



Magyarországi földrengések évkönyve  
Hungarian Earthquake Bulletin  
2016

Tóth L., Mónus P., Kiszely M.

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MAGYARORSZÁGI FÖLDRENGÉSEK ÉVKÖNYVE

HUNGARIAN EARTHQUAKE BULLETIN

2016

TÓTH LÁSZLÓ\*, MÓNUS PÉTER\*, KISZELY MÁRTA\*

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**Hátsó borító:**

Földrengések Magyarországon

Történelmi rengések: 456-1994 (szürke)

Műszeresen meghatározott rengések: 1995-2015 (rózsaszín)

Műszeresen meghatározott rengések: 2016 (piros)

**Back cover page:**

Earthquakes in Hungary

Historical earthquakes: 456-1994 (grey)

Instrumental earthquakes: 1995-2015 (pink)

Instrumental earthquakes: 2016 (red)

FÖLDRENGÉS ADATOK FORRÁSAI / SOURCES OF EARTHQUAKE DATA:

Zsíros T.: Magyar földrengés katalógus (456-1995)

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## BEVEZETÉS

A Pannon-medencében a földrengés aktivitás a lemezperemi területekhez képest mérsékelt, a rengések epicentrumainak eloszlása pedig első pillantásra rendszertelennek látszik. Nehéz eldönteni, hogy a földrengések izolált területeken, vagy szeizmikusan aktív vonalak mentén keletkeznek. Mindenesetre felismerhető néhány terület, ahol viszonylag gyakran fordult elő a múltban földrengés. Ilyenek pl. Eger és környéke, ahol 70 év alatt legalább 16 földrengés és több mint 50 nagyobb utórengés történt. Komárom és Mór környékén, Jászberény, Kecskemét és Dunaharaszti közelében szintén jelentős volt az aktivitás egy-egy bizonyos időszakban. Az alacsony szeizmicitás nem feltétlenül jelenti a földrengések méretének csekélységét: komoly épületkárokat okozó földrengésekről van szó, néhány esetben talajfolyósodást is okozó gyorsulásokkal (pl. 1763 Komárom, M 6.2; 1911 Kecskemét, M 5.6), esetleg a felszínen is megjelenő töréssel (pl. 1834 Érmellék, M 6.2). Ezek a példák azt mutatják, hogy 6.0-6.5 magnitúdójú rengések lehetségesek, de nem gyakoriak a Pannon-medencében (Tóth et al., 2002a).

A földtudományi kutatás fontos eleme a szeizmicitás vizsgálata, annak megismerése, hogy milyen gyakorisággal, hol és mekkora földrengések keletkeznek, továbbá melyek azok a szeizmotektonikai folyamatok, melyek a földrengéseket létrehozzák.

Az általános ismeretszerzésen túlmenően a földrengés elleni védekezéshez is fontos segítséget nyújt a szeizmicitás pontos ismerete. Egy terület földrengés veszélyeztetettségét csak komplex szeizmológiai, geofizikai, geológiai ismeretek alapján lehet meghatározni. A legfontosabb információ, mely mennyiségileg meghatározza a földrengéskockázatot, a terület földrengés története, illetve a jelenkori rengések ismerete. Ehhez nyújt kardinális fontosságú segítséget a földrengés monitorozás, a földrengések megfigyelése, mérése és paramétereinek meghatározása.

Magyarországon a földrengésmérő állomások száma és minősége 1995-ben érte el azt a szintet, hogy a lakosság által érzékelt valamennyi rengést a hálózat nagy valószínűséggel detektálja. Ez nagyrészt annak a szeizmikus megfigyelő hálózatnak volt köszönhető, melyet a Paksi Atomerőmű létesített az atomerőmű telephely tágabb környezetében. Ekkor vált lehetővé a lokális földrengések hipocentrumának számítása. A mérőhálózat 2016-ban ismét nagyot fejlődött, öt lyukszeizmográf állomás épült és kezdte meg működését.

Jelen kiadványunk célja és tartalma pontosan az, amit a címe is jelez: évkönyv, melyben megtalálható minden olyan adat és ismeret, melyet az év során a magyarországi földrengésekkel kapcsolatban összegyűjtöttünk. A célterület a 45.5-49.0 É szélesség és 16.0-23.0 K hosszúság által határolt földrajzi tartomány. Reméljük, hogy hasznát látják munkánknak mindazok, akik földtudományi kutatásaikban felhasználói a szeizmicitás adatoknak, de azok is, akik csupán egy-egy földrengéssel kapcsolatos kérdésükre keresnek választ kiadványunkban.

# INTRODUCTION

Seismicity in the Pannonian basin is relatively low comparing to the peripherals and the distribution of earthquake epicenters shows a rather scattered pattern at the first glance. It is particularly difficult to decide whether the epicenters occur at isolated places or along elongated zones however, at several single places earthquakes occur repeatedly. For example, near to Eger (47.9 N; 20.4 E) at least sixteen earthquakes with more than fifty greater aftershocks occurred over a time interval of some 70 years. Komárom and Mór area (47.4-47.8 N; 18.2 E), Jászberény (47.5 N; 20.0 E), Kecskemét (46.9 N; 19.7 E) and Dunaharaszti (47.4 N; 19.0 E) also produced significant activity over a certain but limited period of time. Moderate seismicity does not necessarily mean moderate size of earthquakes: reports of major earthquakes often refer to heavy building damage, liquefaction (e.g. 1763 Komárom earthquake, M 6.2; 1911 Kecskemét earthquake, M 5.6) and sometimes the possibility of surface fault rupture (e.g. 1834 Érmellék earthquake, M 6.2). These observations indicate that magnitude 6.0-6.5 earthquakes are possible but not frequent in the Pannonian basin (Tóth et al., 2002b).

The study of the recent seismicity is an important element of seismotectonic research. Earthquakes represent the sudden release of slowly accumulated strain energy and hence provide direct evidence of active tectonic processes. However, low and moderate seismicity at intraplate areas generally precludes reliable statistical correlation between epicenters and geological features.

Moreover, as one of the chief contributor to seismic hazard at a given area, detailed knowledge of seismicity also plays an important role in earthquake risk reduction. To be useful, accurately located earthquakes are required. While good information about larger historical earthquakes exists for about the past few hundred years, these are not well enough located. Only modern seismic monitoring networks, capable of locating small magnitude local earthquakes provide the necessary information to close this knowledge gap. The developing database of well-located earthquakes can be used, in one hand, to resolve the tectonic framework and required on the other hand to refine our understanding of the level of seismic risk.

1995 was a milestone in the history of Hungarian seismological observations as the Paks Nuclear Power Plant Ltd. installed a network of high quality digital seismographs. For the first time, this network made it possible to detect and locate small magnitude local seismic events in most parts of the country. In 2016, the network significantly developed again, as five borehole stations were built and began operations.

The present Earthquake Bulletin is a united annual summary report of all Hungarian earthquake monitoring projects. The information in the Bulletin is based on all available earthquake related data provided by different organizations. The geographic region covered is bounded by latitudes 45.5-49.0 N and longitudes 16.0-23.0 E.

# 1.

## ÖSSZEFOGLALÁS

A 2016. év szeizmikus szempontból összességében átlagosan aktív időszaknak tekinthető Magyarországon, bár az érezhető rengések száma az átlagosnál kevesebb, mindössze kettő volt. Az év folyamán 470 szeizmikus eseményről szereztünk tudomást a 45.5-49.0 É szélességi és 16.0-23.0 K hosszúsági koordináták által határolt területen, amelyek közül 209 volt természetes eredetű földrengés, 261 pedig robbantás.

Az észlelt földrengések mérete a  $-0.5 \leq M_L \leq 3.6$  lokális magnitúdó tartományba esett. A fészekmélység jellemzően sekély, csak néhány esetben nagyobb 10 km-nél.

A kőbányarobbantások szeizmikus magnitúdói a  $0.1 \leq M_L \leq 2.2$  tartományban voltak, a fészekmélységük pedig minden esetben nulla.

Az évben összesen két olyan földrengés volt, melyet a lakosság is érzett.

A legnagyobb műszeresen meghatározott magnitúdójú rengés 3.6  $M_L$ , míg a legnagyobb földrengés intenzitás, melyet Magyarország területéről az év folyamán jelentettek 4 EMS fokozatú volt. Földrengés következtében épületkárok nem keletkeztek.

A rengések mindegyike többé-kevésbé ismert forrászónához köthető. A Vértes hegységben, a Komárom – Berhida közé eső területen, a Móri-árok forrászónában most is számos földrengést regisztráltunk. Ennek egyik, nem szeizmotektonikai magyarázata az állomáshálózat fokozott érzékenysége ezen a területen.

Az első érezhető rengést január 22-én jelezték a Heves megyei Tenk térségében. 2.4  $M_L$  magnitúdójú földrengés pattant ki, mely az epicentrum térségében érezhető volt, intenzitása elérte a 4 EMS fokot.

November 5-én éjjel 2.4  $M_L$  magnitúdójú földrengést éreztek Székkutas térségében. A rengés intenzitása 4 EMS fokra becsülhető az epicentrum környezetében. A földrengés csak kis területen volt érezhető.

# 1.

## SUMMARY

2016 was an average active year for Hungarian seismicity, however, the number of felt earthquakes was relatively low, only two. Out of the 470 seismic events located within the area bounded by latitudes 45.5-49.0 N and longitudes 16.0-23.0 E, 209 were identified as natural earthquakes and 261 were known as quarry blasts.

The magnitude of the earthquakes was in the range of  $-0.5 \leq M_L \leq 3.6$ . Each of the earthquakes had shallow focal depth typically less than 10 km.

The seismic magnitude of the quarry blasts was in the range of  $0.1 \leq M_L < 2.2$  with zero focal depth.

During the year, only two earthquakes were reported as felt.

The highest magnitude assigned to a shock was 3.6  $M_L$  while the highest intensity reported during the year was 4 EMS. No building damage was reported during the year.

All detected and located earthquakes can be connected to more or less well-known source zones. A number of earthquakes were located in the Komárom – Berhida region, in the well-known source zone of the Mór graben. In addition to the undoubted current activity of this area, the high number of detected low magnitude events is partly due to the increased sensitivity of the network here.

The first felt event of the year was reported from Tenk, Heves County area in the morning of January 22<sup>nd</sup>. A 2.4  $M_L$  magnitude earthquake was reported felt from the epicentral area. The maximum intensity was estimated around 4 EMS.

In the night of November 5<sup>th</sup>, a 2.4  $M_L$  magnitude earthquake was felt at Székkutas, Csongrád County area. The maximum intensity was estimated 4 EMS. The earthquake was felt in a small area.

## 2.

# FÖLDRENGÉS MEGFIGYELŐ ÁLLOMÁSOK MAGYARORSZÁGON

2016-ban 30 állandó szeizmográf állomás működött Magyarországon, melyek közül öt lyukszeizmográf, huszonöt felszíni állomás. Az állomások közül tizenötöt a GeoRisk Földrengés Mérnöki Iroda Kft., tizenötöt pedig az MTA CSFK Geodéziai és Geofizikai Intézet (MTA CSFK GGI) üzemeltetett (2.1. Táblázat és 2.1. ábra).

### *Szélessávú lyukszeizmográf állomások*

Az év folyamán 5 modern szélessávú lyukszeizmográf állomás kezdte meg a működést (PKB1, PKB2, PKB3, PKB4, PKB5). Az állomásokon az érzékelő 3 komponenses szélessávú Nanometrics Trillium Posthole szeizmométer, mely 150 m-es béléscsővezetett fúróluk aljára van telepítve. A felszíni aknában elhelyezett digitalizáló, adatgyűjtő és kommunikációs egység Nanometrics Centaur CTR-3. Mindegyik állomás internet összeköttetéssel rendelkezik.

### *Szélessávú felszíni állomások*

2016-ban 15 szélessávú felszíni szeizmológiai állomás működött (ABAH, AMBH, BEHE, BSZH, BUD, CSKK, EGYH, KOVH, LTVH, MORH, MPLH, PSZ, SOP, TIH, TRPA). Az állomások nagy részénél az érzékelő 3 komponenses szélessávú Streckeisen STS-2, illetve STS-2.5 szeizmométer; az érzékelő jele EarthData PS-6-24 digitalizáló egységen át jut a SeisComp szoftverrel felszerelt adatgyűjtő számítógépre. Az AMBH, CSKK, EGYH, LTVH és TIH állomásokon Güralp CMG-3T szeizmométer és Güralp CMG-DM24S3-EAM adatgyűjtő egység található. Mindegyik állomás internet összeköttetéssel rendelkezik.

### *Rövidperiódusú felszíni állomások*

A 10 rövidperiódusú felszíni állomás teljesen azonos mérőeszközzel van felszerelve. Ezekon Güralp CMG-40T rövidperiódusú, 3 komponenses szeizmométer és Güralp CMG-DM24S3-EAM digitalizáló és adatgyűjtő működik, folyamatos regisztrálással. Mindegyik állomás internet összeköttetéssel rendelkezik.

### *GeoRisk adatközpont ([www.foldrenges.hu](http://www.foldrenges.hu))*

Az összes mérőállomáson regisztrált adatot egy felhő alapú adatközpontban gyűjtjük és dolgozzuk fel. Az adatok közel valós időben, egy erre a célra kifejlesztett protokoll (SeedLink) felhasználásával jutnak el az adatközpontba. Az adatok átlagos késése a valós időhöz képest 10 másodperc körüli. Minden állomás digitális adataiból napi szeizmogramok készülnek kép formátumban. A képi szeizmogramok egyrészt az érdeklődők tájékoztatását, másrészt a működés ellenőrzését is szolgálják. Ezek a szeizmogramok is közel valós idejűek.

Az események hullámfázisainak körültekintő manuális kimérése alapján állítjuk össze havonta a fázisadatokat (kimérési adatokat) tartalmazó jelentést. A fázisadatokat felhasználásával – a saját adatokat kiegészítve a szomszédos országok szeizmológiai intézményeinek hasonló adataival (2.2. ábra) – havonta eseménylista készül (*Havi Jelentés* és *Havi Földrengés Tájékoztató*), mely a helyi és regionális földrengések hipocentrum adatait tartalmazza.

A mérési adatok, szeizmogramok és a kiértékelés további eredményei nagyrészt nyilvánosan elérhetők az interneten is a [www.foldrenges.hu](http://www.foldrenges.hu) oldalon.

Átlagos zaj- (talajnyugtalanóság) viszonyokat feltételezve a magyarországi szeizmológiai hálózat jelenlegi észlelési képessége  $M_L=1.0-2.0$  magnitúdó körül van. Az ország középső részén lényegesen alacsonyabb, a határok környékén kissé magasabb az érzékenységi küszöb. Ez azt jelenti, hogy a lakosság által érzékelt valamennyi rengést a hálózat nagy valószínűséggel detektálja.

#### *HUN-Reng virtuális szeizmológiai hálózat*

A kommunikáció fejlődése, a valós idejű adatátvitel és az azonos adatátviteli protokoll (SeedLink) Európa-szerte elterjedt használata lehetővé tette, hogy idegen állomások adatait is fogadjuk közel valós időben ugyanúgy, mint a saját állomásainkét (2.2. Táblázat). Az összes elérhető hazai és külföldi állomások mérési adatainak felhasználásával a földrengések paramétereit még pontosabban, megbízhatóbban számíthatók ki. Ezen kívül a nagyszámú állomás adatához való valós idejű hozzáférés lehetővé tette egy automatikus földrengésjelző rendszer elindítását is. Ez a rendszer automatikusan képes felismerni a földrengéseket, és azok paramétereit néhány percen belül kiszámítja, térképen és listán automatikusan meg is jeleníti. Az online földrengés információ elsősorban gyors tájékoztatásul szolgál ([www.foldrenges.hu](http://www.foldrenges.hu)).

## 2.

### SEISMOGRAPH STATIONS IN HUNGARY

In 2016, there were 30 permanent seismograph stations running in Hungary. Besides the twenty five surface stations, five new borehole stations began operations during the year. Fifteen of the permanent stations were operated by GeoRisk Earthquake Engineering Ltd. and fifteen of them by Geodetic and Geophysical Institute, Research Centre for Astronomy and Earth Sciences, Hungarian Academy of Sciences (MTA CSFK GGI). (Table 2.1 and Fig. 2.1)

#### *Broadband borehole stations*

During the year, five modern broadband borehole station started operation (PKB1, PKB2, PKB3, PKB4, PKB5). Nanometrics Trillium Posthole 3-component broadband seismometers are installed in the bottom of a 150 m deep steel cased borehole at the stations. Nanometrics Centaur CTR-3 digitizers and acquisition systems, along with the communication units are arranged in a small pit. Each station has a connection to the Internet.

#### *Broadband surface stations*

Fifteen broadband surface stations (ABAH, AMBH, BEHE, BSZH, BUD, CSKK, EGYH, KOVH, LTVH, MORH, MPLH, PSZ, SOP, TIH, TRPA) were running during the year. Most of these stations have Streckeisen STS-2 or STS-2.5 very broadband seismometers as sensors and EarthData PS-6-24 digitizer. Linux PC's with SeisComP software have been used as data acquisition systems. Five stations (AMBH, CSKK, EGYH, LTVH and TIH) are equipped with Güralp CMG-3T seismometer and Güralp CMG-DM24-S3-EAM data acquisition module. Each station has a connection to the Internet.

#### *Short period surface stations*

The ten short period stations have similar hardware. These stations are equipped with Güralp CMG-40T short period seismometers and Güralp CMG-DM24S3-EAM digital acquisition system. One of the stations, CSKK has Kinometrics short period SS-1 sensors, and Güralp CMG-DM24S3-EAM digital acquisition system for recording and communication with the Data Centre. Continuous data are recorded at each short period station. Each station has a connection to the Internet.

#### *GeoRisk Data Centre ([www.foldrenge.hu](http://www.foldrenge.hu))*

All recorded data from each station are transmitted to and processed at a cloud based *Data Centre*. Using digitally recorded data, analogue “live seismograms” are calculated for each station. The main purposes of the “live seismograms” are feeding public interests in one hand, and rapid visualization of the operational status and quality check of the stations on the other.

A careful manual offline analysis is used for event identification and picking the phases on each recorded seismogram. Merging the phase data of the Hungarian network and the same kind of available data sets from neighboring countries, preliminary event lists are calculated on monthly schedule. Based on technical and operational statistics of the stations, list of local and regional seismic events and their hypocenter information, *Monthly Reports* are compiled.

Data that are collected by the *Data Centre* are published in a variety of formats on the internet at [www.foldrenge.hu](http://www.foldrenge.hu).



The estimated detection capabilities of the present network with average noise conditions, supposing that at least four stations is needed for origin determination, is typically around 1.0-2.0  $M_L$ , somewhat lower in the middle of the country and a little higher towards the border regions. This means that in most parts of the country it is very unlikely that felt events go undetected.

### *HUN-Reng Virtual Seismic Network*

Development in communication technology and standardized communication protocols, software packages made available to access near real time data of stations beyond the domestic network. SeedLink and SeisComP developed at GEOFON became a kind of standard all over Europe. The larger pool of data provided by an extended, “virtual network” of seismic stations helps to have faster and more accurate earthquake locations and parameter determinations. In addition, near real time access to data from large number of stations makes possible to operate automatic rapid earthquake alarm systems. Automatically generated earthquake lists and epicenter maps are the main product of such systems ([www.foldrenges.hu](http://www.foldrenges.hu)). The present configuration of the *HUN-Reng* virtual seismic network is shown in Table 2.2.

## 2.1. Táblázat Magyarországi szeizmológiai állomások, műszerek és alapkőzet

Table 2.1. Seismic stations in Hungary, instrumentation and lithology

Kód Helység Code Location	Szélesség Latitude (N)	Hosszúság Longitude (E)	Magasság Elevation (m)	Alapkőzet Foundation Lithology	Állomás típusa Station type (1)	Érzékelő típusa Sensor type (2)	Adatgyűjtő típusa Recording equipment (3)	Szerv. Org. (4)
ABAH* Abaújkér	48.2961	21.2395	173	kőzet rock	3C BB	STS-2.5	CMG-DM24S3- EAM	GGI
AMBH Ambrózfalva	46.3501	20.7258	91	üledék alluvium	3C BB	CMG-3T	CMG-DM24S3- EAM	GGI
BEHE Becsehely	46.4704	16.7757	298	üledék alluvium	3C BB	STS-2	PS-6-24+ SeisComP PC	GGI
BSZH Besenyszög	47.2996	20.2670	82	üledék alluvium	3C BB	STS-2.5	PS-6-24 + SeisComP PC	GGI
BUD Budapest	47.4836	19.0239	196	dolomit dolomite	3C BB	STS-2	PS-6-24+ SeisComP PC	GGI
CSKK Csókakő	47.3631	18.2605	319	dolomit dolomite	3C BB	CMG-3T	CMG-DM24S3- EAM	GGI
EGYH Egyházaskesző	47.4171	17.3318	225	kőzet rock	3C BB	CMG-3T	CMG-DM24S3- EAM	GGI
KOVH Kővágótöttös	46.0883	18.0999	270	mészke limestone	3C BB	STS-2.5	PS-6-24 + SeisComP PC	GGI
LTVH Létavértes	47.3849	21.9007	121	homok sand	3C BB	CMG-3T	CMG-DM24S3- EAM	GGI
MPLH Magyarpolány	47.1702	17.5395	307	kőzet rock	3C BB	STS-2.5	PS-6-24 + SeisComP PC	GGI
MORH Mórág	46.2149	18.6435	135	gránit granite	3C BB	STS-2	PS-6-24 + SeisComP PC	GGI
PENC Penc	47.7905	19.2817	250	üledék alluvium	3C SP	CMG-40T	CMG-DM24S3- EAM	GR
PKS2 Kecel	46.4920	19.2131	106	homok sand	3C SP	CMG-40T	CMG-DM24S3- EAM	GR
PKB1** Előszállás	46.7843	18.7922	178	üledék alluvium	3C BB	TC20-PH2	CTR-3	GR
PKB2*** Akasztó	46.6744	19.2419	92	üledék alluvium	3C BB	TC20-PH2	CTR-3	GR
PKB3**** Császártöltés	46.4238	19.1949	110	üledék alluvium	3C BB	TC20-PH2	CTR-3	GR
PKB4***** Kölesd	46.4963	18.6038	172	üledék alluvium	3C BB	TC20-PH2	CTR-3	GR
PKB5***** Pusztahencse	46.5950	18.7356	184	üledék alluvium	3C BB	TC20-PH2	CTR-3	GR
PKS6 Bócsa	46.5998	19.5645	120	homok sand	3C SP	CMG-40T	CMG-DM24S3- EAM	GR
PKS7 Kunszentmiklós	47.0473	19.1609	95	agyag mud	3C SP	CMG-40T	CMG-DM24S3- EAM	GR
PKS9 Tamási	46.5870	18.2789	240	löss loess	3C SP	CMG-40T	CMG-DM24S3- EAM	GR
PKSG Gánt	47.3918	18.3907	200	dolomit dolomite	3C SP	CMG-40T	CMG-DM24S3- EAM	GR
PKSM Mórág	46.2119	18.6413	170	gránit granite	3C SP	CMG-40T	CMG-DM24S3- EAM	GR
PKSN Nyárlőrinc	46.8970	19.8667	110	homok sand	3C SP	CMG-40T	CMG-DM24S3- EAM	GR

