading ML: 1.6 magdef=1 (Station ML: 1.6 magdef=1)																								
PSZI	0.89	224.7	I	09:22:55.015	-0.8	44.3	0.3	346.90	9.7	TA__				___		111111	FDSN	HU	--	BUD	BUD	???	???	_
ET1H	0.93	223.7	Pn	09:18:14.485	-0.0					T__		28.3		___	ML	1.5 732795	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ET1H	0.93	223.7	Lg	09:18:26.317	-2.0					T__				___		732794	FDSN	HU	--	BUD	BUD	HHN	???	_
(Reading ML: 1.5 magdef=1 (Station ML: 1.5 magdef=0)																								
NIE	0.93	338.4	Lg	09:18:25.879	-0.3					T__				___		732793	FDSN	PL	--	BUD	BUD	BHN	???	_
KOLS	1.03	67.8	Lg	09:18:31.065	-0.0					T__				___		732796	FDSN	SK	--	BUD	BUD	HHN	???	_

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023mpwm Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/06/29	10:49:19.33	0.73	0.37	47.8706	20.1889	11.5	2.7	156	0.0A	0.0	13	9	210	0.20	0.82	m	se BUD	732830	BUD			
2023/06/29	10:49:17.77	0.94	1.18	47.8742	20.1692	3.2	1.0	106	0.0f		15	10	209	0.19	0.83	se	ILOC	732830	ILOC			224

(#PRIME)  
 (Locality: Kiskaná Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.6	5	BUD	732830
MLv	1.6 0.2	5	BUD	732830
ML	1.6 0.1	5	ILOC	732830

Sta	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	0.19	283.5	Pg	10:49:23.088	0.7					T__		703.7		___	ML	1.7 732831	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.19	283.5	Lg	10:49:26.101	-0.1					T__				___		732837	FDSN	GE	--	BUD	BUD	HHN	???	_
(Reading ML: 1.7 magdef=1 (Station ML: 1.7 magdef=1)																								
PSZI	0.19	283.4	I	10:50:16.999	-2.1	104.7	1.6	343.70	6.5	TA__				___		111111	FDSN	HU	--	BUD	BUD	???	???	_
ET1H	0.20	271.5	Pg	10:49:23.088	0.6					T__		537.7		___	ML	1.6 732832	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ET1H	0.20	271.5	Lg	10:49:25.544	-0.5					T__				___		732833	FDSN	HU	--	BUD	BUD	HHN	???	_
(Reading ML: 1.6 magdef=1)																								



MLv 1.8 0.6 3 BUD 732893  
 ML 1.9 0.6 3 ILOC 732893

Sta	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	222.4	Pg	10:46:38.326	0.1					T__		291.8		___	ML	1.2	732894	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DRGR	0.14	222.4	Lg	10:46:40.919	-0.1					T__				___		732898	FDSN	RO	--	BUD	BUD	HNN	???	_	
(Reading ML: 1.2 magdef=1 Station ML: 1.2 magdef=1)																									
GZR	1.50	182.0	Pg	10:47:03.761	0.2					T__		101.0		___	ML	2.3	732896	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
GZR	1.50	182.0	Sn	10:47:23.116	-0.8					T__				___		732895	FDSN	RO	--	BUD	BUD	HNN	???	_	
(Reading ML: 2.3 magdef=1 Station ML: 2.3 magdef=1)																									
BZS	1.54	214.2	Sn	10:47:24.078	-0.2					T__				___		732899	FDSN	RO	--	BUD	BUD	HNN	???	_	
LOT	1.58	155.9	Pg	10:47:05.003	-0.2					T__		33.9		___	ML	1.9	732897	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
LOT	1.58	155.9	Sn	10:47:26.001	-0.4					T__				___		732900	FDSN	RO	--	BUD	BUD	HNN	???	_	
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																									
PSZI	2.25	298.1	I	11:00:48.144	-0.2	117.6	1.7	327.80	-82.9	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023myuv 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		
2023/07/04	08:12:50.61	0.47	0.24	48.0027	20.3331	14.6	3.4	148	0.0A	0.0	9	5	184	0.18	0.67	m	se BUD	732926	BUD					
2023/07/04	08:12:49.43	0.51	1.59	48.0030	20.3512	3.0	1.3	77	0.0F		11	6	185	0.17	0.66	se ILOC	732926	ILOC			204			
#PRIME (Locality: Eger Hungary)																								

Magnitude	Err	Nsta	Author	OrigID
M	1.1	5	BUD	732926
MLv	1.1	0.3	5	BUD
ML	1.1	0.1	5	ILOC

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU02A	0.17	44.3	Pg	08:12:53.592	0.2					T__		221.8		___	ML	1.1	732930	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.17	44.3	Lg	08:12:55.902	-0.9					T__				___		732932	FDSN	Z6	00	BUD	BUD	HNN	???	_	
(Reading ML: 1.1 magdef=1 Station ML: 1.1 magdef=1)																									
CP17A	0.24	26.3	Pg	08:12:55.205	0.6					T__		167.8		___	ML	1.2	732931	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
CP17A	0.24	26.3	Lg	08:12:58.239	-0.3					T__				___		732933	FDSN	Z6	00	BUD	BUD	HNN	???	_	
(Reading ML: 1.2 magdef=1 Station ML: 1.2 magdef=1)																									
PSZ	0.32	254.7	Pg	08:12:56.878	0.2					T__		65.2		___	ML	1.0	732928	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
(Reading ML: 1.0 magdef=1 Station ML: 1.0 magdef=1)																									
PSZI	0.32	254.7	I	08:14:36.056	3.5	79.2	4.8	351.50	17.1	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
ET1H	0.35	249.2	Pg	08:12:57.138	0.1					T__		23.2		___	ML	0.6	732929	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ET1H	0.35	249.2	Lg	08:13:00.853	-1.8					T__				___		732934	FDSN	HU	--	BUD	BUD	HNN	???	_	
(Reading ML: 0.6 magdef=1 Station ML: 0.6 magdef=0)																									
ABAH	0.66	63.4	Pg	08:13:03.720	0.9					T__		49.0		___	ML	1.6	732927	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.66	63.4	Lg	08:13:12.279	-1.7					T__				___		732935	FDSN	HU	--	BUD	BUD	HNN	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=0)																									

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023nave Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2023/07/05	10:39:41.02	1.15	0.32	47.7643	20.1908	12.9	3.8	160	0.0A	0.0	11	7	257	0.24	0.77	m	se BUD	732993	BUD				
2023/07/05	10:39:41.22	0.93	0.81	47.8637	20.1423	8.1	3.0	165	0.0f		12	8	230	0.18	0.69		se ILOC	732993	ILOC			240	

(#PRIME)

(Locality: Kiskaná Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.5	4	BUD	732993
MLv	1.5	0.1	4 BUD	732993
ML	1.3	0.1	4 ILOC	732993

Sta	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	288.3	Pg	10:39:46.041	0.5					T__		397.6		___	ML	1.4	732994	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.18	288.3	Lg	10:39:48.589	-0.5					T__				___		732995	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									
PSZI	0.18	288.1	I	10:40:39.494	1.7	103.5	-4.4	345.60	8.0	T__				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
ET1H	0.18	274.9	Pg	10:39:46.041	0.5					T__		248.2		___	ML	1.2	732996	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ET1H	0.18	274.9	Lg	10:39:48.068	-0.9					T__				___		733000	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.2 magdef=1)																									
(Station ML: 1.2 magdef=1)																									
HU02A	0.36	44.7	Pg	10:39:49.123	-0.1					T__		89.7		___	ML	1.3	732997	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.36	44.7	Lg	10:39:54.438	-1.0					T__				___		733002	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=1)																									
HU03A	0.37	276.5	Lg	10:39:54.554	-0.5					T__				___		733001	FDSN	Z6	00	BUD	BUD	HHN	???	_	
CP17A	0.43	34.7	Pg	10:39:50.246	0.0					T__		76.3		___	ML	1.4	732998	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
CP17A	0.43	34.7	Lg	10:39:57.643	0.6					T__				___		733003	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									
KECS	0.66	20.2	Lg	10:40:04.721	0.1					T__				___		733004	FDSN	SK	--	BUD	BUD	EHN	???	_	
JOS	0.69	22.6	Lg	10:40:05.479	0.0					T__				___		732999	FDSN	Z6	--	BUD	BUD	HHN	???	_	

STOP

BEGIN IMS2.0

DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023njtp 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		
2023/07/10	08:05:11.05	0.33	0.49	48.4247	19.0967	4.5	2.8	8	0.0A	0.0	14	11	150	0.58	1.21	m	se BUD	733035	BUD					
2023/07/10	08:05:08.90	0.95	1.78	48.3981	19.1000	3.6	3.0	158	0.0f		16	12	147	0.56	1.22		se ILOC	733035	ILOC				174	

(#PRIME)

(Locality: Hanisberg Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.6	3	BUD	733035
MLv	1.6	0.2	3 BUD	733035
ML	1.7	0.1	3 ILOC	733035

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU10A	0.56	185.7	Lg	08:05:29.366	-0.1					T__				___		733040	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU03A	0.60	145.7	Lg	08:05:30.844	0.4					T__				___		733041	FDSN	Z6	00	BUD	BUD	HHN	???	_	
PSZI	0.72	131.8	I	08:09:01.011	-5.6	310.5	-1.9	337.80	5.0	TA__				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	0.72	131.8	Lg	08:05:34.543	-0.6					T__				___		733038	FDSN	GE	--	BUD	BUD	HHN	???	_	
ET1H	0.73	134.9	Lg	08:05:35.184	-0.1					T__				___		733039	FDSN	HU	--	BUD	BUD	HHN	???	_	
KECS	0.93	84.2	Lg	08:05:40.582	-0.6					T__				___		733037	FDSN	SK	--	BUD	BUD	EHN	???	_	
CP17A	0.96	100.2	Pn	08:05:30.614	2.2					T__		58.4		___	ML	1.8	733043	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_

```

CP17A 0.96 100.2 Lg 08:05:42.866 0.4 T__ 733045 FDSN Z6 00 BUD BUD HHN ??? _
(Reading ML: 1.8 magdef=1
(Station ML: 1.8 magdef=1
JOS 0.96 83.6 Pg 08:05:28.468 0.5 T__ 26.2 ___ ML 1.5 733042 FDSN Z6 -- BUD BUD HHZ HHZ _
JOS 0.96 83.6 Lg 08:05:41.947 -0.5 T__ ___ 733036 FDSN Z6 -- BUD BUD HHN ??? _
(Reading ML: 1.5 magdef=1
(Station ML: 1.5 magdef=1
HU02A 0.99 105.6 Lg 08:05:43.752 -0.5 T__ 733046 FDSN Z6 00 BUD BUD HHN ??? _
JAVC 1.05 296.5 Pg 08:05:30.437 0.1 T__ 41.2 ___ ML 1.7 733044 FDSN CZ -- BUD BUD HHZ HHZ _
JAVC 1.05 296.5 Lg 08:05:45.245 -1.1 T__ ___ 733047 FDSN CZ -- BUD BUD HHN ??? _
(Reading ML: 1.7 magdef=1
(Station ML: 1.7 magdef=1
CSKK 1.18 208.9 Sn 08:05:49.664 -0.1 T__ 733048 FDSN HU -- BUD BUD HHN ??? _
MODS 1.22 269.5 Sn 08:05:49.725 -1.3 T__ ___ 733049 FDSN SK -- BUD BUD HHN ??? _

```

```

STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

```

Event bud2023nlnf Romania

```

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2023/07/11 07:08:01.95 0.55 0.96 46.1281 23.2166 8.4 4.1 79 0.0A 0.0 6 4 177 0.33 0.80 m se BUD 733069 BUD
2023/07/11 07:08:00.30 0.85 2.10 46.1789 23.1994 6.5 3.7 61 0.0f 8 5 179 0.36 2.85 se ILOC 733069 ILOC 229
(#PRIME)
(Locality: Rosia-Poieni Romania)

```

```

Magnitude Err Nsta Author OrigID
M 1.5 2 BUD 733069
MLv 1.5 0.0 2 BUD 733069
ML 1.5 0.1 2 ILOC 733069

```

```

Sta 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 0.36 215.0 Lg 07:08:12.689 0.4 T__ 733072 FDSN RO -- BUD BUD HHN ??? _
DRGR 0.70 331.3 Pn 07:08:18.055 0.6 T__ 36.1 ___ ML 1.4 733070 FDSN RO -- BUD BUD HHZ HHZ _
DRGR 0.70 331.3 Lg 07:08:24.698 -1.1 T__ ___ 733071 FDSN RO -- BUD BUD HHN ??? _
(Reading ML: 1.4 magdef=1
(Station ML: 1.4 magdef=1
LOT 0.83 151.2 Lg 07:08:27.083 -1.4 T__ 733075 FDSN RO -- BUD BUD HHN ??? _
GZR 0.84 200.8 Pg 07:08:16.948 0.6 T__ 36.4 ___ ML 1.5 733074 FDSN RO -- BUD BUD HHZ HHZ _
GZR 0.84 200.8 Lg 07:08:26.997 -1.2 T__ ___ 733073 FDSN RO -- BUD BUD HHN ??? _
(Reading ML: 1.5 magdef=1
(Station ML: 1.5 magdef=1
PSZI 2.85 308.8 I 07:25:52.512 -4.1 123.7 -2.7 320.00 -63.0 TA_ ___ 111111 FDSN HU -- BUD BUD ??? ??? _

```

```

STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

```

Event bud2023nnrz Romania

```

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2023/07/12 11:48:33.79 0.36 0.63 46.3594 23.1692 5.5 3.6 94 0.0A 0.0 10 6 115 0.46 1.30 m se BUD 733099 BUD
2023/07/12 11:48:31.95 0.93 2.50 46.4314 23.1280 6.3 3.9 45 0.0f 12 7 106 0.43 2.66 se ILOC 733099 ILOC 193
(#PRIME)
(Locality: Rosia-Poieni Romania)

```

```

Magnitude Err Nsta Author OrigID
M 1.8 4 BUD 733099
MLv 1.8 0.3 4 BUD 733099
ML 1.7 0.2 4 ILOC 733099

```



Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
CJR	0.43	48.8	Sb	11:48:48.989	-0.5					T__						733104	FDSN	RO	--	BUD	BUD	HHN	???	_	
DRGR	0.46	321.6	Pb	11:48:43.690	0.7					T__		64.7		___	ML	1.4	733101	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DRGR	0.46	321.6	Sb	11:48:51.014	0.6					T__				___		733100	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									
DEV	0.57	196.0	Lg	11:48:50.607	0.3					T__						733105	FDSN	RO	--	BUD	BUD	HHN	???	_	
GZR	1.07	193.4	Pg	11:48:51.885	-0.5					T__		41.0		___	ML	1.7	733108	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
GZR	1.07	193.4	Lg	11:49:06.533	0.3					T__				___		733109	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
LOT	1.08	155.3	Pg	11:48:52.140	-0.5					T__		229.7		___	ML	2.5	733107	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
LOT	1.08	155.3	Sb	11:49:06.789	-1.5					T__				___		733106	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.5 magdef=1)																									
(Station ML: 2.5 magdef=1)																									
BZS	1.33	232.8	Pg	11:48:57.487	0.0					T__		29.7		___	ML	1.7	733102	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
BZS	1.33	232.8	Lg	11:49:15.713	1.0					T__				___		733103	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
PSZI	2.66	305.2	I	12:05:10.656	-7.1	121.5	-1.3	322.10	-70.7	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023nnse Austria

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/07/12	11:54:27.84	0.47	0.56	47.8540	16.0360	9.5	4.3	43	0.0A	0.0	5	3	171	0.14	1.23	m	se BUD	733129	BUD			
2023/07/12	11:54:16.08	2.83	0.35	47.5249	15.4801	20.2	11.9	74	0.0f		6	4	300	0.48	3.01		se ILOC	733129	ILOC			311

(#PRIME)  
(Localcity: Durnbachtal Austria)

Magnitude	Err	Nsta	Author	OrigID
M	0.8	1	BUD	733129
MLv	0.8	0.0	1	BUD

Sta	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	0.48	32.4	Pn	11:54:29.978	-0.2					T__		123.9		___	ML	1.7	733130	FDSN	OE	--	BUD	BUD	HHZ	HHZ	_
CONA	0.48	32.4	Lg	11:54:32.320	0.2					T__				___		733131	FDSN	OE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=0)																									
RONA	0.58	72.1	Pn	11:54:31.809	0.2					T__				___		733133	FDSN	OE	--	BUD	BUD	HHZ	???	_	
RONA	0.58	72.1	Lg	11:54:35.471	-0.2					T__				___		733132	FDSN	OE	--	BUD	BUD	HHN	???	_	
KRUC	1.66	21.3	Sn	11:55:07.281	-0.5					T__				___		733134	FDSN	CZ	--	BUD	BUD	HHN	???	_	
PSZI	3.01	80.9	I	12:09:44.928	-999	261.7	-2.4	321.10	-55.6	_A				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023npqc Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/07/13	13:07:58.38	0.37	0.32	47.8453	19.1198	11.2	2.8	164	0.0A	0.0	11	10	152	0.07	1.27	m	kx BUD	733154	BUD			
2023/07/13	13:07:56.36			47.8355	19.1270				0.0								kx BUD_GT	1	BUD			
2023/07/13	13:07:56.36	0.96	0.87	47.8557	19.1521	3.1	2.6	87	0.0f		13	11	151	0.09	1.29		kx ILOC	733154	ILOC			176

(#PRIME)  
(Localcity: Sejce-Vác Hungary)  
(GT info : GT2 explosion)

Magnitude Err Nsta Author OrigID  
M 1.9 1 BUD 733154  
MLv 1.9 0.0 1 BUD 733154

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
HU10A	0.09	263.4	Pg	13:07:59.148	0.5					T__		2466.6		ML	1.9	733155	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU10A	0.09	263.4	Lg	13:07:59.989	-0.8					T__						733156	FDSN	Z6	00	BUD	BUD	HHN	???	_
(Reading ML: 1.9 magdef=1)																								
(Station ML: 1.9 magdef=0)																								
HU03A	0.31	80.8	Lg	13:08:08.484	0.4					T__						733157	FDSN	Z6	00	BUD	BUD	HHN	???	_
ET1H	0.48	87.0	Lg	13:08:14.311	-0.1					T__						733158	FDSN	HU	--	BUD	BUD	HHN	???	_
PSZI	0.50	82.6	I	13:10:42.367	1.9	264.8	1.6	315.50	-16.6	TA__						111111	FDSN	HU	--	BUD	BUD	???	???	_
PSZ	0.50	82.6	Lg	13:08:14.937	-0.5					T__						733159	FDSN	GE	--	BUD	BUD	HHN	???	_
HU02A	0.96	73.4	Lg	13:08:30.213	-1.2					T__						733160	FDSN	Z6	00	BUD	BUD	HHN	???	_
CP17A	0.98	67.8	Lg	13:08:30.632	-0.8					T__						733161	FDSN	Z6	00	BUD	BUD	HHN	???	_
CP16A	1.05	61.9	Sn	13:08:33.311	-0.2					T__						733162	FDSN	Z6	00	BUD	BUD	HHN	???	_
KECS	1.09	54.4	Sn	13:08:34.696	-0.1					T__						733163	FDSN	SK	--	BUD	BUD	EHN	???	_
JOS	1.13	54.9	Sn	13:08:35.272	-0.4					T__						733164	FDSN	Z6	--	BUD	BUD	HHN	???	_
MPLH	1.29	238.5	Sn	13:08:39.267	-0.5					T__						733165	FDSN	HU	--	BUD	BUD	HHN	???	_

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023nrah Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/07/14	07:25:23.20	1.01	0.21	47.9601	20.3856	16.5	3.3	140	0.0A	0.0	12	7	227	0.19	0.55	m	se BUD	733253	BUD			
2023/07/14	07:25:23.47	1.58	0.38	47.9857	20.3647	14.0	3.8	151	0.0f		13	8	214	0.17	0.52	se	ILOC	733253	ILOC			229

(#PRIME)  
(Locality: Eger Hungary)

Magnitude Err Nsta Author OrigID  
M 1.2 6 BUD 733253  
MLv 1.2 0.2 6 BUD 733253  
ML 1.2 0.1 6 ILOC 733253

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
HU02A	0.17	38.2	Pg	07:25:26.678	-0.1					T__		265.9		ML	1.2	733255	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.17	38.2	Lg	07:25:28.988	-0.1					T__						733257	FDSN	Z6	00	BUD	BUD	HHN	???	_
(Reading ML: 1.2 magdef=1)																								
(Station ML: 1.2 magdef=1)																								
CP17A	0.25	22.7	Pg	07:25:28.403	0.1					T__		144.8		ML	1.2	733254	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
CP17A	0.25	22.7	Lg	07:25:31.607	-0.0					T__						733258	FDSN	Z6	00	BUD	BUD	HHN	???	_
(Reading ML: 1.2 magdef=1)																								
(Station ML: 1.2 magdef=1)																								
PSZ	0.32	258.1	Pg	07:25:30.127	0.5					T__		48.0		ML	0.9	733256	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.32	258.1	Sg	07:25:33.545	-0.3					T__						733259	FDSN	GE	--	BUD	BUD	HHN	???	_
(Reading ML: 0.9 magdef=1)																								
(Station ML: 0.9 magdef=0)																								
PSZI	0.32	258.1	I	07:27:07.433	-0.7	72.9	-4.8	357.90	23.5	T__						111111	FDSN	HU	--	BUD	BUD	???	???	_
ET1H	0.35	252.4	Sg	07:25:33.990	-0.7					T__						733260	FDSN	HU	--	BUD	BUD	HHN	???	_
CP16A	0.38	18.1	Pg	07:25:30.883	0.2					T__		79.7		ML	1.2	733261	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
CP16A	0.38	18.1	Lg	07:25:35.642	0.1					T__						733262	FDSN	Z6	00	BUD	BUD	HHN	???	_
(Reading ML: 1.2 magdef=1)																								
(Station ML: 1.2 magdef=1)																								
KECS	0.50	9.2	Pg	07:25:33.417	0.3					T__		143.3		ML	1.9	733263	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
(Reading ML: 1.9 magdef=1)																								
(Station ML: 1.9 magdef=0)																								
JOS	0.52	12.8	Pg	07:25:33.465	-0.0					T__		20.3		ML	1.1	733264	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	_

JOS 0.52 12.8 Lg 07:25:40.390 0.1 T\_\_ 733265 FDSN Z6 -- BUD BUD HHN ??? \_  
 (Reading ML: 1.1 magdef=1  
 (Station ML: 1.1 magdef=1

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023nrbl 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
2023/07/14	08:00:58.59	0.78	0.48	48.4959	17.5968	11.0	3.8	118	0.0A	0.0	8	6	220	0.25	1.29	m	se BUD	733292	BUD			
2023/07/14	08:00:57.49	1.41	1.04	48.5025	17.5641	13.4	3.3	119	0.0f		9	7	115	0.23	1.66		se ILOC	733292	ILOC			214

(#PRIME)  
 (Locality: Boleraz Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.2	1	BUD	733292
MLv	1.2	0.0	1 BUD	733292

Sta	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	0.23	236.1	Pg	08:01:02.980	0.3					T__						733293	FDSN	SK	--	BUD	BUD	HHZ	???	_	
MODS	0.23	236.1	Lg	08:01:05.131	-1.8					T__						733296	FDSN	SK	--	BUD	BUD	HHN	???	_	
JAVC	0.36	11.2	Pg	08:01:05.833	0.5					T__		77.7			ML	1.2	733294	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	_
JAVC	0.36	11.2	Lg	08:01:09.943	-1.5					T__						733297	FDSN	CZ	--	BUD	BUD	HHN	???	_	

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

ZST	0.43	225.3	Lg	08:01:13.387	-0.2					T__						733298	FDSN	SK	--	BUD	BUD	HHN	???	_
KRUC	0.95	306.3	Lg	08:01:30.246	0.4					T__						733299	FDSN	CZ	--	BUD	BUD	HHN	???	_
RONA	1.17	227.1	Lg	08:01:36.315	0.5					T__						733300	FDSN	OE	--	BUD	BUD	HHN	???	_
CONA	1.28	243.9	Sn	08:01:40.283	-0.4					T__						733295	FDSN	OE	--	BUD	BUD	HHN	???	_
PSZI	1.66	109.7	I	08:09:31.473	-999	292.8	1.4	325.20	-69.1	_A						111111	FDSN	HU	--	BUD	BUD	???	???	_

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023nrcg Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/07/14	08:24:49.89	0.41	0.48	48.5881	21.4398	9.0	3.3	150	0.0A	0.0	10	8	156	0.32	1.23	m	se BUD	733366	BUD			
2023/07/14	08:24:48.55	0.70	0.97	48.5479	21.4220	4.4	3.7	152	0.0f		11	9	150	0.28	1.20		se ILOC	733366	ILOC			300

(#PRIME)  
 (Locality: Slanec Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.4	1	BUD	733366
MLv	1.4	0.0	1 BUD	733366