Kód Helység Code Location	Szélesség Latitude (N)	Hosszúság Longitude (E)	Magasság Elevation (m)	Alapkőzet Foundation	Állomás típusa Station type (1)	Érzékelő típusa Sensor type (2)	Adatgyűjtő típusa Recording equipment (3)	Szerv. Org. (4)
PKST Tés	47.2590	18.0343	473	dolomit dolomite	3C SP	CMG-40T	CMG-DM24S3- EAM	GR
PKSV Villány	45.8885	18.2521	420	mészkö limestone	3C SP	CMG-40T	CMG-DM24S3- EAM	GR
PSZ Piszkéstető	47.9184	19.8944	940	andezit andesite	3C BB	STS-2	PS-6-24 + SeisComp PC	GEOFON /GGI
SOP Sopron	47.6833	16.5583	260	gneisz gneiss	3C BB	STS-2	PS-6-24 + SeisComp PC	GGI
TIH Tihany	46.9001	17.8877	183	kőzet rock	3C BB	CMG-3T	CMG-DM24S3- EAM	GGI/MFGI
TRPA Tarpa	48.1304	22.5391	113	andezit andesite	3C BB	STS-2	PS-6-24 + SeisComp PC	GGI

- (1) 3C – 3 komponenses szeizmométer / three component seismometer  
 SP – rövid periódusú szeizmométer / short period seismometer  
 BB – széles sávú szeizmométer / broad band seismometer
- (2) STS-2 / STS-2.5 – Streckeisen széles sávú szeizmométer / Streckeisen broadband seismometer  
 CMG-40T – Güralp rövidperiódusú szeizmométer / Güralp short period seismometer  
 CMG-3T – Güralp széles sávú szeizmométer / Güralp broad band seismometer  
 TC20-PH2 – Nanometrics Trillium széles sávú lyukszeizmométer /  
 Nanometrics Trillium Compact Posthole broadband seismometer
- (3) PS-6-24 – Earth Data digitalizáló / Earth Data digitizer  
 CMG-DM24S3-EAM – Güralp adatgyűjtő / Güralp data acquisition module  
 SeisComp – GEOFON Seismological Communication Processor  
 CTR-3 – Nanometrics Centaur adatgyűjtő / Nanometrics Centaur data acquisition module
- (4) GGI – MTA CSFK Geodéziai és Geofizikai Intézet / Geodetic and Geophysical Institute, MTA CSFK  
 GR – GeoRisk Földrengés Mérnöki Iroda Kft. / GeoRisk Earthquake Engineering Ltd.  
 GEOFON – GEOFON Program GFZ Potsdam / GEOFON Program GFZ Potsdam  
 MFGI – Magyar Földtani és Geofizikai Intézet / Geological and Geophysical Institute of Hungary

(\*) Működés kezdete / Open date: 2016/10/12

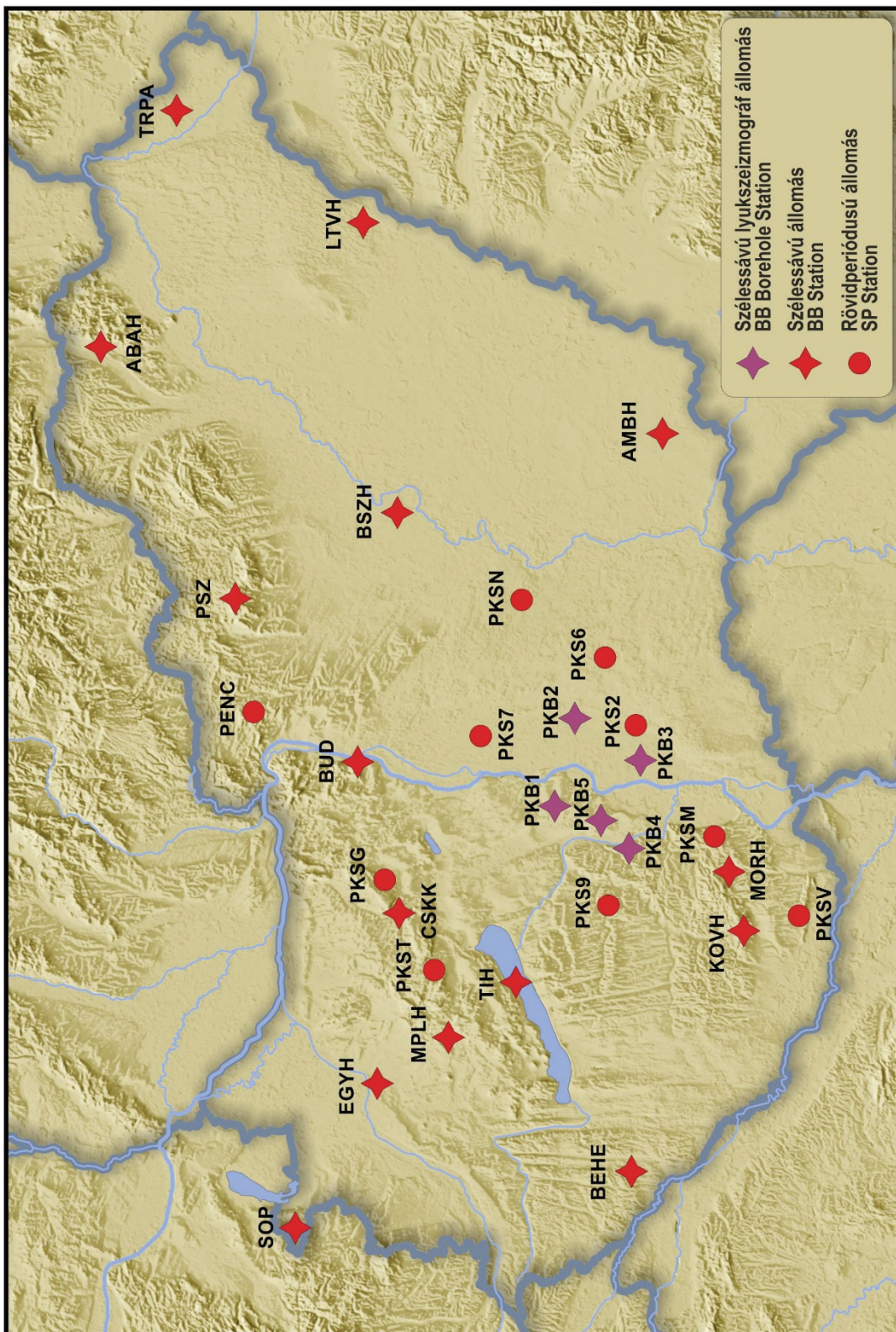
(\*\*) Működés kezdete / Open date: 2016/03/01

(\*\*\*) Működés kezdete / Open date: 2016/02/13

(\*\*\*\*) Működés kezdete / Open date: 2016/02/16

(\*\*\*\*\*) Működés kezdete / Open date: 2015/09/18

(\*\*\*\*\*) Működés kezdete / Open date: 2016/02/09



2.1. ábra Szeizmológiai állomások Magyarországon 2016-ban (részletek: 2.1. Táblázat)

Figure 2.1. Seismograph stations in Hungary in 2016 (See Table 2.1. for details)



**2.2. Táblázat** HUN-RENG virtuális szeizmológiai hálózathoz felhasznált fizikai hálózatok  
**Table 2.2.** Physical networks used in HUN-RENG virtual seismic network

Hálózat kódja* Network code*	Az üzemeltető hálózat Operating network
CU	CariUSGS Caribbean Network USGS, Golden, CO
CZ	Czech Seismic Network Geophysical Institute, Czech Academy of Sciences
GE	GEOFON GEOForschungsNetz (Geo Research Network)
GT	Global Telemetered Southern Hemisphere Network USGS Albuquerque Seismological Laboratory
HM	GeoRisk Earthquake Engineering, Hungary
HU	Hungarian National Seismological Network Institute of Geodesy and Geophysics, Research Centre for Astronomy and Earth Sciences
II	IRIS/IDA Network University of California, Scripps Institute of Oceanography
IU	IRIS/USGS Network USGS Albuquerque Seismological Laboratory
JP	Japan Meteorological Agency Seismic Network Japan Meteorological Agency Seismic, Tokyo Japan
MK	Seismological Observatory Skopje, Republic of Macedonia (MK)
MN	MEDNET Istituto Nazionale di Geofisica, Italy
MY	Malaysian National Seismic Network Malaysian Meteorological Service
NZ	New Zealand National Seismograph Network Institute of Geological & Nuclear Sciences, Wellington, New Zealand
OE	Austrian Seismic Network ZAMG - Central Institute for Meteorology and Geodynamics
PL	Polish Seismological Network Polish Academy of Sciences, Warsaw
RO	Romanian Seismic Network National Institute for Earth Physics, Romania
SJ	Serbian Seismological Network Seismological Survey of Serbia
SK	Slovak National Seismic Network Geophysical Institute, Slovak Academy of Sciences
SL	Slovenia Seismic Network Slovenia Geological Survey, Ljubljana

\*FDSN (International Federation of Digital Seismograph Networks) kód





# 3.

## ESEMÉNYLISTA

### ÉS

## FÖLDRENGÉS FÉSZKEPARAMÉTEREK

#### A FÖLDRENGÉS FÉSZKEPARAMÉTEREK MEGHATÁROZÁSA

A fészkeparaméterek rutinszerű kiszámításához a HYPO71PC programot használtuk (Lee and Lahr, 1975). A kimérés és magnitúdó meghatározás a K. Stammler által készített SeismicHandler program segítségével történt.

A fészkeparaméterek meghatározásánál mind a magyarországi, mind a szomszédos országok állomásainak adatait felhasználtuk. A számításnál az egyes állomások kimérési adatait az epicentrumtól való távolsággal fordított arányban súlyoztuk. Néhány esetben, amikor elegendő P fázis adat állt rendelkezésre, az S fázis adatokat nem használtuk fel.

#### SEBESSÉGMODELL

A számításnál felhasznált 3 rétegű sebességmodell több száz helyi és közeli földregés kéregfázis adatain alapul (Mónus, 1995).

<i>Sebesség (<math>v_p</math>)</i> <i>[km/s]</i>	<i>Mélység</i> <i>[km]</i>	<i>Vastagság</i> <i>[km]</i>	$v_p/v_s$
5,60	0,0	20,0	1,78
6,57	20,0	11,0	
8,02	31,0	$\infty$	



### 3.

## LIST OF ORIGINS AND HYPOCENTER PARAMETERS

#### METHOD FOR HYPOCENTER PARAMETER DETERMINATION

HYPO71PC (Lee and Lahr, 1975) was used for the routine calculation of hypocenter parameters. SeismicHandler software package by K. Stammler has been used for phase picking and magnitude determination.

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

#### CRUSTAL VELOCITY MODEL

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

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

## ESEMÉNYLISTA / LIST OF EVENTS

Nap	Kipattanási idő UTC óó pp mp	Földrajzi koordináták Lat Long	Mélys. (km)	ML	I <sub>MAX</sub> (EMS)	Helyszín
Day	Origin time UTC hr mn sec	Geographic coordinates Lat Long	Depth (km)	ML	I <sub>MAX</sub> (EMS)	Locality or Region
JANUÁR / JANUARY, 2016						
04	11:02:55.5	48.653N 20.685E	0	1.7	-	Slovakia (exp)
12	9:03:26.6	45.859N 18.401E	0	1.0	-	Nagyharsány (exp)
12	12:52:10.9	47.026N 16.999E	8	1.5	-	Mikosszéplak
14	12:13:21.3	45.502N 18.005E	7	1.7	-	Croatia
15	10:01:03.7	48.434N 17.214E	1	1.9	-	Slovakia
15	10:42:12.2	47.569N 18.479E	3	1.1	-	Tatabánya
15	11:03:04.0	47.702N 18.502E	13	1.8	-	Lábatlan
18	10:53:50.4	47.867N 19.103E	0	1.3	-	Szendehely (exp)
21	5:37:45.4	45.793N 17.419E	13	1.9	-	Croatia
22	6:16:20.9	47.632N 20.318E	11	2.4	4	Tenk
24	22:18:55.0	48.613N 20.146E	10	1.9	-	Slovakia
24	22:24:27.1	48.648N 20.149E	0	1.1	-	Slovakia
28	9:46:17.6	46.174N 18.285E	0	0.5	-	Zobákpuszta (exp)
FEBRUÁR / FEBRUARY, 2016						
02	13:25:05.9	45.701N 18.093E	10	2.9	-	Croatia
03	9:23:16.9	45.533N 18.048E	2	1.7	-	Croatia
05	8:24:19.9	46.028N 18.070E	0	1.0	-	Bicsérd (exp)
05	10:00:57.1	48.472N 17.182E	0	2.2	-	Slovakia (exp)
11	10:07:09.5	46.071N 18.344E	0	0.7	-	Bogád (exp)
11	11:12:11.6	47.121N 17.997E	10	1.4	-	Sóly
12	3:42:56.2	47.460N 19.822E	10	1.5	-	Jászberény
12	11:09:27.9	48.578N 20.411E	0	1.6	-	Slovakia (exp)
13	21:34:16.8	48.749N 19.322E	2	1.7	-	Slovakia
15	10:30:42.0	48.558N 20.798E	0	1.5	-	Tornanádaska (exp)
16	6:15:18.5	46.226N 16.524E	9	1.9	-	Croatia
16	8:49:34.3	45.871N 18.410E	0	0.7	-	Villánykövesd (exp)
17	11:57:16.0	47.860N 19.120E	0	1.6	-	Szendehely (exp)
17	12:41:10.7	45.580N 17.294E	12	1.2	-	Croatia
17	13:14:55.9	48.632N 20.704E	0	1.7	-	Slovakia (exp)
18	9:21:19.9	48.659N 20.703E	0	1.7	-	Slovakia (exp)
18	12:45:58.2	48.152N 19.074E	0	1.3	-	Slovakia (exp)
19	9:26:08.2	46.174N 18.292E	8	0.6	-	Zobákpuszta
19	12:39:00.1	48.165N 19.072E	0	1.5	-	Slovakia (exp)
23	10:14:43.2	48.623N 20.729E	0	1.6	-	Slovakia (exp)
23	16:41:31.3	47.643N 18.014E	11	1.5	-	Bábolna
24	13:45:44.8	47.908N 16.386E	1	1.8	-	Austria
24	16:17:46.5	47.922N 16.375E	3	1.8	-	Austria
24	20:44:46.7	46.280N 17.245E	12	1.3	-	Bolhás
25	7:52:45.3	47.283N 18.347E	0	0.7	-	Magyaralmás (exp)
26	0:01:32.3	47.285N 17.655E	3	0.3	-	Homokbödöge
26	10:49:36.4	48.679N 20.374E	0	1.4	-	Slovakia (exp)
26	11:16:20.6	47.581N 18.473E	0	0.9	-	Tatabánya (exp)
27	9:32:25.0	46.134N 18.337E	1	0.8	-	Hird
29	12:30:55.8	47.159N 18.316E	0	0.6	-	Sársztmihály (exp)

**Földrengés paraméterek**

**Hypocenter Parameters**

MÁRCIUS / MARCH, 2016

01	13:51:55.8	45.942N	18.769E	0	2.1	-	Homorúd
01	16:48:35.5	45.959N	18.693E	6	0.7	-	Kölked
02	7:56:27.6	45.912N	18.738E	10	0.8	-	Kölked
02	8:30:43.3	47.469N	18.396E	0	1.2	-	Várgesztes (exp)
02	11:23:52.2	45.821N	18.385E	0	1.4	-	Kistapolca (exp)
05	22:01:37.6	47.890N	18.012E	10	1.8	-	Slovakia
07	11:01:15.0	48.564N	19.354E	0	1.6	-	Slovakia (exp)
07	12:32:48.0	48.211N	21.230E	10	1.8	-	Rátka
07	20:03:52.4	47.313N	18.343E	10	1.0	-	Zámoly
07	21:33:20.7	47.298N	18.342E	7	0.6	-	Magyaralmás
07	22:01:16.2	47.272N	18.375E	2	0.1	-	Sárkeresztes
07	22:48:51.1	47.329N	18.332E	10	0.2	-	Söréd
07	23:11:55.1	47.289N	18.364E	0	-0.5	-	Magyaralmás
08	2:22:52.0	45.694N	18.250E	6	0.7	-	Croatia
08	16:19:47.2	47.331N	18.329E	10	0.1	-	Söréd
09	9:25:45.1	48.416N	19.124E	0	1.4	-	Slovakia (exp)
09	10:39:28.4	47.033N	17.796E	10	1.2	-	Tótvázsony
09	14:26:50.8	48.494N	20.343E	0	1.5	-	Slovakia (exp)
10	7:15:10.1	47.197N	18.005E	0	0.4	-	Eplény (exp)
10	21:05:27.9	45.656N	18.206E	4	1.0	-	Croatia
15	12:00:22.5	48.547N	19.355E	0	1.6	-	Slovakia (exp)
15	18:46:34.0	47.800N	17.238E	10	1.5	-	Újrónafő
16	7:28:55.0	47.297N	18.338E	0	0.5	-	Magyaralmás (exp)
16	8:32:50.4	48.516N	19.320E	0	1.7	-	Slovakia (exp)
16	9:26:46.6	47.199N	18.301E	0	0.5	-	Székesfehérvár (exp)
16	10:23:05.4	48.635N	20.712E	0	1.5	-	Slovakia (exp)
16	12:06:02.0	47.204N	18.332E	0	0.7	-	Székesfehérvár (exp)
17	21:50:44.0	45.645N	21.108E	12	1.9	-	Romania
18	8:31:23.8	47.587N	18.490E	0	0.9	-	Tarján (exp)
18	14:00:11.7	47.311N	18.336E	0	0.8	-	Magyaralmás (exp)
18	14:12:16.1	47.296N	18.341E	0	1.1	-	Magyaralmás (exp)
18	21:58:19.1	45.843N	21.199E	9	2.9	-	Romania
21	10:03:55.6	47.204N	18.303E	0	0.8	-	Székesfehérvár (exp)
22	12:06:55.1	48.555N	21.047E	0	1.5	-	Slovakia (exp)
23	8:32:46.4	46.940N	18.784E	10	1.8	-	Mezőfalva
24	8:38:46.0	47.979N	20.000E	0	1.6	-	Mátraballa (exp)
24	16:54:50.7	47.294N	17.573E	9	1.6	-	Nagytevel
25	8:16:16.4	47.094N	18.008E	7	1.0	-	Litér
25	9:25:16.9	46.055N	18.114E	0	0.8	-	Cserkút (exp)
25	10:12:13.7	46.178N	18.287E	0	0.8	-	Zobákpusztá (exp)

ÁPRILIS / APRIL, 2016

02	2:02:12.2	47.542N	16.806E	14	1.2	-	Ebergőc
03	19:53:22.7	46.150N	16.703E	10	1.1	-	Croatia
04	10:50:51.1	48.210N	21.245E	10	1.9	-	Rátka
04	14:00:10.2	48.000N	20.159E	10	0.7	-	Terpes
05	6:08:30.4	47.269N	17.649E	19	0.9	-	Homokbödöge
05	7:07:29.3	45.859N	18.411E	0	0.4	-	Nagyharsány (exp)
05	8:20:22.8	48.629N	20.711E	0	1.4	-	Slovakia (exp)
05	8:53:02.9	46.127N	18.030E	3	0.5	-	Hetvehely
06	8:32:14.7	48.606N	20.749E	0	1.7	-	Slovakia (exp)
07	8:12:12.4	47.196N	18.306E	0	0.4	-	Székesfehérvár (exp)
07	8:21:27.8	47.908N	19.400E	0	1.6	-	Becske (exp)
07	8:53:46.8	47.876N	19.148E	0	1.5	-	Nőtincs (exp)
08	7:33:19.2	47.172N	17.900E	16	1.0	-	Eplény
08	8:40:31.3	46.279N	18.199E	0	0.6	-	Kisvaszar (exp)
08	9:42:07.0	48.887N	20.505E	0	1.8	-	Slovakia (exp)
11	9:39:22.6	47.197N	18.317E	0	0.9	-	Székesfehérvár (exp)
12	5:08:28.3	47.285N	18.368E	0	0.8	-	Magyaralmás (exp)

## Hypocenter Parameters

## Földrengés paraméterek

12	5:44:15.1	47.457N	18.217E	0	0.4	-	Bokod (exp)
12	6:40:38.0	47.450N	18.403E	0	1.2	-	Várgesztes (exp)
12	9:42:52.7	47.196N	18.312E	0	0.3	-	Székesfehérvár (exp)
13	8:21:27.9	45.878N	18.387E	0	1.3	-	Kisharsány (exp)
18	9:03:59.4	46.136N	18.075E	2	0.5	-	Abaliget
18	12:03:32.5	48.634N	20.729E	0	1.8	-	Slovakia (exp)
19	6:50:58.0	46.950N	18.992E	1	0.8	-	Dunavecse
19	11:42:22.3	47.447N	18.509E	9	1.9	-	Bodmér
22	8:27:37.6	48.628N	20.718E	0	1.6	-	Slovakia (exp)
22	8:38:44.6	45.603N	17.379E	8	1.3	-	Croatia
22	9:15:29.5	46.169N	18.273E	13	0.6	-	Mánfa
23	9:04:35.8	46.189N	18.223E	20	0.7	-	Sikonda
25	5:54:05.9	46.416N	17.097E	13	2.4	-	Sand
25	8:48:37.4	47.721N	18.406E	0	1.1	-	Dunaszentmiklós (exp)
25	9:32:30.3	47.186N	18.307E	0	0.3	-	Székesfehérvár (exp)
25	10:28:23.0	48.055N	16.114E	9	3.6	-	Austria
25	10:49:37.5	48.017N	16.054E	13	1.7	-	Austria
26	3:40:50.9	48.046N	16.146E	8	1.5	-	Austria
26	7:53:59.0	47.167N	18.223E	0	0.3	-	Ósi (exp)
26	8:33:28.3	47.211N	18.221E	0	0.1	-	Csór (exp)
28	9:16:53.7	46.022N	18.368E	0	0.3	-	Hásságy (exp)
28	9:22:18.2	47.183N	18.295E	0	0.2	-	Sárkeszi (exp)
28	9:34:54.3	47.198N	18.315E	0	0.8	-	Székesfehérvár (exp)
28	11:15:44.6	48.418N	17.275E	0	2.1	-	Slovakia (exp)
28	11:49:50.0	47.846N	19.428E	0	1.5	-	Galgaguta (exp)
29	4:41:28.6	47.239N	19.228E	15	2.0	-	Bugyi
29	8:20:18.9	48.625N	20.708E	0	1.5	-	Slovakia (exp)
30	0:15:05.1	46.537N	21.205E	5	2.4	-	Kétegyháza

## MÁJUS / MAY, 2016

01	2:08:04.4	47.203N	17.445E	9	0.7	-	Bakonypölöske
01	22:23:08.3	48.650N	18.631E	10	1.3	-	Slovakia
02	8:26:42.8	48.543N	19.369E	0	1.3	-	Slovakia (exp)
03	8:45:47.0	48.417N	19.143E	0	1.7	-	Slovakia (exp)
03	11:25:03.7	47.173N	18.340E	1	0.9	-	Székesfehérvár
04	8:40:15.9	48.593N	20.758E	0	1.8	-	Slovakia (exp)
04	11:00:30.9	48.910N	20.893E	0	1.9	-	Slovakia (exp)
05	10:26:30.9	47.870N	19.396E	10	1.3	-	Bercel
05	10:30:56.3	48.872N	20.479E	6	1.9	-	Slovakia
06	8:41:30.0	45.850N	17.395E	10	1.2	-	Croatia
06	13:51:05.5	45.546N	20.059E	10	2.2	-	Serbia
09	5:08:12.0	47.293N	18.349E	0	0.5	-	Magyaralmás (exp)
09	8:04:13.3	48.641N	20.737E	0	1.5	-	Slovakia (exp)
09	8:14:59.2	48.551N	19.373E	0	1.4	-	Slovakia (exp)
09	11:33:20.5	48.237N	18.282E	0	1.4	-	Slovakia (exp)
09	12:19:54.9	47.175N	18.297E	0	0.3	-	Sárkeszi (exp)
10	5:52:01.1	48.034N	16.124E	10	2.0	-	Austria
10	8:10:32.5	48.584N	20.756E	8	1.6	-	Slovakia
10	8:51:45.3	48.427N	17.230E	0	2.0	-	Slovakia (exp)
10	9:05:04.5	45.607N	17.340E	12	1.5	-	Croatia
10	10:47:36.6	47.938N	19.827E	0	1.8	-	Mátraverebély (exp)
10	20:27:44.3	47.368N	18.237E	4	-0.3	-	Mór
11	9:42:56.2	48.890N	20.454E	0	1.7	-	Slovakia (exp)
12	10:43:05.8	48.783N	20.030E	0	1.7	-	Slovakia (exp)
16	7:23:11.4	48.550N	19.362E	0	1.7	-	Slovakia (exp)
17	7:53:15.1	47.047N	18.078E	0	1.1	-	Balatonkenese (exp)
17	11:45:03.6	47.194N	18.350E	10	0.9	-	Székesfehérvár
18	8:16:53.4	48.533N	20.798E	0	1.6	-	Bódvalenke (exp)
18	10:37:09.5	48.219N	21.209E	10	1.8	-	Rátka
19	14:39:19.0	47.884N	19.404E	0	1.6	-	Bercel (exp)

## Földrengés paraméterek

## Hypocenter Parameters

22	17:19:19.0	46.306N	18.452E	10	0.9	-	Nagymányok
22	21:40:27.8	46.302N	18.435E	5	0.7	-	Nagymányok
23	10:12:41.1	45.508N	18.027E	0	1.6	-	Croatia
24	5:44:31.8	47.038N	17.760E	0	1.0	-	Tótvázsony (exp)
24	8:06:55.6	48.609N	20.775E	0	1.4	-	Slovakia (exp)
25	8:22:18.5	47.210N	18.297E	0	0.6	-	Moha (exp)
25	8:50:59.4	45.585N	17.816E	4	2.1	-	Croatia
25	9:00:22.0	48.494N	19.308E	0	1.6	-	Slovakia (exp)
25	11:13:22.6	47.332N	18.444E	0	1.5	-	Zámoly (exp)
25	14:19:49.0	47.217N	18.269E	0	0.2	-	Iszcasztgyörgy (exp)
26	8:33:23.8	48.533N	19.358E	0	1.8	-	Slovakia (exp)
26	9:52:25.4	48.628N	20.714E	0	1.3	-	Slovakia (exp)
26	10:37:21.2	47.189N	18.313E	0	0.6	-	Székesfehérvár (exp)
27	6:26:04.3	48.989N	19.407E	0	1.4	-	Slovakia (exp)
27	8:08:48.2	47.077N	18.024E	0	1.2	-	Balatonfűzfő (exp)
27	9:03:46.4	46.001N	18.355E	0	0.8	-	Lothárd (exp)
27	21:55:12.8	47.345N	18.285E	10	1.0	-	Csákberény
30	8:48:42.5	47.978N	19.983E	0	1.7	-	Mátramindszent (exp)
31	7:16:00.6	48.400N	19.164E	0	1.6	-	Slovakia (exp)
31	7:59:26.6	48.617N	20.754E	0	1.3	-	Slovakia (exp)
31	8:08:19.2	45.840N	18.426E	0	1.2	-	Nagyharsány (exp)

## JÚNIUS / JUNE, 2016

01	7:48:42.4	48.558N	19.358E	0	1.9	-	Slovakia (exp)
01	9:37:00.1	48.122N	20.589E	1	1.9	-	Lillafüred
02	7:23:44.8	47.448N	18.368E	0	0.9	-	Oroszlány (exp)
02	8:04:48.2	46.080N	18.086E	5	1.2	-	Kővágóttós
03	8:06:06.8	48.633N	20.730E	0	1.4	-	Slovakia (exp)
03	10:15:37.4	46.122N	18.121E	0	0.9	-	Abaliget (exp)
03	10:27:53.9	47.095N	18.014E	0	1.1	-	Litér (exp)
04	6:14:15.6	47.237N	18.461E	0	0.2	-	Csala
04	9:31:39.9	46.187N	18.291E	0	0.4	-	Zobákpuszta (exp)
04	11:17:57.1	45.940N	17.078E	14	2.3	-	Croatia
05	0:17:49.3	45.927N	16.034E	8	1.5	-	Croatia
06	11:49:19.2	47.173N	18.310E	0	0.4	-	Sárkeszi (exp)
07	12:01:50.9	48.435N	17.193E	0	1.9	-	Slovakia (exp)
08	12:33:28.8	47.491N	18.600E	0	1.2	-	Óbarok (exp)
09	5:41:54.7	48.417N	19.071E	0	1.7	-	Slovakia (exp)
09	6:54:32.3	45.552N	17.739E	0	1.5	-	Croatia (exp)
09	8:10:12.4	47.364N	18.453E	0	1.1	-	Csákvár (exp)
09	11:39:17.3	47.212N	18.289E	0	0.8	-	Iszcasztgyörgy (exp)
14	8:12:43.2	47.167N	18.315E	1	0.3	-	Sárszentmihály
14	9:05:08.4	48.633N	20.707E	0	1.5	-	Slovakia (exp)
14	10:44:15.4	46.023N	18.096E	0	1.1	-	Zók (exp)
14	11:56:23.3	47.220N	18.280E	8	0.5	-	Iszcasztgyörgy
15	6:03:09.7	47.312N	17.664E	0	1.0	-	Bakonykoppány (exp)
15	9:14:03.4	48.604N	20.782E	10	1.6	-	Slovakia
15	9:23:33.9	48.634N	20.723E	0	1.5	-	Slovakia (exp)
16	7:20:20.0	47.449N	18.393E	0	1.5	-	Várgesztes (exp)
16	9:19:10.4	48.623N	20.727E	0	1.7	-	Slovakia (exp)
16	12:06:41.9	47.052N	19.488E	0	1.3	-	Felsőlajos (exp)
16	12:08:15.8	47.056N	19.449E	0	1.6	-	Ladánybene (exp)
17	6:13:32.7	47.295N	18.341E	0	0.7	-	Magyaralmás (exp)
20	9:03:07.9	47.936N	20.033E	0	2.1	-	Bodony (exp)
21	7:16:12.9	47.207N	18.208E	0	0.3	-	Csór (exp)
21	7:22:49.2	47.112N	18.213E	0	0.6	-	Jenő (exp)
21	7:28:53.2	47.189N	18.220E	0	0.4	-	Csór (exp)
21	7:32:52.1	47.187N	18.208E	0	0.4	-	Csór (exp)
22	7:06:46.0	47.476N	18.382E	0	1.2	-	Várgesztes (exp)
22	7:08:03.9	47.431N	18.399E	0	1.0	-	Gánt (exp)

**Hypocenter Parameters**

**Földrengés paraméterek**

22	9:50:15.9	47.231N	18.256E	10	0.6	-	Iszkaszentgyörgy
23	7:23:59.3	47.382N	18.434E	0	0.7	-	Gánt (exp)
23	8:05:57.8	45.865N	18.394E	0	1.2	-	Kisharsány (exp)
23	21:52:17.8	47.768N	18.187E	7	1.7	-	Slovakia
23	22:38:49.3	46.223N	16.417E	10	1.1	-	Croatia
24	7:11:51.6	48.449N	19.160E	0	1.8	-	Slovakia (exp)
25	0:32:59.8	48.715N	19.223E	10	1.8	-	Slovakia
27	8:11:13.8	47.087N	17.983E	0	1.2	-	Litér (exp)
28	7:29:51.4	47.417N	18.388E	0	0.9	-	Gánt (exp)
29	6:58:11.2	47.442N	18.347E	0	1.0	-	Oroszlány (exp)
29	8:47:05.0	48.558N	20.794E	0	1.4	-	Tornanádaska (exp)
30	6:49:27.0	47.110N	18.002E	12	1.2	-	Litér
30	8:00:21.0	48.526N	18.567E	0	1.8	-	Slovakia (exp)
30	10:08:21.3	48.210N	18.753E	0	1.9	-	Slovakia (exp)
30	12:23:02.9	46.178N	16.254E	10	3.1	-	Croatia
30	17:49:08.1	46.171N	16.245E	11	2.1	-	Croatia

**JÚLIUS / JULY, 2016**

01	8:17:01.4	47.296N	18.669E	0	0.7	-	Vereb (exp)
01	8:41:45.3	47.054N	18.026E	0	0.9	-	Balatonfűzfő (exp)
02	6:28:12.3	46.738N	16.499E	1	1.9	-	Alsószenterzsébet
02	8:59:21.5	46.167N	18.290E	0	0.6	-	Zobákpuszt (exp)
04	8:40:24.3	47.186N	18.199E	0	0.5	-	Csór (exp)
04	9:52:22.3	48.324N	21.126E	24	2.2	-	Encs
04	10:23:53.8	46.044N	18.117E	0	0.8	-	Pellérd (exp)
05	7:51:10.2	47.317N	18.454E	0	1.1	-	Pátka (exp)
05	8:57:28.2	47.204N	18.286E	0	0.5	-	Csór (exp)
06	6:27:18.6	47.336N	18.294E	8	0.5	-	Csákberény
06	7:27:17.5	47.566N	18.454E	0	0.9	-	Tatabánya (exp)
07	1:00:12.7	47.247N	17.835E	10	0.7	-	Zirc
07	7:00:06.3	47.460N	18.375E	0	1.1	-	Várgesztes (exp)
12	7:44:36.9	47.058N	18.062E	0	0.9	-	Balatonfűzfő (exp)
13	9:38:40.2	48.633N	20.695E	0	1.7	-	Slovakia (exp)
14	10:13:55.9	47.173N	18.343E	0	0.7	-	Székesfehérvár (exp)
15	8:44:52.7	48.612N	20.750E	0	1.4	-	Slovakia (exp)
15	9:24:15.2	45.556N	17.305E	15	1.5	-	Croatia
18	11:46:15.1	47.862N	19.107E	0	1.3	-	Szendehely (exp)
19	10:48:27.6	47.192N	18.309E	0	0.6	-	Székesfehérvár (exp)
21	7:23:24.4	48.630N	18.387E	0	1.8	-	Slovakia (exp)
21	7:46:20.8	47.443N	18.387E	0	1.0	-	Várgesztes (exp)
21	11:08:03.8	48.243N	21.213E	10	1.7	-	Tállya
22	23:40:11.2	47.247N	18.382E	10	0.0	-	Sárkeresztes
26	9:33:44.8	48.705N	19.269E	0	1.6	-	Slovakia (exp)
26	10:28:44.9	47.172N	18.315E	0	0.4	-	Székesfehérvár (exp)
26	16:19:46.8	47.426N	16.892E	16	1.7	-	Nemesládony
28	7:03:11.8	46.690N	18.529E	10	0.8	-	Kisszékely
29	9:42:29.6	48.378N	19.839E	0	1.5	-	Slovakia (exp)

**AUGUSZTUS / AUGUST, 2016**

01	5:15:21.7	47.372N	18.265E	10	0.4	-	Csókakó
01	19:50:33.3	47.150N	18.370E	10	1.6	-	Sárszentmihály
02	0:29:12.5	47.152N	18.365E	12	1.6	-	Sárszentmihály
02	1:36:50.3	47.149N	18.369E	10	2.1	-	Sárszentmihály
02	7:41:58.6	45.865N	18.407E	0	1.0	-	Nagyharsány (exp)
02	7:56:49.9	48.616N	20.729E	0	1.4	-	Slovakia (exp)
02	8:19:21.4	48.667N	19.127E	0	1.7	-	Slovakia (exp)
02	8:58:16.4	48.414N	17.310E	0	1.9	-	Slovakia (exp)
03	11:32:52.5	47.987N	19.899E	0	1.7	-	Szuha (exp)
04	2:53:15.3	47.679N	20.248E	6	1.8	-	Tarnabod
04	5:24:59.5	47.282N	18.354E	0	0.8	-	Magyaralmás (exp)

## Földrengés paraméterek

## Hypocenter Parameters

05	10:07:57.1	46.129N	18.050E	0	1.1	-	Hetvehely
05	12:26:46.5	47.163N	18.349E	14	1.2	-	Sárszentmihály
07	19:20:11.4	48.649N	19.025E	10	1.5	-	Slovakia
08	23:46:15.2	45.875N	16.232E	12	1.5	-	Croatia
09	1:59:34.1	47.374N	18.256E	7	0.9	-	Mór
09	6:33:25.5	47.314N	17.657E	0	1.0	-	Bakonykoppány (exp)
09	9:43:07.4	48.641N	20.719E	0	1.8	-	Slovakia (exp)
10	7:25:27.3	47.330N	18.274E	0	0.3	-	Söréd (exp)
10	8:11:06.3	48.601N	20.761E	0	1.5	-	Slovakia (exp)
10	9:22:23.6	47.870N	19.166E	0	1.4	-	Ósagárd (exp)
11	7:58:32.8	47.432N	18.410E	0	0.9	-	Várgesztes (exp)
11	9:58:40.3	48.640N	20.748E	0	1.4	-	Slovakia (exp)
12	3:16:36.0	47.668N	16.150E	6	1.9	-	Austria
12	14:33:45.1	45.846N	16.274E	10	1.8	-	Croatia
12	21:54:23.4	47.633N	18.000E	10	1.6	-	Bábolna
12	23:39:33.9	47.686N	16.147E	7	2.1	-	Austria
15	5:54:31.7	48.396N	18.642E	0	2.1	-	Slovakia (exp)
15	6:27:47.0	47.446N	18.406E	0	0.9	-	Várgesztes (exp)
16	7:44:09.7	45.919N	18.356E	0	1.4	-	Vokány (exp)
16	9:36:06.1	46.022N	18.059E	0	0.6	-	Bicsérd (exp)
16	13:40:21.6	47.273N	18.233E	2	1.0	-	Kincsesbánya
17	8:21:30.4	46.179N	18.247E	18	0.5	-	Mánfa
20	6:44:26.0	47.363N	18.147E	10	1.4	-	Nagyveleg
20	6:53:22.7	47.348N	18.195E	6	0.9	-	Bodajk
21	13:49:53.0	47.380N	18.162E	6	0.5	-	Nagyveleg
23	7:21:26.0	47.437N	18.419E	0	0.9	-	Várgesztes (exp)
23	7:37:54.4	47.138N	18.228E	0	0.6	-	Nádasdladány (exp)
23	10:45:30.4	45.536N	17.786E	3	1.9	-	Croatia
23	23:09:45.0	45.862N	17.536E	1	1.6	-	Croatia
24	10:03:01.9	47.216N	18.237E	0	1.0	-	Csór (exp)
26	3:51:57.9	46.941N	17.680E	12	0.9	-	Óbudavár
26	8:09:28.0	45.843N	18.445E	0	1.3	-	Villány (exp)
26	8:54:10.3	47.430N	18.396E	0	0.8	-	Gánt (exp)
26	8:54:44.8	47.442N	18.448E	0	0.9	-	Bodmér (exp)
26	9:01:11.9	47.599N	18.522E	0	0.8	-	Tarján (exp)
27	8:55:01.8	46.227N	18.239E	0	0.9	-	Komló (exp)
29	8:51:34.1	48.136N	21.304E	14	1.8	-	Mezőzombor
29	14:43:24.0	47.456N	19.773E	0	2.1	-	Jászfelsőszentgyörgy
29	19:48:00.1	47.368N	18.285E	7	0.6	-	Csókakó
31	6:57:22.3	47.419N	18.381E	0	0.8	-	Gánt (exp)
31	9:34:07.7	47.151N	18.316E	0	0.7	-	Sárszentmihály (exp)
31	11:00:30.4	45.632N	17.640E	10	1.1	-	Croatia
31	18:22:26.6	47.000N	17.438E	15	1.2	-	Nyirád

## SZEPTEMBER / SEPTEMBER, 2016

01	11:20:29.4	46.129N	18.107E	0	1.1	-	Abaliget (exp)
02	8:59:36.3	47.899N	19.383E	0	1.8	-	Becske (exp)
05	14:14:22.1	47.071N	18.044E	7	1.1	-	Balatonfűzfő
07	11:21:25.8	47.172N	18.307E	0	0.4	-	Sárkeszi (exp)
07	15:05:27.2	47.368N	18.105E	2	0.5	-	Nagyveleg
08	8:06:39.6	47.447N	18.428E	0	0.9	-	Várgesztes (exp)
08	8:35:03.5	45.813N	18.381E	0	0.7	-	Siklósnagyfalu (exp)
09	9:15:31.4	46.177N	18.292E	0	0.7	-	Zobákpuszta (exp)
10	13:25:58.1	46.090N	16.363E	12	1.3	-	Croatia
12	8:40:06.0	47.871N	19.357E	0	1.3	-	Nógrádkövesd (exp)
12	9:59:01.4	47.147N	18.098E	0	0.6	-	Öskü (exp)
13	7:41:44.1	47.449N	18.436E	0	0.9	-	Várgesztes (exp)
13	8:28:08.4	48.611N	20.788E	0	1.5	-	Slovakia (exp)
14	6:03:11.6	48.475N	19.211E	0	1.4	-	Slovakia (exp)
15	11:34:37.2	47.201N	18.289E	0	0.5	-	Csór (exp)

**Hypocenter Parameters**

**Földrengés paraméterek**

17	8:02:53.5	48.066N	19.675E	0	1.0	-	Sóshartyán (exp)
17	16:33:42.1	45.757N	17.792E	17	0.7	-	Croatia
19	8:26:47.8	48.591N	20.787E	0	1.4	-	Slovakia (exp)
21	6:25:22.9	47.323N	17.651E	0	1.2	-	Bakonykoppány (exp)
21	9:01:49.4	46.171N	18.292E	7	0.6	-	Zobákpuszta
21	9:53:47.2	47.306N	18.159E	10	1.7	-	Balinka
22	8:59:01.3	47.871N	19.178E	0	1.6	-	Ósagárd (exp)
22	11:26:32.8	47.006N	18.045E	0	1.1	-	Balatonalmádi (exp)
26	6:14:04.9	47.276N	18.343E	0	0.7	-	Magyaralmás (exp)
26	23:34:05.1	46.289N	19.703E	5	0.9	-	Öttömös
27	23:37:13.8	46.839N	18.893E	13	0.8	-	Dunaegyháza
28	8:17:33.8	45.854N	18.395E	0	1.1	-	Kisharsány (exp)
28	12:37:29.8	48.610N	20.752E	0	1.9	-	Slovakia (exp)
29	8:58:07.8	46.013N	18.482E	0	1.1	-	Monyoród
29	10:46:58.7	47.178N	18.313E	0	0.6	-	Székesfehérvár (exp)
30	7:09:23.7	48.402N	19.089E	0	1.5	-	Slovakia (exp)
30	9:55:03.3	45.561N	17.860E	15	1.2	-	Croatia

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04	12:38:45.5	47.282N	18.195E	8	1.0	-	Isztimér
06	8:16:58.0	48.614N	20.753E	0	1.4	-	Slovakia (exp)
06	8:28:29.1	47.987N	20.000E	0	1.8	-	Mátraballa (exp)
06	14:10:37.8	47.347N	18.163E	7	1.4	-	Nagyveleg
06	21:18:01.3	47.357N	18.489E	10	1.1	-	Csákvár
07	8:41:10.2	48.590N	20.774E	0	1.6	-	Slovakia (exp)
07	11:08:13.7	47.885N	19.417E	0	1.5	-	Bercel (exp)
07	11:19:41.0	47.169N	18.294E	0	0.6	-	Sárkeszi (exp)
07	14:34:26.0	47.373N	18.526E	10	1.1	-	Csákvár
07	15:06:11.8	48.096N	19.821E	0	1.4	-	Salgótarján
07	19:24:51.1	47.350N	18.522E	9	1.5	-	Lovasberény
08	10:44:19.3	45.616N	17.227E	11	1.2	-	Croatia
09	4:04:00.4	47.322N	18.545E	1	0.2	-	Lovasberény
09	20:37:02.5	46.040N	17.358E	15	2.1	-	Babócsa
09	20:45:09.1	47.792N	17.593E	12	1.5	-	Győrladamér
10	9:37:55.8	47.227N	18.259E	0	1.1	-	Iszkaasztgyörgy (exp)
10	10:00:42.9	47.860N	19.132E	0	1.5	-	Szendehely (exp)
10	10:40:49.4	46.048N	17.332E	16	2.0	-	Bolhó
11	8:44:28.9	48.601N	20.788E	0	1.6	-	Slovakia (exp)
11	10:38:23.7	45.566N	17.321E	10	1.2	-	Croatia
12	8:23:13.9	48.949N	19.369E	0	1.5	-	Slovakia (exp)
13	7:58:32.3	47.442N	18.413E	0	0.8	-	Várgesztes (exp)
14	23:22:51.7	47.318N	18.149E	9	0.4	-	Balinka
15	1:49:47.4	47.319N	18.153E	10	0.7	-	Balinka
15	1:54:35.8	47.319N	18.173E	10	0.6	-	Balinka
16	2:46:48.4	47.278N	18.184E	6	0.1	-	Isztimér
16	17:44:49.8	46.071N	17.034E	16	1.6	-	Croatia
19	9:05:23.8	46.176N	18.291E	0	0.6	-	Zobákpuszta (exp)
19	11:21:27.8	47.196N	18.310E	0	0.3	-	Székesfehérvár (exp)
19	13:55:26.8	48.353N	19.857E	0	1.8	-	Slovakia (exp)
20	8:41:19.6	45.860N	18.390E	0	0.6	-	Kisharsány (exp)
20	10:41:27.0	48.551N	20.829E	0	1.5	-	Hidvégdárdó (exp)
21	6:49:12.1	47.318N	18.110E	18	0.2	-	Bakonycsernye
21	8:35:55.3	47.129N	17.943E	10	0.9	-	Kádárta
21	14:06:58.2	47.355N	18.111E	7	0.2	-	Nagyveleg
22	7:54:58.7	48.042N	19.590E	0	1.3	-	Nagylóc (exp)
23	23:35:36.0	47.975N	19.413E	9	1.2	-	Cserhátsurány
24	7:50:28.8	47.303N	18.341E	0	0.7	-	Magyaralmás (exp)
24	9:40:57.6	48.644N	20.726E	0	1.8	-	Slovakia (exp)
24	9:48:44.9	47.839N	19.095E	0	1.5	-	Szendehely (exp)
24	13:09:01.2	47.291N	18.326E	0	0.7	-	Magyaralmás (exp)