Sta	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	0.28	205.8	Lg	08:24:59.533	-0.1					T__						733376	FDSN	HU	--	BUD	BUD	HHN	???	_	
JOS	0.59	265.2	Lg	08:25:08.931	-0.3					T__						733372	FDSN	Z6	--	BUD	BUD	HHN	???	_	
CP16A	0.62	251.0	Lg	08:25:11.461	1.0					T__						733373	FDSN	Z6	00	BUD	BUD	HHN	???	_	
KECS	0.63	264.4	Lg	08:25:09.921	-0.6					T__						733369	FDSN	SK	--	BUD	BUD	EHN	???	_	
KOLS	0.68	55.3	Pg	08:25:02.677	1.0					T__						733370	FDSN	SK	--	BUD	BUD	HHZ	???	_	
KOLS	0.68	55.3	Lg	08:25:10.683	-2.2					T__						733371	FDSN	SK	--	BUD	BUD	HHN	???	_	
CP17A	0.69	241.9	Lg	08:25:13.083	0.1					T__						733374	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU02A	0.73	234.9	Pg	08:25:03.789	0.0					T__		27.8			ML	1.4	733367	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.73	234.9	Lg	08:25:14.776	-0.5					T__						733368	FDSN	Z6	00	BUD	BUD	HHN	???	_	

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

```

PSZ 1.20 238.9 Sn 08:25:29.769 -0.4 T__
PSZI 1.20 238.9 I 08:29:55.409 -999 63.5 5.7 346.40 -9.2 A__

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023nyhh Hungary

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Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2023/07/18 06:54:34.78 0.86 0.44 47.8162 20.1620 10.9 3.0 161 0.0A 0.0 14 9 227 0.21 0.87 m kx BUD 733403 BUD
2023/07/18 06:54:34.31 47.8987 20.0893 0.0 kx BUD_GT 1 BUD
2023/07/18 06:54:34.31 1.22 1.40 47.8922 20.1079 9.8 2.7 163 0.0f 15 10 203 0.15 0.86 kx ILOC 733403 ILOC 214
(#PRIME)
(Localoty: Recsk Hungary)
(GT info : GT2 explosion)

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```

Magnitude Err Nsta Author OrigID
M 2.0 3 BUD 733403
MLv 2.0 0.2 3 BUD 733403
ML 2.1 0.1 5 ILOC 733403

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Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude ArrID Agy Deploy Ln Auth Rep PCh Ach L
PSZ 0.15 280.4 Pg 06:54:38.112 0.1 T__ 2236.0 ___ ML 2.1 733404 FDSN GE -- BUD BUD HHZ HHZ _
PSZ 0.15 280.4 Lg 06:54:40.848 -0.3 T__ ___ 733409 FDSN GE -- BUD BUD HHN ??? _
(Reading ML: 2.1 magdef=1
(Station ML: 2.1 magdef=1
PSZI 0.15 280.2 I 06:55:17.474 -3.9 98.1 -1.9 347.90 9.6 T__ ___ 111111 FDSN HU -- BUD BUD ??? ??? _
ET1H 0.16 265.4 Pg 06:54:38.346 0.2 T__ ___ 794.3 ___ ML 1.6 733405 FDSN HU -- BUD BUD HHZ HHZ _
ET1H 0.16 265.4 Lg 06:54:41.273 0.0 T__ ___ 733410 FDSN HU -- BUD BUD HHN ??? _
(Reading ML: 1.6 magdef=1
(Station ML: 1.6 magdef=0
HU03A 0.34 272.1 Lg 06:54:47.661 0.4 T__ ___ 733411 FDSN Z6 00 BUD BUD HHN ??? _
HU02A 0.36 50.4 Pg 06:54:42.114 -0.1 T__ ___ 299.3 ___ ML 1.8 733406 FDSN Z6 00 BUD BUD HHZ HHZ _
HU02A 0.36 50.4 Lg 06:54:47.629 -0.8 T__ ___ 733412 FDSN Z6 00 BUD BUD HHN ??? _
(Reading ML: 1.8 magdef=1
(Station ML: 1.8 magdef=1
CP17A 0.42 39.4 Pg 06:54:43.775 0.7 T__ ___ 462.3 ___ ML 2.1 733407 FDSN Z6 00 BUD BUD HHZ HHZ _
CP17A 0.42 39.4 Lg 06:54:49.801 0.0 T__ ___ 733413 FDSN Z6 00 BUD BUD HHN ??? _
(Reading ML: 2.1 magdef=1
(Station ML: 2.1 magdef=1
CP16A 0.54 32.6 Pg 06:54:46.075 0.9 T__ ___ 370.9 ___ ML 2.4 733408 FDSN Z6 00 BUD BUD HHZ HHZ _
CP16A 0.54 32.6 Lg 06:54:53.378 -0.1 T__ ___ 733414 FDSN Z6 00 BUD BUD HHN ??? _
(Reading ML: 2.4 magdef=1
(Station ML: 2.4 magdef=0
KECS 0.64 23.0 Lg 06:54:56.505 -0.6 T__ ___ 733415 FDSN SK -- BUD BUD EHN ??? _
JOS 0.67 25.4 Lg 06:54:57.981 0.0 T__ ___ 733416 FDSN Z6 -- BUD BUD HHN ??? _
ABAH 0.86 61.5 Lg 06:55:03.002 -2.3 T__ ___ 733417 FDSN HU -- BUD BUD HHN ??? _

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023nykl Hungary

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Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2023/07/18 08:29:58.59 0.33 0.53 47.3549 18.3672 4.5 2.9 164 0.0A 0.0 13 10 108 0.07 1.45 m se BUD 733449 BUD
2023/07/18 08:29:56.77 1.08 0.67 47.3779 18.3650 5.5 4.3 137 0.0f 14 11 107 0.07 1.44 se ILOC 733449 ILOC 186
(#PRIME)
(Localoty: Gánt Hungary)

```

Magnitude Err Nsta Author OrigID  
M 1.7 3 BUD 733449  
MLv 1.7 0.2 3 BUD 733449  
ML 1.8 0.2 3 ILOC 733449

Sta	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	258.3	Pg	08:29:59.116	0.2					T		2548.9			ML	1.9	733450	FDSN	HU	--	BUD	BUD	HHZ	HHZ	-
CSKK	0.07	258.3	Lg	08:30:00.755	-0.3					T						733451	FDSN	HU	--	BUD	BUD	HHN	???	-	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
HU09A	0.26	2.6	Lg	08:30:07.242	-0.2					T						733460	FDSN	Z6	00	BUD	BUD	HHN	???	-	
HU08A	0.30	280.3	Lg	08:30:08.907	0.1					T						733461	FDSN	Z6	00	BUD	BUD	HHN	???	-	
MPLH	0.60	250.0	Lg	08:30:17.672	-0.6					T						733452	FDSN	HU	--	BUD	BUD	HHN	???	-	
HU10A	0.64	43.2	Lg	08:30:20.397	-0.3					T						733453	FDSN	Z6	00	BUD	BUD	HHN	???	-	
ET1H	1.14	63.2	Pn	08:30:19.545	0.7					T		22.0			ML	1.5	733455	FDSN	HU	--	BUD	BUD	HHZ	HHZ	-
ET1H	1.14	63.2	Sn	08:30:35.131	-1.2					T						733454	FDSN	HU	--	BUD	BUD	HHN	???	-	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									
PSZI	1.17	61.8	I	08:36:07.931	-36.4	242.4	-0.6	317.20	-35.8	A						111111	FDSN	HU	--	BUD	BUD	???	???	-	
PSZ	1.17	61.8	Pn	08:30:20.227	0.8					T		45.3			ML	1.8	733456	FDSN	GE	--	BUD	BUD	HHZ	HHZ	-
PSZ	1.17	61.8	Sn	08:30:36.834	-0.7					T						733457	FDSN	GE	--	BUD	BUD	HHN	???	-	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
MORH	1.18	170.6	Sn	08:30:36.068	-0.9					T						733458	FDSN	HU	--	BUD	BUD	HHN	???	-	
MODS	1.24	324.1	Sn	08:30:38.609	-0.6					T						733462	FDSN	SK	--	BUD	BUD	HHN	???	-	
RONA	1.44	283.7	Lg	08:30:43.733	-0.2					T						733459	FDSN	OE	--	BUD	BUD	HHE	???	-	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023nmyy 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
2023/07/18	09:45:35.09	0.31	0.67	48.4057	17.2388	4.3	3.1	96	0.0A	0.0	12	7	109	0.04	1.04	m	se BUD	733488	BUD			
2023/07/18	09:45:32.39	0.96	0.84	48.4511	17.2068	8.3	4.5	116	0.0f		13	8	78	0.09	1.88		se ILOC	733488	ILOC			130

(#PRIME)  
(Locality: Solosnica Slovakia)

Magnitude Err Nsta Author OrigID  
M 2.0 2 BUD 733488  
MLv 2.0 0.2 2 BUD 733488  
ML 2.0 0.2 2 ILOC 733488

Sta	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	0.09	148.8	Pg	09:45:35.471	0.6					T						733489	FDSN	SK	--	BUD	BUD	HHZ	???	-	
MODS	0.09	148.8	Lg	09:45:36.544	-0.6					T						733495	FDSN	SK	--	BUD	BUD	HHN	???	-	
ZST	0.26	195.3	Pg	09:45:38.878	0.7					T						733490	FDSN	SK	--	BUD	BUD	HHZ	???	-	
ZST	0.26	195.3	Lg	09:45:42.543	-0.2					T						733496	FDSN	SK	--	BUD	BUD	HHN	???	-	
JAVC	0.51	36.8	Pn	09:45:45.713	-1.2					T		235.9			ML	2.1	733492	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	-
JAVC	0.51	36.8	Lg	09:45:52.228	0.8					T						733491	FDSN	CZ	--	BUD	BUD	HHN	???	-	
(Reading ML: 2.1 magdef=1)																									
(Station ML: 2.1 magdef=1)																									
KRUC	0.81	319.0	Pn	09:45:50.865	0.4					T		75.1			ML	1.8	733493	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	-
KRUC	0.81	319.0	Sn	09:46:03.513	-0.7					T						733494	FDSN	CZ	--	BUD	BUD	HHN	???	-	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
VRAC	0.95	335.0	Sn	09:46:07.540	-0.1					T						733499	FDSN	CZ	--	BUD	BUD	HHN	???	-	
RONA	0.97	219.4	Pg	09:45:51.831	0.2					T						733498	FDSN	OE	--	BUD	BUD	HHZ	???	-	
RONA	0.97	219.4	Sn	09:46:06.207	-1.6					T						733497	FDSN	OE	--	BUD	BUD	HHN	???	-	
CONA	1.04	240.3	Sn	09:46:09.159	-0.6					T						733500	FDSN	OE	--	BUD	BUD	HHN	???	-	

PSZI 1.88 105.5 I 09:55:31.744 -999 286.9 -0.6 322.20 -85.2 A\_ 111111 FDSN HU -- BUD BUD ??? ?? \_

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023nyxv Hungary

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp  
2023/07/18 15:15:40.53 0.35 0.48 47.3049 17.6937 4.1 3.7 177 0.0A 0.0 11 8 97 0.17 1.48 m se BUD 733524 BUD  
2023/07/18 15:15:39.06 0.59 1.25 47.3110 17.7066 4.2 3.9 60 0.0f 12 9 82 0.18 1.60 se ILOC 733524 ILOC 152  
(#PRIME)  
(Locality: Ugod Hungary)

Magnitude Err Nsta Author OrigID  
M 1.7 3 BUD 733524  
MLv 1.7 0.1 3 BUD 733524  
ML 1.6 0.0 3 ILOC 733524

Sta 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 0.18 219.0 Pg 15:15:42.732 -0.6 T\_ 648.3 ML 1.6 733525 FDSN HU -- BUD BUD HHZ HHZ \_  
MPLH 0.18 219.0 Lg 15:15:46.064 -0.8 T\_ 733528 FDSN HU -- BUD BUD HHN ??? \_  
(Reading ML: 1.6 magdef=1  
(Station ML: 1.6 magdef=1  
HU08A 0.19 50.7 Pg 15:15:44.222 0.8 T\_ 615.7 ML 1.6 733527 FDSN Z6 00 BUD BUD HHZ HHZ \_  
HU08A 0.19 50.7 Lg 15:15:46.767 -0.5 T\_ 733529 FDSN Z6 00 BUD BUD HHN ??? \_  
(Reading ML: 1.6 magdef=1  
(Station ML: 1.6 magdef=1  
EGYH 0.28 292.7 Pg 15:15:45.351 0.2 T\_ 662.6 ML 1.9 733526 FDSN HU -- BUD BUD HHZ HHZ \_  
EGYH 0.28 292.7 Lg 15:15:48.917 -1.1 T\_ 733530 FDSN HU -- BUD BUD HHN ??? \_  
(Reading ML: 1.9 magdef=1  
(Station ML: 1.9 magdef=1  
RONA 1.03 292.6 Lg 15:16:13.613 0.4 T\_ 733531 FDSN OE -- BUD BUD HHN ??? \_  
MODS 1.10 344.9 Sn 15:16:16.277 -1.7 T\_ 733532 FDSN SK -- BUD BUD HHN ??? \_  
MORH 1.27 149.2 Sn 15:16:21.411 0.0 T\_ 733533 FDSN HU -- BUD BUD HHN ??? \_  
CONA 1.39 297.0 Lg 15:16:24.508 0.1 T\_ 733534 FDSN OE -- BUD BUD HHN ??? \_  
ARSA 1.49 268.5 Sn 15:16:29.142 2.8 T\_ 733535 FDSN OE -- BUD BUD HHN ??? \_  
PSZI 1.60 66.9 I 15:24:18.203 -68.4 252.6 4.1 314.70 -74.6 A\_ 111111 FDSN HU -- BUD BUD ??? ??? \_

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023odzx 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  
2023/07/21 10:00:23.55 0.61 0.80 48.6447 20.8971 6.2 4.5 77 0.0A 0.0 10 7 172 0.28 0.99 m se BUD 733614 BUD  
2023/07/21 10:00:22.34 1.04 0.74 48.6062 20.9131 6.4 3.3 49 0.0f 11 8 171 0.27 0.97 se ILOC 733614 ILOC 258  
(#PRIME)  
(Locality: Dvorniky-Vcelare Slovakia)

Magnitude Err Nsta Author OrigID  
M 1.4 3 BUD 733614  
MLv 1.4 0.2 3 BUD 733614  
ML 1.5 0.2 3 ILOC 733614

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude ArrID Agy Deploy Ln Auth Rep PCh Ach L  
JOS 0.27 246.2 Pg 10:00:28.356 0.4 T\_ 116.6 ML 1.1 733615 FDSN Z6 -- BUD BUD HHZ HHZ \_  
JOS 0.27 246.2 Lg 10:00:31.442 -0.8 T\_ 733616 FDSN Z6 -- BUD BUD HHN ??? \_  
(Reading ML: 1.1 magdef=1  
(Station ML: 1.1 magdef=1

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KECS 0.31 246.7 Pg 10:00:29.087 0.4 T__ 206.2 ___ ML 1.5 733617 FDSN SK -- BUD BUD EHZ EHZ _
KECS 0.31 246.7 Lg 10:00:33.140 -0.4 T__ ___ 733618 FDSN SK -- BUD BUD EHN ??? _
(Reading ML: 1.5 magdef=1
(Station ML: 1.5 magdef=1
ABAH 0.38 144.9 Lg 10:00:36.701 -0.1 T__ ___ 733621 FDSN HU -- BUD BUD HHN ??? _
CP17A 0.47 214.8 Lg 10:00:40.206 1.0 T__ ___ 733619 FDSN Z6 00 BUD BUD HHE ??? _
HU02A 0.55 208.3 Lg 10:00:41.229 -1.4 T__ ___ 733620 FDSN Z6 00 BUD BUD HHN ??? _
NIE 0.91 333.8 Lg 10:00:51.965 -0.4 T__ ___ 733622 FDSN PL -- BUD BUD BHN ??? _
PSZ 0.97 225.1 Pn 10:00:42.178 -0.1 T__ 37.3 ___ ML 1.6 733624 FDSN GE -- BUD BUD HHZ HHZ _
PSZ 0.97 225.1 Lg 10:00:57.297 0.2 T__ ___ 733623 FDSN GE -- BUD BUD HHN ??? _
(Reading ML: 1.6 magdef=1
(Station ML: 1.6 magdef=1
PSZI 0.97 225.1 I 10:07:07.414 74.9 46.6 2.3 356.40 15.9 _A_ ___ 111111 FDSN HU -- BUD BUD ??? ??? _

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023olah Austria

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/07/25	06:08:39.23	0.59	0.47	47.3517	16.3192	8.5	4.1	96	0.0A	0.0	7	4	185	0.35	0.91	m	se BUD	733671	BUD			
2023/07/25	06:08:38.69	1.04	0.63	47.3604	16.3484	10.0	4.5	93	0.0f		8	5	108	0.34	2.46		se ILOC	733671	ILOC			190

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(#PRIME)
(Locality: Unterkohlstatten Austria)
Magnitude Err Nsta Author OrigID
M 1.6 2 BUD 733671
MLv 1.6 0.1 2 BUD 733671
ML 1.6 0.2 2 ILOC 733671

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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		
RONA	0.34	354.1	Pg	06:08:45.393	-0.4					T__						733673	FDSN	OE	--	BUD	BUD	HHZ	???	_		
RONA	0.34	354.1	Lg	06:08:50.230	-0.5					T__						733675	FDSN	OE	--	BUD	BUD	HHN	???	_		
ARSA	0.57	259.2	Pg	06:08:49.652	-0.1					T__		77.4			1.7	733674	FDSN	OE	--	BUD	BUD	HHZ	HHZ	_		
ARSA	0.57	259.2	Lg	06:08:56.788	-0.2					T__						733676	FDSN	OE	--	BUD	BUD	HHN	???	_		
(Reading ML: 1.7 magdef=1 (Station ML: 1.7 magdef=1																										
CONA	0.66	330.1	Pg	06:08:52.803	1.0					T__		42.4			1.5	733672	FDSN	OE	--	BUD	BUD	HHZ	HHZ	_		
CONA	0.66	330.1	Lg	06:08:59.769	-0.7					T__						733677	FDSN	OE	--	BUD	BUD	HHN	???	_		
(Reading ML: 1.5 magdef=1 (Station ML: 1.5 magdef=1																										
KOGS	0.92	184.3	Lg	06:09:08.456	-0.1					T__						733678	FDSN	SL	--	BUD	BUD	BHN	???	_		
PSZI	2.46	75.6	I	06:21:53.141	-999	257.5	-0.7	320.80	-82.2	_A_						111111	FDSN	HU	--	BUD	BUD	???	???	_		

```

STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023olao Austria

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2023/07/25	06:17:02.84	0.29	0.73	47.3331	16.3580	3.8	3.3	90	0.0A	0.0	14	8	83	0.23	1.21	m	se BUD	733708	BUD				
2023/07/25	06:17:01.67	0.44	0.46	47.3536	16.4087	4.5	3.5	75	0.0f		15	9	77	0.21	2.42		se ILOC	733708	ILOC			151	

```

(#PRIME)
(Locality: Unterkohlstatten Austria)
Magnitude Err Nsta Author OrigID
M 1.6 6 BUD 733708
MLv 1.6 0.2 6 BUD 733708
ML 1.5 0.1 6 ILOC 733708

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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	
A260A	0.21	109.1	Pg	06:17:06.529	0.1					T__		770.0			ML	1.8	733709	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
A260A	0.21	109.1	Lg	06:17:10.149	0.2					T__						733710	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
SOP	0.35	17.0	Pg	06:17:08.632	-0.2					T__		50.7			ML	1.0	733712	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
SOP	0.35	17.0	Lg	06:17:14.317	0.4					T__						733718	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.0 magdef=1)																									
(Station ML: 1.0 magdef=0)																									
RONA	0.35	347.6	Pg	06:17:09.452	0.4					T__						733711	FDSN	OE	--	BUD	BUD	HHZ	???	_	
RONA	0.35	347.6	Lg	06:17:14.242	0.1					T__						733717	FDSN	OE	--	BUD	BUD	HHN	???	_	
ARSA	0.61	260.6	Pg	06:17:14.040	0.5					T__		46.2			ML	1.5	733713	FDSN	OE	--	BUD	BUD	HHZ	HHZ	_
ARSA	0.61	260.6	Lg	06:17:21.428	0.2					T__						733719	FDSN	OE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									
CONA	0.68	327.5	Pn	06:17:17.447	-1.1					T__		40.7			ML	1.5	733714	FDSN	OE	--	BUD	BUD	HHZ	HHZ	_
CONA	0.68	327.5	Lg	06:17:24.281	-0.0					T__						733720	FDSN	OE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									
MPLH	0.79	103.0	Pn	06:17:19.043	-0.2					T__		42.6			ML	1.6	733721	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
KOGS	0.91	186.9	Pg	06:17:19.576	-0.0					T__		89.1			ML	2.0	733715	FDSN	SL	--	BUD	BUD	BHZ	BHZ	_
KOGS	0.91	186.9	Lg	06:17:31.329	-0.1					T__						733716	FDSN	SL	--	BUD	BUD	BHN	???	_	
(Reading ML: 2.0 magdef=1)																									
(Station ML: 2.0 magdef=0)																									
MODS	1.18	29.5	Sn	06:17:42.678	0.7					T__						733722	FDSN	SK	--	BUD	BUD	HHN	???	_	
PSZI	2.42	75.2	I	06:30:18.592	-999	257.0	-0.8	321.80	-83.0	A__						111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023owdt Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/07/31	08:23:04.40	1.25	0.18	47.8315	19.8482	14.0	4.6	172	0.0A	0.0	9	8	230	0.09	1.04	m	se BUD	733861	BUD			
2023/07/31	08:23:02.65	1.28	1.32	47.8299	19.8489	5.3	0.5	18	0.0f		11	9	230	0.09	1.04		se ILOC	733861	ILOC			315

(#PRIME)  
(Locality: Gyöngyöstarján Hungary)

Magnitude	Err	Nsta	Author	OrigID	
M	1.6	1	BUD	733861	
MLv	1.6	0.0	1	BUD	733861

Sta	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	18.8	I	08:23:35.050	2.5	195.3	-3.6	326.80	-12.9	TA__						111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	0.09	19.1	Pg	08:23:06.162	0.8					T__		1101.8			ML	1.6	733862	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.09	19.1	Lg	08:23:07.031	-0.7					T__						733863	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=0)																									
HU03A	0.18	293.9	Lg	08:23:09.733	-0.5					T__						733864	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU02A	0.54	57.0	Lg	08:23:21.492	-1.4					T__						733865	FDSN	Z6	00	BUD	BUD	HHN	???	_	
CP17A	0.59	48.5	Lg	08:23:23.099	-0.8					T__						733866	FDSN	Z6	00	BUD	BUD	HHN	???	_	
CP16A	0.69	41.9	Lg	08:23:26.604	-0.5					T__						733867	FDSN	Z6	00	BUD	BUD	HHN	???	_	
KECS	0.78	32.9	Lg	08:23:29.453	-0.7					T__						733868	FDSN	SK	--	BUD	BUD	EHN	???	_	
JOS	0.81	34.5	Lg	08:23:30.110	-1.0					T__						733869	FDSN	Z6	--	BUD	BUD	HHN	???	_	
ABAH	1.04	62.9	Lg	08:23:38.290	-1.4					T__						733870	FDSN	HU	--	BUD	BUD	HHN	???	_	

STOP



BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023owhy Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/07/31	10:30:46.27	1.25	1.11	47.0506	22.2696	13.5	8.2	177	0.0A	0.0	9	5	293	0.40	1.91	m	se BUD	733891	BUD			
2023/07/31	10:30:45.80	0.92	1.38	47.0437	22.3286	6.7	4.0	28	0.0f		11	6	194	0.36	1.88		se ILOC	733891	ILOC			294

(#PRIME)  
(Locality: Subpiatra Romania)

Magnitude	Err	Nsta	Author	OrigID
M	1.9	4	BUD	733891
MLv	1.9	0.4	4 BUD	733891
ML	1.7	0.1	4 ILOC	733891

Sta	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	0.36	133.7	Pg	10:30:52.951	-0.3					T__		221.3			ML	1.7	733892	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DRGR	0.36	133.7	Lg	10:30:57.370	-2.0					T__						733893	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
DEV	1.23	160.9	Pg	10:31:09.823	0.7					T__		251.8			ML	2.6	733895	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DEV	1.23	160.9	Lg	10:31:27.717	1.3					T__						733894	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.6 magdef=1 Station ML: 2.6 magdef=1)																									
BZS	1.51	199.3	Pn	10:31:13.694	0.5					T__		21.5			ML	1.7	733898	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
BZS	1.51	199.3	Sn	10:31:31.661	-2.6					T__						733899	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
GZR	1.68	169.2	Pg	10:31:17.711	0.1					T__		21.1			ML	1.8	733897	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
GZR	1.68	169.2	Sn	10:31:39.111	0.2					T__						733896	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
PSZI	1.87	298.8	I	10:42:25.695	-0.4	118.4	1.4	323.10	-84.0	TA__						111111	FDSN	HU	--	BUD	BUD	???	???	_	
LOT	1.88	147.4	Sn	10:31:45.757	1.4					T__						733900	FDSN	RO	--	BUD	BUD	HHN	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023owju Ukraine - Moldova - Southwestern Russia region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2023/07/31	11:25:52.58	0.53	0.65	48.6126	22.9562	5.4	3.9	76	0.0A	0.0	15	11	167	0.55	1.69	m	se BUD	733932	BUD					
2023/07/31	11:25:52.61	1.15	1.72	48.5676	22.8677	5.3	4.5	146	0.0f		17	12	160	0.49	2.09		se ILOC	733932	ILOC					212