**Földrengés paraméterek**

**Hypocenter Parameters**

25	7:49:18.8	47.946N	20.042E	0	2.1	-	Bodony (exp)
25	9:30:44.5	48.603N	20.761E	0	1.4	-	Slovakia (exp)
25	10:10:07.1	47.191N	18.269E	0	0.6	-	Csór (exp)
26	9:25:15.5	47.117N	17.988E	11	1.1	-	Litér
26	11:40:07.2	45.554N	17.331E	10	1.4	-	Croatia
27	9:30:07.4	46.169N	18.295E	0	0.6	-	Zobákpuszta (exp)
28	2:59:22.7	47.089N	21.081E	25	1.8	-	Kertészsziget
28	10:40:09.4	48.568N	20.785E	0	1.5	-	Tornanádaska (exp)
28	11:47:49.6	48.294N	21.252E	10	2.0	-	Abaújalpár
30	2:21:38.2	45.993N	18.037E	13	1.0	-	Szabadszentkirály
30	3:19:57.9	47.308N	18.148E	8	0.7	-	Balinka
31	13:15:09.4	45.507N	17.347E	14	1.2	-	Croatia

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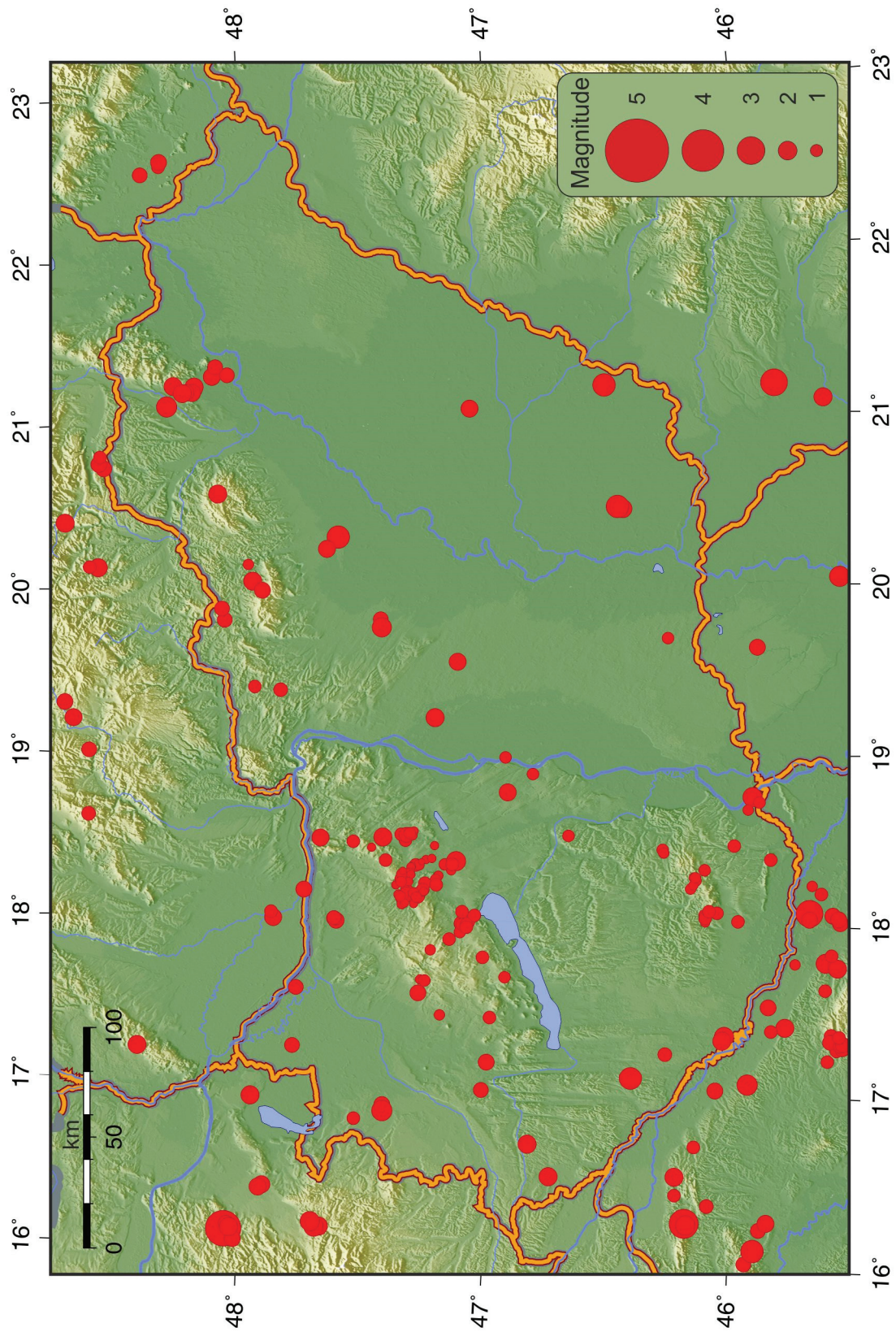
03	9:35:01.2	48.597N	20.799E	0	1.1	-	Slovakia (exp)
04	10:15:39.2	48.259N	21.208E	2	2.0	-	Abaújszántó
05	11:40:09.4	48.595N	20.811E	0	1.3	-	Slovakia (exp)
05	23:29:15.1	46.469N	20.469E	11	2.0	-	Székkutas
05	23:44:23.8	46.490N	20.483E	11	2.4	4	Székkutas
08	6:04:20.1	48.330N	22.597E	10	1.2	-	Ukraine
08	6:12:34.4	48.326N	22.627E	14	1.6	-	Ukraine
08	9:40:58.6	48.409N	19.126E	0	1.8	-	Slovakia (exp)
08	11:01:25.6	48.614N	20.786E	0	1.2	-	Slovakia (exp)
08	20:52:32.1	48.109N	19.891E	1	1.4	-	Rónafalu
09	1:56:25.7	47.493N	18.447E	0	0.0	-	Várgesztes
09	9:47:22.2	48.075N	21.312E	10	1.5	-	Taktabáj
09	21:41:43.6	47.331N	18.285E	0	0.0	-	Söréd
11	8:09:57.2	47.983N	20.056E	7	1.9	-	Mátraballa
11	18:26:16.4	47.426N	16.857E	10	2.3	-	Simaság
12	2:17:39.0	47.328N	18.520E	1	0.5	-	Lovasberény
12	7:45:14.3	47.341N	18.243E	9	0.0	-	Bodajk
12	8:14:31.9	47.339N	18.532E	0	0.8	-	Lovasberény
13	11:40:22.7	47.148N	19.563E	12	1.8	-	Mikebuda
14	0:55:24.7	47.967N	16.925E	8	2.0	-	Austria
14	10:19:42.3	48.615N	20.743E	0	1.3	-	Slovakia (exp)
14	14:15:19.9	48.599N	20.824E	2	1.0	-	Slovakia
15	8:35:03.1	47.121N	18.066E	8	1.1	-	Vilonya
15	11:20:21.1	48.551N	20.813E	0	1.7	-	Bódvalenke (exp)
16	8:43:06.7	47.121N	18.236E	0	0.6	-	Jenő (exp)
16	9:00:14.8	48.595N	20.805E	0	1.4	-	Slovakia (exp)
16	9:54:56.8	45.864N	18.401E	7	1.0	-	Kisharsány
16	12:15:58.3	46.128N	18.083E	0	0.5	-	Abaliget (exp)
17	3:48:07.2	47.393N	18.222E	2	0.0	-	Mór
17	18:01:03.1	47.375N	18.153E	5	0.6	-	Nagyveleg
18	11:11:37.4	48.631N	20.911E	0	1.6	-	Slovakia (exp)
20	20:31:41.3	45.925N	19.647E	8	1.6	-	Serbia
22	9:53:14.0	47.190N	18.314E	0	0.5	-	Székesfehérvár (exp)
23	11:48:59.0	47.213N	18.295E	0	0.6	-	Moha (exp)
23	14:03:28.4	47.944N	20.000E	10	1.6	-	Bodony
24	11:12:40.7	48.617N	20.767E	0	1.4	-	Slovakia (exp)
26	11:14:04.2	48.033N	19.608E	0	1.5	-	Nagylóc (exp)
26	18:59:38.5	47.900N	18.048E	10	1.2	-	Slovakia
27	18:39:47.7	47.007N	17.168E	10	1.7	-	Gógánfa
28	10:56:53.3	46.050N	18.075E	0	1.2	-	Bicsérd (exp)
28	22:16:20.3	47.364N	18.306E	5	-0.3	-	Csákberény
30	10:58:40.5	47.895N	19.135E	0	1.6	-	Rétság (exp)

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01	9:42:37.6	48.570N	20.814E	0	1.6	-	Tornanádaska (exp)
04	4:07:20.3	45.896N	16.112E	6	2.5	-	Croatia

**Hypocenter Parameters****Földrengés paraméterek**

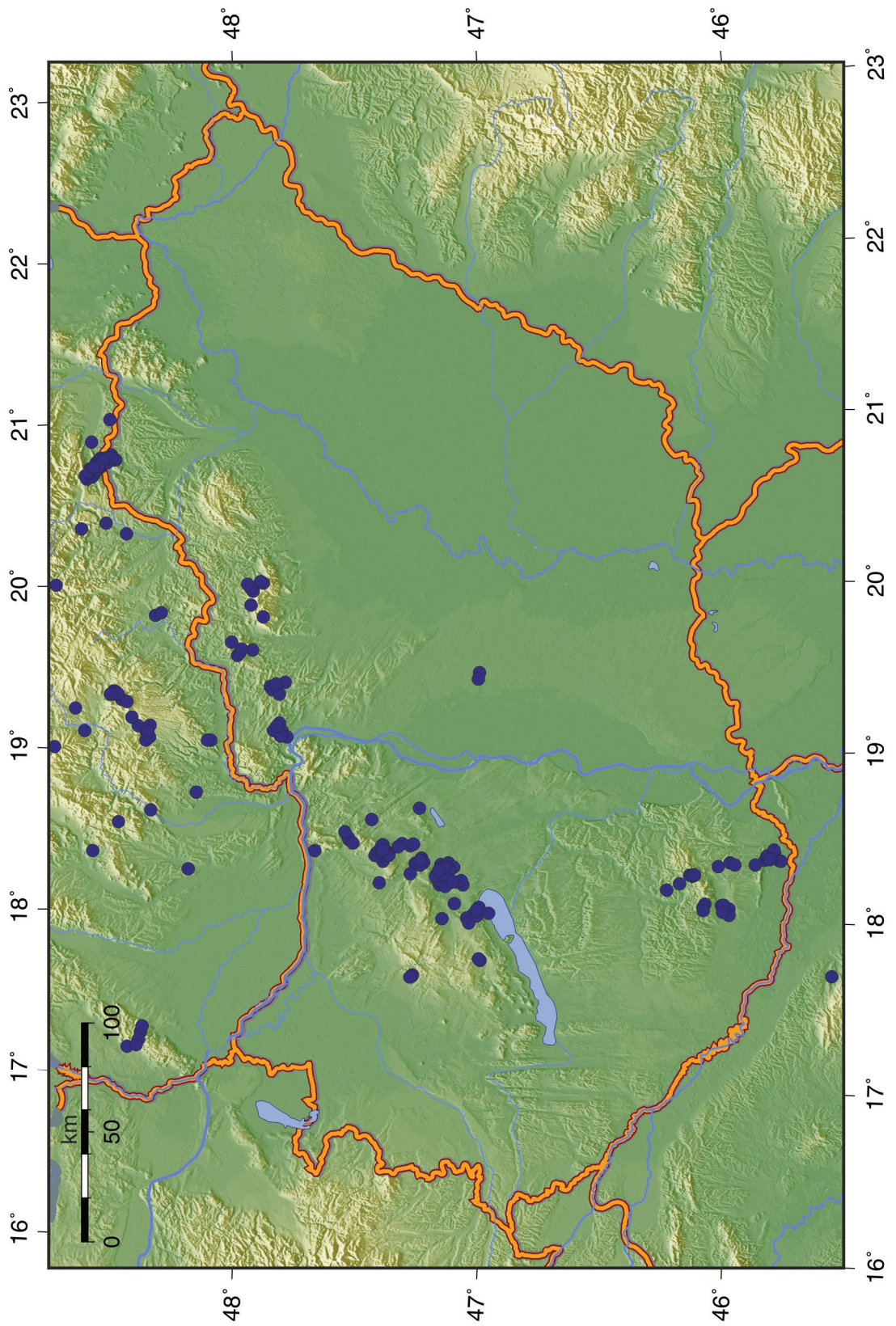
06	12:26:09.9	48.000N	20.027E	0	1.9	-	Mátraballa (exp)
10	11:04:24.8	47.982N	19.624E	0	1.4	-	Garáb (exp)
10	11:05:12.1	48.026N	19.632E	0	1.5	-	Lucfalva (exp)
10	18:49:38.6	45.701N	18.054E	12	1.6	-	Croatia
12	10:09:34.1	46.113N	18.092E	3	1.1	-	Kővágótóttós
13	7:49:57.8	47.288N	18.352E	0	1.0	-	Magyaralmás (exp)
13	18:16:23.3	47.370N	18.241E	9	0.6	-	Mór
14	10:32:43.5	47.156N	18.230E	0	1.1	-	Ősi (exp)
16	10:50:11.5	47.864N	19.100E	0	1.4	-	Szendehely (exp)
17	15:50:07.9	48.405N	22.553E	10	1.4	-	Ukraine
19	8:14:28.5	47.043N	17.770E	0	0.9	-	Tótvázsony (exp)
19	10:10:31.7	48.122N	21.363E	10	1.5	-	Tarcal
20	9:18:36.9	48.790N	19.028E	0	1.5	-	Slovakia (exp)
20	10:27:33.5	48.585N	20.800E	0	1.6	-	Slovakia (exp)
21	9:52:00.7	48.604N	20.760E	0	1.6	-	Slovakia (exp)
21	11:25:41.5	47.882N	19.159E	0	1.5	-	Nótincs (exp)
22	9:53:29.6	48.625N	20.754E	0	1.3	-	Slovakia (exp)
22	17:07:19.2	47.636N	18.011E	14	1.0	-	Bábolna
22	17:21:02.8	47.644N	18.016E	14	1.3	-	Bábolna
23	10:04:03.5	47.103N	17.996E	10	0.8	-	Litér
25	10:14:43.3	46.829N	16.686E	10	2.0	-	Németfalu
28	5:42:44.9	47.227N	18.226E	5	1.2	-	Iszkaszentgyörgy
28	10:11:49.3	48.624N	20.755E	0	1.6	-	Slovakia (exp)
29	8:49:58.7	47.103N	17.973E	10	1.1	-	Kádárta
29	13:29:42.0	47.703N	16.177E	13	2.1	-	Austria
31	20:40:15.8	47.435N	18.368E	11	1.2	-	Oroszlány



3.1. ábra A 2016-ban regisztrált földrengések epicentrumai

Figure 3.1. Epicenters of 2016 earthquakes

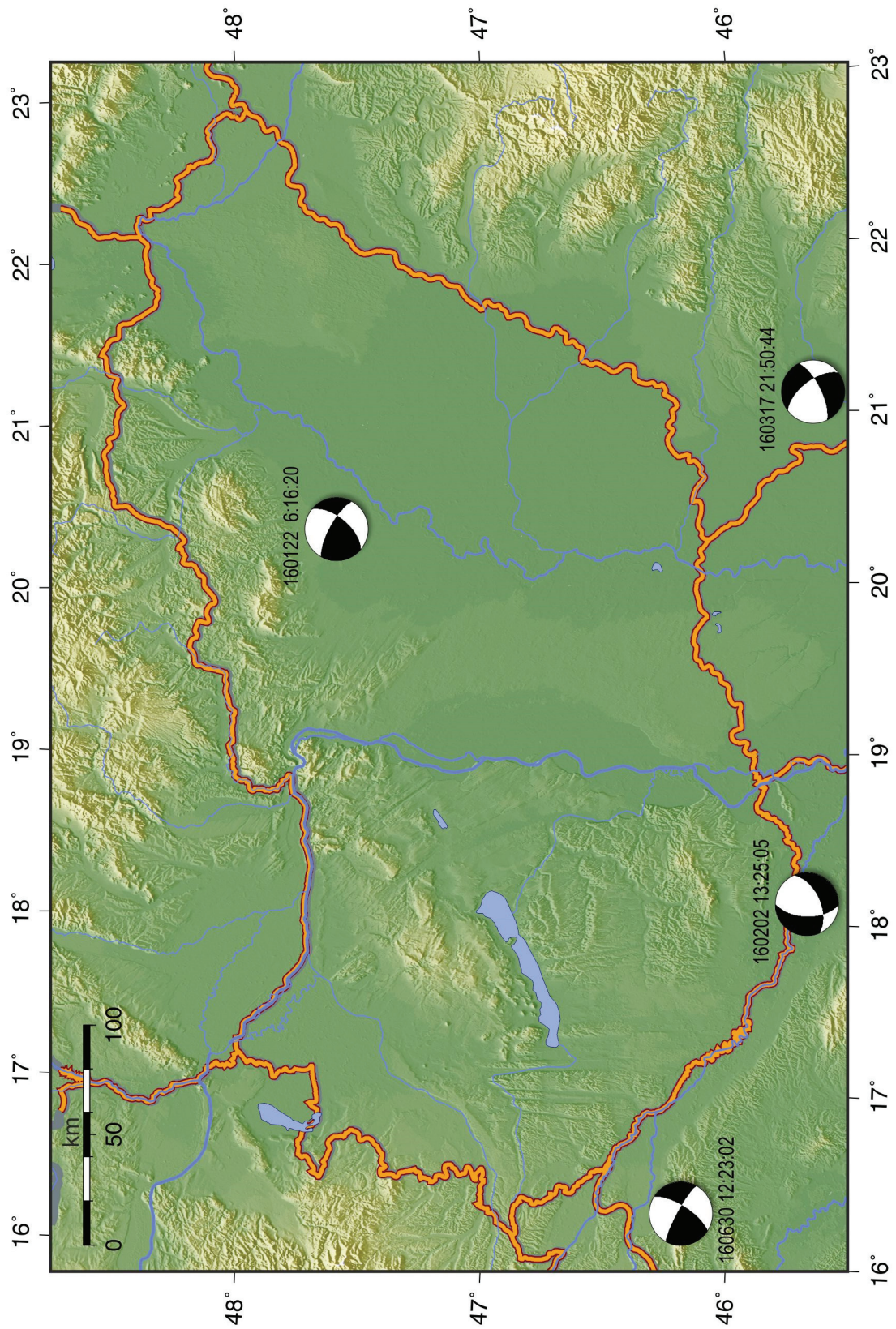




3.2. ábra A 2016-ban regisztrált robbantások epicentrumai

Figure 3.2. Epicenters of 2016 explosions









3.3. ábra A 2016-ben regisztrált földrengések fészekmechanizmusai

Figure 3.3. Fault plane solutions of 2016 earthquakes

## A 2016-ban regisztrált földrengések fészekmechanizmusai

## Fault plane solutions of 2016 earthquakes

No	Date	Time	Epicentre		1st nodal plane			P axis		T axis		
			Lat	Lon	Strike	Dip	Rake	Azim	Plunge	Azim	Plunge	
1.	2016.01.22	6:16:20	47.63	20.32	40	60	20	352	8	256	34	
2.	2016.02.02	13:25:05	45.70	18.09	65	55	-40	35	51	302	2	
3.	2016.03.17	21:50:44	45.65	21.11	65	70	-150	287	35	193	5	
4.	2016.06.30	12:23:02	46.18	16.25	30	70	10	345	7	252	21	

## FÉSZEKPARAMÉTEREK ÉS FÁZISADATOK

A listában alkalmazott jelek és rövidítések magyarázata:

time:	Az esemény kipattanásának ideje (óra:perc:másodperc; UTC).
ML:	A rengés Richter-féle lokális magnitúdója.
lat:	Az esemény földrajzi szélessége (fok).
lon:	Az esemény földrajzi hosszúsága (fok).
h:	A fészek mélysége (km).
erh:	Horizontális hiba km-ben. ( $erh = \sqrt{SDX^2 + SDY^2}$ , ahol $SDX$ és $SDY$ az epicentrum földrajzi szélességének és hosszúságának meghatározási hibái.) Ha $erh = ---$ , a kevés rendelkezésre álló adat miatt $erh$ nem volt meghatározható.
erz:	A fészekmélység meghatározásának hibája (km). $erz = ---$ azt jelzi, hogy $erz$ nem volt meghatározható a kevés rendelkezésre álló adat miatt.
nr:	A számításnál felhasznált fázisadatok száma. Azonos állomásról származó P és S beérkezések 2 adatnak számítanak.
gap:	Az állomások közötti legnagyobb irányeltérés (fok).
rms:	A számított beérkezési idők átlagnégyzetes hibája (mp). ( $rms = \sqrt{\sum R_i^2 / nr}$ , ahol $R_i$ az $i$ -edik állomás időhibája (reziduál).)
Locality:	A rengés földrajzi helyének megnevezése, általában a legközelebbi település neve.
Comments:	Az eseménnyel kapcsolatos egyéb közlemény (pl. epicentrális intenzitás).
sta:	Az állomás neve. (L. 2. fejezet.)
dist:	Az állomás távolsága az epicentrumtól (km).
azm:	Az állomás irányszöge az epicentrumtól az északi iránytól számítva (fok).
phase:	Fázis azonosító; az első betű a kezdetet jellemzi: $e$ = lassan emelkedő $i$ = hirtelen kitérő; a második és harmadik betű a fázis megnevezése pl. Pn, Pg, Sn, Sg; a negyedik a kitérési irányt jelzi: C=kompRESSzió/fel, D=dilatáció/le. A *-gal jelzett fázisok nem lettek használva a hipocentrum számításához.
hr mn sec:	A fázis beérkezési ideje (óra, perc, másodperc).
res:	Reziduál (másodperc). ( $res = T_{obs} - T_{cal}$ , ahol $T_{obs}$ a mért, és $T_{cal}$ a számított menetidő.)

Minden rengésnél, ahol elegendő számú első kitérési adat állt rendelkezésre, megkíséreltük a fészekmechanizmus meghatározását. Az ábrákon az alsó félteke sztereografikus képe látható, **P** a maximális, **T** a minimális feszültségtengely iránya. A fészekmechanizmusokat a 3.3. ábra foglalja össze.

## PHASE DATA

## Key to phase data encoding

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

Fault plane solutions were attempted for each event where any information for the stress field could be drawn. Stereographic projections of the lower focal hemisphere are shown, **P** and **T** are the main compression and tension axes respectively. Strike, dip and slip values of the nodal planes are also indicated. Calculations were carried out by computer program FPFIT (Reasenber and Oppenheimer, 1985). The results are summarized in Fig. 3.3.



## Földrengés paraméterek

## Hypocenter Parameters

1.  


---

 2016-01-04 time: 11:02:55.55 UTC ML= 1.7  
 lat: 48.653N lon: 20.685E h= 0.0 km  
 erh= 4.6km erz= 4.0km  
 nr= 7 gap=313 rms=0.44  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.0	218	ePg	11:02:59.70	-0.14
			eSg	03:03.60	0.42
IZAB	72.3	263	eSg	11:03:18.80	0.27
			ePg	11:03:13.52	0.00
PSZ	100.6	216	ePg	03:26.96	-0.58
			eSg	11:03:20.30	0.56
VYHS	137.6	263	ePn	03:37.70	-0.91
			eSn		

2.  


---

 2016-01-12 time: 9:03:26.58 UTC ML= 1.0  
 lat: 45.859N lon: 18.401E h= 0.0 km  
 erh= 1.2km erz= 186km  
 nr= 8 gap=260 rms=0.13  
 Locality: Nagyharsány  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	12.0	286	ePg	9:03:28.74	0.02
			eSg	03:30.04	-0.36
KOVH	34.6	317	ePg	9:03:32.90	0.15
			eSg	03:37.71	0.15
PKSM	43.4	25	ePg	9:03:34.36	0.04
			eSg	03:40.32	-0.04
MORH	43.9	25	ePg	9:03:34.39	-0.02
			eSg	03:40.36	-0.16

3.  


---

 2016-01-12 time: 12:52:10.92 UTC ML= 1.5  
 lat: 47.026N lon: 16.999E h= 8.3 km  
 erh= 1.9km erz= 1.8km  
 nr= 26 gap= 81 rms=0.71  
 Locality: Mikosszéplak  
 Comments:

sta	dist	azm	phase	hr mn sec	res
MPLH	44.1	69	ePg	12:52:18.44	-0.49
			eSg	52:25.06	-0.11
EGYH	50.3	30	ePg	12:52:20.25	0.23
			eSg	52:28.48	1.35
TIH	69.5	102	ePg	12:52:23.87	0.46
			eSg	52:33.26	0.11
SOP	80.4	336	eSg	12:52:34.10	-2.50
			ePg	12:52:25.50	-0.26
PKST	82.7	72	ePg	12:52:26.57	0.23
			eSg	52:38.38	0.00
KOGS	86.0	222	ePg	12:52:28.87	-0.45
			eSg	52:42.66	-1.01
PKSG	113.0	69	ePn	12:52:30.90	-0.09
			eSn	52:47.38	0.74
ARSA	114.7	283	Pn	12:52:30.71	-0.49
			Pn	12:52:33.90	0.55
CONA	132.0	319	Sn	52:50.18	-0.67
			ePn	12:52:34.28	0.67
KOVH	134.1	141	eSn	52:49.63	-1.69
			ePn	12:52:34.80	0.95
PKB4	136.0	116	ePn	12:52:35.10	-1.10
			Pn	12:52:36.77	0.57
MORH	154.9	126	Sn	52:55.10	-0.83
			Pn	12:52:44.71	3.40*
SOKA	154.9	256	Sn	53:06.18	1.17
			ePn	12:52:44.80	1.27
OBKA	195.8	253	Sn	12:53:11.09	-0.54
			ePn		
VYHS	213.6	40			
			Sn		
MOA	225.6	294			

4.  


---

 2016-01-14 time: 12:13:21.32 UTC ML= 1.7  
 lat: 45.502N lon: 18.005E h= 6.5 km  
 erh= 4.1km erz= 2.8km  
 nr= 12 gap=276 rms=0.46  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	47.1	24	ePg	12:13:30.24	0.43
			eSg	13:35.83	-0.60
KOVH	65.6	6	ePg	12:13:33.14	0.05
			eSg	13:42.01	-0.26
PKSM	93.1	32	ePg	12:13:37.82	-0.17
			eSg	13:50.95	-0.04
MORH	93.6	32	ePg	12:13:37.87	-0.21
			eSg	13:51.13	-0.01
PKS9	122.4	10	ePn	12:13:43.46	0.66
			eSn	14:00.80	1.26
KOGS	171.9	308	ePn	12:13:48.00	-0.96
			eSn	14:10.31	-0.21

5.  


---

 2016-01-15 time: 10:01:03.65 UTC ML= 1.9  
 lat: 48.434N lon: 17.214E h= 1.2 km  
 erh= 2.7km erz= 2.4km  
 nr= 26 gap=167 rms=0.92  
 Locality: Slovakia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
MODS	8.2	145	ePg	10:01:05.30	0.18
			eSg	01:06.90	0.63
SMOL	18.2	61	ePg	10:01:06.70	-0.20
			eSg	01:10.50	1.06
ZST	27.7	197	ePg	10:01:08.20	-0.40
			eSg	01:12.10	-0.36
SOP	96.7	210	ePg	10:01:22.25	1.33
			eSg	01:33.13	-1.26
EGYH	113.4	176	ePg	10:01:24.43	0.54
			eSg	01:39.73	0.04
CONA	115.2	241	Pg	10:01:23.82	-0.40
			Sg	01:38.84	-1.43
VYHS	120.1	87	ePg	10:01:24.20	-0.90
			eSg	01:40.20	-1.64
CSKK	142.4	147	ePn	10:01:30.63	2.35
			eSn	01:45.95	-1.55
MPLH	142.6	170	ePn	10:01:29.19	0.89
			ePn	10:01:27.69	-0.83
PKST	144.3	155	eSn	01:45.84	-2.08
			ePn	10:01:28.39	-0.27
PKSG	145.4	143	ePn	01:47.86	-0.31
			Pn	10:01:33.84	0.55
ARSA	182.6	224	Sn	01:57.31	0.90
			Pn	10:01:39.91	0.85
MOA	228.8	254	Sn	02:06.89	0.22
			ePn	10:01:43.19	-0.90
MORH	269.2	156	eSn	02:12.09	-3.55*

6.  


---

 2016-01-15 time: 10:42:12.18 UTC ML= 1.1  
 lat: 47.569N lon: 18.479E h= 3.3 km  
 erh= 8.2km erz=49.0km  
 nr= 8 gap=184 rms=0.60  
 Locality: Tatabánya  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	20.8	199	ePg	10:42:15.21	-0.73
			eSg	42:19.25	0.38
CSKK	28.2	216	ePg	10:42:17.00	-0.25
			eSg	42:20.99	-0.21

## Hypocenter Parameters

PKST 48.1 224 eSg 10:42:27.77 0.27  
 MPLH 83.7 238 eSg 10:42:38.88 0.08  
 VYHS 106.3 15 ePg 10:42:32.40 1.23  
 eSg 42:45.40 -0.58

7.

2016-01-15 time: 11:03:03.98 UTC ML= 1.8  
 lat: 47.702N lon: 18.502E h= 12.6 km  
 erh= 1.3km erz= 1.1km  
 nr= 22 gap= 78 rms=0.54  
 Locality: Lábatlan  
 Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	18.8	311	ePg	11:03:07.90	-0.11
			eSg	03:11.80	0.64
PKSG	35.5	194	ePg	11:03:11.13	0.43
			eSg	03:16.72	0.77
CSKK	41.8	206	ePg	11:03:11.38	-0.40
			eSg	03:17.09	-0.77
BUD	46.2	122	eSg	11:03:18.22	-0.97
PENC	59.3	80	ePg	11:03:15.21	0.40
			eSg	03:23.56	0.31
PKST	60.6	216	ePg	11:03:14.09	-0.93
			eSg	03:24.85	1.21
VYHS	91.5	16	eP*	11:03:20.60	0.13
			eS*	03:32.60	-0.73
MPLH	93.6	231	eS*	11:03:33.70	-0.20
PSZ	107.1	77	ePn	11:03:23.03	0.27
			eSn	03:36.08	-1.32
MODS	118.0	309	ePn	11:03:24.40	0.29
			eSn	03:39.90	0.08
MORH	165.6	176	ePnD	11:03:30.56	0.51
			eSn	03:49.86	-0.53
PKSM	166.0	176	ePn	11:03:30.48	0.37
			eSn	03:49.95	-0.53

8.

2016-01-18 time: 10:53:50.36 UTC ML= 1.3  
 lat: 47.867N lon: 19.103E h= 0.0 km  
 erh= 4.0km erz= 593km  
 nr= 6 gap=222 rms=0.38  
 Locality: Szendehely  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	15.9	122	ePg	10:53:52.92	-0.27
			eSg	53:55.47	0.07
PSZ	59.5	84	ePg	10:54:01.34	0.35
			eSg	54:08.67	-0.61
VYHS	72.5	344	ePg	10:54:03.80	0.48
			eSg	54:13.10	-0.32

9.

2016-01-21 time: 5:37:45.39 UTC ML= 1.9  
 lat: 45.793N lon: 17.419E h= 12.9 km  
 erh= 6.9km erz= 3.0km  
 nr= 12 gap=228 rms=0.66  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	62.2	58	ePgD	5:37:56.66	-0.08
			eSg	38:04.76	-0.82
PKSV	65.6	81	ePg	5:37:57.24	-0.09
			eSg	38:07.74	1.09
PKSM	105.5	64	ePnD	5:38:03.74	-0.19
			eSn	38:17.01	-1.39
MORH	105.9	64	ePn	5:38:03.66	-0.32
			eSn	38:16.19	-2.29
PKS9	110.5	37	ePn	5:38:05.67	1.12
			eSn	38:20.77	1.28

## Földrengés paraméterek

KOGS 116.0 309 ePn 5:38:05.42 0.18  
 eSn 38:19.94 -0.78

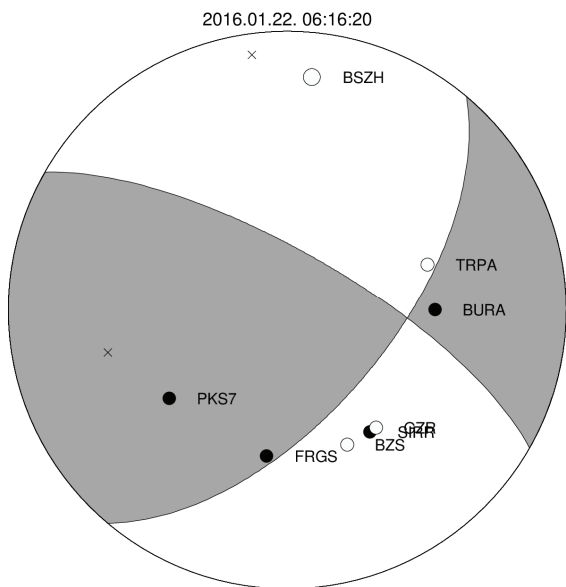
10.

2016-01-22 time: 6:16:20.91 UTC ML= 2.4  
 lat: 47.632N lon: 20.318E h= 11.4 km  
 erh= 2.3km erz= 1.9km  
 nr= 34 gap= 74 rms=1.07  
 Locality: Tenk  
 Comments: felt 4 EMS

sta	dist	azm	phase	hr mn sec	res
BSZH	37.2	186	ePgD	6:16:28.58	0.73
			eSg	16:30.71	-2.56
PSZ	44.9	315	ePg	6:16:29.17	-0.01
			eSg	16:34.34	-1.29
PENC	79.7	283	ePg	6:16:35.24	-0.05
			eSg	16:46.06	-0.45
PKSN	88.6	203	ePg	6:16:37.61	0.76
			eSg	16:49.90	0.61
DBSH	90.0	237	eSg	6:16:49.85	0.11
KECS	95.4	8	ePg	6:16:38.60	0.54
			eSg	16:50.20	-1.25
BUD	98.8	260	eS*	6:16:50.70	-1.74
PKS7	109.0	233	ePnC	6:16:40.16	0.08
			eSn	16:53.67	-1.36
IZAB	113.5	337	ePn	6:16:40.50	-0.13
			eSn	16:54.10	-1.92
VYHS	146.2	311	ePn	6:16:44.80	0.08
			eSn	17:03.80	0.51
PKSG	147.6	260	eSn	6:17:02.94	-0.67
CSKK	157.9	259	eSn	6:17:06.42	0.53
CRVS	164.7	31	ePn	6:16:47.70	0.67
			eSn	17:07.10	-0.30
TRPA	175.1	72	PnD	6:16:48.29	-0.03
			Sn	17:11.10	1.39
LANS	180.2	340	ePn	6:16:51.80	2.85
			eSn	17:12.90	2.07
SIRR	182.9	146	PnC	6:16:47.44	-1.85
TIH	200.8	246	ePn	6:16:54.51	2.99
			eSn	17:20.22	4.81*
MORH	202.6	219	ePn	6:16:50.55	-1.20
PKSM	203.1	219	ePn	6:16:50.64	-1.17
EGYH	226.2	264	eSn	6:17:21.40	0.36
BZS	245.2	156	PnD	6:16:55.45	-1.61
			Sn	17:22.90	-2.36
FRGS	280.3	188	PnC	6:16:57.53	-3.91
GZR	312.3	143	PnD	6:17:03.09	-2.34*
			Sn	17:38.00	-2.16*
BURA	368.2	90	PnC	6:17:11.27	-1.13*
KRLC	375.7	316	ePn	6:17:14.00	0.67*
DPC	420.6	316	ePn	6:17:19.60	0.67*

## Földrengés paraméterek

## Hypocenter Parameters



11.

2016-01-24 time: 22:18:54.95 UTC ML= 1.9  
 lat: 48.613N lon: 20.146E h= 10.0 km  
 erh= 3.7km erz= 4.2km  
 nr= 16 gap=111 rms=1.37  
 Locality: Slovakia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	28.9	120	eSg	22:19:04.40	-0.28
IZAB	32.3	261	eSg	22:19:05.20	-0.50
LANS	77.8	320	ePg	22:19:08.90	-0.05
			eSg	19:19.10	-0.77
PSZ	79.4	194	ePg	22:19:09.87	0.63
			eSg	19:20.30	-0.09
VYHS	97.6	262	ePg	22:19:13.10	0.64
			eSg	19:25.90	-0.22
CRVS	102.0	72	ePg	22:19:13.70	0.46
			eSg	19:25.20	-2.31
PENC	111.7	215	eSn	22:19:25.63	-4.36
TRPA	185.3	107	ePn	22:19:24.50	0.70
			eSn	19:46.13	-0.18
LTVH	189.2	136	PnD	22:19:29.17	4.88
MORC	229.7	304	Sn	22:19:55.60	-0.57
DRGR	279.4	136	PnC	22:19:38.28	2.74

12.

2016-01-24 time: 22:24:27.11 UTC ML= 1.1  
 lat: 48.648N lon: 20.149E h= 0.4 km  
 erh= 1.9km erz= 194km  
 nr= 11 gap=115 rms=0.53  
 Locality: Slovakia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	30.8	126	ePg	22:24:32.90	0.28
			eSg	24:36.50	-0.41
IZAB	33.4	255	eSg	22:24:37.70	-0.03
LANS	75.0	318	ePg	22:24:40.80	0.29
			eSg	24:50.20	-0.75
PSZ	83.3	193	ePg	22:24:42.05	0.07
			eSg	24:52.35	-1.23
VYHS	98.4	260	ePg	22:24:44.90	0.21
			eSg	24:56.60	-1.80
CRVS	100.5	74	ePg	22:24:45.50	0.44
			eSg	24:57.50	-1.56

13.

2016-01-28 time: 9:46:17.65 UTC ML= 0.5  
 lat: 46.174N lon: 18.285E h= 0.0 km  
 erh= 1.5km erz= 290km  
 nr= 8 gap=204 rms=0.21  
 Locality: Zobákpuszta  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.2	236	ePgC	9:46:20.55	-0.16
			eSg	46:23.40	0.30
PKSM	27.8	81	ePg	9:46:22.52	-0.10
			eSg	46:27.13	0.63
MORH	28.1	80	ePgC	9:46:22.60	-0.07
			eSg	46:26.36	-0.23
PKSV	31.8	185	ePg	9:46:23.50	0.18
			eSg	46:27.70	-0.05

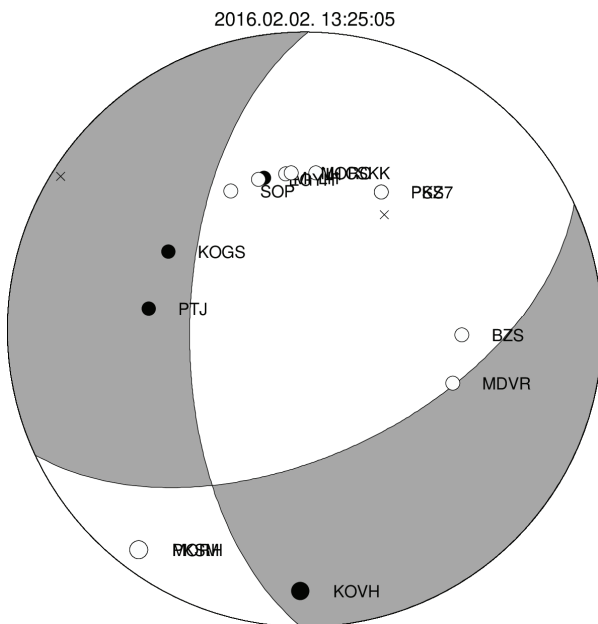
14.

2016-02-02 time: 13:25:05.94 UTC ML= 2.9  
 lat: 45.701N lon: 18.093E h= 10.0 km  
 erh= 4.5km erz= 2.6km  
 nr= 45 gap=184 rms=1.25  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	24.2	31	ePg	13:25:10.66	0.04
			eSg	25:14.31	0.04
KOVH	43.0	1	ePgC	13:25:14.49	0.66
			eSg	25:20.55	0.57
PKSM	70.9	37	ePgD	13:25:17.91	-0.82
			eSg	25:26.75	-1.96
MORH	71.4	37	ePgD	13:25:18.00	-0.82
			eSg	25:26.86	-2.00
PKS9	99.5	8	ePg	13:25:24.09	0.29
			eSg	25:38.91	1.18
PKS2	123.4	45	ePn	13:25:26.75	-0.34
			eSn	25:44.11	0.53
TIH	134.1	353	ePnD	13:25:27.65	-0.77
			eSn	25:43.82	-2.14
KOGS	164.9	300	ePnC	13:25:32.21	-0.05
			eSn	25:56.68	3.89
PTJ	167.4	278	ePnC	13:25:32.01	-0.56
			eSn	25:51.68	-1.66
MPLH	168.7	345	ePnC	13:25:33.63	0.90
PKS7	170.7	29	ePnD	13:25:38.17	5.19
			eSn	25:58.32	4.24
CSKK	185.2	4	ePnD	13:25:35.17	0.38
PKSG	189.3	7	eSn	13:25:56.12	-2.08
PKSN	190.7	46	ePn	13:25:38.36	2.88
GCIS	192.6	275	iPn	13:25:35.17	-0.54
GOLS	194.7	280	iPn	13:25:35.95	-0.03
EGYH	199.5	343	ePnD	13:25:37.87	1.30
BUD	210.6	20	eSn	13:26:08.34	5.41
AMBH	216.3	71	ePn	13:25:43.30	4.63
GROS	217.5	293	iPn	13:25:38.55	-0.26
			eSn	26:02.64	-1.81
SRO	235.4	4	ePn	13:25:42.20	1.15
PENC	249.4	21	eSn	13:26:21.52	9.98*
SOP	249.6	332	ePnD	13:25:40.39	-2.43
PERS	252.2	294	iPn	13:25:42.90	-0.25
SOKA	260.0	295	Pn	13:25:43.82	-0.29
			Sn	26:12.21	-1.68
ARSA	261.9	311	Pn	13:25:44.85	0.50
BZS	274.8	92	PnD	13:25:48.37	2.40
			Sn	26:21.40	4.21
PSZ	282.2	29	PnD	13:25:46.90	0.01
			Sn	26:21.20	2.37
ZST	287.4	345	ePn	13:25:48.20	0.67
			eSn	26:17.90	-2.08*
OBKA	288.3	288	Pn	13:25:47.96	0.31
			Sn	26:20.00	-0.18

## Hypocenter Parameters

CONA	300.5	325	Pn	13:25:49.78	0.62*
			Sn	26:25.01	2.14*
MDVR	302.1	110	PnD	13:25:51.79	2.43*
			Sn	26:28.00	4.77*
MODS	303.5	348	ePn	13:25:51.50	1.96*
			eSn	26:23.10	-0.44*
VYHS	315.6	10	ePn	13:25:51.20	0.16*
			eSn	26:23.90	-2.32*
SMOL	316.7	351	ePn	13:25:51.50	0.31*
			eSn	26:24.70	-1.78*
MOA	377.4	309	Pn	13:25:59.91	1.15*
			Sn	26:42.10	2.15*
KBA	396.0	293	Pn	13:26:04.25	3.18*
			Sn	26:44.11	0.04*
MORC	455.0	355	PnD	13:26:08.59	0.16*
KRLC	496.1	349	ePn	13:26:14.50	0.94*
			eSn	27:05.50	-0.80*
KHC	511.3	318	ePn	13:26:16.50	1.05*
			eSn	27:08.30	-1.37*
DPC	533.5	346	ePn	13:26:18.70	0.48*
			eSn	27:13.10	-1.50*



15.

2016-02-03 time: 9:23:16.91 UTC ML= 1.7  
 lat: 45.533N lon: 18.048E h= 2.3 km  
 erh= 4.8km erz= 4.7km  
 nr= 13 gap=275 rms=0.55  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKSV	42.6	22	ePgC	9:23:26.36			1.83
			eSg	23:30.36			-0.12
KOVH	61.9	4	ePgC	9:23:27.64			-0.33
			eSg	23:36.37			-0.23
PKSM	88.4	31	ePgC	9:23:32.17			-0.54
			eSg	23:45.27			0.24
MORH	88.9	31	ePgC	9:23:32.65			-0.15
			eSg	23:45.49			0.30
PKS9	118.5	9	ePg	9:23:37.91			-0.17
			eSg	23:55.81			1.21
BEHE	143.4	317	eSn	9:24:00.77			0.03
KOGS	172.5	306	ePn	9:23:46.06			0.90
			eSn	24:06.49			-0.70

## Földrengés paraméterek

16.