(#PRIME)  
(Locality: Ukraine)

Magnitude	Err	Nsta	Author	OrigID
M	2.1	3	BUD	733932
MLv	2.1	0.4	3 BUD	733932
ML	1.9	0.3	3 ILOC	733932

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
TRPA	0.49	206.7	Pg	11:26:02.757	0.4					T__		115.1			ML	1.7	733933	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
TRPA	0.49	206.7	Lg	11:26:10.391	-0.4					T__						733937	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
KOLS	0.54	313.1	Pg	11:26:04.217	1.2					T__						733934	FDSN	SK	--	BUD	BUD	HHZ	???	_	
KOLS	0.54	313.1	Lg	11:26:10.379	-1.6					T__						733938	FDSN	SK	--	BUD	BUD	HHN	???	_	
HU07A	0.87	227.7	Lg	11:26:22.988	-0.7					T__						733939	FDSN	Z6	00	BUD	BUD	HHN	???	_	

BMR	0.99	154.6	Lg	11:26:25.574	-1.8	T										733940	FDSN	RO	--	BUD	BUD	HHN	???	-	
KWP	1.07	354.4	Lg	11:26:25.421	-3.1	T										733941	FDSN	PL	--	BUD	BUD	HHN	???	-	
ABAH	1.12	256.5	Pn	11:26:13.274	-1.3	T				283.3					ML	2.6	733936	FDSN	HU	--	BUD	BUD	HHZ	HHZ	-
ABAH	1.12	256.5	Lg	11:26:30.620	-0.9	T										733935	FDSN	HU	--	BUD	BUD	HHN	???	-	
(Reading ML: 2.6 magdef=1)																									
(Station ML: 2.6 magdef=1)																									
JOS	1.55	268.2	Pn	11:26:22.596	1.9	T				37.5					ML	1.9	733943	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	-
JOS	1.55	268.2	Sn	11:26:45.383	2.6	T										733942	FDSN	Z6	--	BUD	BUD	HHN	???	-	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
CP16A	1.57	262.6	Sn	11:26:44.199	1.3	T										733944	FDSN	Z6	00	BUD	BUD	HHN	???	-	
KECS	1.59	267.8	Sn	11:26:46.162	2.5	T										733945	FDSN	SK	--	BUD	BUD	EHN	???	-	
CP17A	1.61	258.4	Sn	11:26:43.961	0.1	T										733946	FDSN	Z6	00	BUD	BUD	HHN	???	-	
HU02A	1.63	255.0	Sn	11:26:45.318	0.4	T										733947	FDSN	Z6	00	BUD	BUD	HHN	???	-	
PSZI	2.09	253.0	I	11:39:01.430	-1.5	69.9	-0.9	339.10	-73.6	TA						111111	FDSN	HU	--	BUD	BUD	???	???	-	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023pbsh Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2023/08/03	09:24:24.22	0.36	0.44	47.3897	18.3350	5.0	3.3	130	0.0A	0.0	8	7	106	0.06	1.31	m	se BUD	734007	BUD				
2023/08/03	09:24:23.85	1.02	0.37	47.3855	18.3312	6.2	4.6	90	0.0f		9	8	106	0.05	1.31		se ILOC	734007	ILOC			125	
(#PRIME)																							
(Locality: Magyaralmás Hungary)																							

Magnitude	Err	Nsta	Author	OrigID	
M	1.6	1	BUD	734007	
MLv	1.6	0.0	1	BUD	734007

Sta	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	0.05	245.0	Pg	09:24:24.732	-0.1					T		1462.0			ML	1.6	734008	FDSN	HU	--	BUD	BUD	HHZ	HHZ	-
CSKK	0.05	245.0	Lg	09:24:25.531	-0.0					T						734011	FDSN	HU	--	BUD	BUD	HHN	???	-	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=0)																									
HU09A	0.26	7.8	Lg	09:24:31.776	-0.3					T						734012	FDSN	Z6	00	BUD	BUD	HHN	???	-	
HU08A	0.28	279.6	Lg	09:24:33.018	0.1					T						734013	FDSN	Z6	00	BUD	BUD	HHN	???	-	
HU10A	0.65	45.1	Sg	09:24:45.575	0.7					T						734009	FDSN	Z6	00	BUD	BUD	HHN	???	-	
PSZI	1.18	62.7	I	09:30:34.335	-43.9	239.9	-3.9	312.50	-41.7	A						111111	FDSN	HU	--	BUD	BUD	???	???	-	
PSZ	1.18	62.7	Sg	09:25:01.520	-0.4					T						734014	FDSN	GE	--	BUD	BUD	HHN	???	-	
MORH	1.19	169.5	Sg	09:25:02.324	0.3					T						734015	FDSN	HU	--	BUD	BUD	HHN	???	-	
KOVH	1.31	187.1	Sb	09:25:06.536	-0.0					T						734010	FDSN	HU	--	BUD	BUD	HHN	???	-	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023pccz 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	
2023/08/03	14:48:04.49	0.32	1.24	46.1469	15.9379	5.0	3.2	116	0.0A	0.0	10	7	113	0.24	1.57	m	se BUD	734036	BUD				
2023/08/03	14:48:02.89	0.83	0.72	46.1883	15.9618	7.6	5.2	120	0.0f		11	8	115	0.28	3.20		se ILOC	734036	ILOC			161	
(#PRIME)																							
(Locality: Gornje Jesenje Croatia)																							

Magnitude	Err	Nsta	Author	OrigID	
M	1.6	3	BUD	734036	
MLv	1.6	0.4	3	BUD	734036
ML	1.7	0.3	3	ILOC	734036

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
PTJ	0.28	179.1	Pg	14:48:08.435	0.2					T__		169.1		___	ML	1.3	734038	FDSN	CR	--	BUD	BUD	BHZ	BHZ	_
PTJ	0.28	179.1	Lg	14:48:12.197	0.3					T__				___		734037	FDSN	CR	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=1)																									
KOGS	0.33	37.5	Pn	14:48:13.767	-1.2					T__		452.7		___	ML	1.9	734041	FDSN	SL	--	BUD	BUD	BHZ	BHZ	_
KOGS	0.33	37.5	Sb	14:48:17.821	0.3					T__				___		734042	FDSN	SL	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
CRES	0.51	224.3	Pg	14:48:12.306	-0.3					T__		93.0		___	ML	1.7	734040	FDSN	SL	--	BUD	BUD	BHZ	BHZ	_
CRES	0.51	224.3	Lg	14:48:19.610	0.5					T__				___		734039	FDSN	SL	--	BUD	BUD	BHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
BEHE	0.63	63.1	Lg	14:48:24.394	1.2					T__				___		734043	FDSN	HU	--	BUD	BUD	HHN	???	_	
OBKA	1.03	288.7	Sb	14:48:38.537	0.8					T__				___		734044	FDSN	OE	--	BUD	BUD	HHN	???	_	
ARSA	1.10	344.3	Sb	14:48:40.144	0.3					T__				___		734045	FDSN	OE	--	BUD	BUD	HHN	???	_	
RONA	1.53	8.5	Sn	14:48:52.414	0.3					T__				___		734046	FDSN	OE	--	BUD	BUD	HHN	???	_	
PSZI	3.20	55.8	I	15:05:24.043	-999	238.0	-0.7	320.20	-51.7	A_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023pkts Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/08/08	08:20:58.11	1.07	0.80	46.0764	23.3447	13.5	4.8	96	0.0A	0.0	7	4	241	0.36	1.28	m	se	BUD	734068	BUD		
2023/08/08	08:20:57.73	1.76	0.50	46.0788	23.3406	16.9	6.6	104	0.0F		8	5	241	0.36	2.99		se	ILOC	734068	ILOC		268

(#PRIME)  
(Localilty: Romania)

Magnitude	Err	Nsta	Author	OrigID	
M	1.6	3	BUD	734068	
MLv	1.6	0.2	3	BUD	734068
ML	1.7	0.0	3	ILOC	734068

Sta	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	0.36	237.5	Sg	08:21:09.312	-0.0					T__				___		734071	FDSN	RO	--	BUD	BUD	HHN	???	_	
GZR	0.79	210.1	Pg	08:21:12.233	-0.6					T__		28.6		___	ML	1.4	734075	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
GZR	0.79	210.1	Lg	08:21:23.554	0.4					T__				___		734074	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									
DRGR	0.84	328.8	Pb	08:21:15.301	0.1					T__		56.3		___	ML	1.7	734069	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DRGR	0.84	328.8	Sg	08:21:24.102	-0.5					T__				___		734070	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
BZS	1.29	249.6	Pn	08:21:23.627	0.6					T__		30.8		___	ML	1.7	734073	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
BZS	1.29	249.6	Sg	08:21:38.892	-0.3					T__				___		734072	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
PSZI	2.99	309.2	I	08:38:36.074	-69.3	127.8	1.1	315.20	-62.0	A_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023pldh Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/08/08	13:11:20.88	1.44	0.38	46.9202	22.8147	18.0	13.8	134	0.0A	0.0	6	3	328	0.15	1.54	m	se	BUD	734096	BUD		

2023/08/08 13:11:19.79 1.66 0.56 46.9114 22.8937 10.4 4.5 30 0.0f 8 4 245 0.17 2.27 se ILOC 734096 ILOC 316  
 (#PRIME)  
 (Locality: Poieni Romania)

Magnitude Err Nsta Author OrigID  
 M 1.6 3 BUD 734096  
 MLv 1.6 0.4 3 BUD 734096  
 ML 1.8 0.1 3 ILOC 734096

Sta	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	0.17	226.3	Pg	13:11:23.700	0.6					T__		305.5			ML 1.3	734097	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DRGR	0.17	226.3	Lg	13:11:25.453	0.1					T__						734098	FDSN	RO	--	BUD	BUD	HHN	???	_
				(Reading ML: 1.3 magdef=1)				(Station ML: 1.3 magdef=1)																
GZR	1.52	183.1	Pb	13:11:49.190	0.3					T__		34.2			ML 1.9	734102	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
GZR	1.52	183.1	Sg	13:12:08.545	-0.1					T__						734101	FDSN	RO	--	BUD	BUD	HHN	???	_
				(Reading ML: 1.9 magdef=1)				(Station ML: 1.9 magdef=1)																
BZS	1.57	214.8	Pn	13:11:48.387	-0.5					T__		25.6			ML 1.8	734099	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
BZS	1.57	214.8	Sn	13:12:08.983	-0.9					T__						734100	FDSN	RO	--	BUD	BUD	HHN	???	_
				(Reading ML: 1.8 magdef=1)				(Station ML: 1.8 magdef=1)																
PSZI	2.27	297.4	I	13:25:40.479	-0.0	113.2	-2.0	334.50	-75.7	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023pojcz 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
2023/08/10	07:32:40.87	1.63	0.87	48.1701	18.6826	15.2	12.1	56	0.0A	0.0	9	7	321	0.67	1.71	m	se BUD	734125	BUD			
2023/08/10	07:32:41.14	1.33	0.59	48.2152	18.7711	5.9	4.2	109	0.0f		11	8	317	0.64	1.65		se ILOC	734125	ILOC			325

(#PRIME)  
 (Locality: Hontianske-Trstany Slovakia)

Magnitude Err Nsta Author OrigID  
 M 2.0 2 BUD 734125  
 MLv 2.0 0.3 2 BUD 734125  
 ML 2.0 0.3 2 ILOC 734125

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
HU03A	0.64	119.0	Sg	07:33:01.490	-0.1					T__						734132	FDSN	Z6	00	BUD	BUD	HHN	???	_
PSZI	0.81	111.1	I	07:37:11.708	-0.5	296.7	4.7	343.20	8.6	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_
PSZ	0.81	111.1	Sb	07:33:09.070	-0.6					T__						734130	FDSN	GE	--	BUD	BUD	HHN	???	_
CP17A	1.16	89.2	Pg	07:33:03.278	-0.1					T__		96.6			ML 2.1	734128	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
CP17A	1.16	89.2	Sn	07:33:20.678	-0.5					T__						734133	FDSN	Z6	00	BUD	BUD	HHN	???	_
				(Reading ML: 2.1 magdef=1)				(Station ML: 2.1 magdef=1)																
KECS	1.17	76.2	Sb	07:33:20.652	0.6					T__						734129	FDSN	SK	--	BUD	BUD	EHN	???	_
HU02A	1.18	93.9	Pb	07:33:04.300	-0.1					T__		42.1			ML 1.8	734126	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	1.18	93.9	Sb	07:33:20.312	0.1					T__						734127	FDSN	Z6	00	BUD	BUD	HHN	???	_
				(Reading ML: 1.8 magdef=1)				(Station ML: 1.8 magdef=1)																
CP16A	1.19	83.2	Sg	07:33:19.145	-0.1					T__						734134	FDSN	Z6	00	BUD	BUD	HHN	???	_
ABAH	1.65	86.3	Lg	07:33:35.471	1.3					T__						734131	FDSN	HU	--	BUD	BUD	HHE	???	_

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023pojg Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/08/10	07:36:38.46	0.30	0.65	48.4686	21.7642	4.4	2.9	172	0.0A	0.0	16	10	87	0.39	1.80	m	se BUD	734165	BUD			
2023/08/10	07:36:36.61	0.77	0.66	48.4630	21.7689	5.0	4.4	4	0.0f		17	11	87	0.39	1.79		se ILOC	734165	ILOC			167

(#PRIME)  
(Locality: Pálháza Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.9	5	BUD	734165
MLv	1.9	0.3	5 BUD	734165
ML	1.9	0.4	5 ILOC	734165

Sta	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	0.39	244.9	Pb	07:36:46.214	-0.2					T__		174.6			ML	1.6	734173	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.39	244.9	Lg	07:36:50.728	1.6					T__						734174	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																									
KOLS	0.58	35.2	Pb	07:36:49.249	-0.4					T__						734178	FDSN	SK	--	BUD	BUD	HHZ	???	_	
KOLS	0.58	35.2	Lg	07:36:56.148	1.0					T__						734177	FDSN	SK	--	BUD	BUD	HHN	???	_	
TRPA	0.61	122.6	Pb	07:36:50.702	0.5					T__		49.4			ML	1.5	734176	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
TRPA	0.61	122.6	Sb	07:36:58.537	-0.8					T__						734175	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=0)																									
CP16A	0.83	262.1	Pn	07:36:55.273	-0.2					T__		180.9			ML	2.2	734171	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
CP16A	0.83	262.1	Sb	07:37:04.556	-1.0					T__						734170	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 2.2 magdef=1 Station ML: 2.2 magdef=1)																									
KECS	0.85	271.8	Sb	07:37:06.344	0.0					T__						734179	FDSN	SK	--	BUD	BUD	EHN	???	_	
CP17A	0.87	254.3	Pn	07:36:55.954	-0.2					T__		189.6			ML	2.3	734168	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
CP17A	0.87	254.3	Lg	07:37:04.982	0.3					T__						734169	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 2.3 magdef=1 Station ML: 2.3 magdef=0)																									
HU02A	0.90	248.1	Pb	07:36:54.847	-0.2					T__		73.2			ML	1.9	734167	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.90	248.1	Sb	07:37:07.452	-0.2					T__						734166	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																									
NIE	1.36	315.2	Sn	07:37:21.870	0.2					T__						734180	FDSN	PL	--	BUD	BUD	BHN	???	_	
PSZ	1.37	247.2	Sn	07:37:22.356	0.5					T__						734172	FDSN	GE	--	BUD	BUD	HHN	???	_	
PSZI	1.37	247.2	I	07:45:35.111	48.0	64.6	-1.2	351.00	-18.6	A__						111111	FDSN	HU	--	BUD	BUD	???	???	_	
DRGR	1.79	158.8	Sg	07:37:33.630	-0.4					T__						734181	FDSN	RO	--	BUD	BUD	HHN	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023pxpi Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/08/15	08:55:04.63	0.31	0.39	47.8811	19.7954	4.7	2.7	156	0.0A	0.0	13	10	117	0.08	1.05	m	se BUD	734294	BUD			
2023/08/15	08:55:03.44	0.66	0.67	47.8178	19.8143	3.9	0.5	27	0.0f		15	11	87	0.11	1.07		se ILOC	734294	ILOC			152

(#PRIME)  
(Locality: Gyöngyöstarján Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.6	3	BUD	734294
MLv	1.6	0.0	3 BUD	734294
ML	1.7	0.1	3 ILOC	734294

Sta	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	0.11	28.0	I	08:55:38.942	-1.0	207.5	-0.6	321.70	-17.4	TA__						111111	FDSN	HU	--	BUD	BUD	???	???	_

PSZ	0.11	28.2	Pg	08:55:05.295	-0.3	T	1285.6	_c	ML	1.7	734295	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.11	28.2	Lg	08:55:06.281	-0.8	T					734296	FDSN	GE	--	BUD	BUD	HHN	???	_
(Reading ML: 1.7 magdef=1)																			
(Station ML: 1.7 magdef=1)																			
HU03A	0.17	300.9	Pg	08:55:06.975	0.3	T	819.2		ML	1.7	734297	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU03A	0.17	300.9	Lg	08:55:08.910	0.1	T					734303	FDSN	Z6	00	BUD	BUD	HHN	???	_
(Reading ML: 1.7 magdef=1)																			
(Station ML: 1.7 magdef=1)																			
HU23A	0.34	121.2	Sb	08:55:16.835	-1.6	T					734298	FDSN	Z6	00	BUD	BUD	HHN	???	_
HU01A	0.49	195.6	Sb	08:55:22.349	-0.3	T					734301	FDSN	Z6	00	BUD	BUD	HHN	???	_
HU10A	0.54	273.2	Lg	08:55:21.034	0.3	T					734300	FDSN	Z6	00	BUD	BUD	HHN	???	_
HU02A	0.57	57.2	Pg	08:55:14.826	0.5	T	66.7		ML	1.6	734299	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.57	57.2	Lg	08:55:22.239	0.6	T					734304	FDSN	Z6	00	BUD	BUD	HHN	???	_
(Reading ML: 1.6 magdef=1)																			
(Station ML: 1.6 magdef=1)																			
CP17A	0.62	49.1	Lg	08:55:23.561	0.3	T					734305	FDSN	Z6	00	BUD	BUD	HHN	???	_
CP16A	0.72	42.6	Lg	08:55:26.584	0.1	T					734306	FDSN	Z6	00	BUD	BUD	HHN	???	_
KECS	0.80	33.8	Sg	08:55:29.068	-0.2	T					734302	FDSN	SK	--	BUD	BUD	EHN	???	_
ABAH	1.07	62.9	Sb	08:55:39.095	-0.2	T					734307	FDSN	HU	--	BUD	BUD	HHN	???	_

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023pxyw Ukraine - Moldova - Southwestern Russia region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/08/15	13:43:11.33	0.49	0.99	48.6875	22.4606	6.1	3.9	59	0.0A	0.0	8	6	171	0.28	1.41	m	se BUD	734328	BUD			
2023/08/15	13:43:09.74	1.11	0.90	48.6807	22.4552	4.8	4.2	98	0.0f		10	7	170	0.28	1.87		se ILOC	734328	ILOC			242

(#PRIME)  
(Localality: Kamjanica Ukraine)

Magnitude	Err	Nsta	Author	OrigID	
M	1.5	1	BUD	734328	
MLv	1.5	0.0	1	BUD	734328

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
KOLS	0.28	334.6	Pg	13:43:15.264	-0.1					T						734333	FDSN	SK	--	BUD	BUD	HHZ	???	_
KOLS	0.28	334.6	Lg	13:43:20.961	0.7					T						734332	FDSN	SK	--	BUD	BUD	HHN	???	_
TRPA	0.55	174.2	Pg	13:43:21.107	0.4					T		54.6				734329	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
TRPA	0.55	174.2	Lg	13:43:29.068	-1.1					T						734330	FDSN	HU	--	BUD	BUD	HHN	???	_
(Reading ML: 1.5 magdef=1)																								
(Station ML: 1.5 magdef=0)																								
ABAH	0.90	245.0	Lg	13:43:41.631	-0.1					T						734334	FDSN	HU	--	BUD	BUD	HHN	???	_
BMR	1.23	145.0	Sn	13:43:51.710	-1.0					T						734331	FDSN	RO	--	BUD	BUD	HHN	???	_
KECS	1.32	262.1	Sn	13:43:53.390	-1.0					T						734336	FDSN	SK	--	BUD	BUD	EHN	???	_
HU02A	1.40	247.2	Sn	13:43:55.143	-1.4					T						734335	FDSN	Z6	00	BUD	BUD	HHN	???	_
PSZI	1.87	246.9	I	13:54:52.007	0.2	63.5	-1.5	352.80	-54.5	TA						111111	FDSN	HU	--	BUD	BUD	???	???	_

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023pxzm Ukraine - Moldova - Southwestern Russia region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/08/15	14:01:50.67	0.62	0.36	48.6927	22.5021	7.3	4.1	73	0.0A	0.0	9	7	207	0.28	1.91	m	se BUD	734355	BUD			
2023/08/15	14:01:49.80	1.24	0.93	48.6613	22.4733	6.1	4.5	142	0.0f		11	8	200	0.30	1.88		se ILOC	734355	ILOC			236

(#PRIME)  
(Localality: Kamjanica Ukraine)

Magnitude Err Nsta Author OrigID  
M 1.6 2 BUD 734355  
MLv 1.6 0.3 2 BUD 734355  
ML 1.6 0.3 2 ILOC 734355

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOLS	0.30	334.1	Pg	14:01:56.443	0.6					T__						734356	FDSN	SK	--	BUD	BUD	HHZ	???	-	
KOLS	0.30	334.1	Lg	14:01:59.748	-1.4					T__						734357	FDSN	SK	--	BUD	BUD	HHN	???	-	
TRPA	0.53	175.3	Lg	14:02:08.714	-0.8					T__						734358	FDSN	HU	--	BUD	BUD	HHN	???	-	
ABAH	0.90	246.5	Pn	14:02:08.613	-0.0					T__		55.3			ML	1.7	734360	FDSN	HU	--	BUD	BUD	HHZ	HHZ	-
ABAH	0.90	246.5	Lg	14:02:20.737	-1.1					T__						734359	FDSN	HU	--	BUD	BUD	HHN	???	-	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
KECS	1.33	263.1	Sn	14:02:33.792	-0.9					T__						734361	FDSN	SK	--	BUD	BUD	EHN	???	-	
HU02A	1.41	248.2	Sn	14:02:37.477	0.8					T__						734362	FDSN	Z6	00	BUD	BUD	HHN	???	-	
NIE	1.62	298.7	Pg	14:02:20.604	0.3					T__		9.5			ML	1.4	734363	FDSN	PL	--	BUD	BUD	BHZ	BHZ	-
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									
PS2I	1.88	247.6	I	14:13:34.059	0.8	63.2	-2.5	346.80	-60.7	TA__						111111	FDSN	HU	--	BUD	BUD	???	???	-	
DRGR	1.88	175.0	Sn	14:02:49.264	0.7					T__						734364	FDSN	RO	--	BUD	BUD	HHN	???	-	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023pxzn Ukraine - Moldova - Southwestern Russia region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/08/15	14:03:41.70	0.63	0.44	48.6813	22.5232	6.9	4.3	71	0.0A	0.0	10	8	209	0.30	1.90	m	se BUD	734386	BUD			
2023/08/15	14:03:41.31	1.14	0.97	48.6871	22.4552	5.0	4.4	118	0.0f		12	9	200	0.27	1.90	se	ILOC	734386	ILOC			236

(#PRIME)  
(Locality: Kamjanica Ukraine)

Magnitude Err Nsta Author OrigID  
M 1.7 2 BUD 734386  
MLv 1.7 0.2 2 BUD 734386  
ML 1.7 0.2 2 ILOC 734386

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
KOLS	0.27	334.0	Pg	14:03:47.021	0.2					T__						734387	FDSN	SK	--	BUD	BUD	HHZ	???	-	
KOLS	0.27	334.0	Lg	14:03:51.768	0.1					T__						734388	FDSN	SK	--	BUD	BUD	HHN	???	-	
TRPA	0.56	174.2	Pg	14:03:52.645	0.3					T__		53.7			ML	1.5	734389	FDSN	HU	--	BUD	BUD	HHZ	HHZ	-
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									
ABAH	0.90	244.6	Pn	14:03:59.072	-1.1					T__		68.5			ML	1.8	734390	FDSN	HU	--	BUD	BUD	HHZ	HHZ	-
ABAH	0.90	244.6	Lg	14:04:12.255	-1.1					T__						734391	FDSN	HU	--	BUD	BUD	HHN	???	-	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
KECS	1.32	261.9	Sn	14:04:25.201	-0.8					T__						734392	FDSN	SK	--	BUD	BUD	EHN	???	-	
CP17A	1.38	250.8	Lg	14:04:28.195	0.0					T__						734393	FDSN	Z6	00	BUD	BUD	HHN	???	-	
HU02A	1.40	247.0	Sn	14:04:26.954	-1.2					T__						734394	FDSN	Z6	00	BUD	BUD	HHN	???	-	
NIE	1.60	298.1	Sn	14:04:32.286	-1.1					T__						734395	FDSN	PL	--	BUD	BUD	BHN	???	-	
PS2I	1.88	246.7	I	14:15:25.392	1.0	59.5	-5.3	362.50	-45.0	TA__						111111	FDSN	HU	--	BUD	BUD	???	???	-	
DRGR	1.90	174.7	Lg	14:04:43.752	-1.3					T__						734396	FDSN	RO	--	BUD	BUD	HHN	???	-	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023pzjt Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/08/16	08:22:00.23	1.00	0.47	46.0328	23.0601	21.6	4.2	94	0.0A	0.0	6	3	214	0.18	0.80	m	se BUD	734415	BUD			
2023/08/16	08:21:59.00	0.92	1.44	46.0500	23.1264	7.4	4.0	70	0.0f		7	4	221	0.23	2.90		se ILOC	734415	ILOC			249