2016-02-05 time: 8:24:19.86 UTC ML= 1.0  
 lat: 46.028N lon: 18.070E h= 0.0 km  
 erh= 6.1km erz= \*\*\*km  
 nr= 8 gap=237 rms=0.88  
 Locality: Bicsérd  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSV	21.0	138	ePg	8:24:23.72			0.12
			eSg	24:24.88			-1.64
PKSM	48.7	65	ePg	8:24:29.36			0.81
			eSg	24:35.27			-0.06
MORH	49.1	65	ePg	8:24:29.41			0.79
			eSg	24:34.84			-0.61
PKS9	64.2	15	ePg	8:24:31.95			0.63
			eSg	24:38.66			-1.61

17.

2016-02-05 time: 10:00:57.07 UTC ML= 2.2  
 lat: 48.472N lon: 17.182E h= 0.0 km  
 erh= 3.6km erz= 4.4km  
 nr= 14 gap=183 rms=0.87  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
MODS	13.0	147	ePg	10:01:00.50			1.11
			eSg	01:02.20			0.99
SMOL	18.8	76	ePg	10:01:00.40			-0.03
			eSg	01:04.00			0.94
ZST	31.2	191	ePg	10:01:02.10			-0.55
			eSg	01:06.00			-0.99
CONA	115.3	238	Pg	10:01:17.57			-0.09
			Sg	01:33.22			-0.49
VYHS	122.3	89	ePg	10:01:17.60			-1.32
			eSg	01:34.40			-1.55
ARSA	184.0	222	Pn	10:01:27.68			0.63
			Sn	01:50.49			0.06
MOA	227.7	252	Pn	10:01:33.93			1.43
			Sn	02:02.84			2.71

18.

2016-02-11 time: 10:07:09.52 UTC ML= 0.7  
 lat: 46.071N lon: 18.344E h= 0.0 km  
 erh= 3.3km erz= 187km  
 nr= 6 gap=220 rms=0.11  
 Locality: Bogád  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	19.0	276	ePg	10:07:12.79			-0.12
			eSg	07:15.67			0.12
PKSM	27.8	56	ePg	10:07:14.67			0.17
			eSg	07:18.34			-0.03
MORH	28.3	55	ePg	10:07:14.52			-0.05
			eSg	07:18.45			-0.06

19.

2016-02-11 time: 11:12:11.56 UTC ML= 1.4  
 lat: 47.121N lon: 17.997E h= 10.0 km  
 erh= 2.6km erz= 2.3km  
 nr= 12 gap=109 rms=0.61  
 Locality: Sólly  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
TIH	25.8	198	ePg	11:12:15.97			-0.53
			eSg	12:20.57			0.21
CSKK	33.5	37	ePg	11:12:18.33			0.53

## Földrengés paraméterek

## Hypocenter Parameters

MPLH 35.1 279 eSg 12:22.48 -0.19  
 ePg 11:12:18.41 0.33  
 eSg 12:23.60 0.43  
 PKSG 42.4 45 ePg 11:12:18.82 -0.51  
 MORH 112.1 154 ePn 11:12:31.71 0.41  
 eSn 12:46.20 -0.49  
 KOVH 115.1 176 ePn 11:12:32.51 0.85  
 eSn 12:47.10 -0.24  
 SOP 125.3 300 ePn 11:12:31.67 -1.27

KECS 90.8 109 eSg 34:30.80 -0.64  
 ePg 21:34:32.80 -0.23  
 eSg 34:42.90 -2.77  
 PSZ 101.6 155 ePgc 21:34:35.03 0.06  
 eSg 34:47.97 -1.15  
 OKC 148.2 325 ePn 21:34:42.70 0.57  
 eSn 34:59.30 -2.57  
 CRVS 158.0 84 ePn 21:34:44.50 1.15

20.

2016-02-12 time: 3:42:56.23 UTC ML= 1.5  
 lat: 47.460N lon: 19.822E h= 10.0 km  
 erh= 2.4km erz= 2.2km  
 nr= 17 gap=112 rms=0.74  
 Locality: Jászberény  
 Comments:

sta	dist	azm	phase	hr mn sec	res
BSZH	38.1	118	ePgc	3:43:02.89	-0.36
DBSH	48.4	231	eSg	3:43:12.66	0.72
PSZ	51.3	6	ePg	3:43:05.69	0.14
			eSg	43:12.88	0.05
PENC	54.8	312	ePg	3:43:06.59	0.43
			eSg	43:14.08	0.16
PKSN	62.7	177	ePg	3:43:07.58	0.02
			eSg	43:14.63	-1.76
PKS7	67.9	227	ePg	3:43:07.80	-0.68
PKSG	108.2	266	ePn	3:43:15.08	-0.40
			eSn	43:28.58	-1.91
CSKK	118.3	265	eSn	3:43:31.58	-1.15
PKS9	152.2	230	eSn	3:43:41.13	0.87
MORH	164.9	213	ePn	3:43:23.71	1.17
			eSn	43:42.45	-0.62
PKSM	165.4	213	ePn	3:43:24.04	1.44
			eSn	43:43.06	-0.12

21.

2016-02-12 time: 11:09:27.89 UTC ML= 1.6  
 lat: 48.578N lon: 20.411E h= 0.0 km  
 erh= 1.7km erz= 530km  
 nr= 11 gap=112 rms=0.43  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	11.9	152	ePg	11:09:29.90	-0.11
			eSg	09:31.40	-0.27
IZAB	51.5	269	ePg	11:09:37.60	0.51
			eSg	09:43.90	-0.37
PSZ	82.8	208	ePg	11:09:42.39	-0.28
			eSg	09:53.67	-0.52
CRVS	85.3	65	ePg	11:09:43.20	0.08
LANS	94.0	313	ePg	11:09:44.90	0.22
			eSg	09:56.10	-1.68
VYHS	116.7	265	ePg	11:09:49.10	0.38
			eSg	10:02.40	-2.57*

22.

2016-02-13 time: 21:34:16.82 UTC ML= 1.7  
 lat: 48.749N lon: 19.322E h= 1.6 km  
 erh= 2.2km erz= 3.9km  
 nr= 13 gap= 93 rms=0.65  
 Locality: Slovakia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
IZAB	35.1	125	ePg	21:34:23.40	0.31
			eSg	34:27.80	-0.17
VYHS	45.6	232	ePg	21:34:25.10	0.13
			eSg	34:29.90	-1.43
LANS	46.0	13	ePg	21:34:25.00	-0.03

23.

2016-02-15 time: 10:30:42.02 UTC ML= 1.5  
 lat: 48.558N lon: 20.798E h= 0.0 km  
 erh= 4.2km erz= 4.3km  
 nr= 7 gap=171 rms=0.58  
 Locality: Tornanádaska  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.5	250	ePg	10:30:46.50	0.11
			eSg	30:50.50	0.70
CRVS	62.1	52	ePg	10:30:53.40	0.29
			eSg	31:01.00	-0.75
PSZ	97.7	223	ePg	10:30:59.75	0.27
			eSg	31:12.85	-0.24
VYHS	145.1	267	eSn	10:31:24.90	-1.84

24.

2016-02-16 time: 6:15:18.46 UTC ML= 1.9  
 lat: 46.226N lon: 16.524E h= 9.1 km  
 erh= 1.7km erz= 1.2km  
 nr= 26 gap=140 rms=0.57  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOGS	32.5	320	iPg	6:15:24.59	0.10
			iSg	15:28.89	-0.30
BEHE	33.4	35	ePg	6:15:24.79	0.15
			eSg	15:28.88	-0.59
PTJ	56.8	230	ePg	6:15:28.69	-0.05
			eSg	15:34.81	-1.94
GCIS	80.0	240	iPg	6:15:33.01	0.17
DOBS	81.9	264	iPg	6:15:33.09	-0.08
CESS	86.7	251	iPg	6:15:34.13	0.11
CRES	93.8	242	ePg	6:15:35.31	0.02
LEGS	98.2	252	iPg	6:15:35.85	-0.23
			eSg	15:49.23	-0.59
PERS	117.4	293	iPn	6:15:39.30	0.34
			iSn	15:54.67	-0.28
SOKA	125.1	294	Pn	6:15:39.93	0.00
			Sn	15:55.88	-0.79
TIH	129.0	54	eSn	6:15:56.93	-0.60
MPLH	130.6	36	ePn	6:15:42.20	1.59
			eSn	15:58.00	0.11
ARSA	137.2	326	Pn	6:15:41.62	0.18
			Sn	15:58.42	-0.94
OBKA	155.2	282	Pn	6:15:45.67	1.99
			Sn	16:04.44	1.09
PKSM	163.4	91	ePn	6:15:44.79	0.09
			eSn	16:02.85	-2.32
MORH	163.6	90	ePn	6:15:44.01	-0.72
			eSn	16:01.62	-3.59*

25.

2016-02-16 time: 8:49:34.33 UTC ML= 0.7  
 lat: 45.871N lon: 18.410E h= 0.0 km  
 erh= 1.8km erz= 169km  
 nr= 6 gap=254 rms=0.10  
 Locality: Villánykövesd  
 Comments: probably explosion

## Hypocenter Parameters

## Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
PKSV	12.4	279	ePg	8:49:36.39	-0.15
			eSg	49:38.43	0.16
PKSM	41.9	25	ePgC	8:49:41.84	0.03
			eSg	49:47.62	-0.03
MORH	42.4	25	ePgC	8:49:41.97	0.07
			eSg	49:47.71	-0.10

26.

2016-02-17 time: 11:57:16.04 UTC ML= 1.6  
 lat: 47.860N lon: 19.120E h= 0.0 km  
 erh= 3.1km erz= 5.6km  
 nr= 9 gap=106 rms=0.74  
 Locality: Szendehely  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	14.3	122	ePg	11:57:18.36	-0.24
			eSg	57:20.96	0.36
PSZ	58.3	84	ePg	11:57:26.24	-0.21
			eSg	57:34.45	-0.12
VYHS	73.6	343	ePg	11:57:31.10	1.91
			eSg	57:38.30	-1.14
PKSG	75.6	227	eSg	11:57:40.00	-0.06
MPLH	141.6	237	ePn	11:57:40.36	-0.37
			eSn	58:00.06	0.07

27.

2016-02-17 time: 12:41:10.74 UTC ML= 1.2  
 lat: 45.580N lon: 17.294E h= 12.0 km  
 erh= 2.9km erz= 0.8km  
 nr= 8 gap=343 rms=0.15  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	82.1	65	ePg	12:41:25.35	-0.20
			eSg	41:37.20	0.09
KOVH	84.4	48	ePg	12:41:25.98	0.03
			eSg	41:37.88	0.06
PKSM	126.0	56	ePn	12:41:32.09	0.14
			eSn	41:48.55	0.06
MORH	126.4	56	ePn	12:41:32.05	0.05
			eSn	41:48.12	-0.46
KBA	346.7	299	Pn	12:41:59.46	-0.01*
ABTA	391.5	289	Pn	12:42:03.44	-1.61*

28.

2016-02-17 time: 13:14:55.89 UTC ML= 1.7  
 lat: 48.632N lon: 20.704E h= 0.0 km  
 erh= 2.1km erz= 3.2km  
 nr= 10 gap=155 rms=0.50  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.1	224	ePg	13:14:59.90	-0.11
			eSg	15:04.00	0.77
CRVS	63.3	62	ePg	13:15:07.00	-0.19
IZAB	73.4	265	eSg	13:15:19.10	-0.14
			ePg	13:15:13.75	0.09
PSZ	99.5	217	eSg	15:26.66	-0.87
			ePg	13:15:15.80	0.73
LANS	107.4	302	eSg	15:29.90	-0.14
			ePn	13:15:20.50	0.28
VYHS	138.7	264	eSn	15:38.10	-1.10

29.

2016-02-18 time: 9:21:19.87 UTC ML= 1.7  
 lat: 48.659N lon: 20.703E h= 0.0 km  
 erh= 4.3km erz= 5.1km  
 nr= 10 gap=162 rms=0.74  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.3	219	ePg	9:21:23.90	-0.49
			eSg	21:28.20	0.28
CRVS	61.9	64	ePg	9:21:30.80	-0.13
			eSg	21:38.60	-0.96
IZAB	73.7	262	ePg	9:21:33.90	0.86
			eSg	21:43.10	-0.21
PSZ	101.9	216	ePg	9:21:38.90	0.83
			eSg	21:51.55	-0.72
VYHS	139.0	262	ePn	9:21:45.10	0.86
			eSn	22:01.70	-1.54

30.

2016-02-18 time: 12:45:58.17 UTC ML= 1.3  
 lat: 48.152N lon: 19.074E h= 0.0 km  
 erh= 2.7km erz= 562km  
 nr= 8 gap=222 rms=0.42  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	41.9	335	ePg	12:46:05.60	-0.05
			eSg	46:11.40	-0.09
IZAB	66.3	46	ePg	12:46:10.60	0.60
			eSg	46:19.60	0.37
PSZ	66.5	113	ePg	12:46:09.46	-0.58
			eSg	46:19.43	0.13
KECS	111.0	71	ePg	12:46:18.20	0.21
			eSg	46:32.70	-0.75

31.

2016-02-19 time: 9:26:08.24 UTC ML= 0.6  
 lat: 46.174N lon: 18.292E h= 8.0 km  
 erh= 1.0km erz= 3.0km  
 nr= 7 gap=203 rms=0.12  
 Locality: Zobákpusztá  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	17.6	237	ePg	9:26:11.58	-0.11
			eSg	26:14.45	0.06
PKSM	27.3	81	ePg	9:26:13.21	-0.11
			eSg	26:17.32	0.03
MORH	27.6	80	ePgD	9:26:13.56	0.19
			eSg	26:17.27	-0.11
PKSV	31.9	185	eSg	9:26:18.70	0.01

32.

2016-02-19 time: 12:39:00.13 UTC ML= 1.5  
 lat: 48.165N lon: 19.072E h= 0.0 km  
 erh= 5.3km erz= 7.8km  
 nr= 9 gap=120 rms=0.81  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	40.5	334	ePg	12:39:07.30	-0.06
			eSg	39:13.00	0.00
PENC	44.5	159	ePg	12:39:08.43	0.35
			eSg	39:13.64	-0.64
PSZ	67.2	114	ePg	12:39:12.68	0.55
			eSg	39:20.82	-0.67

## Földrengés paraméterek

LANS 113.4 15 ePg 12:39:20.00 -0.37  
 MODS 135.2 280 ePn 12:39:25.80 1.78  
 eSn 39:40.80 -1.86

33.

2016-02-23 time: 10:14:43.15 UTC ML= 1.6  
 lat: 48.623N lon: 20.729E h= 0.0 km  
 erh= 3.3km erz= 4.2km  
 nr= 9 gap=158 rms=0.46  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.7	229	ePg	10:14:47.40	0.01
			eSg	14:51.40	0.70
CRVS	62.2	60	ePg	10:14:54.50	0.25
			eSg	15:02.70	-0.21
IZAB	75.2	265	eSg	10:15:06.60	-0.46
PSZ	99.9	218	ePg	10:15:01.19	0.20
			eSg	15:14.26	-0.64
VYHS	140.5	264	ePn	10:15:08.00	0.30
			eSn	15:25.10	-1.75

34.

2016-02-23 time: 16:41:31.31 UTC ML= 1.5  
 lat: 47.643N lon: 18.014E h= 11.3 km  
 erh= 1.5km erz= 1.6km  
 nr= 25 gap= 81 rms=0.67  
 Locality: Bábolna  
 Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	29.4	50	ePg	16:41:37.40	0.46
			eSg	41:41.90	0.57
CSKK	36.2	149	ePg	16:41:38.05	-0.04
			eSg	41:42.80	-0.57
PKSG	39.8	134	ePg	16:41:38.66	-0.04
			eSg	41:44.43	-0.03
PKST	42.7	178	ePg	16:41:38.34	-0.86
			eSg	41:45.15	-0.20
EGYH	57.1	244	eSg	16:41:49.90	0.07
MPLH	63.6	214	ePg	16:41:43.05	0.21
			eSg	41:52.80	0.96
TIH	83.1	186	ePg	16:41:46.93	0.65
			eSg	41:57.44	-0.52
ZST	91.8	312	ePg	16:41:48.20	0.37
			eSg	41:59.60	-1.11
PENC	96.6	80	eSg	16:42:01.89	-0.32
VYHS	112.8	33	ePn	16:41:50.50	-0.46
			eSn	42:04.30	-1.98
PSZ	144.2	78	ePn	16:41:56.45	1.57
			eSn	42:13.89	0.62
MORH	165.7	163	ePnD	16:41:57.41	-0.15
			eSn	42:16.19	-1.85
PKSM	166.1	163	ePnD	16:41:57.45	-0.16
			eSn	42:16.07	-2.05
KOVH	172.9	178	eSn	16:42:22.61	2.98*

35.

2016-02-24 time: 13:45:44.75 UTC ML= 1.8  
 lat: 47.908N lon: 16.386E h= 1.4 km  
 erh= 2.8km erz= 3.5km  
 nr= 22 gap= 69 rms=1.13  
 Locality: Austria  
 Comments:

sta	dist	azm	phase	hr mn sec	res
SOP	28.1	153	ePg	13:45:50.11	0.34
			eSg	45:53.59	-0.09
CONA	39.3	273	Pg	13:45:51.96	0.19
			Sg	45:57.53	0.28
ZST	62.3	59	ePg	13:45:55.70	-0.18

## Hypocenter Parameters

			eSg	46:02.50	-2.06
EGYH	89.5	128	ePg	13:46:01.45	0.71
			eSg	46:14.38	1.17
ARSA	97.7	222	Pg	13:46:01.32	-0.89
			Sg	46:14.33	-1.49
MPLH	119.4	133	ePg	13:46:05.42	-0.66
			eSg	46:20.13	-2.58
MOA	158.7	268	Pn	13:46:10.62	-0.78
			Sn	46:30.31	-1.88
KOGS	162.6	184	ePnD	13:46:13.50	1.62
			eSn	46:34.32	1.28
KBA	247.1	248	Pn	13:46:23.71	1.29
			Sn	46:54.66	2.87
KHC	248.1	303	ePn	13:46:24.50	1.95
			eSn	46:54.50	2.47
PRU	268.0	330	eSn	13:46:59.00	2.56
DPC	271.7	359	eSn	13:46:59.90	2.63

36.

2016-02-24 time: 16:17:46.47 UTC ML= 1.8  
 lat: 47.922N lon: 16.375E h= 3.2 km  
 erh= 4.2km erz= 5.8km  
 nr= 17 gap= 82 rms=1.30  
 Locality: Austria  
 Comments:

sta	dist	azm	phase	hr mn sec	res
SOP	29.9	153	ePg	16:17:52.57	0.72
			eSg	17:56.09	0.05
ZST	62.2	61	eSg	16:18:05.00	-1.28
EGYH	91.2	128	ePg	16:18:03.74	0.97
			eSg	18:14.50	-0.99
ARSA	98.4	221	Pg	16:18:03.81	-0.24
			Sg	18:16.50	-1.26
SMOL	102.3	50	eSg	16:18:18.60	-0.40
MPLH	121.2	134	ePg	16:18:08.53	0.41
			eSg	18:23.10	-1.90
CSKK	154.8	114	ePn	16:18:11.34	-1.05
TREC	166.1	337	eSn	16:18:34.40	-0.72
VYHS	193.7	71	ePn	16:18:21.00	3.75
			eSn	18:44.40	3.14
KRLC	241.3	7	eSn	16:18:50.00	-1.82
KHC	246.4	303	ePn	16:18:26.80	2.97
			eSn	18:57.00	4.04
DPC	270.0	359	eSn	16:19:03.60	5.40*

37.

2016-02-24 time: 20:44:46.73 UTC ML= 1.3  
 lat: 46.280N lon: 17.245E h= 12.2 km  
 erh= 1.6km erz= 1.4km  
 nr= 14 gap=165 rms=0.39  
 Locality: Bolhás  
 Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	41.9	300	ePg	20:44:54.72	0.21
			eSg	45:00.63	0.04
KOVH	69.3	108	ePg	20:44:58.95	-0.35
			eSg	45:09.71	0.61
KOGS	78.8	284	ePgD	20:45:00.77	-0.20
			eSg	45:11.60	-0.47
TIH	85.0	36	ePg	20:45:01.86	-0.19
			eSg	45:14.02	0.02
PKSV	89.2	119	ePg	20:45:03.30	0.50
			eSg	45:14.36	-0.99
PKSM	107.9	94	ePn	20:45:06.07	0.41
			eSn	45:20.55	0.12
MORH	108.1	94	ePn	20:45:06.02	0.33
			eSn	45:19.88	-0.59

## Hypocenter Parameters

## Földrengés paraméterek

38.  
 2016-02-25 time: 7:52:45.33 UTC ML= 0.7  
 lat: 47.283N lon: 18.347E h= 0.0 km  
 erh= 0.7km erz= 104km  
 nr= 6 gap=248 rms=0.06  
 Locality: Magyaralmás  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	11.0	323	ePgD	7:52:47.18	-0.12
			eSg	52:48.84	0.01
PKSG	12.5	15	ePgD	7:52:47.59	0.03
			eSg	52:49.31	0.01
PKST	23.8	263	ePgD	7:52:49.63	0.05
			eSg	52:52.96	0.06

39.  
 2016-02-26 time: 0:01:32.32 UTC ML= 0.3  
 lat: 47.285N lon: 17.655E h= 2.6 km  
 erh= 2.0km erz=20.7km  
 nr= 9 gap=137 rms=0.32  
 Locality: Homokbödöge  
 Comments:

sta	dist	azm	phase	hr mn sec	res
MPLH	15.5	214	ePgD	0:01:34.87	-0.26
			eSg	01:37.20	-0.13
EGYH	28.5	301	ePgC	0:01:37.48	0.05
			eSg	01:41.43	0.02
PKST	28.8	96	ePg	0:01:38.24	0.75
			eSg	01:41.98	0.45
CSKK	46.6	79	eSg	0:01:46.67	-0.48
PKSG	56.8	78	ePgD	0:01:42.48	0.00
			eSg	01:50.12	-0.28

40.  
 2016-02-26 time: 10:49:36.43 UTC ML= 1.4  
 lat: 48.679N lon: 20.374E h= 0.0 km  
 erh= 2.5km erz= 763km  
 nr= 10 gap=173 rms=0.62  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.3	159	ePg	10:49:40.60	0.01
			eSg	49:43.50	-0.34
IZAB	50.3	256	ePg	10:49:45.70	0.29
			eSg	49:52.40	-0.02
CRVS	83.7	73	ePg	10:49:51.80	0.43
			eSg	50:02.10	-0.93
PSZ	91.8	203	ePg	10:49:53.26	0.44
			eSg	50:03.80	-1.80
VYHS	115.3	260	ePg	10:49:57.80	0.77
			eSg	50:12.40	-0.69

41.  
 2016-02-26 time: 11:16:20.61 UTC ML= 0.9  
 lat: 47.581N lon: 18.473E h= 0.0 km  
 erh= 6.9km erz= 797km  
 nr= 8 gap=181 rms=0.57  
 Locality: Tatabánya  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	22.0	196	ePg	11:16:24.20	-0.33
			eSg	16:27.47	-0.12
CSKK	29.1	213	ePg	11:16:25.94	0.14
			eSg	16:29.95	0.11
PKST	48.8	223	ePg	11:16:29.31	-0.01
			eSg	16:35.84	-0.27

VYHS 105.0 15 ePg 11:16:40.70 1.33  
 eSg 16:53.00 -1.00

42.  
 2016-02-27 time: 9:32:24.98 UTC ML= 0.8  
 lat: 46.134N lon: 18.337E h= 1.2 km  
 erh= 2.3km erz=52.2km  
 nr= 9 gap=124 rms=0.54  
 Locality: Hird  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	19.1	254	ePg	9:32:27.45	-0.94
			eSg	32:30.38	-0.67
PKSM	25.0	70	ePgD	9:32:29.41	-0.04
			eSg	32:32.91	-0.02
MORH	25.4	69	ePgD	9:32:29.43	-0.08
			eSg	32:33.00	-0.05
PKSV	28.1	194	ePgD	9:32:30.10	0.10
			eSg	32:34.63	0.71
PKS9	50.5	355	ePg	9:32:35.14	1.14

43.  
 2016-02-29 time: 12:30:55.80 UTC ML= 0.6  
 lat: 47.159N lon: 18.316E h= 0.0 km  
 erh= 1.0km erz= 140km  
 nr= 6 gap=285 rms=0.09  
 Locality: Sárszentmihály  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	23.1	349	ePg	12:30:59.82	-0.11
			eSg	31:03.14	-0.01
PKST	24.1	298	ePg	12:31:00.11	0.01
			eSg	31:03.48	0.02
PKSG	26.5	12	ePg	12:31:00.68	0.14
			eSg	31:04.16	-0.07

44.  
 2016-03-01 time: 13:51:55.76 UTC ML= 2.1  
 lat: 45.942N lon: 18.769E h= 0.2 km  
 erh= 2.0km erz= 2.8km  
 nr= 24 gap=222 rms=0.58  
 Locality: Homorúd  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSM	31.6	342	ePgC	13:52:01.47	0.07
			eSg	52:05.77	-0.04
MORH	32.0	342	ePgC	13:52:01.51	0.04
			eSg	52:05.78	-0.14
PKSV	40.5	262	ePg	13:52:02.95	-0.04
			eSg	52:07.63	-1.00
KOVH	54.3	287	ePg	13:52:05.22	-0.24
			eSg	52:12.29	-0.73
PKB3	62.9	32	ePg	13:52:06.54	-0.45
PKB4	63.0	348	ePg	13:52:06.69	-0.31
			eSg	52:15.51	-0.26
PKS2	70.1	29	ePg	13:52:07.82	-0.46
			eSg	52:19.44	1.39
PKB5	72.7	358	ePg	13:52:09.24	0.50
			eSg	52:18.55	-0.31
PKS9	81.1	332	ePg	13:52:10.78	0.54
			eSg	52:20.85	-0.68
PKB2	89.2	24	ePg	13:52:12.80	1.11
			eSg	52:24.06	-0.06
PKS6	95.5	40	ePg	13:52:11.88	-0.93
			eSg	52:25.56	-0.55
MPLH	165.9	325	ePn	13:52:24.57	1.11
KOGS	202.4	286	eSn	13:52:53.67	0.51
PSZ	235.9	21	ePn	13:52:33.45	1.26



## Földrengés paraméterek

## Hypocenter Parameters

45.  


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 2016-03-01 time: 16:48:35.46 UTC ML= 0.7  
 lat: 45.959N lon: 18.693E h= 6.2 km  
 erh= 3.6km erz=13.7km  
 nr= 14 gap=220 rms=0.53  
 Locality: Kölked  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSM	28.3	352	ePgC	16:48:40.27	-0.38
			eSg	48:44.70	0.01
MORH	28.7	352	ePgC	16:48:40.32	-0.40
			eSg	48:44.79	-0.03
PKSV	35.1	257	ePgC	16:48:41.81	-0.02
			eSg	48:47.50	0.71
KOVH	48.1	287	ePg	16:48:44.12	-0.01
			eSg	48:51.06	0.17
PKB4	60.1	353	ePg	16:48:47.46	1.21
			eSg	48:54.11	-0.55
PKB3	64.5	37	eSg	16:48:56.79	0.71
PKB5	70.7	3	eSg	16:48:58.78	0.75
PKB1	92.0	5	ePgD	16:48:51.48	-0.45
			eSg	49:03.91	-0.87

46.  


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 2016-03-02 time: 7:56:27.58 UTC ML= 0.8  
 lat: 45.912N lon: 18.738E h= 10.0 km  
 erh= 6.9km erz=21.6km  
 nr= 7 gap=289 rms=0.56  
 Locality: Kölked  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSM	34.2	347	ePgC	7:56:34.12	0.18
			eSg	56:38.56	-0.35
MORH	34.6	348	ePg	7:56:34.17	0.16
			eSg	56:38.70	-0.33
KOVH	53.2	292	eSg	7:56:44.45	-0.34
PKB5	76.0	360	eSg	7:56:53.10	1.17
PKB1	97.1	2	eSg	7:56:57.62	-0.99

47.  


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 2016-03-02 time: 8:30:43.31 UTC ML= 1.2  
 lat: 47.469N lon: 18.396E h= 0.0 km  
 erh= 4.7km erz= 485km  
 nr= 5 gap=313 rms=0.22  
 Locality: Várgesztes  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.6	183	ePg	8:30:44.97	0.12
			eSg	30:45.75	-0.29
CSKK	15.6	221	ePgD	8:30:46.35	0.25
			eSg	30:48.37	0.10
PKST	35.9	230	ePgD	8:30:49.48	-0.25

48.  


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 2016-03-02 time: 11:23:52.22 UTC ML= 1.4  
 lat: 45.821N lon: 18.385E h= 0.0 km  
 erh= 5.6km erz= 920km  
 nr= 12 gap=282 rms=0.76  
 Locality: Kistapolca  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	12.8	306	ePg	11:23:54.50	0.00
			eSg	23:55.84	-0.44
KOVH	37.0	323	ePgC	11:23:58.71	-0.12
			eSg	24:03.43	-0.56
PKSM	47.8	25	ePgC	11:24:00.22	-0.53

			eSg	24:06.16	-1.25
MORH	48.3	25	ePgC	11:24:00.27	-0.57
			eSg	24:06.25	-1.31
PKB4	77.0	13	ePg	11:24:07.27	1.31
			eSg	24:17.70	1.02
PKS9	85.6	355	ePg	11:24:08.43	0.93
			eSg	24:20.52	1.11

49.  


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 2016-03-05 time: 22:01:37.63 UTC ML= 1.8  
 lat: 47.890N lon: 18.012E h= 10.0 km  
 erh= 2.5km erz= 2.1km  
 nr= 29 gap=122 rms=0.86  
 Locality: Slovakia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	61.5	162	ePg	22:01:49.09	0.34
			eSg	01:56.83	-0.60
PKSG	62.3	153	ePg	22:01:49.19	0.30
			eSg	01:57.71	0.03
PKST	70.2	179	ePgC	22:01:48.13	-2.16
			eSg	01:59.26	-0.90
EGYH	73.3	224	ePgD	22:01:51.06	0.22
			eSg	02:02.53	1.39
MPLH	87.6	204	ePg	22:01:53.82	0.45
			eSg	02:05.49	-0.16
BUD	88.4	121	ePg	22:01:54.27	0.76
			eSg	02:04.72	-1.19
PENC	95.7	97	ePg	22:01:54.04	-0.77
			eSg	02:07.63	-0.58
TIH	110.4	185	ePn	22:01:57.87	0.72
			eSn	02:11.99	-0.39
SOP	111.3	258	eSn	22:02:11.86	-0.71
PKB1	136.4	154	ePn	22:02:01.38	1.00
			eSn	02:18.69	0.56
PSZ	140.8	89	ePn	22:02:01.97	1.03
			eSn	02:18.26	-0.86
CONA	160.8	272	Pn	22:02:03.60	0.17
			Sn	02:22.51	-1.05
PKB4	161.3	164	ePn	22:02:06.46	2.96
KRUC	176.8	317	ePn	22:02:05.00	-0.43
VRAC	189.3	326	ePn	22:02:06.90	-0.08
PKSM	192.6	166	ePnC	22:02:07.31	-0.09
			eSn	02:29.38	-1.24
KOGS	208.6	220	ePn	22:02:09.80	0.40

50.  


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 2016-03-07 time: 11:01:15.04 UTC ML= 1.6  
 lat: 48.564N lon: 19.354E h= 0.0 km  
 erh= 3.0km erz= 969km  
 nr= 10 gap=109 rms=0.75  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
IZAB	26.5	89	ePg	11:01:19.80	0.02
			eSg	01:23.80	0.33
VYHS	39.0	258	ePg	11:01:21.80	-0.21
			eSg	01:26.60	-0.84
LANS	65.8	7	ePg	11:01:27.50	0.71
			eSg	01:35.40	-0.55
PSZ	82.3	151	ePg	11:01:30.96	1.22
			eSg	01:39.75	-1.44
KECS	84.1	96	ePg	11:01:29.60	-0.46
			eSg	01:40.30	-1.48

## Hypocenter Parameters

51.

2016-03-07 time: 12:32:47.96 UTC ML= 1.8  
 lat: 48.211N lon: 21.230E h= 10.0 km  
 erh= 4.1km erz= 7.0km  
 nr= 8 gap=157 rms=0.63  
 Locality: Rátka  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	62.9	299	ePg	12:32:59.10	-0.24
			eSg	33:07.60	-0.62
CRVS	78.7	13	ePg	12:33:03.30	1.17
			eSg	33:12.40	-0.78
TRPA	97.8	95	ePg	12:33:05.42	-0.09
			eSg	33:18.73	-0.47
PSZ	104.8	252	eP*	12:33:07.46	0.75
			eS*	33:21.10	-0.23

52.

2016-03-07 time: 20:03:52.41 UTC ML= 1.0  
 lat: 47.313N lon: 18.343E h= 10.0 km  
 erh= 2.4km erz= 2.2km  
 nr= 27 gap=124 rms=1.02  
 Locality: Zámoly  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	8.3	312	ePgC	20:03:54.38	-0.35
			eSg	03:55.39	-1.16
PKSG	9.4	23	ePgD	20:03:54.36	-0.51
			eSg	03:55.73	-1.05
PKST	24.1	255	ePgD	20:03:56.59	-0.48
			eSg	04:00.02	-0.69
SRO2	50.1	4	eSg	20:04:07.30	-1.35
SRO	55.6	358	eSg	20:04:10.60	0.23
TIH	57.3	217	ePg	20:04:02.02	-0.77
			eSg	04:10.92	0.03
MPLH	62.9	255	ePg	20:04:04.15	0.37
			eSg	04:12.75	0.10
PKB1	68.0	150	ePg	20:04:05.61	0.92
			eSg	04:13.12	-1.14
EGYH	77.2	279	ePg	20:04:08.49	2.17
			eSg	04:16.83	-0.33
PKB5	85.3	159	ePg	20:04:09.47	1.72
			eSg	04:19.15	-0.56
PKB4	93.0	168	ePg	20:04:09.70	0.59
			eSg	04:20.68	-1.46
PKB3	118.3	147	eSn	20:04:28.20	-0.72
			MORH	124.2	169
			eSn	04:28.20	-2.02
			PKSM	124.6	169
			eSn	04:28.34	-1.96
			VYHS	136.3	16
			eSn	04:31.70	-1.22

53.

2016-03-07 time: 21:33:20.74 UTC ML= 0.6  
 lat: 47.298N lon: 18.342E h= 7.1 km  
 erh= 3.4km erz= 3.3km  
 nr= 15 gap=116 rms=0.94  
 Locality: Magyaralmás  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	9.5	319	ePg	21:33:22.77	-0.09
			eSg	33:24.34	-0.17
PKSG	11.0	19	ePgD	21:33:22.72	-0.36
			eSg	33:24.18	-0.73
PKST	23.7	259	ePg	21:33:25.06	-0.10
			eSg	33:28.56	-0.04
PKB1	66.6	149	ePg	21:33:34.23	1.53
			eSg	33:40.85	-1.18

## Földrengés paraméterek

PKB5	83.7	159	eSg	21:33:48.32	0.87
PKB4	91.4	167	eSg	21:33:48.28	-1.59
PKB2	97.5	135	eSg	21:33:51.16	-0.64
MORH	122.5	169	ePn	21:33:43.52	1.38
			eSn	33:56.95	-1.88
PKSM	122.9	169	ePn	21:33:42.79	0.60
			eSn	33:57.38	-1.54

54.

2016-03-07 time: 22:01:16.23 UTC ML= 0.1  
 lat: 47.272N lon: 18.375E h= 1.9 km  
 erh= 0.4km erz= 2.9km  
 nr= 5 gap=262 rms=0.18  
 Locality: Sárkereszttes  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	13.3	319	ePg	22:01:18.82	0.19
			eSg	01:20.30	-0.21
PKSG	13.3	5	ePgD	22:01:18.76	0.12
PKST	25.9	267	eSg	01:20.23	-0.29
			eSg	22:01:24.42	-0.05

55.

2016-03-07 time: 22:48:51.11 UTC ML= 0.2  
 lat: 47.329N lon: 18.332E h= 10.0 km  
 erh= 1.4km erz= 0.9km  
 nr= 6 gap=218 rms=0.17  
 Locality: Söréd  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	6.6	305	ePg	22:48:53.46	0.22
			eSg	48:55.02	0.11
PKSG	8.2	33	ePgD	22:48:53.45	0.03
			eSg	48:54.88	-0.34
PKST	23.8	251	ePgC	22:48:55.73	0.01
			eSg	48:59.09	-0.23

56.

2016-03-07 time: 23:11:55.09 UTC ML=-0.5  
 lat: 47.289N lon: 18.364E h= 0.4 km  
 erh= 1.0km erz=26.1km  
 nr= 5 gap=253 rms=0.04  
 Locality: Magyaralmás  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	11.4	317	ePg	23:11:57.16	0.03
			eSg	11:58.74	0.02
PKSG	11.7	10	ePgD	23:11:57.20	0.02
PKST	25.2	263	eSg	11:58.72	-0.08
			eSg	23:12:03.05	-0.04

57.

2016-03-08 time: 2:22:52.00 UTC ML= 0.7  
 lat: 45.694N lon: 18.250E h= 6.2 km  
 erh= 3.8km erz= 2.5km  
 nr= 13 gap=317 rms=0.47  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	21.6	0	ePg	2:22:56.03	0.02
			eSg	22:59.70	0.56
KOVH	45.3	345	ePgD	2:22:59.86	-0.31
			eSg	23:06.07	-0.47
PKSM	65.0	28	ePgD	2:23:03.32	-0.34
			eSg	23:12.16	-0.61
MORH	65.5	28	ePg	2:23:03.40	-0.35

## Földrengés paraméterek

## Hypocenter Parameters

PKB4 93.3 17 eSg 23:12.29 -0.63  
 ePg 2:23:09.39 0.70  
 eSg 23:23.01 1.30  
 PKB5 106.9 21 eSg 2:23:26.67 0.63  
 PKB1 128.2 19 ePn 2:23:14.59 0.38  
 eSn 23:31.54 -0.01

58.

2016-03-08 time: 16:19:47.15 UTC ML= 0.1  
 lat: 47.331N lon: 18.329E h= 10.0 km  
 erh= 1.3km erz= 0.8km  
 nr= 6 gap=216 rms=0.18  
 Locality: Söréd  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	6.3	304	ePg	16:19:49.47	0.22
			eSg	19:51.04	0.14
PKSG	8.2	35	ePgD	16:19:49.48	0.03
			eSg	19:50.91	-0.34
PKST	23.7	250	ePg	16:19:51.75	0.01
			eSg	19:55.08	-0.24

59.

2016-03-09 time: 9:25:45.12 UTC ML= 1.4  
 lat: 48.416N lon: 19.124E h= 0.0 km  
 erh= 2.9km erz= 717km  
 nr= 8 gap=158 rms=0.51  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	23.0	292	ePg	9:25:49.00	-0.23
			eSg	25:52.20	-0.24
IZAB	46.7	69	ePg	9:25:53.70	0.23
			eSg	26:00.10	0.12
PSZ	79.6	134	ePg	9:25:59.77	0.43
			eSg	26:09.80	-0.63
KECS	101.0	86	ePg	9:26:03.80	0.64
			eSg	26:16.00	-1.23

60.

2016-03-09 time: 10:39:28.38 UTC ML= 1.2  
 lat: 47.033N lon: 17.796E h= 10.0 km  
 erh= 4.2km erz=13.8km  
 nr= 6 gap=154 rms=0.59  
 Locality: Tótvázsony  
 Comments:

sta	dist	azm	phase	hr mn sec	res
TIH	16.5	154	ePg	10:39:31.67	-0.16
			eSg	39:34.95	0.43
MPLH	24.7	308	ePg	10:39:33.89	0.75
			eSg	39:36.34	-0.52
PKST	30.9	36	ePg	10:39:33.32	-0.86
			eSg	39:39.17	0.46

61.

2016-03-09 time: 14:26:50.85 UTC ML= 1.5  
 lat: 48.494N lon: 20.343E h= 0.0 km  
 erh= 2.7km erz= 654km  
 nr= 6 gap=176 rms=0.38  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	10.6	96	ePg	14:26:52.60	-0.15
			eSg	26:54.20	-0.03
IZAB	47.3	280	ePg	14:26:59.80	0.50
			eSg	27:05.20	-0.68

PSZ 72.1 208 ePg 14:27:04.04 0.30  
 eSg 27:13.47 -0.32

62.

2016-03-10 time: 7:15:10.09 UTC ML= 0.4  
 lat: 47.197N lon: 18.005E h= 0.0 km  
 erh= 5.2km erz= 756km  
 nr= 7 gap=212 rms=0.53  
 Locality: Eplény  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	7.2	18	ePg	7:15:10.55	-0.83
			eSg	15:12.12	-0.26
CSKK	26.7	46	ePg	7:15:15.24	0.38
			eSg	15:19.82	1.24
MPLH	35.4	265	ePg	7:15:16.54	0.13
PKSG	36.3	53	ePg	7:15:16.37	-0.20
			eSg	15:21.67	0.04

63.

2016-03-10 time: 21:05:27.88 UTC ML= 1.0  
 lat: 45.656N lon: 18.206E h= 3.8 km  
 erh= 3.1km erz= 1.9km  
 nr= 15 gap=308 rms=0.42  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	26.1	8	ePg	21:05:32.71	0.12
			eSg	05:36.37	0.10
KOVH	48.8	350	ePg	21:05:36.56	-0.06
			eSg	05:42.95	-0.48
PKSM	70.4	29	ePg	21:05:39.98	-0.49
			eSg	05:50.98	0.68
MORH	70.9	29	ePg	21:05:40.04	-0.52
			eSg	05:50.75	0.30
PKB4	98.4	18	ePg	21:05:46.16	0.70
			eSg	05:59.57	0.40
PKB3	114.7	42	eSg	21:06:03.63	-0.71
PKS2	121.3	40	ePn	21:05:49.80	0.26
			eSn	06:06.26	-0.18
PKB1	133.3	20	ePn	21:05:51.20	0.15
			eSn	06:09.32	0.20

64.

2016-03-15 time: 12:00:22.52 UTC ML= 1.6  
 lat: 48.547N lon: 19.355E h= 0.0 km  
 erh= 1.8km erz= 3.7km  
 nr= 13 gap=106 rms=0.61  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
IZAB	26.5	85	ePg	12:00:27.80	0.55
			eSg	00:31.40	0.46
VYHS	38.8	261	ePg	12:00:29.70	0.25
			eSg	00:34.30	-0.56
LANS	67.6	7	ePg	12:00:34.50	-0.09
			eSg	00:42.40	-1.61
PSZ	80.6	150	ePg	12:00:37.41	0.50
			eSg	00:47.55	-0.58
KECS	83.8	95	ePg	12:00:37.30	-0.18
			eSg	00:47.50	-1.66
PENC	84.3	184	ePg	12:00:38.18	0.60
			eSg	00:48.46	-0.86
PKSG	147.3	209	eSn	12:01:06.76	-0.97

## Hypocenter Parameters

## Földrengés paraméterek

65.

2016-03-15 time: 18:46:34.02 UTC ML= 1.5  
 lat: 47.800N lon: 17.238E h= 10.0 km  
 erh= 1.7km erz= 2.4km  
 nr= 26 gap= 79 rms=0.72  
 Locality: Újrónafő  
 Comments:

sta	dist	azm	phase	hr mn sec	res
EGYH	43.2	171	ePg	18:46:42.23	0.29
			eSg	46:47.82	-0.29
ZST	45.2	347	ePg	18:46:42.20	-0.08
			eSg	46:47.60	-1.13
SOP	52.6	256	ePg	18:46:43.22	-0.37
			eSg	46:49.72	-1.32
MPLH	73.7	162	ePg	18:46:48.21	0.92
			eSg	46:56.80	-0.85
SRO	80.6	89	ePg	18:46:48.30	-0.22
			eSg	47:00.00	0.18
SMOL	80.6	10	ePg	18:46:49.60	1.07
			eSg	46:47.90	0.06
PKST	85.0	135	ePg	18:46:49.94	0.64
			eSg	47:01.13	-0.08
SRO2	86.7	93	ePg	18:46:49.40	-0.21
			eSg	47:00.10	-1.67
CSKK	91.0	122	ePg	18:46:50.83	0.46
			eSg	47:02.75	-0.37
PKSG	97.9	118	ePgD	18:46:51.54	-0.05
			eSg	47:03.74	-1.55
CONA	104.0	278	P*	18:46:52.16	-0.49
			S*	47:05.00	-2.18
ARSA	142.9	245	Pn	18:46:59.38	1.79
			Sn	47:15.62	-0.36
KRUC	153.5	336	Pn	18:46:59.00	0.08
			Pn	18:47:00.10	-0.01

66.

2016-03-16 time: 7:28:55.04 UTC ML= 0.5  
 lat: 47.297N lon: 18.338E h= 0.0 km  
 erh= 1.4km erz= 239km  
 nr= 6 gap=239 rms=0.14  
 Locality: Magyaralmás  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	9.4	321	ePg	7:28:56.62	-0.09
			eSg	28:57.97	-0.04
PKSG	11.2	21	ePg	7:28:57.01	-0.03
			eSg	28:58.85	0.24
PKST	23.3	259	ePg	7:28:59.07	-0.14
			eSg	29:02.69	0.23

67.