(#PRIME)  
(Locality: Romania)

Magnitude	Err	Nsta	Author	OrigID
M	1.5	3	BUD	734415
MLv	1.5	0.1	3 BUD	734415
ML	1.5	0.1	3 ILOC	734415

Sta	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	0.23	223.1	Pg	08:22:03.406	0.1					T__		568.6		___	ML	1.7	734418	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DEV	0.23	223.1	Lg	08:22:05.450	-1.1					T__				___		734419	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
GZR	0.70	200.6	Pg	08:22:12.902	0.5					T__		38.2		___	ML	1.5	734421	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
GZR	0.70	200.6	Lg	08:22:22.420	0.1					T__				___		734420	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=1)																									
DRGR	0.80	339.0	Pg	08:22:15.117	0.1					T__		30.1		___	ML	1.4	734416	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DRGR	0.80	339.0	Lg	08:22:26.359	-1.0					T__				___		734417	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.4 magdef=1 Station ML: 1.4 magdef=1)																									
PSZI	2.90	311.3	I	08:40:13.942	2.4	135.2	6.2	298.50	-82.5	T__				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023qikw Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/08/21	07:09:35.99	0.79	0.90	47.9805	20.3919	11.1	4.5	149	0.0A	0.0	7	5	199	0.17	0.65	m	kx BUD	734484	BUD			
2023/08/21	07:09:33.91			47.9760	20.3693				0.0								kx BUD_GT	1	BUD			
2023/08/21	07:09:33.91	1.02	1.37	47.9757	20.3740	4.2	1.7	81	0.0f		9	6	199	0.18	0.66		kx ILOC	734484	ILOC			225

(#PRIME)  
(Locality: Eger-III Hungary)  
(GT info : GT2 explosion)

Magnitude	Err	Nsta	Author	OrigID
M	1.2	2	BUD	734484
MLv	1.2	0.0	2 BUD	734484
ML	1.2	0.0	2 ILOC	734484

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU02A	0.18	34.6	Pg	07:09:37.975	-0.2					T__		253.8		___	ML	1.2	734485	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.18	34.6	Lg	07:09:40.222	-1.4					T__				___		734486	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.2 magdef=1 Station ML: 1.2 magdef=1)																									
CP17A	0.26	20.6	Pg	07:09:39.944	0.5					T__		168.8		___	ML	1.3	734487	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
CP17A	0.26	20.6	Lg	07:09:44.352	0.6					T__				___		734488	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1 Station ML: 1.3 magdef=1)																									
PSZ	0.33	260.1	Lg	07:09:46.995	0.0					T__				___		734490	FDSN	GE	--	BUD	BUD	HHN	???	_	
PSZI	0.33	260.0	I	07:11:17.106	-2.9	78.4	-1.3	342.60	8.3	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
KECS	0.51	8.3	Lg	07:09:52.493	0.2					T__				___		734489	FDSN	SK	--	BUD	BUD	EHN	???	_	
ABAH	0.66	60.7	Lg	07:09:57.991	-0.4					T__				___		734491	FDSN	HU	--	BUD	BUD	HHN	???	_	

STOP  
BEGIN IMS2.0



DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023qimy Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/08/21	08:12:22.05	1.44	0.65	48.7363	20.7983	13.2	7.8	2	0.0A	0.0	8	5	286	0.33	0.64	m	se BUD	734512	BUD			
2023/08/21	08:12:14.73	2.50	0.95	48.8172	21.0595	14.8	5.9	40	0.0F		9	6	298	0.51	1.19		se ILOC	734512	ILOC			338

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

Magnitude	Err	Nsta	Author	OrigID	
M	1.7	3	BUD	734512	
MLv	1.7	0.2	3	BUD	734512
ML	1.9	0.3	3	ILOC	734512

Sta	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	0.51	228.9	Pn	08:12:28.579	-0.6					T__		478.2		___	ML	2.4	734519	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
KECS	0.51	228.9	Lg	08:12:32.187	-0.4					T__				___		734518	FDSN	SK	--	BUD	BUD	EHN	???	_	
(Reading ML: 2.4 magdef=1 Station ML: 2.4 magdef=1)																									
ABAH	0.54	167.0	Sn	08:12:39.039	-0.3					T__				___		734520	FDSN	HU	--	BUD	BUD	HHN	???	_	
CP16A	0.59	216.2	Pn	08:12:31.116	0.8					T__		109.6		___	ML	1.9	734517	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
CP16A	0.59	216.2	Lg	08:12:36.165	0.8					T__				___		734516	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																									
CP17A	0.70	211.6	Pn	08:12:31.585	1.0					T__		64.0		___	ML	1.7	734515	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
CP17A	0.70	211.6	Lg	08:12:39.991	0.6					T__				___		734514	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
HU02A	0.78	207.3	Lg	08:12:41.497	-1.4					T__				___		734513	FDSN	Z6	00	BUD	BUD	HHN	???	_	
PS2I	1.19	221.3	I	08:17:12.514	-999	44.1	3.7	348.90	-5.8	A__				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023qiuo Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2023/08/21	12:02:52.19	0.35	1.11	46.3212	23.1458	6.4	3.2	99	0.0A	0.0	11	7	114	0.47	1.86	m	se BUD	734548	BUD				
2023/08/21	12:02:50.85	1.01	0.94	46.3528	23.1437	5.7	3.6	62	0.0F		13	8	113	0.48	2.72		se ILOC	734548	ILOC				166

(#PRIME)  
(Locality: Rosia-Poieni Romania)

Magnitude	Err	Nsta	Author	OrigID	
M	1.9	5	BUD	734548	
MLv	1.9	0.2	5	BUD	734548
ML	1.9	0.1	5	ILOC	734548

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
CJR	0.48	40.9	Lg	12:03:08.088	-0.1					T__				___		734551	FDSN	RO	--	BUD	BUD	HHN	???	_	
DEV	0.50	199.7	Lg	12:03:07.982	0.6					T__				___		734552	FDSN	RO	--	BUD	BUD	HHN	???	_	
DRGR	0.53	325.9	Pg	12:03:02.312	0.6					T__		80.5		___	ML	1.7	734549	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DRGR	0.53	325.9	Lg	12:03:08.405	-2.0					T__				___		734550	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=0)																									
GZR	0.99	195.1	Pg	12:03:09.885	0.1					T__		60.1		___	ML	1.8	734555	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
GZR	0.99	195.1	Lg	12:03:24.158	0.5					T__				___		734556	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
LOT	1.00	154.0	Pg	12:03:09.462	-0.6					T__		104.0		___	ML	2.1	734559	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_

```

(Reading ML: 2.1 magdef=1
(Station ML: 2.1 magdef=1
BZS 1.29 235.9 Pn 12:03:14.854 -0.6 T__ 48.0 ___ ML 1.9 734558 FDSN RO -- BUD BUD HHZ HHZ _
BZS 1.29 235.9 Lg 12:03:32.616 -1.1 T__ ___ 734557 FDSN RO -- BUD BUD HHN ??? _
(Reading ML: 1.9 magdef=1
(Station ML: 1.9 magdef=1
TRPA 1.83 347.2 Pg 12:03:26.801 0.9 T__ 62.3 ___ ML 2.3 734554 FDSN HU -- BUD BUD HHZ HHZ _
TRPA 1.83 347.2 Lg 12:03:50.907 -0.4 T__ ___ 734553 FDSN HU -- BUD BUD HHN ??? _
(Reading ML: 2.3 magdef=1
(Station ML: 2.3 magdef=0
PSZI 2.72 306.4 I 12:19:56.007 -0.8 121.7 -2.3 326.90 -63.0 TA_ ___ 111111 FDSN HU -- BUD BUD ??? ??? _

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023qkhy 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
2023/08/22	07:56:22.62	1.53	0.49	48.5703	19.3566	14.3	4.9	147	0.0A	0.0	9	7	258	0.69	0.90	m	se BUD	734586	BUD			
2023/08/22	07:56:23.53	1.37	0.64	48.5422	19.3924	6.0	3.3	149	0.0f		11	8	254	0.65	0.86		se ILOC	734586	ILOC			286

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(#PRIME)
(Locality: Stozok Slovakia)

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Magnitude	Err	Nsta	Author	OrigID	
M	1.9	2	BUD	734586	
MLv	1.9	0.0	2	BUD	734586
ML	1.9	0.0	2	ILOC	734586

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU03A	0.65	167.7	Pg	07:56:36.449	0.4					T__		110.9		___	ML	1.9	734587	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU03A	0.65	167.7	Sg	07:56:44.590	0.1					T__				___		734588	FDSN	Z6	00	BUD	BUD	HHN	???	_	
																734595	FDSN	GE	--	BUD	BUD	HHN	???	_	
PSZ	0.71	151.5	Lg	07:56:46.995	0.7					T__						111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZI	0.71	151.6	I	08:00:17.605	-1.0	330.7	-1.3	331.70	-1.0	TA_														_	
KECS	0.73	94.2	Lg	07:56:47.418	0.4					T__						734593	FDSN	SK	--	BUD	BUD	EHN	???	_	
HU10A	0.74	199.9	Sg	07:56:46.678	-0.6					T__						734594	FDSN	Z6	00	BUD	BUD	HHN	???	_	
CP16A	0.79	104.3	Sg	07:56:48.581	-0.3					T__						734592	FDSN	Z6	00	BUD	BUD	HHN	???	_	
CP17A	0.81	113.0	Lg	07:56:50.273	0.6					T__						734591	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU02A	0.86	118.7	Pg	07:56:39.409	-0.7					T__		73.3		___	ML	1.8	734590	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.86	118.7	Sg	07:56:50.881	-0.4					T__						734589	FDSN	Z6	00	BUD	BUD	HHN	???	_	

```

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

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023qnxv Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/08/24	07:23:00.47	0.34	0.44	47.8806	19.1368	15.1	2.8	159	0.0A	0.0	13	8	169	0.09	1.09	m	se BUD	734623	BUD			
2023/08/24	07:23:00.31	0.87	0.62	47.8758	19.1351	3.5	2.6	98	0.0f		15	9	166	0.08	1.09		se ILOC	734623	ILOC			174

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

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Magnitude	Err	Nsta	Author	OrigID	
M	1.6	5	BUD	734623	
MLv	1.6	0.2	5	BUD	734623
ML	1.7	0.1	5	ILOC	734623

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU10A	0.08	248.7	Pg	07:23:01.638	-0.3					T__		1571.6			ML	1.7	734624	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU10A	0.08	248.7	Sg	07:23:02.958	-0.0					T__						734626	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=0)																									
HU03A	0.31	84.7	Lg	07:23:10.625	0.2					T__						734627	FDSN	Z6	00	BUD	BUD	HHN	???	_	
PSZ1	0.51	85.0	I	07:25:45.729	-1.8	261.5	-4.1	323.40	-8.6	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	0.51	85.0	Pg	07:23:10.462	0.3					T__		32.7			ML	1.2	734625	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.51	85.0	Sg	07:23:15.995	-0.8					T__						734628	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.2 magdef=1)																									
(Station ML: 1.2 magdef=0)																									
HU09A	0.56	245.2	Sg	07:23:18.386	0.1					T__						734629	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU02A	0.97	74.7	Pg	07:23:19.221	0.4					T__		20.0			ML	1.3	734631	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.97	74.7	Lg	07:23:31.637	0.3					T__						734630	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=1)																									
CP17A	0.99	69.1	Pg	07:23:18.857	-0.3					T__		47.7			ML	1.7	734632	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
CP17A	0.99	69.1	Sg	07:23:31.930	-0.0					T__						734633	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
CP16A	1.05	63.1	Pb	07:23:21.292	-0.1					T__		40.2			ML	1.7	734635	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
CP16A	1.05	63.1	Lg	07:23:34.512	0.4					T__						734634	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
KECS	1.09	55.6	Sg	07:23:35.125	-0.2					T__						734636	FDSN	SK	--	BUD	BUD	EHN	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023qocx 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
2023/08/24	09:56:32.92	0.95	0.55	48.3358	19.7916	10.8	4.0	135	0.0A	0.0	11	7	235	0.42	0.97	m	se BUD	734707	BUD			
2023/08/24	09:56:32.29	1.30	0.47	48.2868	19.8607	7.5	3.5	119	0.0f		12	8	219	0.37	0.92	se	ILOC	734707	ILOC			247

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

Magnitude	Err	Nsta	Author	OrigID
M	1.6	4	BUD	734707
MLv	1.6	0.2	4 BUD	734707
ML	1.5	0.3	4 ILOC	734707

Sta	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	0.37	176.5	Pg	09:56:40.736	0.2					T__		95.5			ML	1.3	734708	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.37	176.5	Lg	09:56:46.195	-0.5					T__						734710	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=1)																									
PSZ1	0.37	176.6	I	09:58:32.150	0.1	358.5	1.9	341.60	8.0	T__						111111	FDSN	HU	--	BUD	BUD	???	???	_	
HU03A	0.42	204.6	Lg	09:56:47.679	-0.2					T__						734711	FDSN	Z6	00	BUD	BUD	HHN	???	_	
CP17A	0.44	98.6	Lg	09:56:48.424	0.3					T__						734712	FDSN	Z6	00	BUD	BUD	HHN	???	_	
CP16A	0.46	82.8	Lg	09:56:48.591	-0.0					T__						734713	FDSN	Z6	00	BUD	BUD	HHN	???	_	
KECS	0.46	64.5	Pg	09:56:41.440	-0.2					T__		139.1			ML	1.7	734715	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
KECS	0.46	64.5	Lg	09:56:48.853	0.1					T__						734714	FDSN	SK	--	BUD	BUD	EHN	???	_	
(Reading ML: 1.7 magdef=1)																									
(Station ML: 1.7 magdef=1)																									
HU02A	0.47	110.1	Pg	09:56:42.452	0.1					T__		38.8			ML	1.2	734709	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.47	110.1	Lg	09:56:49.628	-0.5					T__						734716	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.2 magdef=1)																									
(Station ML: 1.2 magdef=1)																									

ABAH 0.92 88.9 Pn 09:56:52.356 1.1 T\_\_ 46.1 \_\_\_ ML 1.7 734718 FDSN HU -- BUD BUD HHZ HHZ \_  
 ABAH 0.92 88.9 Lg 09:57:04.663 -0.3 T\_\_ 734717 FDSN HU -- BUD BUD HHE ??? \_  
 (Reading ML: 1.7 magdef=1  
 (Station ML: 1.7 magdef=1

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023qoe Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/08/24	10:35:41.73	1.34	0.23	47.7903	19.1094	20.9	4.1	8	0.0A	0.0	7	5	235	0.08	1.15	m	kx BUD	734741	BUD			
2023/08/24	10:35:40.42			47.8355	19.1270				0.0								kx BUD_GT	1	BUD			
2023/08/24	10:35:40.42	1.01	1.94	47.8225	19.1559	3.7	2.6	71	0.0f		9	6	204	0.10	1.11		kx ILOC	734741	ILOC			334

(#PRIME)  
 (Locality: Sejce-Vac Hungary)  
 (GT info : GT2 explosion)

Magnitude	Err	Nsta	Author	OrigID
M	1.3	2	BUD	734741
MLv	1.3 0.1	2	BUD	734741
ML	1.3 0.1	2	ILOC	734741

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
HU10A	0.10	283.8	Pg	10:35:43.155	0.3					T__		465.1		___	ML	1.2 734742	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU10A	0.10	283.8	Lg	10:35:44.013	-1.0					T__				___		734743	FDSN	Z6	00	BUD	BUD	HHE	???	_
HU03A	0.31	74.6	Lg	10:35:52.623	0.3					T__						734745	FDSN	Z6	00	BUD	BUD	HHN	???	_
PSZI	0.51	78.8	I	10:38:21.479	-4.0	261.6	2.2	323.50	-8.5	TA__						111111	FDSN	HU	--	BUD	BUD	???	???	_
PSZ	0.51	78.8	Lg	10:35:59.360	-0.3					T__						734746	FDSN	GE	--	BUD	BUD	HHN	???	_
HU02A	0.97	71.4	Pn	10:36:01.040	0.8					T__		21.8		___	ML	1.4 734744	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.97	71.4	Sn	10:36:14.114	-2.0					T__						734747	FDSN	Z6	00	BUD	BUD	HHN	???	_
KECS	1.11	52.9	Sn	10:36:18.569	-0.7					T__						734748	FDSN	SK	--	BUD	BUD	EHN	???	_

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023qptn Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/08/25	07:28:15.81	1.83	0.54	46.9215	22.8674	19.7	13.1	169	0.0	0.0	5	3	322	0.17	1.56	m	se BUD	734765	BUD			
2023/08/25	07:28:16.95	2.61	0.89	46.8313	22.7851	35.7	10.5	126	0.0f		6	4	240	0.06	2.25		se ILOC	734765	ILOC			308

(#PRIME)  
 (Locality: Poieni Romania)

Magnitude	Err	Nsta	Author	OrigID
M	1.5	2	BUD	734765
MLv	1.5 0.2	2	BUD	734765
ML	1.4 0.4	2	ILOC	734765

Sta	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	0.06	232.0	Pg	07:28:18.615	-0.0					T__		444.0		___	ML	1.1 734766	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DRGR	0.06	232.0	Lg	07:28:20.304	0.1					T__						734767	FDSN	RO	--	BUD	BUD	HHN	???	_
GZR	1.44	180.2	Pn	07:28:43.895	0.1					T__		21.4		___	ML	1.6 734770	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_

GZR 1.44 180.2 Sn 07:29:03.615 -0.6 T\_\_ 734769 FDSN RO -- BUD BUD HHN ??? \_  
 (Reading ML: 1.6 magdef=1  
 (Station ML: 1.6 magdef=1  
 BZS 1.46 214.2 Sn 07:29:05.587 1.4 T\_\_ 734768 FDSN RO -- BUD BUD HHN ??? \_  
 PSZI 2.25 300.0 I 07:41:32.751 -54.6 120.4 2.5 319.20 -91.7 A\_ 111111 FDSN HU -- BUD BUD ??? ??? \_

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023qpzr 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
2023/08/25	07:33:25.23	0.47	0.59	48.5340	19.3873	5.1	4.1	33	0.0A	0.0	9	8	119	0.65	1.18	m	se BUD	734790	BUD			
2023/08/25	07:33:21.26	1.97	0.93	48.5739	19.4131	6.0	3.7	152	0.0f		11	9	115	0.68	1.19	se	ILOC	734790	ILOC			224

(#PRIME)  
 (Locality: Stozok Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.6	1	BUD	734790
MLv	1.6	0.0	1 BUD	734790

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
HU03A	0.68	169.4	Lg	07:33:45.911	0.2					T__						734793	FDSN	Z6	00	BUD	BUD	HHN	???	_
KECS	0.72	96.9	Sn	07:33:49.855	-0.8					T__						734795	FDSN	SK	--	BUD	BUD	EHN	???	_
PSZ	0.73	153.7	Lg	07:33:47.226	-0.7					T__						734794	FDSN	GE	--	BUD	BUD	HHN	???	_
PSZI	0.73	153.8	I	07:37:24.958	0.9	328.6	-5.5	337.70	4.7	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_
CP16A	0.79	106.8	Sn	07:33:50.878	-1.1					T__						734796	FDSN	Z6	00	BUD	BUD	HHN	???	_
CP17A	0.81	115.5	Sn	07:33:51.827	-0.7					T__						734797	FDSN	Z6	00	BUD	BUD	HHN	???	_
HU02A	0.87	120.9	Pn	07:33:41.576	1.8					T__		38.0		ML	1.6	734792	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.87	120.9	Lg	07:33:52.477	-0.1					T__						734791	FDSN	Z6	00	BUD	BUD	HHN	???	_
				(Reading ML: 1.6 magdef=1 (Station ML: 1.6 magdef=0																				
NIE	1.03	34.3	Sn	07:33:59.058	0.2					T__						734798	FDSN	PL	--	BUD	BUD	BHN	???	_
JAVC	1.19	284.5	Sn	07:34:03.586	0.2					T__						734799	FDSN	CZ	--	BUD	BUD	HHN	???	_

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023rauq Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/08/31	08:32:29.23	0.45	0.09	46.1670	18.2938	6.1	4.3	149	0.0A	0.0	6	4	161	0.16	1.13	m	se BUD	734815	BUD			
2023/08/31	08:32:27.86	0.68	1.06	46.1898	18.2792	5.6	4.3	161	0.0f		7	5	146	0.16	2.05	se	ILOC	734815	ILOC			248

(#PRIME)  
 (Locality: Komló Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.4	2	BUD	734815
MLv	1.4	0.1	2 BUD	734815
ML	1.4	0.1	2 ILOC	734815

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
KOVH	0.16	230.9	Pg	08:32:32.300	0.6					T__		502.4		ML	1.4	734818	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
KOVH	0.16	230.9	Lg	08:32:33.670	-1.1					T__						734819	FDSN	HU	--	BUD	BUD	HHN	???	_
				(Reading ML: 1.4 magdef=1 (Station ML: 1.4 magdef=1																				
MORH	0.25	84.2	Pg	08:32:34.254	0.8					T__		229.1		ML	1.4	734816	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MORH	0.25	84.2	Lg	08:32:36.591	-1.4					T__						734817	FDSN	HU	--	BUD	BUD	HHN	???	_
				(Reading ML: 1.4 magdef=1																				

(Station ML: 1.4 magdef=1  
A266A 0.34 358.3 Lg 08:32:40.900 0.1 T\_\_ 734820 FDSN Z6 00 BUD BUD HHN ??? \_  
MPLH 1.11 332.8 Sn 08:33:05.587 -0.5 T\_\_ 734821 FDSN HU -- BUD BUD HHN ??? \_  
PSZI 2.05 32.0 I 08:43:49.437 -92.7 212.7 -0.4 321.60 -90.9 A\_ 111111 FDSN HU -- BUD BUD ??? ??? \_

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023razm Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/08/31	10:59:32.99	1.82	0.78	46.9621	22.9577	19.4	12.7	176	0.0A	0.0	5	3	319	0.24	1.62	m	se BUD	734838	BUD			
2023/08/31	10:59:34.38	1.30	1.11	46.8616	22.8850	7.9	4.3	26	0.0f		8	5	236	0.14	6.61		se ILOC	734838	ILOC			268

(#PRIME)  
(Locality: Poieni Romania)

Magnitude	Err	Nsta	Author	OrigID
M	1.7	2	BUD	734838
MLv	1.7	0.2	2 BUD	734838
ML	1.5	0.4	2 ILOC	734838

Sta	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	239.7	Pg	10:59:37.143	-0.4					T__		375.6			ML	1.3	734839	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DRGR	0.14	239.7	Lg	10:59:39.634	-0.6					T__						734840	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1 (Station ML: 1.3 magdef=1)																									
GZR	1.47	183.0	Pn	11:00:01.788	0.1					T__		29.4			ML	1.8	734843	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
GZR	1.47	183.0	Sn	11:00:21.802	-0.6					T__						734842	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1 (Station ML: 1.8 magdef=1)																									
BZS	1.52	215.7	Sn	11:00:25.209	2.0					T__						734841	FDSN	RO	--	BUD	BUD	HHN	???	_	
PSZI	2.29	298.6	I	11:14:03.091	1.1	116.2	-0.2	346.20	-63.5	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_	
PVCI	6.61	306.7	I	11:09:20.908	-999	120.0	-0.5	295.90	-20.5	A_						222222	FDSN	C9	--	BUD	BUD	???	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023rclq Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/09/01	06:15:27.51	0.48	0.63	47.7881	19.1101	8.6	3.2	171	0.0A	0.0	10	8	170	0.08	1.15	m	kx BUD	734865	BUD			
2023/09/01	06:15:25.18			47.8355	19.1270				0.0								kx BUD_GT	1	BUD			
2023/09/01	06:15:25.18	0.98	3.44	47.7976	19.1617	3.5	2.6	70	0.0f		12	9	170	0.11	1.12		kx ILOC	734865	ILOC			220

(#PRIME)  
(Locality: Sejce-Vác Hungary)  
(GT info : GT2 explosion)

Magnitude	Err	Nsta	Author	OrigID
M	1.5	2	BUD	734865
MLv	1.5	0.2	2 BUD	734865
ML	1.6	0.3	2 ILOC	734865

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU10A	0.11	296.4	Pg	06:15:28.027	0.2					T__		1520.6			ML	1.8	734867	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU10A	0.11	296.4	Lg	06:15:29.817	-0.4					T__						734868	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1 (Station ML: 1.8 magdef=1)																									
HU03A	0.31	70.0	Lg	06:15:38.207	1.0					T__						734869	FDSN	Z6	00	BUD	BUD	HHN	???	_	
PSZI	0.51	76.0	I	06:18:00.978	-9.8	261.7	5.2	322.00	-10.0	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_	

PSZ	0.51	76.0	Lg	06:15:44.196	-0.3	T											734870	FDSN	GE	--	BUD	BUD	HHN	???		
HU08A	0.91	246.8	Lg	06:15:56.539	-1.3	T											734871	FDSN	Z6	00	BUD	BUD	HHN	???		
HU02A	0.97	70.0	Pn	06:15:46.351	1.3	T				21.2			ML	1.4		734866	FDSN	Z6	00	BUD	BUD	HHZ	HHZ			
HU02A	0.97	70.0	Sn	06:15:59.826	-1.2	T										734872	FDSN	Z6	00	BUD	BUD	HHN	???			
(Reading ML: 1.4 magdef=1)																										
(Station ML: 1.4 magdef=1)																										
CP17A	1.00	64.5	Sn	06:16:01.141	0.1	T										734873	FDSN	Z6	00	BUD	BUD	HHN	???			
CP16A	1.07	59.0	Sn	06:16:04.208	1.4	T										734874	FDSN	Z6	00	BUD	BUD	HHN	???			
KECS	1.12	51.8	Sn	06:16:05.742	1.4	T										734875	FDSN	SK	--	BUD	BUD	EHN	???			

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023rcrh Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp				
2023/09/01	09:06:44.04	0.53	1.02	47.8182	19.1209	12.5	3.1	169	0.0A	0.0	8	7	171	0.07	1.13	m	kx BUD	734920	BUD							
2023/09/01	09:06:41.26			47.8355	19.1270				0.0								kx BUD_GT	1	BUD							
2023/09/01	09:06:41.26	1.00	1.58	47.8211	19.1558	3.3	2.6	75	0.0f		10	8	172	0.10	1.11		kx ILOC	734920	ILOC			205				
#PRIME)																										
(Locality: Sejce-Vác Hungary)																										
(GT info : GT2 explosion)																										

Magnitude	Err	Nsta	Author	OrigID	
M	1.7	1	BUD	734920	
MLv	1.7	0.0	1	BUD	734920

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L		
HU10A	0.10	284.7	Pg	09:06:43.730	0.0					T		1670.8			ML	1.8	734921	FDSN	Z6	00	BUD	BUD	HHZ	HHZ		
HU10A	0.10	284.7	Lg	09:06:46.469	0.6					T						734922	FDSN	Z6	00	BUD	BUD	HHE	???			
(Reading ML: 1.8 magdef=1)																										
(Station ML: 1.8 magdef=0)																										
PSZI	0.51	78.7	I	09:09:29.824	3.4	263.0	3.8	322.30	-9.7	TA					111111	FDSN	HU	--	BUD	BUD	???	???				
PSZ	0.51	78.7	Lg	09:07:00.584	0.1					T						734924	FDSN	GE	--	BUD	BUD	HHN	???			
HU09A	0.55	251.0	Lg	09:07:01.533	-0.4					T						734923	FDSN	Z6	00	BUD	BUD	HHN	???			
HU02A	0.97	71.4	Lg	09:07:15.702	-0.9					T						734925	FDSN	Z6	00	BUD	BUD	HHN	???			
CP17A	0.99	65.9	Lg	09:07:16.433	-0.3					T						734926	FDSN	Z6	00	BUD	BUD	HHN	???			
CP16A	1.06	60.2	Sn	09:07:20.888	2.2					T						734927	FDSN	Z6	00	BUD	BUD	HHN	???			
KECS	1.11	52.9	Sn	09:07:20.158	0.0					T						734928	FDSN	SK	--	BUD	BUD	EHN	???			

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023rjvb Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp				
2023/09/05	06:58:24.32	0.36	0.42	47.8719	20.1548	6.0	2.6	139	0.0A	0.0	13	10	160	0.18	1.57	m	kx BUD	735015	BUD							
2023/09/05	06:58:22.77			47.8987	20.0893				0.0								kx BUD_GT	1	BUD							
2023/09/05	06:58:22.77	0.92	2.17	47.8883	20.1079	3.3	0.8	103	0.0f		15	11	153	0.15	1.55		kx ILOC	735015	ILOC			164				
#PRIME)																										
(Locality: Recsk Hungary)																										
(GT info : GT2 explosion)																										

Magnitude	Err	Nsta	Author	OrigID	
M	2.1	3	BUD	735015	
MLv	2.1	0.2	3	BUD	735015
ML	2.2	0.1	3	ILOC	735015

Sta	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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PSZ	0.15	281.9	Pg	06:58:27.061	0.5	T	2994.3	ML	2.2	735016	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_				
PSZ	0.15	281.9	Lg	06:58:29.787	0.1	T				735019	FDSN	GE	--	BUD	BUD	HHN	???	_				
				(Reading ML: 2.2 magdef=1)																		
				(Station ML: 2.2 magdef=1)																		
PSZI	0.15	281.7	I	06:59:03.374	-6.7	98.1	-3.4	347.10	8.8	TA				111111	FDSN	HU	--	BUD	BUD	???	???	_
HU03A	0.34	272.8	Lg	06:58:36.026	0.3	T								735021	FDSN	Z6	00	BUD	BUD	HHN	???	_
HU02A	0.37	50.0	Pg	06:58:31.332	0.6	T	376.2	ML	1.9	735017	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_				
HU02A	0.37	50.0	Lg	06:58:35.462	-1.5	T								735020	FDSN	Z6	00	BUD	BUD	HHN	???	_
				(Reading ML: 1.9 magdef=1)																		
				(Station ML: 1.9 magdef=1)																		
CP17A	0.43	39.1	Pg	06:58:32.334	0.7	T	555.2	ML	2.2	735018	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_				
CP17A	0.43	39.1	Lg	06:58:36.763	-1.6	T								735022	FDSN	Z6	00	BUD	BUD	HHN	???	_
				(Reading ML: 2.2 magdef=1)																		
				(Station ML: 2.2 magdef=1)																		
CP16A	0.54	32.4	Lg	06:58:41.963	-0.0	T								735023	FDSN	Z6	00	BUD	BUD	HHN	???	_
HU01A	0.64	211.4	Lg	06:58:44.632	-1.7	T								735024	FDSN	Z6	00	BUD	BUD	HHN	???	_
KECS	0.65	22.9	Lg	06:58:45.325	-0.4	T								735025	FDSN	SK	--	BUD	BUD	EHN	???	_
HU04B	1.17	203.2	Sn	06:59:01.937	-0.4	T								735026	FDSN	Z6	00	BUD	BUD	HHN	???	_
HU09A	1.19	258.5	Sn	06:59:03.854	0.4	T								735027	FDSN	Z6	00	BUD	BUD	HHN	???	_
HU08A	1.55	253.6	Sn	06:59:13.425	1.4	T								735028	FDSN	Z6	00	BUD	BUD	HHN	???	_

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023rkik Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/09/05	13:43:02.66	1.02	0.36	48.3710	21.8488	16.2	4.4	143	0.0A	0.0	11	7	225	0.41	1.39	m	se BUD	735055	BUD			
2023/09/05	13:43:02.17	1.62	0.65	48.4509	21.7489	8.9	6.7	84	0.0f		12	8	210	0.37	1.35		se ILOC	735055	ILOC			332

(#PRIME)  
(Locality: Bara Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.7	4	BUD	735055
MLv	1.7	0.3	4 BUD	735055
ML	1.6	0.4	4 ILOC	735055

Sta	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	0.37	245.7	Pg	13:43:10.177	0.3	T						70.2		ML	1.2	735062	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.37	245.7	Lg	13:43:15.798	-0.7	T									735061	FDSN	HU	--	BUD	BUD	HHN	???	_	
				(Reading ML: 1.2 magdef=1)																				
				(Station ML: 1.2 magdef=1)																				
KOLS	0.59	35.5	Lg	13:43:22.949	-0.6	T									735063	FDSN	SK	--	BUD	BUD	HHN	???	_	
CP16A	0.81	262.8	Pn	13:43:19.375	-0.1	T						60.0		ML	1.7	735057	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
CP16A	0.81	262.8	Lg	13:43:31.040	0.4	T									735064	FDSN	Z6	00	BUD	BUD	HHN	???	_	
				(Reading ML: 1.7 magdef=1)																				
				(Station ML: 1.7 magdef=1)																				
KECS	0.84	272.7	Pn	13:43:20.088	0.0	T						106.4		ML	2.0	735056	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
KECS	0.84	272.7	Lg	13:43:31.551	0.0	T									735065	FDSN	SK	--	BUD	BUD	EHN	???	_	
				(Reading ML: 2.0 magdef=1)																				
				(Station ML: 2.0 magdef=1)																				
CP17A	0.86	254.8	Lg	13:43:32.682	0.4	T									735058	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU02A	0.88	248.5	Pn	13:43:20.248	-0.5	T						33.2		ML	1.5	735059	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.88	248.5	Lg	13:43:32.384	-1.5	T									735060	FDSN	Z6	00	BUD	BUD	HHN	???	_	
				(Reading ML: 1.5 magdef=1)																				
				(Station ML: 1.5 magdef=1)																				
PSZ	1.35	247.5	Sn	13:43:47.647	0.2	T									735066	FDSN	GE	--	BUD	BUD	HHN	???	_	
PSZI	1.35	247.4	I	13:50:24.408	-41.2	63.7	-2.4	351.00	-17.1	A					111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP



BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023rlwc 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
2023/09/06	09:46:33.18	1.20	0.70	48.6695	20.7853	12.7	4.5	173	0.0A	0.0	8	6	247	0.27	1.29	m	se BUD	735172	BUD			
2023/09/06	09:46:33.63	1.29	1.30	48.5469	20.7921	8.3	5.0	151	0.0f		9	7	216	0.21	1.24		se ILOC	735172	ILOC			245

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

Magnitude	Err	Nsta	Author	OrigID
M	1.9	2	BUD	735172
MLv	1.9	0.2	2 BUD	735172
ML	1.7	0.2	2 ILOC	735172

Sta	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	252.7	Pg	09:46:37.861	-0.2					T__		942.7			ML	1.9	735176	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
KECS	0.21	252.7	Lg	09:46:41.918	0.3					T__						735175	FDSN	SK	--	BUD	BUD	EHN	???	_	
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																									
CPl6A	0.26	219.4	Lg	09:46:45.317	2.0					T__						735177	FDSN	Z6	00	BUD	BUD	HHN	???	_	
ABAH	0.39	129.9	Lg	09:46:48.808	0.3					T__						735178	FDSN	HU	--	BUD	BUD	HHN	???	_	
HU02A	0.46	202.9	Lg	09:46:49.942	-1.0					T__						735179	FDSN	Z6	00	BUD	BUD	HHN	???	_	
PSZ	0.87	224.0	Pn	09:46:51.696	-0.5					T__		44.3			ML	1.6	735174	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.87	224.0	Lg	09:47:04.641	-0.4					T__						735173	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																									
PSZI	0.87	224.0	I	09:51:24.964	-1.9	44.1	0.8	348.50	12.0	T__						111111	FDSN	HU	--	BUD	BUD	???	???	_	
TRPA	1.24	109.0	Sn	09:47:15.001	-0.9					T__						735180	FDSN	HU	--	BUD	BUD	HHN	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023rlzd Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp		
2023/09/06	11:18:32.13	0.63	0.52	46.3731	23.1706	9.9	4.3	70	0.0A	0.0	7	4	192	0.53	1.31	m	se BUD	735200	BUD					
2023/09/06	11:18:31.44	0.88	0.97	46.3715	23.1255	8.6	4.2	79	0.0f		8	5	187	0.51	2.69		se ILOC	735200	ILOC					228

(#PRIME)  
(Locality: Rosia-Poieni Romania)

Magnitude	Err	Nsta	Author	OrigID
M	1.6	3	BUD	735200
MLv	1.6	0.2	3 BUD	735200
ML	1.5	0.2	3 ILOC	735200

Sta	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	0.51	325.9	Pg	11:18:42.881	1.1					T__		46.0			_c_ ML	1.4	735201	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
DRGR	0.51	325.9	Lg	11:18:48.630	-1.6					T__						735202	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.4 magdef=1 Station ML: 1.4 magdef=1)																									
GZR	1.01	194.1	Pg	11:18:50.674	0.0					T__		30.0			ML	1.5	735205	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
GZR	1.01	194.1	Lg	11:19:05.408	0.7					T__						735206	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=1)																									
LOT	1.03	153.8	Lg	11:19:05.322	-0.7					T__						735207	FDSN	RO	--	BUD	BUD	HHN	???	_	
BZS	1.29	234.9	Pn	11:18:55.784	-0.2					T__		45.4			ML	1.9	735204	FDSN	RO	--	BUD	BUD	HHZ	HHZ	_
BZS	1.29	234.9	Lg	11:19:14.095	-0.2					T__						735203	FDSN	RO	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.9 magdef=1)																									

(Station ML: 1.9 magdef=1  
PSZI 2.69 306.2 I 11:40:09.104 279.4 121.2 -2.7 317.90 -73.1 A\_ 111111 FDSN HU -- BUD BUD ??? ??? \_

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023rntt 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
2023/09/07	07:49:39.06	0.32	0.94	48.4121	17.2025	4.5	4.0	90	0.0A	0.0	10	6	93	0.06	1.02	m	se BUD	735233	BUD			
2023/09/07	07:49:38.01	0.51	1.96	48.4340	17.1776	4.4	3.6	23	0.0f		12	7	86	0.09	1.89		se ILOC	735233	ILOC			128

(#PRIME)  
(Locality: Solosnica Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.5	4	BUD	735233
MLv	1.5 0.4	4	BUD	735233
ML	1.5 0.4	4	ILOC	735233

Sta	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	0.09	132.2	Pg	07:49:39.198	-0.5					T__						735234	FDSN	SK	--	BUD	BUD	HHZ	???	_
MODS	0.09	132.2	Lg	07:49:40.688	-0.2					T__						735235	FDSN	SK	--	BUD	BUD	HHN	???	_
JAVC	0.54	37.4	Pg	07:49:48.225	-0.1					T__	139.0			ML	1.9	735236	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	_
JAVC	0.54	37.4	Sb	07:49:58.168	-0.5					T__						735237	FDSN	CZ	--	BUD	BUD	HHN	???	_
(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																								
KRUC	0.81	320.8	Pb	07:49:55.102	0.0					T__		28.4		ML	1.4	735239	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	_
KRUC	0.81	320.8	Lg	07:50:05.621	1.4					T__						735238	FDSN	CZ	--	BUD	BUD	HHN	???	_
(Reading ML: 1.4 magdef=1 Station ML: 1.4 magdef=1)																								
RONA	0.94	219.1	Pb	07:49:57.146	-0.1					T__						735240	FDSN	OE	--	BUD	BUD	HHZ	???	_
RONA	0.94	219.1	Lg	07:50:09.453	1.1					T__						735241	FDSN	OE	--	BUD	BUD	HHN	???	_
VRAC	0.96	336.4	Pb	07:49:57.530	0.0					T__	8.1			ML	0.9	735242	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	_
(Reading ML: 0.9 magdef=1 Station ML: 0.9 magdef=1)																								
CONA	1.02	240.6	Pn	07:49:59.872	0.3					T__	38.9			ML	1.7	735243	FDSN	OE	--	BUD	BUD	HHZ	HHZ	_
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																								
PSZI	1.89	104.8	I	08:01:32.436	5.5	289.0	2.1	328.00	-80.1	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023rnow 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
2023/09/07	08:22:48.41	1.17	0.41	48.3991	19.7454	11.7	5.7	131	0.0A	0.0	9	6	271	0.49	1.00	m	se BUD	735269	BUD			
2023/09/07	08:22:48.92	0.65	1.05	48.3071	19.8580	4.4	1.6	173	0.0f		11	7	250	0.39	0.92		se ILOC	735269	ILOC			268

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

Magnitude	Err	Nsta	Author	OrigID
M	2.3	3	BUD	735269
MLv	2.3 0.3	3	BUD	735269
ML	2.1 0.3	3	ILOC	735269

Sta	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	0.39	176.4	Pg	08:22:57.657	0.1					T__		241.6		ML	1.8	735270	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.39	176.4	Lg	08:23:04.471	0.5					T__						735271	FDSN	GE	--	BUD	BUD	HHN	???	_

```

(Reading ML: 1.8 magdef=1
(Station ML: 1.8 magdef=1
PSZI 0.39 176.5 I 08:24:52.601 -2.8 359.3 2.8 339.20 5.9 TA_ 111111 FDSN HU -- BUD BUD ??? ??? _
CP17A 0.45 101.2 Lg 08:23:05.152 0.2 T_ 735272 FDSN Z6 00 BUD BUD HHN ??? _
KECS 0.45 66.9 Pg 08:22:57.817 -0.3 T_ 385.8 ML 2.1 735274 FDSN SK -- BUD BUD EHZ EHZ _
KECS 0.45 66.9 Lg 08:23:04.689 -0.4 T_ 735275 FDSN SK -- BUD BUD EHN ??? _
(Reading ML: 2.1 magdef=1
(Station ML: 2.1 magdef=1
CP16A 0.46 85.3 Pg 08:22:58.509 0.3 T_ 613.2 ML 2.4 735273 FDSN Z6 00 BUD BUD HHZ HHZ _
CP16A 0.46 85.3 Lg 08:23:05.248 0.0 T_ 735276 FDSN Z6 00 BUD BUD HHN ??? _
(Reading ML: 2.4 magdef=1
(Station ML: 2.4 magdef=1
HU02A 0.48 112.3 Lg 08:23:06.741 -0.3 T_ 735277 FDSN Z6 00 BUD BUD HHN ??? _
ABAH 0.92 90.2 Lg 08:23:21.485 -0.1 T_ 735278 FDSN HU -- BUD BUD HHN ??? _

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023rynw Hungary

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Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2023/09/13 08:22:52.25 0.59 1.15 47.3621 18.3922 6.7 4.5 81 0.0A 0.0 6 5 172 0.09 1.29 m se BUD 735414 BUD
2023/09/13 08:22:48.83 1.00 2.04 47.4025 18.5008 4.9 3.9 66 0.0f 8 6 114 0.17 1.34 se ILOC 735414 ILOC 193
(#PRIME)
(Locality: Gánt Hungary)

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Magnitude Err Nsta Author OrigID
M 1.7 1 BUD 735414
MLv 1.7 0.0 1 BUD 735414

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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
CSKK 0.17 256.5 Pg 08:22:52.148 0.1 T_ 1367.3 ML 1.9 735416 FDSN HU -- BUD BUD HHZ HHZ _
CSKK 0.17 256.5 Lg 08:22:53.937 -0.3 T_ 735415 FDSN HU -- BUD BUD HHN ??? _
(Reading ML: 1.9 magdef=1
(Station ML: 1.9 magdef=0
HU09A 0.25 341.3 Sb 08:23:01.332 4.5 T_ 735417 FDSN Z6 00 BUD BUD HHN ??? _
MPLH 0.69 250.8 Sb 08:23:13.584 -0.3 T_ 735418 FDSN HU -- BUD BUD HHN ??? _
PSZI 1.07 60.8 I 08:28:58.723 -0.8 246.3 4.5 320.70 -25.8 TA_ 111111 FDSN HU -- BUD BUD ??? ??? _
MORH 1.19 175.2 Sn 08:23:29.726 0.1 T_ 735419 FDSN HU -- BUD BUD HHN ??? _
KOVH 1.34 192.0 Sn 08:23:33.231 -0.1 T_ 735420 FDSN HU -- BUD BUD HHN ??? _

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```

STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023shqz Czech and Slovak Republics

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Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2023/09/18 08:10:21.24 0.62 0.25 48.5071 17.5153 9.6 3.6 119 0.0A 0.0 8 6 205 0.21 1.25 m se BUD 735437 BUD
2023/09/18 08:10:16.60 0.80 0.89 48.5168 17.6860 4.8 4.4 157 0.0f 10 7 117 0.31 1.59 se ILOC 735437 ILOC 230
(#PRIME)
(Locality: Boleraz Slovakia)

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```

Magnitude Err Nsta Author OrigID
M 1.2 1 BUD 735437
MLv 1.2 0.0 1 BUD 735437

```

```

Sta 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 0.31 242.4 Pb 08:10:25.258 0.3 T_ 735438 FDSN SK -- BUD BUD HHZ ??? _
MODS 0.31 242.4 Lg 08:10:27.472 1.0 T_ 735439 FDSN SK -- BUD BUD HHN ??? _

```

JAVC	0.34	358.3	Pn	08:10:28.622	-0.3	T	75.1	ML	1.1	735440	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	_	
JAVC	0.34	358.3	Sb	08:10:32.497	0.8	T				735441	FDSN	CZ	--	BUD	BUD	HHN	???	_	
				(Reading ML: 1.1 magdef=1)															
				(Station ML: 1.1 magdef=0)															
ZST	0.50	230.7	Sb	08:10:34.626	-1.6	T				735442	FDSN	SK	--	BUD	BUD	HHN	???	_	
KRUC	1.01	303.1	Sb	08:10:51.149	0.3	T				735443	FDSN	CZ	--	BUD	BUD	HHN	???	_	
RONA	1.24	229.2	Sb	08:10:57.621	0.2	T				735444	FDSN	OE	--	BUD	BUD	HHN	???	_	
CONA	1.35	244.9	Sn	08:11:01.880	0.3	T				735445	FDSN	OE	--	BUD	BUD	HHN	???	_	
PSZI	1.59	111.3	I	08:20:02.559	1.0	296.7	3.8	334.90	-53.9	TA						???	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023shsk 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
2023/09/18	08:53:14.46	0.68	0.43	48.4919	17.5405	10.3	3.8	120	0.0A	0.0	8	5	211	0.21	1.26	m	se BUD	735463	BUD			
2023/09/18	08:53:13.27	1.37	0.88	48.4947	17.5358	12.9	3.3	120	0.0f		9	6	114	0.21	1.68		se ILOC	735463	ILOC			210
(#PRIME)																						
(Locality: Boleraz Slovakia)																						

Magnitude	Err	Nsta	Author	OrigID
M	1.6	2	BUD	735463
MLv	1.6	0.2	2 BUD	735463
ML	1.6	0.3	2 ILOC	735463

Sta	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	0.21	235.0	Pg	08:53:18.478	0.4					T						735464	FDSN	SK	--	BUD	BUD	HHZ	???	_	
MODS	0.21	235.0	Lg	08:53:21.217	-0.8					T						735465	FDSN	SK	--	BUD	BUD	HHN	???	_	
JAVC	0.38	13.7	Pg	08:53:21.856	0.5					T	118.3				ML	1.4	735466	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	_
JAVC	0.38	13.7	Lg	08:53:26.567	-1.1					T						735468	FDSN	CZ	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									
ZST	0.42	224.2	Lg	08:53:27.718	-1.0					T						735469	FDSN	SK	--	BUD	BUD	HHN	???	_	
KRUC	0.94	307.4	Lg	08:53:44.914	-0.4					T						735470	FDSN	CZ	--	BUD	BUD	HHN	???	_	
CONA	1.26	243.8	Pn	08:53:36.865	-0.9					T	36.8				ML	1.8	735467	FDSN	OE	--	BUD	BUD	HHZ	HHZ	_
CONA	1.26	243.8	Lg	08:53:54.869	0.7					T						735471	FDSN	OE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
PSZI	1.68	109.2	I	09:05:47.017	132.5	294.5	3.5	333.70	-61.7	A						111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023sjmz Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2023/09/19	08:25:50.76	1.61	0.25	47.7276	19.1225	20.6	4.9	14	0.0A	0.0	6	4	259	0.14	1.02	m	kx BUD	735489	BUD				
2023/09/19	08:25:50.42			47.8355	19.1270				0.0								kx BUD_GT	1	BUD				
2023/09/19	08:25:50.42	0.72	3.35	47.8838	19.1634	3.2	2.0	90	0.0f		8	5	186	0.10	0.95		kx ILOC	735489	ILOC				348
(#PRIME)																							
(Locality: Sejce-Vác Hungary)																							
(GT info : GT2 explosion)																							

Magnitude	Err	Nsta	Author	OrigID
M	1.4	2	BUD	735489
MLv	1.4	0.1	2 BUD	735489
ML	1.4	0.1	2 ILOC	735489

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU10A	0.10	248.4	Pg	08:25:53.799	0.8					T__		506.7		___	ML	1.3	735490	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU10A	0.10	248.4	Lg	08:25:54.437	-0.9					T__				___		735491	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1)																									
(Station ML: 1.3 magdef=1)																									
HU03A	0.29	85.9	Lg	08:26:01.932	0.2					T__				___		735492	FDSN	Z6	00	BUD	BUD	HHN	???	_	
PSZI	0.49	85.8	I	08:28:38.331	-7.3	261.0	-5.3	323.80	-8.3	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	0.49	85.7	Lg	08:26:08.533	-0.6					T__				___		735493	FDSN	GE	--	BUD	BUD	HHN	???	_	
HU02A	0.95	74.9	Pn	08:26:09.938	-0.0					T__		27.3		___	ML	1.5	735495	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.95	74.9	Lg	08:26:24.075	-0.9					T__				___		735494	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1)																									
(Station ML: 1.5 magdef=1)																									

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023slir Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2023/09/20	08:30:58.18	0.44	0.59	48.0036	20.3296	10.6	3.2	120	0.0A	0.0	9	6	166	0.18	0.82	m	se BUD	735517	BUD				
2023/09/20	08:30:56.46	0.93	0.99	47.9471	20.2984	4.8	1.4	85	0.0f		11	7	125	0.23	0.76		se ILOC	735517	ILOC			164	
(#PRIME)																							
(Locality: Eger Hungary)																							

Magnitude	Err	Nsta	Author	OrigID
M	1.7	3	BUD	735517
MLv	1.7	0.3	3 BUD	735517
ML	1.8	0.3	3 ILOC	735517

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU02A	0.23	40.9	Pg	08:31:00.769	-0.1					T__		476.8		___	ML	1.6	735518	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.23	40.9	Lg	08:31:03.322	-0.6					T__				___		735521	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.6 magdef=1)																									
(Station ML: 1.6 magdef=1)																									
PSZI	0.27	264.0	I	08:32:22.807	-2.0	80.4	-3.3	365.10	29.8	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
CP17A	0.31	27.6	Pg	08:31:02.281	-0.1					T__		441.8		___	ML	1.8	735519	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
CP17A	0.31	27.6	Lg	08:31:05.963	-0.4					T__				___		735522	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
HU23A	0.31	186.1	Sb	08:31:09.412	-1.1					T__				___		735523	FDSN	Z6	00	BUD	BUD	HHN	???	_	
CP16A	0.43	22.2	Lg	08:31:09.838	-0.4					T__				___		735524	FDSN	Z6	00	BUD	BUD	HHN	???	_	
ABAH	0.72	60.7	Pb	08:31:12.352	0.5					T__		140.4		___	ML	2.0	735520	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
ABAH	0.72	60.7	Sg	08:31:19.717	0.1					T__				___		735525	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.0 magdef=1)																									
(Station ML: 2.0 magdef=1)																									
HU01A	0.76	217.5	Sb	08:31:24.742	1.4					T__				___		735526	FDSN	Z6	00	BUD	BUD	HHN	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023sniy Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp	
2023/09/21	10:55:37.72	1.07	0.56	47.7892	20.1609	12.6	3.8	165	0.0A	0.0	11	7	232	0.22	0.88	m	se BUD	735574	BUD				
2023/09/21	10:55:37.28	0.52	0.66	47.8594	20.1448	3.7	0.7	110	0.0f		13	8	218	0.18	0.85		se ILOC	735574	ILOC			233	
(#PRIME)																							
(Locality: Kiszána Hungary)																							

Magnitude	Err	Nsta	Author	OrigID
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M 1.8 4 BUD 735574  
 MLv 1.8 0.1 4 BUD 735574  
 ML 1.7 0.1 4 ILOC 735574

Sta	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	289.4	Pg	10:55:42.086	0.4					T__		702.8		___	ML	1.6	735577	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.18	289.4	Lg	10:55:44.427	-0.9					T__				___		735579	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.6 magdef=1 Station ML: 1.6 magdef=1)																									
PSZI	0.18	289.2	I	10:56:35.746	0.9	104.0	-5.0	343.90	6.4	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
HU02A	0.37	44.0	Pg	10:55:45.163	-0.1					T__		135.7		___	ML	1.5	735575	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.37	44.0	Lg	10:55:50.729	-0.8					T__				___		735581	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=1)																									
HU03A	0.37	277.1	Lg	10:55:50.559	-0.7					T__				___		735580	FDSN	Z6	00	BUD	BUD	HHN	???	_	
CP17A	0.44	34.2	Pg	10:55:46.536	0.2					T__		163.8		___	ML	1.7	735576	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
CP17A	0.44	34.2	Lg	10:55:52.943	-0.2					T__				___		735582	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
CP16A	0.55	28.6	Lg	10:55:57.824	0.9					T__				___		735578	FDSN	Z6	00	BUD	BUD	HHN	???	_	
KECS	0.66	19.9	Pg	10:55:51.070	0.4					T__		76.2		___	ML	1.8	735584	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
KECS	0.66	19.9	Lg	10:56:00.693	-0.1					T__				___		735583	FDSN	SK	--	BUD	BUD	EHN	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
ABAH	0.85	58.8	Lg	10:56:07.422	-0.7					T__				___		735585	FDSN	HU	--	BUD	BUD	HHN	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023tbsp Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/09/29	07:42:46.02	0.51	0.77	47.0808	18.0619	6.7	3.8	99	0.0A	0.0	6	5	152	0.22	0.99	m	se BUD	735632	BUD			
2023/09/29	07:42:43.51	0.91	0.32	47.0872	18.0823	6.6	3.9	81	0.0F		7	6	124	0.23	1.48	se	ILOC	735632	ILOC			159

(#PRIME)  
 (Locality: Litér Hungary)

Magnitude Err Nsta Author OrigID  
 M 1.1 1 BUD 735632  
 MLv 1.1 0.0 1 BUD 735632

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
TIH	0.23	214.7	Lg	07:42:52.377	-0.3					T__				___		735637	FDSN	HU	--	BUD	BUD	HHN	???	_	
CSKK	0.30	23.7	Lg	07:42:55.784	0.0					T__				___		735636	FDSN	HU	--	BUD	BUD	HHN	???	_	
HU08A	0.36	342.6	Lg	07:42:57.487	-0.1					T__				___		735633	FDSN	Z6	00	BUD	BUD	HHN	???	_	
MPLH	0.38	282.8	Pg	07:42:51.611	-0.0					T__		65.5		___	ML	1.2	735635	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MPLH	0.38	282.8	Lg	07:42:58.424	0.5					T__				___		735634	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.2 magdef=1 Station ML: 1.2 magdef=0)																									
KOVH	1.00	179.3	Lg	07:43:18.523	0.1					T__				___		735638	FDSN	HU	--	BUD	BUD	HHN	???	_	
PSZI	1.48	55.2	I	07:52:55.278	73.3	242.5	5.9	310.10	-69.4	A_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023thfx 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
2023/10/02	08:06:39.36	0.61	0.72	48.7273	19.1167	7.0	3.9	3	0.0A	0.0	9	7	186	0.89	1.20	m	se BUD	735713	BUD			

2023/10/02 08:06:38.29 1.06 0.66 48.6731 19.1634 5.2 4.0 162 0.0f 11 8 180 0.83 1.16 se ILOC 735713 ILOC 247  
 (#PRIME)  
 (Locality: Horná Mičiná Slovakia)

Magnitude Err Nsta Author OrigID  
 M 1.8 2 BUD 735713  
 MLv 1.8 0.1 2 BUD 735713  
 ML 1.8 0.1 2 ILOC 735713

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
HU10A	0.83	186.7	Sb	08:07:07.267	-0.1					T						735714	FDSN	Z6	00	BUD	BUD	HHE	???	-
KECS	0.90	101.7	Sb	08:07:09.166	-0.1					T						735720	FDSN	SK	--	BUD	BUD	EHN	???	-
PSZ	0.90	146.9	Pn	08:06:58.648	0.4					T		72.3				735717	FDSN	GE	--	BUD	BUD	HHZ	HHZ	-
PSZ	0.90	146.9	Sb	08:07:09.677	0.3					T						735716	FDSN	GE	--	BUD	BUD	HHN	???	-
(Reading ML: 1.9 magdef=1)																								
(Station ML: 1.9 magdef=1)																								
PSZI	0.90	146.9	I	08:11:40.864	-1.5	326.4	-1.0	336.00	-1.5	TA						111111	FDSN	HU	--	BUD	BUD	???	???	-
JAVC	1.01	281.2	Sg	08:07:10.261	-0.3					T						735721	FDSN	CZ	--	BUD	BUD	HHN	???	-
SRO	1.03	213.8	Sn	08:07:14.570	-0.5					T						735715	FDSN	SK	--	BUD	BUD	EHN	???	-
HU02A	1.06	120.8	Pn	08:07:00.109	-0.4					T		45.7				735718	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	-
HU02A	1.06	120.8	Sn	08:07:16.396	0.4					T						735719	FDSN	Z6	00	BUD	BUD	HHN	???	-
(Reading ML: 1.8 magdef=1)																								
(Station ML: 1.8 magdef=1)																								
HU09A	1.16	207.1	Sb	08:07:17.321	0.6					T						735722	FDSN	Z6	00	BUD	BUD	HHN	???	-

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023thjh 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
2023/10/02	09:49:01.36	1.78	0.91	48.4877	19.4964	15.9	8.6	119	0.0A	0.0	6	4	295	0.63	0.78	m	se BUD	735740	BUD			
2023/10/02	09:49:00.42	1.32	0.77	48.4627	19.5579	5.7	3.0	155	0.0f		8	5	290	0.59	0.73		se ILOC	735740	ILOC			302

(#PRIME)  
 (Locality: Stozok Slovakia)

Magnitude Err Nsta Author OrigID  
 M 1.8 2 BUD 735740  
 MLv 1.8 0.4 2 BUD 735740  
 ML 1.7 0.4 2 ILOC 735740

Sta	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	0.59	157.4	Sb	09:49:22.075	-0.5					T						735746	FDSN	GE	--	BUD	BUD	HHN	???	-
PSZI	0.59	157.5	I	09:52:13.139	-0.9	337.5	-0.2	331.40	-0.4	TA						111111	FDSN	HU	--	BUD	BUD	???	???	-
KECS	0.62	87.8	Pb	09:49:13.804	-0.3					T		156.9				735745	FDSN	SK	--	BUD	BUD	EHZ	EHZ	-
KECS	0.62	87.8	Sb	09:49:22.568	-0.8					T						735744	FDSN	SK	--	BUD	BUD	EHN	???	-
(Reading ML: 2.0 magdef=1)																								
(Station ML: 2.0 magdef=1)																								
CP16A	0.67	100.1	Sb	09:49:25.435	0.8					T						735743	FDSN	Z6	00	BUD	BUD	HHN	???	-
HU02A	0.73	117.5	Pb	09:49:16.086	0.0					T		34.6				735741	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	-
HU02A	0.73	117.5	Lg	09:49:24.704	0.8					T						735742	FDSN	Z6	00	BUD	BUD	HHN	???	-
(Reading ML: 1.4 magdef=1)																								
(Station ML: 1.4 magdef=1)																								

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023tjha Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/10/03	10:57:39.51	1.03	0.61	47.9058	20.1830	21.0	3.3	159	0.0A	0.0	8	5	209	0.19	0.81	m	se BUD	735767	BUD			
2023/10/03	10:57:37.73	0.96	0.87	47.9055	20.1726	3.2	1.0	95	0.0f		10	6	209	0.19	0.82	se	ILOC	735767	ILOC			222

(#PRIME)  
(Locality: Kiszána Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.7	3	BUD	735767
MLv	1.7	0.3	3 BUD	735767
ML	1.7	0.4	3 ILOC	735767

Sta	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	0.19	274.1	Pg	10:57:42.540	0.2					T__		792.3		___	ML	1.7	735768	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.19	274.1	Lg	10:57:45.415	-0.6					T__				___		735769	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
PSZI	0.19	273.9	I	10:58:36.726	-1.5	98.4	4.7	344.20	6.9	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
HU02A	0.32	47.4	Pg	10:57:45.330	0.5					T__		139.4		___	ML	1.3	735772	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.32	47.4	Lg	10:57:49.843	-0.6					T__				___		735771	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.3 magdef=1 Station ML: 1.3 magdef=1)																									
HU03A	0.39	270.0	Lg	10:57:52.526	0.3					T__				___		735770	FDSN	Z6	00	BUD	BUD	HHN	???	_	
CP17A	0.39	35.8	Pg	10:57:46.100	0.3					T__		409.0		___	ML	2.0	735775	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
CP17A	0.39	35.8	Lg	10:57:51.210	-0.7					T__				___		735774	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 2.0 magdef=1 Station ML: 2.0 magdef=1)																									
ABAH	0.82	60.9	Lg	10:58:06.199	-1.1					T__				___		735773	FDSN	HU	--	BUD	BUD	HHN	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023tkxo 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
2023/10/04	08:26:32.59	0.42	0.39	48.4344	19.4846	4.4	4.2	37	0.0A	0.0	12	8	118	0.54	1.28	m	se BUD	735803	BUD			
2023/10/04	08:26:31.32	1.12	1.14	48.4080	19.5068	4.7	2.6	142	0.0f		14	9	118	0.51	1.30	se	ILOC	735803	ILOC			214

(#PRIME)  
(Locality: Stozok Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.7	4	BUD	735803
MLv	1.7	0.3	4 BUD	735803
ML	1.5	0.1	4 ILOC	735803

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU03A	0.51	172.9	Lg	08:26:50.123	0.3					T__				___		735810	FDSN	Z6	00	BUD	BUD	HHN	???	_	
PSZ	0.55	151.9	Pg	08:26:43.254	-0.0					T__		48.3		___	ML	1.5	735812	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.55	151.9	Lg	08:26:51.470	-0.5					T__				___		735811	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=1)																									
PSZI	0.55	152.0	I	08:29:34.954	2.0	332.8	0.5	322.30	-9.5	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
KECS	0.66	83.0	Pg	08:26:45.055	0.6					T__		262.1		___	ML	2.3	735807	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
KECS	0.66	83.0	Lg	08:26:54.221	-0.2					T__				___		735806	FDSN	SK	--	BUD	BUD	EHN	???	_	
(Reading ML: 2.3 magdef=1 Station ML: 2.3 magdef=1)																									
JOS	0.69	82.3	Pg	08:26:45.388	0.3					T__		40.7		___	ML	1.5	735809	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	_
JOS	0.69	82.3	Lg	08:26:55.248	-0.4					T__				___		735808	FDSN	Z6	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=1)																									
CP17A	0.70	105.4	Lg	08:26:55.912	-0.0					T__				___		735813	FDSN	Z6	00	BUD	BUD	HHN	???	_	



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HU02A 0.74 112.4 Pg      08:26:47.035  0.4      T__      46.6      ___ ML      1.6 735805      FDSN Z6      00 BUD      BUD      HHZ HHZ  _
HU02A 0.74 112.4 Lg      08:26:56.932 -1.2     T__      ___      ___      735804      FDSN Z6      00 BUD      BUD      HHN ???  _
(Reading ML: 1.6 magdef=1
(Station ML: 1.6 magdef=1
NIE 1.14 27.1 Lg      08:27:09.327 -0.1     T__      ___      ___      735814      FDSN PL      -- BUD      BUD      BHN ???  _
JAVC 1.30 291.0 Sn      08:27:13.358 -2.8     T__      ___      ___      735815      FDSN CZ      -- BUD      BUD      HHN ???  _

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023tlaj Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/10/04	09:51:58.44	0.31	0.59	46.9531	17.4196	3.4	3.3	110	0.0A	0.0	11	9	97	0.15	1.33	m	kx BUD	735842	BUD			
2023/10/04	09:51:56.79			46.8902	17.3220				0.0								kx BUD_GT	1	BUD			
2023/10/04	09:51:56.79	0.57	0.70	46.9592	17.4469	4.2	3.5	81	0.0f		12	10	93	0.15	1.92		kx ILOC	735842	ILOC			130

(#PRIME)  
(Localcity: Uzsa Hungary)  
(GT info : GT2 explosion)

Magnitude	Err	Nsta	Author	OrigID
M	1.6	2	BUD	735842
MLv	1.6	0.1	2 BUD	735842
ML	1.6	0.1	2 ILOC	735842

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACH	L
BADH	0.15	173.4	Lg	09:52:03.816	0.3					T__						735843	FDSN	HU	--	BUD	BUD	HHE	???	_
A261A	0.20	268.1	Lg	09:52:03.925	-1.2					T__						735844	FDSN	Z6	00	BUD	BUD	HHN	???	_
MPLH	0.22	16.7	Pg	09:52:02.282	0.4					T__		402.4		___ ML	1.5	735845	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MPLH	0.22	16.7	Lg	09:52:05.861	-0.1					T__				___		735846	FDSN	HU	--	BUD	BUD	HHN	???	_

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

A263A	0.33	195.9	Lg	09:52:08.137	-1.0					T__						735847	FDSN	Z6	00	BUD	BUD	HHN	???	_
CSKK	0.69	53.7	Lg	09:52:21.605	-0.8					T__						735848	FDSN	HU	--	BUD	BUD	HHN	???	_
A266A	0.71	127.3	Lg	09:52:21.500	-0.3					T__						735849	FDSN	Z6	00	BUD	BUD	HHN	???	_
KOGS	0.97	238.6	Lg	09:52:29.279	0.8					T__						735850	FDSN	SL	--	BUD	BUD	BHN	???	_
KOVH	0.98	152.4	Pg	09:52:17.017	0.3					T__		44.9		___ ML	1.7	735852	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
KOVH	0.98	152.4	Lg	09:52:30.675	0.1					T__				___		735851	FDSN	HU	--	BUD	BUD	HHN	???	_

(Reading ML: 1.7 magdef=1  
(Station ML: 1.7 magdef=1

ARSA	1.35	283.2	Sn	09:52:40.864	0.5					T__						735853	FDSN	OE	--	BUD	BUD	HHN	???	_
PSZI	1.92	59.1	I	10:03:08.132	-49.1	242.7	1.8	321.10	-88.1	A__						111111	FDSN	HU	--	BUD	BUD	???	???	_

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023tlak Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/10/04	09:53:18.03	0.34	0.33	46.9615	17.4170	4.1	3.6	71	0.0A	0.0	11	7	109	0.16	1.13	m	kx BUD	735878	BUD			
2023/10/04	09:53:16.69			46.8902	17.3220				0.0								kx BUD_GT	1	BUD			
2023/10/04	09:53:16.69	0.94	0.76	46.9630	17.4401	4.8	3.6	89	0.0f		12	8	111	0.16	1.92		kx ILOC	735878	ILOC			152

(#PRIME)  
(Localcity: Uzsa Hungary)  
(GT info : GT2 explosion)

Magnitude	Err	Nsta	Author	OrigID
M	1.9	4	BUD	735878
MLv	1.9	0.4	4 BUD	735878

ML 1.8 0.2 4 ILOC 735878

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
BADH	0.16	171.9	Pg	09:53:21.031	0.5					T__		1137.8		___	ML	1.8	735880	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
BADH	0.16	171.9	Lg	09:53:22.930	-0.6					T__				___		735879	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
A261A	0.20	267.0	Pg	09:53:21.797	0.5					T__		5908.3		___	ML	2.6	735881	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
A261A	0.20	267.0	Lg	09:53:23.989	-0.9					T__				___		735882	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 2.6 magdef=1 Station ML: 2.6 magdef=1)																									
MPLH	0.22	18.1	Pg	09:53:22.236	0.5					T__		383.6		___	ML	1.5	735884	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MPLH	0.22	18.1	Lg	09:53:24.828	-1.0					T__				___		735883	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1 Station ML: 1.5 magdef=1)																									
A263A	0.33	195.0	Lg	09:53:27.823	-1.3					T__				___		735885	FDSN	Z6	00	BUD	BUD	HHE	???	_	
KOGS	0.97	238.3	Lg	09:53:49.004	0.7					T__				___		735886	FDSN	SL	--	BUD	BUD	BHN	???	_	
KOVH	0.99	152.3	Pn	09:53:36.441	-0.2					T__		47.2		___	ML	1.7	735888	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
KOVH	0.99	152.3	Lg	09:53:50.391	-0.3					T__				___		735887	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.7 magdef=1 Station ML: 1.7 magdef=1)																									
MORH	1.12	131.6	Sn	09:53:54.774	-0.2					T__				___		735889	FDSN	HU	--	BUD	BUD	HHN	???	_	
PSZI	1.92	59.3	I	10:04:25.735	-52.3	241.6	0.5	321.30	-88.0	_A				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023tood Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/10/06	08:13:02.98	0.37	0.54	47.8582	20.1419	4.7	3.0	154	0.0A	0.0	12	10	107	0.18	0.86	m	se BUD	735918	BUD			
2023/10/06	08:13:01.28	0.51	1.62	47.8864	20.1144	3.1	0.6	102	0.0f		14	11	107	0.15	0.86	se	ILOC	735918	ILOC			206

(#PRIME)  
(Locality: Kisnána Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	2.1	3	BUD	735918
MLv	2.1	0.2	3 BUD	735918
ML	2.1	0.1	3 ILOC	735918

Sta	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	0.15	282.3	Pg	08:13:05.167	0.0					T__		2659.9		___	ML	2.1	735919	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.15	282.3	Lg	08:13:08.034	-0.3					T__				___		735922	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=1)																									
PSZI	0.15	282.1	I	08:13:45.673	-4.4	97.8	-4.1	349.00	10.9	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
HU23A	0.26	159.7	Lg	08:13:10.184	-1.7					T__				___		735923	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU03A	0.35	273.1	Lg	08:13:14.867	0.4					T__				___		735925	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU02A	0.36	49.3	Pg	08:13:09.613	0.4					T__		304.5		___	ML	1.8	735920	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.36	49.3	Lg	08:13:14.634	-0.8					T__				___		735924	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																									
CP17A	0.43	38.5	Pg	08:13:11.183	1.1					T__		501.4		___	ML	2.2	735921	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
(Reading ML: 2.2 magdef=1 Station ML: 2.2 magdef=1)																									
CP16A	0.54	31.9	Lg	08:13:20.789	0.3					T__				___		735926	FDSN	Z6	00	BUD	BUD	HHN	???	_	
KECS	0.65	22.4	Lg	08:13:25.076	0.9					T__				___		735927	FDSN	SK	--	BUD	BUD	EHN	???	_	
JOS	0.67	24.8	Lg	08:13:24.876	-0.2					T__				___		735928	FDSN	Z6	--	BUD	BUD	HHN	???	_	
HU10A	0.74	267.2	Lg	08:13:27.854	-0.6					T__				___		735929	FDSN	Z6	00	BUD	BUD	HHE	???	_	
ABAH	0.86	61.1	Lg	08:13:30.581	-1.7					T__				___		735930	FDSN	HU	--	BUD	BUD	HHN	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023toor 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
2023/10/06	08:30:02.26	0.47	0.92	48.4916	19.3338	5.9	4.0	23	0.0A	0.0	10	8	142	0.69	1.16	m	se BUD	735954	BUD			
2023/10/06	08:30:01.80	1.00	1.04	48.4838	19.3324	4.7	3.3	152	0.0f		12	9	143	0.68	1.16		se ILOC	735954	ILOC			247

(#PRIME)  
 (Locality: Stozok Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.8	2	BUD	735954
MLv	1.8	0.0	2	BUD
ML	1.8	0.1	2	ILOC

Sta	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	0.68	146.2	Pb	08:30:16.388	-0.2					T__		74.7			ML	1.8	735961	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.68	146.2	Lg	08:30:25.226	1.6					T__						735960	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
PSZI	0.68	146.3	I	08:33:44.514	-2.0	326.8	0.1	333.90	1.6	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_	
KECS	0.77	89.6	Sg	08:30:26.092	-0.3					T__						735958	FDSN	SK	--	BUD	BUD	EHN	???	_	
JOS	0.80	88.7	Sg	08:30:27.115	-0.5					T__						735959	FDSN	Z6	--	BUD	BUD	HHN	???	_	
CP16A	0.82	99.5	Lg	08:30:29.196	1.1					T__						735957	FDSN	Z6	00	BUD	BUD	HHN	???	_	
CP17A	0.83	108.2	Lg	08:30:28.967	0.5					T__						735962	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU02A	0.87	114.0	Pg	08:30:17.629	-0.9					T__		68.4			ML	1.8	735955	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.87	114.0	Sg	08:30:30.283	0.4					T__						735956	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1)																									
(Station ML: 1.8 magdef=1)																									
NIE	1.13	33.9	Sb	08:30:40.084	0.5					T__						735964	FDSN	PL	--	BUD	BUD	BHN	???	_	
JAVC	1.16	289.5	Sg	08:30:38.956	-0.2					T__						735963	FDSN	CZ	--	BUD	BUD	HHN	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023tufw 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
2023/10/09	10:51:30.84	1.00	0.55	48.4888	19.3801	9.1	4.8	101	0.0A	0.0	10	8	227	0.60	1.12	m	se BUD	735986	BUD			
2023/10/09	10:51:29.33	1.26	1.55	48.4681	19.3986	4.9	3.1	138	0.0f		12	9	225	0.58	1.12		se ILOC	735986	ILOC			280

(#PRIME)  
 (Locality: Stozok Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.5	2	BUD	735986
MLv	1.5	0.0	2	BUD
ML	1.5	0.0	2	ILOC

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
HU03A	0.58	166.5	Lg	10:51:50.801	0.5					T__						735994	FDSN	Z6	00	BUD	BUD	HHN	???	_
PSZ	0.64	148.7	Lg	10:51:52.164	-0.8					T__						735993	FDSN	GE	--	BUD	BUD	HHN	???	_
PSZI	0.64	148.8	I	10:55:05.504	4.3	329.5	0.3	340.60	8.6	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_
KECS	0.72	88.4	Lg	10:51:54.549	-0.1					T__						735988	FDSN	SK	--	BUD	BUD	EHN	???	_
JOS	0.76	87.5	Pg	10:51:44.925	0.5					T__		43.1				735987	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	_
JOS	0.76	87.5	Lg	10:51:56.037	0.2					T__						735996	FDSN	Z6	--	BUD	BUD	HHN	???	_
(Reading ML: 1.6 magdef=1)																								
(Station ML: 1.6 magdef=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	0.11	264.0	Pg	11:16:40.444	0.9					T__		7053.2			ML	2.5	736145	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.11	264.0	Lg	11:16:41.877	-0.4					T__						736148	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.5 magdef=1)																									
(Station ML: 2.5 magdef=1)																									
HU09A	0.27	353.6	Lg	11:16:47.802	0.4					T__						736146	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU08A	0.35	279.6	Lg	11:16:49.181	-0.9					T__						736149	FDSN	Z6	00	BUD	BUD	HHN	???	_	
BUD	0.42	74.8	Lg	11:16:53.408	0.5					T__						736151	FDSN	HU	--	BUD	BUD	HHN	???	_	
A267A	0.43	174.9	Lg	11:16:51.963	-0.9					T__						736150	FDSN	Z6	00	BUD	BUD	HHN	???	_	
SRO	0.45	350.2	Lg	11:16:53.619	-0.0					T__						736152	FDSN	SK	--	BUD	BUD	EHN	???	_	
TIH	0.60	217.6	Lg	11:16:57.688	-0.2					T__						736153	FDSN	HU	--	BUD	BUD	HHN	???	_	
HU10A	0.62	40.2	Lg	11:16:59.348	-0.3					T__						736154	FDSN	Z6	00	BUD	BUD	HHN	???	_	
MPLH	0.64	251.6	Pg	11:16:49.701	0.0					T__		109.7			ML	1.9	736147	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
(Reading ML: 1.9 magdef=1)																									
(Station ML: 1.9 magdef=1)																									
PSZI	1.13	60.8	I	11:24:26.261	76.1	246.5	4.7	291.10	-59.3	A_						111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	1.13	60.8	Lg	11:17:17.707	0.3					T__						736155	FDSN	GE	--	BUD	BUD	HHN	???	_	
MORH	1.17	172.6	Sn	11:17:16.701	0.1					T__						736156	FDSN	HU	--	BUD	BUD	HHN	???	_	
MODS	1.26	322.7	Sn	11:17:19.170	-0.6					T__						736157	FDSN	SK	--	BUD	BUD	HHN	???	_	
KOVH	1.31	190.0	Lg	11:17:22.002	0.3					T__						736158	FDSN	HU	--	BUD	BUD	HHN	???	_	
RONA	1.48	283.5	Sn	11:17:24.537	0.1					T__						736159	FDSN	OE	--	BUD	BUD	HHN	???	_	
HU02A	1.60	61.4	Lg	11:17:32.384	-0.8					T__						736160	FDSN	Z6	00	BUD	BUD	HHN	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023uguz Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/10/16	08:07:36.53	1.92	0.09	46.0567	17.9735	22.3	6.7	27	0.0A	0.0	5	3	274	0.09	1.15	m	se BUD	736177	BUD			
2023/10/16	08:07:36.18	1.31	0.87	46.1243	18.0249	12.6	5.8	43	0.0f		6	4	217	0.06	2.20		se ILOC	736177	ILOC			270

(#PRIME)  
(Locality: Bükkösd Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.4	2	BUD	736177
MLv	1.4	0.1	2 BUD	736177
ML	1.3	0.1	2 ILOC	736177

Sta	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	124.6	Pg	08:07:38.563	0.4					T__		756.6			ML	1.4	736178	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
KOVH	0.06	124.6	Lg	08:07:38.821	-1.2					T__						736181	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.4 magdef=1)																									
(Station ML: 1.4 magdef=1)																									
MORH	0.44	77.9	Pg	08:07:45.940	0.5					T__		46.1			ML	1.2	736179	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MORH	0.44	77.9	Lg	08:07:52.187	-0.3					T__						736182	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.2 magdef=1)																									
(Station ML: 1.2 magdef=1)																									
MPLH	1.10	342.5	Sn	08:08:13.566	-0.6					T__						736180	FDSN	HU	--	BUD	BUD	HHN	???	_	
PSZI	2.20	34.8	I	08:21:07.435	-22.7	215.0	-1.2	322.30	-89.5	A_						111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023uiqe 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
2023/10/17	07:58:55.40	0.41	0.42	48.4251	19.1066	7.0	3.4	17	0.0A	0.0	11	7	157	0.19	1.27	m	se BUD	736207	BUD			

2023/10/17 07:58:55.27 0.95 2.75 48.4672 19.0824 4.3 3.3 159 0.0f 13 8 144 0.17 1.24 se ILOC 736207 ILOC 264  
 (#PRIME)  
 (Locality: Hanisberg Slovakia)

Magnitude	Err	Nsta	Author	OrigID
M	1.7	3	BUD	736207
MLv	1.7	0.1	3	BUD
ML	1.8	0.1	4	ILOC

Sta	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	0.17	279.4	Pg	07:58:58.690	0.2					T__		3725.3		___	ML	2.3	736213	FDSN	SK	--	BUD	BUD	HHZ	HHZ	_
VYHS	0.17	279.4	Sg	07:59:01.147	0.6					T__				___		736214	FDSN	SK	--	BUD	BUD	HHN	???	_	
				(Reading ML: 2.3 magdef=1)				(Station ML: 2.3 magdef=1)																	
PSZI	0.77	135.1	I	08:03:21.436	8.5	318.5	2.8	337.30	3.5	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	0.77	135.0	Lg	07:59:19.216	-0.9					T__				___		736215	FDSN	GE	--	BUD	BUD	HHN	???	_	
KECS	0.93	88.5	Lg	07:59:25.129	-0.2					T__				___		736216	FDSN	SK	--	BUD	BUD	EHN	???	_	
JOS	0.97	87.8	Pg	07:59:13.871	0.0					T__		46.7		___	ML	1.7	736208	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	_
JOS	0.97	87.8	Lg	07:59:26.380	-0.1					T__				___		736209	FDSN	Z6	--	BUD	BUD	HHN	???	_	
				(Reading ML: 1.7 magdef=1)				(Station ML: 1.7 magdef=1)																	
CP16A	0.98	96.8	Lg	07:59:26.295	-0.5					T__				___		736210	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU02A	1.02	109.2	Pg	07:59:14.797	-0.1					T__		55.3		___	ML	1.8	736211	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	1.02	109.2	Sg	07:59:26.687	-1.4					T__				___		736217	FDSN	Z6	00	BUD	BUD	HHN	???	_	
				(Reading ML: 1.8 magdef=1)				(Station ML: 1.8 magdef=1)																	
NIE	1.24	39.7	Pg	07:59:19.758	0.6					T__		31.7		___	ML	1.7	736212	FDSN	PL	--	BUD	BUD	BHZ	BHZ	_
NIE	1.24	39.7	Sg	07:59:35.768	0.5					T__				___		736218	FDSN	PL	--	BUD	BUD	BHN	???	_	
				(Reading ML: 1.7 magdef=1)				(Station ML: 1.7 magdef=1)																	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023ukmv 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
2023/10/18	08:33:07.25	0.64	0.84	48.3640	19.8175	7.1	5.1	116	0.0A	0.0	12	8	203	0.45	1.11	m	se BUD	736251	BUD			
2023/10/18	08:33:05.99	1.02	0.69	48.3425	19.8328	4.4	2.1	168	0.0f		14	9	201	0.43	1.12		se ILOC	736251	ILOC			257

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

Magnitude	Err	Nsta	Author	OrigID
M	2.1	7	BUD	736251
MLv	2.1	0.2	7	BUD
ML	2.1	0.3	7	ILOC

Sta	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	174.4	Pg	08:33:15.404	0.0					T__		267.2		___	ML	1.9	736257	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.43	174.4	Lg	08:33:22.111	-0.2					T__				___		736258	FDSN	GE	--	BUD	BUD	HHN	???	_	
				(Reading ML: 1.9 magdef=1)				(Station ML: 1.9 magdef=1)																	
PSZI	0.43	174.5	I	08:35:25.194	0.5	358.7	4.1	351.90	19.1	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
KECS	0.46	71.8	Pg	08:33:15.425	0.2					T__		542.2		___	ML	2.3	736253	FDSN	SK	--	BUD	BUD	EHZ	EHZ	_
				(Reading ML: 2.3 magdef=1)				(Station ML: 2.3 magdef=1)																	
CP17A	0.47	105.0	Pg	08:33:15.958	0.3					T__		322.2		___	ML	2.1	736255	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
CP17A	0.47	105.0	Lg	08:33:22.760	-0.1					T__				___		736260	FDSN	Z6	00	BUD	BUD	HHN	???	_	
				(Reading ML: 2.1 magdef=1)				(Station ML: 2.1 magdef=1)																	

CP16A 0.47 89.8 Pg 08:33:16.234 0.7 T\_\_ 690.9 \_\_\_ ML 2.5 736254 FDSN Z6 00 BUD BUD HHZ HHZ \_  
 (Reading ML: 2.5 magdef=1  
 (Station ML: 2.5 magdef=0  
 JOS 0.50 71.7 Pg 08:33:15.936 -0.0 T\_\_ 269.5 \_\_\_ ML 2.1 736252 FDSN Z6 -- BUD BUD HHZ HHZ \_  
 JOS 0.50 71.7 Lg 08:33:22.547 -1.0 T\_\_ \_\_\_ 736259 FDSN Z6 -- BUD BUD HHN ??? \_  
 (Reading ML: 2.1 magdef=1  
 (Station ML: 2.1 magdef=1  
 HU02A 0.51 115.2 Pg 08:33:16.815 -0.0 T\_\_ 126.1 \_\_\_ ML 1.8 736256 FDSN Z6 00 BUD BUD HHZ HHZ \_  
 HU02A 0.51 115.2 Lg 08:33:24.363 -0.7 T\_\_ \_\_\_ 736261 FDSN Z6 00 BUD BUD HHN ??? \_  
 (Reading ML: 1.8 magdef=1  
 (Station ML: 1.8 magdef=1  
 ABAH 0.94 92.3 Lg 08:33:39.567 0.4 T\_\_ \_\_\_ 736262 FDSN HU -- BUD BUD HHN ??? \_  
 NIE 1.12 15.8 Pn 08:33:29.742 1.6 T\_\_ \_\_\_ 1.7 736263 FDSN PL -- BUD BUD BHZ BHZ \_  
 (Reading ML: 1.7 magdef=1  
 (Station ML: 1.7 magdef=0

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023uvlc Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/10/24	08:10:20.82	0.47	1.01	47.2061	18.3526	5.3	4.7	52	0.0A	0.0	6	5	113	0.17	1.26	m	se BUD	736290	BUD			
2023/10/24	08:10:18.08	1.20	1.52	47.2342	18.4246	4.9	4.7	69	0.0f		8	6	116	0.17	1.21		se ILOC	736290	ILOC			209

(#PRIME)  
(Locality: Iszkaszentgyörgy Hungary)

Magnitude	Err	Nsta	Author	OrigID	
M	1.4	1	BUD	736290	
MLv	1.4	0.0	1	BUD	736290

Sta	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	319.2	Pg	08:10:22.473	0.4					T__		440.2		___	ML	1.4	736291	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.17	319.2	Lg	08:10:25.072	-0.7					T__				___		736292	FDSN	HU	--	BUD	BUD	HHN	???	_	
HU08A	0.39	300.3	Lg	08:10:33.333	0.1					T__						736293	FDSN	Z6	00	BUD	BUD	HHN	???	_	
MPLH	0.61	264.3	Lg	08:10:39.040	-0.9					T__						736294	FDSN	HU	--	BUD	BUD	HHN	???	_	
MORH	1.03	171.5	Lg	08:10:53.177	-0.5					T__						736295	FDSN	HU	--	BUD	BUD	HHN	???	_	
PSZI	1.21	54.9	I	08:17:20.283	-1.9	241.3	5.3	315.30	-40.8	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	1.21	54.9	Sn	08:11:02.305	2.5					T__						736296	FDSN	GE	--	BUD	BUD	HHN	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023uvon Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/10/24	09:53:57.96	0.98	0.33	47.8545	20.1530	13.4	3.4	161	0.0A	0.0	10	7	219	0.19	0.85	m	se BUD	736317	BUD			
2023/10/24	09:53:56.96	1.36	1.60	47.9040	20.1143	11.8	3.0	165	0.0f		11	8	208	0.15	0.85		se ILOC	736317	ILOC			218

(#PRIME)  
(Locality: Kismána Hungary)

Magnitude	Err	Nsta	Author	OrigID	
M	1.7	3	BUD	736317	
MLv	1.7	0.3	3	BUD	736317
ML	1.6	0.3	3	ILOC	736317

Sta	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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PSZ 0.15 275.6 Pg 09:54:01.059 0.3 T__ 1570.6 ___ ML 1.9 736318 FDSN GE -- BUD BUD HHZ HHZ _
PSZ 0.15 275.6 Lg 09:54:03.539 -0.4 T__ ___ 736322 FDSN GE -- BUD BUD HHN ??? _
(Reading ML: 1.9 magdef=1
(Station ML: 1.9 magdef=1
PSZI 0.15 275.4 I 09:54:41.271 -3.7 97.3 2.0 347.50 9.3 T__ ___ 111111 FDSN HU -- BUD BUD ??? ??? _
HU03A 0.35 270.2 Lg 09:54:10.032 -0.0 T__ ___ 736324 FDSN Z6 00 BUD BUD HHN ??? _
HU02A 0.35 51.5 Pg 09:54:04.992 0.3 T__ 149.3 ___ ML 1.5 736319 FDSN Z6 00 BUD BUD HHZ HHZ _
HU02A 0.35 51.5 Lg 09:54:09.496 -1.2 T__ ___ 736323 FDSN Z6 00 BUD BUD HHN ??? _
(Reading ML: 1.5 magdef=1
(Station ML: 1.5 magdef=1
CP17A 0.41 40.0 Lg 09:54:11.848 -0.2 T__ ___ 736325 FDSN Z6 00 BUD BUD HHN ??? _
CP16A 0.52 32.9 Lg 09:54:14.928 -0.7 T__ ___ 736321 FDSN Z6 00 BUD BUD HHN ??? _
JOS 0.66 25.5 Pg 09:54:11.114 1.0 T__ 59.2 ___ ML 1.6 736320 FDSN Z6 -- BUD BUD HHZ HHZ _
JOS 0.66 25.5 Lg 09:54:20.365 0.2 T__ ___ 736326 FDSN Z6 -- BUD BUD HHN ??? _
(Reading ML: 1.6 magdef=1
(Station ML: 1.6 magdef=1
ABAH 0.85 62.1 Lg 09:54:25.722 -1.9 T__ ___ 736327 FDSN HU -- BUD BUD HHN ??? _

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023uvoz Hungary

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Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2023/10/24 10:09:00.34 1.14 0.57 47.8322 20.1502 15.3 4.4 157 0.0A 0.0 7 5 240 0.19 0.71 m kx BUD 736349 BUD
2023/10/24 10:08:59.87 47.8987 20.0893 0.0 kx BUD_GT 1 BUD
2023/10/24 10:08:59.87 0.97 0.87 47.9045 20.0985 3.3 0.7 96 0.0f 9 6 217 0.14 0.66 kx ILOC 736349 ILOC 228
(#PRIME)
(Locality: Recsk Hungary)
(GT info : GT2 explosion)

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Magnitude Err Nsta Author OrigID
M 1.6 3 BUD 736349
MLv 1.6 0.2 3 BUD 736349
ML 1.6 0.1 3 ILOC 736349

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Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude ArrID Agy Deploy Ln Auth Rep PCh Ach L
PSZ 0.14 275.8 Pg 10:09:04.013 0.6 T__ 979.7 ___ ML 1.7 736350 FDSN GE -- BUD BUD HHZ HHZ _
PSZ 0.14 275.8 Lg 10:09:06.738 0.3 T__ ___ 736351 FDSN GE -- BUD BUD HHN ??? _
(Reading ML: 1.7 magdef=1
(Station ML: 1.7 magdef=1
PSZI 0.14 275.6 I 10:09:43.223 -1.2 97.9 2.4 347.70 9.2 TA__ ___ 111111 FDSN HU -- BUD BUD ??? ??? _
HU03A 0.34 270.1 Pg 10:09:06.898 -0.3 T__ 236.1 ___ ML 1.6 736352 FDSN Z6 00 BUD BUD HHZ HHZ _
(Reading ML: 1.6 magdef=1
(Station ML: 1.6 magdef=1
HU02A 0.36 52.6 Pg 10:09:08.410 0.7 T__ 105.6 ___ ML 1.3 736353 FDSN Z6 00 BUD BUD HHZ HHZ _
HU02A 0.36 52.6 Lg 10:09:12.764 -1.1 T__ ___ 736354 FDSN Z6 00 BUD BUD HHN ??? _
(Reading ML: 1.3 magdef=1
(Station ML: 1.3 magdef=1
CP17A 0.42 41.2 Lg 10:09:14.523 -0.6 T__ ___ 736355 FDSN Z6 00 BUD BUD HHN ??? _
JOS 0.66 26.3 Lg 10:09:22.503 -0.7 T__ ___ 736356 FDSN Z6 -- BUD BUD HHN ??? _

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023vvgj Hungary

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Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2023/11/07 11:19:07.58 0.95 0.48 47.5374 18.5647 10.5 5.2 74 0.0A 0.0 6 4 228 0.16 1.32 m kx BUD 736406 BUD

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2023/11/07 11:19:00.07 47.5600 18.4573 0.0  
 2023/11/07 11:19:00.07 1.62 0.65 47.6090 18.7722 11.0 3.1 66 0.0f 7 5 150 0.27 1.40 kx BUD\_GT 1 BUD  
 (#PRIME) kx ILOC 736406 ILOC 267  
 (Locality: Tatabánya Hungary)  
 (GT info : GT2 explosion)

Magnitude Err Nsta Author OrigID  
 M 1.5 2 BUD 736406  
 MLv 1.5 0.3 2 BUD 736406  
 ML 1.9 0.2 2 ILOC 736406

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
HU09A	0.27	276.5	Pn	11:19:10.959	-0.3					T__		1048.3		ML	2.1	736407	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU09A	0.27	276.5	Lg	11:19:11.848	1.0					T__						736408	FDSN	Z6	00	BUD	BUD	HHN	???	_
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=1)																								
CSKK	0.43	234.9	Pn	11:19:13.552	0.1					T__		193.7		ML	1.8	736409	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.43	234.9	Lg	11:19:16.281	-0.1					T__						736412	FDSN	HU	--	BUD	BUD	HHN	???	_
(Reading ML: 1.8 magdef=1 Station ML: 1.8 magdef=1)																								
PSZI	0.82	67.4	I	11:24:41.759	67.8	251.4	3.2	321.50	-13.3	A_						111111	FDSN	HU	--	BUD	BUD	???	???	_
MPLH	0.95	242.8	Lg	11:19:32.320	-0.6					T__						736410	FDSN	HU	--	BUD	BUD	HHN	???	_
MORH	1.40	183.7	Lg	11:19:49.268	0.3					T__						736411	FDSN	HU	--	BUD	BUD	HHN	???	_

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023vyyu Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/11/09	12:01:57.01	0.33	0.31	47.9020	19.3871	7.0	2.4	158	0.0A	0.0	12	10	154	0.14	1.10	m	se BUD	736470	BUD			
2023/11/09	12:01:55.40	0.90	1.54	47.9014	19.3930	2.5	1.7	96	0.0f		14	11	154	0.14	1.10		se ILOC	736470	ILOC			166

(#PRIME)  
 (Locality: Szanda Hungary)

Magnitude Err Nsta Author OrigID  
 M 2.1 2 BUD 736470  
 MLv 2.1 0.0 2 BUD 736470  
 ML 2.1 0.0 2 ILOC 736470

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L
HU03A	0.14	88.9	Pg	12:01:59.978	1.2					T__		2523.0		ML	2.1	736471	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU03A	0.14	88.9	Lg	12:02:01.022	-0.4					T__						736472	FDSN	Z6	00	BUD	BUD	HHN	???	_
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=1)																								
HU10A	0.26	257.6	Pg	12:02:02.246	1.2					T__		1275.9		ML	2.1	736473	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU10A	0.26	257.6	Lg	12:02:05.269	-0.4					T__						736474	FDSN	Z6	00	BUD	BUD	HHN	???	_
(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=1)																								
PSZI	0.34	87.0	I	12:03:44.742	0.3	272.6	5.2	321.70	-12.4	TA_						111111	FDSN	HU	--	BUD	BUD	???	???	_
PSZ	0.34	86.9	Lg	12:02:07.308	-1.5					T__						736475	FDSN	GE	--	BUD	BUD	HHN	???	_
BUD	0.49	211.0	Lg	12:02:12.353	-1.5					T__						736476	FDSN	HU	--	BUD	BUD	HHN	???	_
HU23A	0.63	114.1	Lg	12:02:17.733	-1.0					T__						736477	FDSN	Z6	00	BUD	BUD	HHN	???	_
HU02A	0.79	73.4	Lg	12:02:22.504	-1.8					T__						736478	FDSN	Z6	00	BUD	BUD	HHN	???	_
CP16A	0.89	59.7	Lg	12:02:25.902	-0.6					T__						736479	FDSN	Z6	00	BUD	BUD	HHN	???	_
CSKK	0.94	235.3	Lg	12:02:26.955	-2.3					T__						736480	FDSN	HU	--	BUD	BUD	HHN	???	_
JOS	0.97	51.8	Lg	12:02:28.213	-1.6					T__						736481	FDSN	Z6	--	BUD	BUD	HHN	???	_
HU08A	1.10	245.2	Sn	12:02:31.636	-2.4					T__						736482	FDSN	Z6	00	BUD	BUD	HHN	???	_

STOP

BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023wasl Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/11/10	11:06:10.79	1.62	0.27	47.7617	20.2101	18.0	4.9	162	0.0A	0.0	6	4	259	0.26	0.77	m	se BUD	736540	BUD			
2023/11/10	11:06:11.04	0.75	2.50	47.8701	20.1372	4.0	0.7	107	0.0f		8	5	229	0.17	0.68		se ILOC	736540	ILOC			252

(#PRIME)  
(Locality: Kiszána Hungary)

Magnitude	Err	Nsta	Author	OrigID	
M	1.2	2	BUD	736540	
MLv	1.2	0.2	2	BUD	736540
ML	1.0	0.2	2	ILOC	736540

Sta	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	0.17	286.6	Pg	11:06:15.936	0.7					T__		231.6		___	ML	1.1	736541	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.17	286.6	Lg	11:06:18.513	-0.3					T__				___		736542	FDSN	GE	--	BUD	BUD	HNN	???	_	
(Reading ML: 1.1 magdef=1 Station ML: 1.1 magdef=1)																									
PSZI	0.17	286.3	I	11:07:00.541	-5.5	102.6	-3.6	348.40	10.7	TA__				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
HU02A	0.36	45.8	Pg	11:06:18.624	-0.3					T__		39.3		___	ML	0.9	736544	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU02A	0.36	45.8	Lg	11:06:24.272	-0.9					T__				___		736543	FDSN	Z6	00	BUD	BUD	HNN	???	_	
(Reading ML: 0.9 magdef=1 Station ML: 0.9 magdef=1)																									
HU03A	0.36	275.5	Lg	11:06:24.820	0.1					T__				___		736545	FDSN	Z6	00	BUD	BUD	HNN	???	_	
JOS	0.68	23.1	Lg	11:06:35.312	0.2					T__				___		736546	FDSN	Z6	--	BUD	BUD	HNN	???	_	

STOP  
BEGIN IMS2.0  
DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023wlne 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	
2023/11/16	08:56:35.23	0.42	0.86	48.2538	18.6741	4.3	3.3	158	0.0A	0.0	12	11	125	0.47	1.27	m	se BUD	736627	BUD				
2023/11/16	08:56:30.18	1.56	0.83	48.3024	18.6500	9.3	3.5	130	0.0f		13	12	129	0.52	1.27		se ILOC	736627	ILOC				230

(#PRIME)  
(Locality: Rybnik Slovakia)

Magnitude	Err	Nsta	Author	OrigID	
M	2.0	1	BUD	736627	
MLv	2.0	0.0	1	BUD	736627

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU10A	0.52	151.5	Pn	08:56:44.443	-0.4					T__		277.8		___	ML	2.2	736628	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU10A	0.52	151.5	Lg	08:56:50.304	0.8					T__				___		736631	FDSN	Z6	00	BUD	BUD	HNN	???	_	
(Reading ML: 2.2 magdef=1 Station ML: 2.2 magdef=0)																									
SRO	0.54	204.9	Lg	08:56:50.638	0.5					T__				___		736630	FDSN	SK	--	BUD	BUD	EHN	???	_	
HU03A	0.75	121.7	Sn	08:56:59.583	-0.8					T__				___		736632	FDSN	Z6	00	BUD	BUD	HNN	???	_	
JAVC	0.86	311.0	Sn	08:57:05.054	1.0					T__				___		736634	FDSN	CZ	--	BUD	BUD	HNN	???	_	
BUD	0.86	162.8	Sn	08:57:02.444	-0.7					T__				___		736633	FDSN	HU	--	BUD	BUD	HNN	???	_	
PSZI	0.92	114.3	I	09:00:58.072	-43.1	293.2	-2.0	323.50	-14.7	A__				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	0.92	114.3	Lg	08:57:02.680	-0.7					T__				___		736636	FDSN	GE	--	BUD	BUD	HNN	???	_	
CSKK	0.98	195.7	Lg	08:57:04.966	-0.3					T__				___		736629	FDSN	HU	--	BUD	BUD	HNN	???	_	
HU08A	1.00	209.6	Lg	08:57:05.735	0.2					T__				___		736635	FDSN	Z6	00	BUD	BUD	HNN	???	_	
CP16A	1.26	87.5	Lg	08:57:15.700	1.7					T__				___		736638	FDSN	Z6	00	BUD	BUD	HNN	???	_	
HU02A	1.27	97.5	Lg	08:57:14.486	-0.7					T__				___		736637	FDSN	Z6	00	BUD	BUD	HNN	???	_	
JOS	1.27	80.6	Lg	08:57:14.391	0.0					T__				___		736639	FDSN	Z6	--	BUD	BUD	HNN	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023wwoc Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/11/22	09:54:29.52	0.50	0.37	47.5917	18.4758	6.8	4.9	30	0.0A	0.0	5	3	159	0.08	0.39	m	kx BUD	736654	BUD			
2023/11/22	09:54:28.12			47.5600	18.4573				0.0								kx BUD_GT	1	BUD			
2023/11/22	09:54:28.12	1.01	3.45	47.5770	18.4622	4.2	3.4	80	0.0f		7	4	111	0.08	1.02		kx ILOC	736654	ILOC			217

(#PRIME)  
 (Locality: Tatabánya Hungary)  
 (GT info : GT2 explosion)

Magnitude	Err	Nsta	Author	OrigID
M	1.1	2	BUD	736654
MLv	1.1	0.3	2 BUD	736654
ML	1.1	0.3	2 ILOC	736654

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
HU09A	0.08	318.8	Pg	09:54:30.748	0.4					T__		557.7		___	ML	1.3	736655	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU09A	0.08	318.8	Lg	09:54:31.807	-0.7					T__				___			736659	FDSN	Z6	00	BUD	BUD	HNN	???	_
(Reading ML: 1.3 magdef=1 (Station ML: 1.3 magdef=1)																									
CSKK	0.25	212.7	Pg	09:54:34.363	0.7					T__		71.8		___	ML	0.9	736657	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.25	212.7	Lg	09:54:38.107	-0.5					T__				___			736656	FDSN	HU	--	BUD	BUD	HNN	???	_
(Reading ML: 0.9 magdef=1 (Station ML: 0.9 magdef=1)																									
BUD	0.39	103.6	Lg	09:54:41.758	-1.6					T__				___			736658	FDSN	HU	--	BUD	BUD	HNN	???	_
PSZI	1.02	70.0	I	10:00:26.265	6.6	249.1	-2.0	320.50	-23.0	TA__				___			111111	FDSN	HU	--	BUD	BUD	???	???	_

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023wwot 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	
2023/11/22	10:14:25.63	0.83	0.86	48.3236	19.8259	10.1	3.8	139	0.0A	0.0	10	6	229	0.41	0.51	m	se BUD	736683	BUD				
2023/11/22	10:14:24.72	1.01	1.17	48.2887	19.8636	4.1	1.8	169	0.0f		12	7	220	0.37	0.50		se ILOC	736683	ILOC				248

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

Magnitude	Err	Nsta	Author	OrigID
M	1.7	4	BUD	736683
MLv	1.7	0.0	4 BUD	736683
ML	1.6	0.1	4 ILOC	736683

Sta	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	0.37	176.8	Pg	10:14:33.195	0.2					T__		220.8		___	ML	1.7	736684	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.37	176.8	Lg	10:14:39.367	0.2					T__				___			736685	FDSN	GE	--	BUD	BUD	HNN	???	_
(Reading ML: 1.7 magdef=1 (Station ML: 1.7 magdef=1)																									
PSZI	0.37	176.9	I	10:16:27.245	2.2	359.2	2.3	349.70	16.2	TA__				___			111111	FDSN	HU	--	BUD	BUD	???	???	_
HU03A	0.42	204.8	Pg	10:14:33.889	0.1					T__		133.1		___	ML	1.6	736687	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU03A	0.42	204.8	Lg	10:14:40.097	-0.3					T__				___			736686	FDSN	Z6	00	BUD	BUD	HNN	???	_
(Reading ML: 1.6 magdef=1 (Station ML: 1.6 magdef=1)																									
CP17A	0.44	98.9	Lg	10:14:41.119	0.6					T__				___			736690	FDSN	Z6	00	BUD	BUD	HNN	???	_
CP16A	0.45	83.0	Lg	10:14:41.558	0.6					T__				___			736691	FDSN	Z6	00	BUD	BUD	HNN	???	_

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HU02A 0.47 110.4 Pg 10:14:34.838 0.1 T__ 102.2 ___ ML 1.6 736688 FDSN Z6 00 BUD BUD HHZ HHZ _
HU02A 0.47 110.4 Lg 10:14:39.878 -2.6 T__ ___ 736689 FDSN Z6 00 BUD BUD HHN ??? _
(Reading ML: 1.6 magdef=1
(Station ML: 1.6 magdef=1
JOS 0.50 65.0 Pg 10:14:34.820 0.1 T__ 118.2 ___ ML 1.8 736692 FDSN Z6 -- BUD BUD HHZ HHZ _
JOS 0.50 65.0 Lg 10:14:42.416 0.1 T__ ___ 736693 FDSN Z6 -- BUD BUD HHN ??? _
(Reading ML: 1.8 magdef=1
(Station ML: 1.8 magdef=1

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023xfqo Hungary

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Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2023/11/27 09:22:13.83 0.39 0.62 46.9529 17.4822 5.5 3.8 67 0.0A 0.0 7 5 122 0.15 1.09 m se BUD 736716 BUD
2023/11/27 09:22:11.64 1.14 0.99 46.9321 17.5598 6.4 3.5 133 0.0f 9 6 82 0.14 1.87 se ILOC 736716 ILOC 151
(#PRIME)
(Locality: Sümeg Hungary)

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Magnitude Err Nsta Author OrigID
M 1.5 2 BUD 736716
MLv 1.5 0.3 2 BUD 736716
ML 1.6 0.4 2 ILOC 736716

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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
BADH 0.14 205.3 Lg 09:22:16.871 -1.0 T__ 253.7 ___ ML 1.4 736719 FDSN HU -- BUD BUD HHN ??? _
MPLH 0.24 356.7 Pg 09:22:17.492 0.4 T__ ___ 736717 FDSN HU -- BUD BUD HHZ HHZ _
MPLH 0.24 356.7 Lg 09:22:20.486 -1.0 T__ ___ 736718 FDSN HU -- BUD BUD HHN ??? _
(Reading ML: 1.4 magdef=1
(Station ML: 1.4 magdef=1
A261A 0.28 274.2 Pg 09:22:18.624 0.8 T__ 648.1 ___ ML 1.9 736720 FDSN Z6 00 BUD BUD HHZ HHZ _
A261A 0.28 274.2 Lg 09:22:21.527 -1.0 T__ ___ 736723 FDSN Z6 00 BUD BUD HHN ??? _
(Reading ML: 1.9 magdef=1
(Station ML: 1.9 magdef=1
KOVH 0.92 156.0 Sn 09:22:45.648 0.4 T__ ___ 736721 FDSN HU -- BUD BUD HHE ??? _
MORH 1.04 133.4 Sn 09:22:49.409 1.4 T__ ___ 736722 FDSN HU -- BUD BUD HHN ??? _
PSZI 1.87 57.2 I 09:33:51.238 0.3 238.5 -0.5 310.20 -96.8 TA__ ___ 111111 FDSN HU -- BUD BUD ??? ??? _

```

```

STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023xuhb Czech and Slovak Republics

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Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID Rep DPdep Err Sgp
2023/12/05 09:36:30.33 0.38 0.73 48.6372 19.1411 4.6 3.9 13 0.0A 0.0 14 9 120 0.80 1.10 m se BUD 736784 BUD
2023/12/05 09:36:29.72 0.91 2.68 48.6609 19.1192 4.5 3.8 142 0.0f 16 10 123 0.82 1.09 se ILOC 736784 ILOC 220
(#PRIME)
(Locality: Slovakia)

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```

Magnitude Err Nsta Author OrigID
M 1.7 6 BUD 736784
MLv 1.7 0.1 6 BUD 736784
ML 1.7 0.0 6 ILOC 736784

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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
HU10A 0.82 184.7 Lg 09:36:56.010 -0.0 T__ 85.2 ___ 736794 FDSN Z6 00 BUD BUD HHN ??? _
HU03A 0.82 156.9 Pg 09:36:45.053 -0.4 T__ ___ ML 1.9 736793 FDSN Z6 00 BUD BUD HHZ HHZ _
(Reading ML: 1.9 magdef=1

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```

(Station ML: 1.9 magdef=1
PSZ 0.91 144.8 Pg 09:36:46.926 -0.1 T__ 49.0 ___ ML 1.7 736789 FDSN GE -- BUD BUD HHZ HHZ _
PSZ 0.91 144.8 Sb 09:36:59.787 -1.2 T__ ___ 736790 FDSN GE -- BUD BUD HHN ??? _
(Reading ML: 1.7 magdef=1
(Station ML: 1.7 magdef=1
PSZI 0.91 144.9 I 09:41:45.315 9.2 325.5 0.0 341.10 3.3 TA_ ___ 111111 FDSN HU -- BUD BUD ??? ??? _
JOS 0.96 99.4 Pg 09:36:46.948 -1.1 T__ ___ ML 1.6 736785 FDSN Z6 -- BUD BUD HHZ HHZ _
JOS 0.96 99.4 Sg 09:36:59.638 -0.8 T__ ___ 736786 FDSN Z6 -- BUD BUD HHN ??? _
(Reading ML: 1.6 magdef=1
(Station ML: 1.6 magdef=1
JAVC 0.98 282.2 Lg 09:37:02.726 1.5 T__ ___ 736797 FDSN CZ -- BUD BUD HHN ??? _
CP16A 1.00 108.1 Pg 09:36:48.944 0.1 T__ ___ ML 2.0 736796 FDSN Z6 00 BUD BUD HHZ HHZ _
CP16A 1.00 108.1 Lg 09:37:02.315 0.5 T__ ___ 736795 FDSN Z6 00 BUD BUD HHN ??? _
(Reading ML: 2.0 magdef=1
(Station ML: 2.0 magdef=0
CP17A 1.03 115.0 Sb 09:37:03.923 -0.4 T__ ___ 736798 FDSN Z6 00 BUD BUD HHN ??? _
HU02A 1.08 119.4 Pg 09:36:49.758 -0.7 T__ ___ ML 1.7 736788 FDSN Z6 00 BUD BUD HHZ HHZ _
HU02A 1.08 119.4 Sg 09:37:04.237 -0.2 T__ ___ 736787 FDSN Z6 00 BUD BUD HHN ??? _
(Reading ML: 1.7 magdef=1
(Station ML: 1.7 magdef=1
NIE 1.09 45.3 Pb 09:36:52.036 0.6 T__ ___ ML 1.6 736792 FDSN PL -- BUD BUD BHZ BHZ _
NIE 1.09 45.3 Lg 09:37:06.089 1.5 T__ ___ 736791 FDSN PL -- BUD BUD BHN ??? _
(Reading ML: 1.6 magdef=1
(Station ML: 1.6 magdef=0

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STOP
BEGIN IMS2.0
DATA_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

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Event bud2023xwhk Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/12/06	12:03:26.90	0.26	0.64	46.9665	17.3248	3.3	2.6	23	0.0A	0.0	18	14	78	0.13	1.26	m	kx BUD	736866	BUD			
2023/12/06	12:03:25.34			46.8902	17.3220				0.0								kx BUD_GT	1	BUD			
2023/12/06	12:03:25.34	0.91	1.48	46.9737	17.3421	3.8	2.8	156	0.0f		20	15	78	0.13	1.97		kx ILOC	736866	ILOC			111

(#PRIME)  
(Localcity: Uzsa Hungary)  
(GT info : GT2 explosion)

Magnitude	Err	Nsta	Author	OrigID
M	2.1	4	BUD	736866
MLv	2.1	0.2	4 BUD	736866
ML	2.2	0.2	5 ILOC	736866

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
A261A	0.13	260.8	Pg	12:03:28.990	0.3					T__		9372.5		___	ML	2.6	736872	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
A261A	0.13	260.8	Lg	12:03:30.414	-1.0					T__				___		736873	FDSN	Z6	00	BUD	BUD	HHN	???	_	
(Reading ML: 2.6 magdef=1 (Station ML: 2.6 magdef=0)																									
BADH	0.19	152.0	Pg	12:03:30.748	1.0					T__		2098.4		___	ML	2.2	736867	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
BADH	0.19	152.0	Lg	12:03:33.463	0.3					T__				___		736874	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.2 magdef=1 (Station ML: 2.2 magdef=1)																									
MPLH	0.24	34.4	Pg	12:03:31.570	0.8					T__		1141.5		___	ML	2.0	736868	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MPLH	0.24	34.4	Lg	12:03:35.271	0.2					T__				___		736875	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 2.0 magdef=1 (Station ML: 2.0 magdef=1)																									
A263A	0.33	183.2	Lg	12:03:37.626	-0.1					T__				___		736876	FDSN	Z6	00	BUD	BUD	HHN	???	_	
TIH	0.38	100.9	Pg	12:03:33.505	0.0					T__		1078.9		___	ML	2.4	736869	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
(Reading ML: 2.4 magdef=1 (Station ML: 2.4 magdef=1)																									



2023/12/08 07:28:01.18 0.59 0.72 47.3053 18.3452 8.6 4.7 69 0.0A 0.0 5 4 164 0.08 1.11 m se BUD 736944 BUD  
 2023/12/08 07:28:00.87 1.37 0.84 47.3118 18.3387 14.6 4.9 62 0.0f 6 5 124 0.07 1.21 se ILOC 736944 ILOC 233  
 (#PRIME)  
 (Locality: Magyaralmás Hungary)

Magnitude Err Nsta Author OrigID  
 M 1.4 1 BUD 736944  
 MLv 1.4 0.0 1 BUD 736944

Sta	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	314.0	Pg	07:28:01.793	-0.5					T__		776.7		___	ML	1.4	736945	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
CSKK	0.07	314.0	Lg	07:28:02.674	-0.6					T__				___		736946	FDSN	HU	--	BUD	BUD	HHN	???	_	
				(Reading ML: 1.4 magdef=1 Station ML: 1.4 magdef=0)																					
HU08A	0.31	293.1	Lg	07:28:11.758	1.0					T__				___		736947	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU09A	0.33	5.2	Sg	07:28:12.051	0.6					T__				___		736948	FDSN	Z6	00	BUD	BUD	HHN	???	_	
MORH	1.12	169.1	Lg	07:28:37.029	0.2					T__				___		736949	FDSN	HU	--	BUD	BUD	HHN	???	_	
PSZI	1.21	59.5	I	07:36:09.192	61.3	237.0	-3.6	311.40	-45.3	_A_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023xzss 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
2023/12/08	09:11:14.09	0.34	1.05	48.6170	18.6263	10.8	4.0	32	0.0A	0.0	9	7	154	0.68	1.37	m	se BUD	737029	BUD			
2023/12/08	09:11:13.48	0.88	1.41	48.6558	18.6358	5.2	3.7	28	0.0f		11	8	148	0.67	1.37		se ILOC	737029	ILOC			188
(#PRIME) (Locality: Podhradie Slovakia)																						

Magnitude Err Nsta Author OrigID  
 M 2.0 7 BUD 737029  
 MLv 2.0 0.0 7 BUD 737029  
 ML 2.0 0.0 7 ILOC 737029

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	Agy	Deploy	Ln	Auth	Rep	PCh	ACh	L	
JAVC	0.67	288.0	Pg	09:11:26.740	0.4					T__		165.5		___	ML	2.1	737036	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	_
JAVC	0.67	288.0	Lg	09:11:36.527	1.5					T__				___		737037	FDSN	CZ	--	BUD	BUD	HHN	???	_	
				(Reading ML: 2.1 magdef=1 Station ML: 2.1 magdef=0)																					
HU03A	0.99	139.1	Pb	09:11:33.681	0.2					T__		83.8		___	ML	2.0	737034	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
HU03A	0.99	139.1	Sg	09:11:43.761	-1.5					T__				___		737035	FDSN	Z6	00	BUD	BUD	HHN	???	_	
				(Reading ML: 2.0 magdef=1 Station ML: 2.0 magdef=1)																					
PSZI	1.12	130.8	I	09:17:44.548	2.6	314.4	2.6	342.00	-7.5	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
PSZ	1.12	130.8	Pb	09:11:36.043	0.3					T__		63.4		___	ML	1.9	737032	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
				(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=1)																					
JOS	1.27	96.5	Pg	09:11:37.194	-0.7					T__		60.4		___	ML	2.0	737030	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	_
				(Reading ML: 2.0 magdef=1 Station ML: 2.0 magdef=1)																					
MORC	1.33	327.8	Pg	09:11:37.424	-1.6					T__		55.6		___	ML	2.0	737038	FDSN	CZ	--	BUD	BUD	HHZ	HHZ	_
				(Reading ML: 2.0 magdef=1 Station ML: 2.0 magdef=1)																					
NIE	1.33	54.5	Pg	09:11:40.206	1.2					T__		43.3		___	ML	1.9	737033	FDSN	PL	--	BUD	BUD	BHZ	BHZ	_
				(Reading ML: 1.9 magdef=1 Station ML: 1.9 magdef=0)																					
HU02A	1.37	112.3	Pg	09:11:39.549	-0.1					T__		51.6		___	ML	2.0	737031	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_
				(Reading ML: 2.0 magdef=1 Station ML: 2.0 magdef=1)																					

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023yfik Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/12/11	10:47:20.42	0.49	0.60	47.0929	17.9762	6.8	4.1	109	0.0A	0.0	6	4	161	0.20	0.34	m	se BUD	737066	BUD			
2023/12/11	10:47:18.43	1.01	0.52	47.1075	18.0040	4.6	3.6	116	0.0f		8	5	143	0.22	1.52		se ILOC	737066	ILOC			224

(#PRIME)  
 (Locality: Veszprém Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.3	2	BUD	737066
MLv	1.3	0.3	2 BUD	737066
ML	1.3	0.3	2 ILOC	737066

Sta	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	0.22	200.1	Pg	10:47:23.551	0.2					T__		403.6		___	ML	1.5	737071	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
TIH	0.22	200.1	Lg	10:47:27.279	-0.1					T__				___		737068	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.5 magdef=1 (Station ML: 1.5 magdef=1)																									
CSKK	0.31	34.3	Lg	10:47:30.675	-0.3					T__				___		737070	FDSN	HU	--	BUD	BUD	HHN	???	_	
MPLH	0.32	281.4	Pg	10:47:25.815	0.3					T__		89.1		___	ML	1.1	737072	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MPLH	0.32	281.4	Lg	10:47:30.054	-0.9					T__				___		737067	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.1 magdef=1 (Station ML: 1.1 magdef=1)																									
HU08A	0.33	350.5	Lg	10:47:31.405	-0.0					T__				___		737069	FDSN	Z6	00	BUD	BUD	HHN	???	_	
PSZI	1.52	57.0	I	10:56:30.245	-0.5	235.2	-3.2	310.30	-72.0	TA_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023yiyv 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
2023/12/13	10:29:25.11	1.27	0.71	48.3448	19.7325	13.5	5.2	125	0.0A	0.0	8	5	268	0.44	0.57	m	se BUD	737126	BUD			
2023/12/13	10:29:24.09	1.00	0.69	48.4237	19.8153	10.2	2.1	172	0.0f		9	6	267	0.45	0.56		se ILOC	737126	ILOC			268

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

Magnitude	Err	Nsta	Author	OrigID
M	1.7	3	BUD	737126
MLv	1.7	0.2	3 BUD	737126
ML	1.8	0.0	3 ILOC	737126

Sta	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	0.45	82.2	Sb	10:29:42.909	0.7					T__				___		737133	FDSN	SK	--	BUD	BUD	EHN	???	_	
JOS	0.49	81.2	Pb	10:29:35.397	-0.1					T__		124.6		___	ML	1.8	737127	FDSN	Z6	--	BUD	BUD	HHZ	HHZ	_
JOS	0.49	81.2	Sb	10:29:42.849	-0.4					T__				___		737128	FDSN	Z6	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1 (Station ML: 1.8 magdef=1)																									
CP16A	0.49	99.3	Sb	10:29:42.185	-1.1					T__				___		737134	FDSN	Z6	00	BUD	BUD	HHN	???	_	
PSZ	0.51	174.0	Pg	10:29:33.857	0.0					T__		115.1		___	ML	1.8	737131	FDSN	GE	--	BUD	BUD	HHZ	HHZ	_
PSZ	0.51	174.0	Sg	10:29:39.648	-0.7					T__				___		737132	FDSN	GE	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1 (Station ML: 1.8 magdef=1)																									
PSZI	0.51	174.1	I	10:31:28.192	-42.0	358.6	4.5	354.50	22.5	A_				___		111111	FDSN	HU	--	BUD	BUD	???	???	_	
HU02A	0.56	122.2	Pg	10:29:35.131	0.3					T__		73.7		___	ML	1.7	737130	FDSN	Z6	00	BUD	BUD	HHZ	HHZ	_



HU02A 0.56 122.2 Lg 10:29:42.711 0.6 T\_\_ 737129 FDSN Z6 00 BUD BUD HHN ??? \_  
 (Reading ML: 1.7 magdef=1  
 (Station ML: 1.7 magdef=1

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023ykw Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/12/14	09:45:33.88	0.34	0.98	47.1053	18.0261	4.9	3.4	62	0.0A	0.0	9	6	104	0.30	1.02	m	se BUD	737158	BUD			
2023/12/14	09:45:31.66	0.64	0.60	47.0663	17.9874	4.2	4.1	87	0.0f		11	7	113	0.32	1.55		se ILOC	737158	ILOC			177

(#PRIME)  
 (Locality: Veszprém Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.6	3	BUD	737158
MLv	1.6	0.4	3	BUD
ML	1.8	0.0	3	ILOC

Sta	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	0.32	288.9	Pb	09:45:40.294	-0.0					T__		86.0			ML	1.1	737163	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MPLH	0.32	288.9	Sb	09:45:45.681	-0.4					T__						737164	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.1 magdef=1 (Station ML: 1.1 magdef=1																									
CSKK	0.35	32.0	Lg	09:45:42.867	-0.1					T__						737161	FDSN	HU	--	BUD	BUD	HHN	???	_	
A267A	0.36	109.3	Sb	09:45:46.011	-1.1					T__						737165	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU08A	0.37	353.3	Sg	09:45:43.749	0.3					T__						737162	FDSN	Z6	00	BUD	BUD	HHN	???	_	
MORH	0.96	151.8	Pb	09:45:51.552	0.3					T__		53.3			ML	1.8	737166	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MORH	0.96	151.8	Sb	09:46:05.280	0.8					T__						737160	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1 (Station ML: 1.8 magdef=1																									
KOVH	0.98	175.4	Pn	09:45:52.595	-0.1					T__		55.3			ML	1.8	737167	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
KOVH	0.98	175.4	Sn	09:46:06.983	-0.3					T__						737159	FDSN	HU	--	BUD	BUD	HHN	???	_	
(Reading ML: 1.8 magdef=1 (Station ML: 1.8 magdef=1																									
PSZI	1.55	55.9	I	09:54:58.395	0.8	236.6	-0.7	316.00	-69.1	TA__						111111	FDSN	HU	--	BUD	BUD	???	???	_	

STOP  
 BEGIN IMS2.0  
 DATA\_TYPE BULLETIN IMS1.0:short with ISF2.0 extensions

Event bud2023ytrx Hungary

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	Rep	DPdep	Err	Sgp
2023/12/19	07:29:38.63	0.36	0.51	47.1155	18.1134	4.4	3.2	56	0.0A	0.0	9	8	100	0.27	1.03	m	se BUD	737189	BUD			
2023/12/19	07:29:36.03	0.71	1.10	47.1172	18.1630	5.5	3.3	57	0.0f		10	9	72	0.25	1.42		se ILOC	737189	ILOC			112

(#PRIME)  
 (Locality: Veszprém Hungary)

Magnitude	Err	Nsta	Author	OrigID
M	1.5	1	BUD	737189
MLv	1.5	0.0	1	BUD

Sta	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	0.25	15.1	Lg	07:29:46.352	-0.3					T__						737194	FDSN	HU	--	BUD	BUD	HHN	???	_	
A267A	0.28	128.0	Lg	07:29:47.885	0.7					T__						737195	FDSN	Z6	00	BUD	BUD	HHN	???	_	
HU08A	0.35	332.7	Lg	07:29:48.992	-0.9					T__						737192	FDSN	Z6	00	BUD	BUD	HHN	???	_	
MPLH	0.43	277.3	Pg	07:29:46.777	1.7					T__		123.7			ML	1.6	737191	FDSN	HU	--	BUD	BUD	HHZ	HHZ	_
MPLH	0.43	277.3	Lg	07:29:50.440	-1.6					T__						737190	FDSN	HU	--	BUD	BUD	HHN	???	_	

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

BADH	0.57	236.8	Lg	07:29:55.975	-0.1	T	---	737193	FDSN	HU	--	BUD	BUD	HHN	???	-				
EGYH	0.64	298.2	Lg	07:29:58.768	-0.3	T	---	737198	FDSN	HU	--	BUD	BUD	HHN	???	-				
MORH	0.96	159.7	Sn	07:30:09.943	-0.8	T	---	737197	FDSN	HU	--	BUD	BUD	HHN	???	-				
KOVH	1.03	182.4	Lg	07:30:11.050	-1.0	T	---	737196	FDSN	HU	--	BUD	BUD	HHN	???	-				
PSZI	1.42	55.0	I	07:38:59.243	51.0	235.5	-0.8	308.00	-66.1	A	---	111111	FDSN	HU	--	BUD	BUD	???	???	-

STOP