2016-03-16 time: 8:32:50.36 UTC ML= 1.7  
 lat: 48.516N lon: 19.320E h= 0.0 km  
 erh= 1.6km erz= 529km  
 nr= 9 gap=103 rms=0.40  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
IZAB	29.5	79	eSg	8:32:59.90	0.15
VYHS	35.9	266	ePg	8:32:56.80	0.03
			eSg	33:01.20	-0.57
LANS	71.3	9	ePg	8:33:03.10	0.00
PSZ	79.0	147	ePg	8:33:05.24	0.77
			eSg	33:15.20	-0.28
PENC	80.8	182	eSg	8:33:15.68	-0.36
KECS	86.2	92	ePg	8:33:05.60	-0.15
			eSg	33:16.40	-1.36

68.

2016-03-16 time: 9:26:46.56 UTC ML= 0.5  
 lat: 47.199N lon: 18.301E h= 0.0 km  
 erh= 0.7km erz=91.0km  
 nr= 6 gap=271 rms=0.06  
 Locality: Székesfehérvár  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.5	351	ePg	9:26:49.95	0.09
			eSg	26:52.43	-0.01
PKST	21.2	288	ePg	9:26:50.31	-0.05
			eSg	26:53.27	-0.05
PKSG	22.5	18	ePg	9:26:50.62	0.04
			eSg	26:53.63	-0.08

69.

2016-03-16 time: 10:23:05.44 UTC ML= 1.5  
 lat: 48.635N lon: 20.712E h= 0.0 km  
 erh= 1.5km erz= 467km  
 nr= 9 gap=156 rms=0.35  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.8	225	ePg	10:23:09.50	-0.18
			eSg	23:13.40	0.40
CRVS	62.5	62	ePg	10:23:16.60	0.00
			eSg	23:25.10	-0.22
IZAB	74.1	264	eSg	10:23:28.60	-0.39
PSZ	100.2	217	ePg	10:23:23.59	0.26
			eSg	23:36.75	-0.54
LANS	107.8	302	ePg	10:23:25.30	0.62
			eSg	23:39.50	-0.20

70.

2016-03-16 time: 12:06:02.05 UTC ML= 0.7  
 lat: 47.204N lon: 18.332E h= 0.0 km  
 erh= 4.8km erz= 770km  
 nr= 7 gap=254 rms=0.51  
 Locality: Székesfehérvár  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.5	343	eSg	12:06:07.82	-0.11
			ePg	12:06:05.43	-0.43
PKSG	21.4	12	eSg	06:09.67	0.83
			ePg	12:06:05.82	-0.40
PKST	23.3	285	eSg	06:08.84	-0.63
			ePg	12:06:13.22	0.43
MPLH	60.2	266	ePg	12:06:13.22	0.43
			eSg	06:21.76	0.59

71.

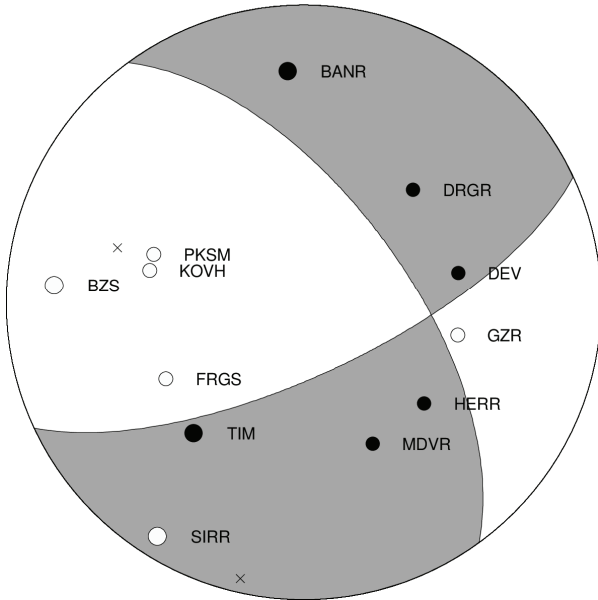
2016-03-17 time: 21:50:44.05 UTC ML= 1.9  
 lat: 45.645N lon: 21.108E h= 12.1 km  
 erh= 2.3km erz= 1.6km  
 nr= 26 gap= 65 rms=0.98  
 Locality: Romania  
 Comments:

sta	dist	azm	phase	hr mn sec	res
TIM	13.5	40	PgC	21:50:47.16	-0.13
			Sg	50:50.30	0.49
BANR	29.2	176	PgC	21:50:50.13	0.43
			Sg	50:54.90	0.80
BZS	39.7	94	PgD	21:50:51.26	-0.21
			Sg	50:57.30	0.04
SIRR	81.4	32	PgD	21:50:57.69	-1.05
			Sg	51:08.40	-1.80
AMBH	83.9	339	ePg	21:50:59.27	0.09

## Földrengés paraméterek

	eSg	51:11.49	0.51
MDVR 107.0 154	PnC	21:51:02.56	-0.32
	Sn	51:16.10	-1.47
FRGS 116.4 241	PnD	21:51:03.10	-0.95
	Sn	51:17.00	-2.64
HERR 133.2 130	PnC	21:51:07.62	1.48
	Sn	51:23.60	0.23
GZR 133.3 102	PnD	21:51:06.89	0.73
	Sn	51:23.50	0.10
DEV 142.1 79	PnC	21:51:08.90	1.64
	Sn	51:25.00	-0.36
PKS6 159.8 312	eSn	21:51:30.60	1.32
DRGR 177.6 44	PnC	21:51:12.13	0.44
PKSM 201.5 288	ePnD	21:51:14.49	-0.17
	eSn	51:43.37	4.83*
CJR 226.0 58	Sn	21:51:45.50	1.52
KOVH 238.8 282	ePnD	21:51:25.27	5.96
	eSn	51:52.90	6.08*

2016.03.17. 21:50:44



72.

2016-03-18 time: 8:31:23.77 UTC ML= 0.9  
 lat: 47.587N lon: 18.490E h= 0.0 km  
 erh= 4.1km erz= 358km  
 nr= 6 gap=336 rms=0.22  
 Locality: Tarján  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	22.9	199	ePg	8:31:27.90			0.04
			eSg	31:31.00			-0.05
CSKK	30.3	215	ePg	8:31:29.13			-0.05
			eSg	31:32.82			-0.58
PKST	50.1	223	ePg	8:31:32.82			0.10
			eSg	31:40.02			0.32

73.

2016-03-18 time: 14:00:11.72 UTC ML= 0.8  
 lat: 47.311N lon: 18.336E h= 0.0 km  
 erh= 1.3km erz= 232km  
 nr= 6 gap=231 rms=0.13  
 Locality: Magyaralmás  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	8.1	316	ePg	14:00:13.03			-0.14
			eSg	00:14.30			-0.01

## Hypocenter Parameters

PKSG	9.9	25	ePg	14:00:13.57	0.08
			eSg	00:14.93	0.06
PKST	23.5	256	ePgD	14:00:15.82	-0.10
			eSg	00:19.53	0.33

74.

2016-03-18 time: 14:12:16.09 UTC ML= 1.1  
 lat: 47.296N lon: 18.341E h= 0.0 km  
 erh= 2.5km erz= 418km  
 nr= 6 gap=241 rms=0.25  
 Locality: Magyaralmás  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	9.7	321	ePg	14:12:17.55			-0.26
			eSg	12:18.94			-0.22
PKSG	11.3	19	ePgC	14:12:18.18			0.06
			eSg	12:19.95			0.26
PKST	23.5	260	ePg	14:12:20.16			-0.13
			eSg	12:24.12			0.55

75.

2016-03-18 time: 21:58:19.08 UTC ML= 2.9  
 lat: 45.843N lon: 21.199E h= 9.1 km  
 erh= 1.5km erz= 1.2km  
 nr= 64 gap= 49 rms=1.01  
 Locality: Romania  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
TIM	12.0	172	PgD	21:58:22.08			0.31
			Sg	58:24.00			0.13
BZS	41.1	128	PgC	21:58:26.06			-0.54
			Sg	58:31.60			-0.86
BANR	51.5	186	PgC	21:58:28.62			0.21
			Sg	58:36.20			0.50
SIRR	59.1	37	PgD	21:58:29.38			-0.37
			Sg	58:36.30			-1.78
AMBH	67.2	327	ePgC	21:58:31.73			0.54
			eSg	58:43.89			3.26
MDVR	124.7	161	PnD	21:58:39.83			-0.66
			Sn	58:56.10			-1.10
DEV	132.4	88	PnD	21:58:41.12			-0.33
			Sn	58:57.70			-1.20
GZR	132.8	112	PnC	21:58:41.07			-0.43
FRGS	134.1	234	PnC	21:58:40.32			-1.35
			Sn	58:58.40			-0.89
PKS6	151.6	304	ePn	21:58:44.03			0.18
			eSn	59:02.22			-0.95
PKSN	155.7	319	ePn	21:58:44.55			0.20
DRGR	157.0	48	PnD	21:58:44.09			-0.44
			Sn	59:03.40			-0.97
PKB3	167.8	293	ePn	21:58:45.57			-0.30
			eSn	59:02.13			-4.64*
PKS2	169.5	295	ePn	21:58:46.02			-0.06
			eSn	59:09.05			1.91
RMGR	175.9	138	PnC	21:58:47.51			0.63
			Sn	59:10.70			2.13
PKB2	177.0	301	ePn	21:58:47.21			0.20
			eSn	59:09.91			1.12
LTVH	179.6	17	ePn	21:58:50.37			3.04
			Sn	59:08.50			-0.87
PKSM	202.3	282	ePn	21:58:49.55			-0.61
			eSn	59:17.80			3.39
SRE	205.0	130	PnC	21:58:51.76			1.25
			Sn	59:16.10			1.08
LOT	205.1	102	PnC	21:58:51.86			1.34
			Sn	59:16.40			1.36
PKS7	206.0	311	eSn	21:59:19.09			3.84
PKB5	207.7	294	ePn	21:58:50.70			-0.14
			eSn	59:11.80			-3.81
CJR	208.6	62	PnC	21:58:51.07			0.11
			Sn	59:16.90			1.08

## Hypocenter Parameters

## Földrengés paraméterek

PKB1 212.9 299 ePn 21:58:51.32 -0.17  
 eSn 59:14.10 -2.67  
 PKB4 213.2 290 ePn 21:58:51.21 -0.32  
 eSn 59:14.26 -2.58  
 PUNG 221.1 142 PnD 21:58:52.10 -0.41  
 Sn 59:20.50 1.90  
 PKSV 228.9 271 ePn 21:58:55.16 1.67  
 KOVH 241.8 276 ePn 21:58:55.01 -0.08  
 eSn 59:28.84 5.65\*  
 MDB 248.7 82 PnD 21:58:56.93 0.98  
 PSZ 251.2 337 ePn 21:58:55.94 -0.33  
 eSn 59:22.55 -2.72  
 PENC 261.3 326 ePn 21:58:57.56 0.04  
 BMR 268.6 41 PnC 21:58:58.88 0.44  
 Sn 59:29.30 0.16  
 ARR 273.1 101 PnC 21:59:00.12 1.13  
 Sn 59:31.30 1.17  
 TRPA 273.9 22 PnC 21:58:58.11 -0.99  
 PKSG 275.5 309 ePn 21:58:59.05 -0.25  
 eSn 59:40.30 9.63\*  
 TIH 280.2 295 ePn 21:58:58.59 -1.29  
 CSKK 281.5 307 ePn 21:58:59.99 -0.06  
 eSn 59:39.64 7.64\*  
 KECS 298.4 350 ePn 21:59:03.50 1.35  
 VOIR 303.6 99 PnD 21:59:03.52 0.73\*  
 Sn 59:38.70 1.81\*  
 SRO 310.6 315 ePn 21:59:05.00 1.33\*  
 eSn 59:38.80 0.35\*  
 MPLH 317.3 298 ePn 21:59:04.92 0.41\*  
 eSn 59:36.63 -3.31\*  
 DOPR 325.4 88 PnD 21:59:06.79 1.28\*  
 EGYH 344.0 301 ePn 21:59:08.55 0.71\*  
 VYHS 344.9 329 ePn 21:59:08.20 0.25\*  
 eSn 59:46.40 0.34\*  
 BURA 364.8 57 PnC 21:59:11.44 1.01\*  
 MLR 371.9 96 PnC 21:59:12.19 0.88\*  
 KOGS 388.3 280 ePn 21:59:16.28 2.93\*  
 eSn 22:00:12.21 16.52\*  
 LANS 390.1 340 ePn 21:59:14.70 1.11\*  
 VTS 395.4 156 PnC 21:59:14.47 0.23\*  
 SMOL 412.1 316 ePn 21:59:16.90 0.57\*  
 eSn 59:58.50 -2.49\*  
 TESR 427.3 80 PnC 21:59:19.12 0.90\*  
 VRI 429.4 90 PnC 21:59:18.04 -0.44\*  
 ARSA 462.6 290 Pn 21:59:22.64 0.01\*  
 Sn 22:00:09.61 -2.59\*  
 CONA 468.2 300 Pn 21:59:24.38 1.05\*  
 Sn 22:00:10.16 -3.28\*  
 SOKA 484.4 281 Pn 21:59:24.37 -0.98\*  
 Sn 22:00:15.39 -1.65\*  
 VRAC 518.2 318 PnC 21:59:29.25 -0.30\*  
 OBKA 518.9 278 Pn 21:59:29.61 -0.03\*  
 Sn 22:00:25.11 0.43\*  
 KBA 618.8 283 Pn 21:59:41.91 -0.20\*  
 Sn 22:00:46.10 -0.77\*  
 KHC 680.8 302 ePn 21:59:53.50 3.67\*  
 eSn 22:00:57.80 -2.82\*

76.

2016-03-21 time: 10:03:55.57 UTC ML= 0.8  
 lat: 47.204N lon: 18.303E h= 0.0 km  
 erh= 2.7km erz= 430km  
 nr= 8 gap=249 rms=0.31  
 Locality: Székesfehérvár  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	17.9	350	ePg	10:03:58.50			-0.27
			eSg	04:01.53			0.26
PKST	21.2	287	ePg	10:03:58.91			-0.45
			eSg	04:02.04			-0.28
PKSG	21.9	18	ePg	10:03:59.52			0.05
			eSg	04:02.57			0.05
MPLH	58.0	266	ePg	10:04:06.38			0.45

77.

2016-03-22 time: 12:06:55.12 UTC ML= 1.5  
 lat: 48.555N lon: 21.047E h= 0.0 km  
 erh= 5.4km erz= 661km  
 nr= 6 gap=192 rms=0.39  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	42.2	259	ePg	12:07:02.20			-0.46
			eSg	07:08.60			0.06
CRVS	49.2	38	ePg	12:07:03.50			-0.41
			eSg	07:11.40			0.64
PSZ	111.1	230	ePg	12:07:15.17			0.21
			eSg	07:30.78			0.35

78.

2016-03-23 time: 8:32:46.38 UTC ML= 1.8  
 lat: 46.940N lon: 18.784E h= 10.0 km  
 erh= 6.5km erz= 6.8km  
 nr= 6 gap=266 rms=0.42  
 Locality: Mezőfalva  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKB1	17.3	178	ePgc	8:32:50.06			0.11
			eSg	32:52.73			0.00
TMP1	23.0	272	ePg	8:32:50.50			-0.37
			eSg	32:54.80			0.44
PKSM	81.7	188	ePg	8:33:01.60			0.53
			eSg	33:11.70			-0.83

79.

2016-03-24 time: 8:38:46.00 UTC ML= 1.6  
 lat: 47.979N lon: 20.000E h= 0.0 km  
 erh= 3.8km erz= 884km  
 nr= 8 gap=197 rms=0.63  
 Locality: Mátraballa  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	10.4	230	ePgD	8:38:47.46			-0.39
			eSg	38:49.79			0.49
PENC	57.7	249	ePg	8:38:55.66			-0.64
			eSg	39:05.14			0.81
KECS	66.7	33	eSg	8:39:07.20			0.00
IZAB	69.0	342	eSg	8:39:08.70			0.77
VYHS	103.7	304	ePg	8:39:05.00			0.48
			eSg	39:17.80			-1.17

80.

2016-03-24 time: 16:54:50.69 UTC ML= 1.6  
 lat: 47.294N lon: 17.573E h= 9.2 km  
 erh= 1.4km erz= 1.1km  
 nr= 33 gap= 55 rms=0.65  
 Locality: Nagytevel  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
MPLH	14.0	191	ePgC	16:54:53.47			-0.20
			eSg	54:56.09			0.08
EGYH	22.8	307	ePgC	16:54:54.96			-0.12
			eSg	54:58.37			-0.14
PKST	35.1	96	ePgD	16:54:57.01			-0.15
			eSg	55:02.90			0.68
TIH	50.0	151	ePg	16:54:58.54			-1.23
			eSg	55:06.11			-0.75
PKSG	62.7	80	ePgC	16:55:01.50			-0.51

## Földrengés paraméterek

	sta	dist	azm	phase	hr	mn	sec	res
	SRO	80.2	44	eSg	55:10.99		0.15	
				ePg	16:55:05.10		-0.01	
				eSg	55:17.10		0.74	
	SOP	87.9	300	ePgD	16:55:06.93		0.46	
				eSg	55:18.42		-0.37	
	PKS9	95.2	146	ePg	16:55:08.95		1.19	
	ZST	106.4	341	ePg	16:55:09.10		-0.65	
				eSg	55:21.70		-2.93*	
	PKB1	108.6	121	ePn	16:55:10.01		-0.07	
				eSn	55:23.55		-1.66	
	PKB5	117.7	131	ePn	16:55:11.79		0.56	
				eSn	55:25.71		-1.54	
	PKB4	118.4	138	ePn	16:55:12.46		1.15	
				eSn	55:27.65		0.25	
	KOGS	137.9	227	eSn	16:55:31.63		-0.09	
	KOVH	139.9	163	ePn	16:55:15.61		1.62	
				eSn	55:31.59		-0.58	
	PKSM	145.3	146	ePn	16:55:14.42		-0.25	
				eSn	55:33.14		-0.23	
	CONA	146.8	299	Pn	16:55:14.72		-0.13	
				Sn	55:33.19		-0.50	
	ARSA	155.2	268	Pn	16:55:16.24		0.34	
				Sn	55:35.12		-0.44	
	VYHS	163.5	35	ePn	16:55:17.60		0.67	
				eSn	55:37.30		-0.10	

81.

2016-03-25 time: 8:16:16.35 UTC ML= 1.0  
 lat: 47.094N lon: 18.008E h= 6.8 km  
 erh= 0.9km erz= 3.6km  
 nr= 6 gap=196 rms=0.12  
 Locality: Litér  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKST	18.5	6	ePg	8:16:19.72			-0.14
			eSg	16:22.74			0.14
TIH	23.2	202	ePg	8:16:20.72			0.05
			eSg	16:23.86			-0.18
MPLH	36.5	283	ePg	8:16:23.10			0.12
			eSg	16:28.13			-0.02

82.

2016-03-25 time: 9:25:16.86 UTC ML= 0.8  
 lat: 46.055N lon: 18.114E h= 0.0 km  
 erh= 2.6km erz= 763km  
 nr= 12 gap=194 rms=0.64  
 Locality: Cserkút  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	3.9	344	ePgC	9:25:17.29			-0.27
			eSg	25:18.55			0.44
PKSV	21.3	150	ePg	9:25:20.98			0.30
			eSg	25:25.38			1.73
PKSM	44.4	67	ePg	9:25:24.60			-0.19
			eSg	25:30.43			-0.54
MORH	44.7	66	ePg	9:25:24.69			-0.17
			eSg	25:30.41			-0.68
PKB4	62.0	38	ePg	9:25:27.05			-0.88
			eSg	25:37.80			1.24
PKB5	76.8	39	ePg	9:25:30.49			-0.10
			eSg	25:42.03			0.74

83.

2016-03-25 time: 10:12:13.72 UTC ML= 0.8  
 lat: 46.178N lon: 18.287E h= 0.0 km  
 erh= 1.9km erz= 365km  
 nr= 8 gap=206 rms=0.27  
 Locality: Zobákpusztá  
 Comments: probably explosion

## Hypocenter Parameters

sta	dist	azm	phase	hr	mn	sec	res
KOVH	17.5	235	ePg	10:12:16.80			-0.05
			eSg	12:19.48			0.19
PKSM	27.6	82	ePg	10:12:18.59			-0.06
			eSg	12:23.32			0.82
MORH	27.9	81	ePg	10:12:18.64			-0.06
			eSg	12:22.29			-0.30
PKSV	32.3	185	ePg	10:12:19.23			-0.25
			eSg	12:24.30			0.33

84.

2016-04-02 time: 2:02:12.16 UTC ML= 1.2  
 lat: 47.542N lon: 16.806E h= 13.6 km  
 erh= 2.8km erz= 1.8km  
 nr= 17 gap=148 rms=0.62  
 Locality: Ebergőc  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
SOP	24.4	310	ePgC	2:02:17.45			0.30
			eSg	02:20.77			-0.28
EGYH	42.0	109	ePg	2:02:20.48			0.45
			eSg	02:25.85			-0.33
MPLH	69.1	127	ePg	2:02:25.10			0.37
			eSg	02:32.68			-1.86
CONA	82.9	301	Pg	2:02:26.91			-0.25
			Sg	02:37.97			-0.89
PKST	97.9	109	eP*	2:02:29.58			0.07
			eS*	02:42.25			-0.80
ARSA	102.2	252	P*	2:02:30.21			0.05
			S*	02:41.74			-2.47
CSKK	111.4	100	eSn	2:02:46.00			-0.30
PKSG	120.6	98	ePn	2:02:32.99			0.51
			eSn	02:48.01			-0.33
KOGS	128.7	199	ePn	2:02:34.50			1.01
			eSn	02:49.51			-0.63

85.

2016-04-03 time: 19:53:22.69 UTC ML= 1.1  
 lat: 46.150N lon: 16.703E h= 10.0 km  
 erh= 3.5km erz= 3.1km  
 nr= 18 gap=141 rms=0.99  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
BEHE	36.0	9	ePg	19:53:29.54			0.17
			eSg	53:34.58			0.00
KOGS	48.1	314	ePg	19:53:31.16			-0.31
			eSg	53:36.80			-1.51
PTJ	64.0	244	ePg	19:53:34.70			0.44
			eSg	53:42.10			-1.18
KOVH	108.2	94	ePn	19:53:41.66			-0.28
			eSn	53:54.91			-2.05
PKSV	123.5	104	ePn	19:53:43.46			-0.38
			eSn	54:00.28			-0.06
SOKA	141.2	295	Pn	19:53:47.56			1.51
			Sn	54:01.11			-3.16
PKSM	149.9	87	ePn	19:53:46.92			-0.21
			eSn	54:07.49			1.29
MORH	150.1	87	ePn	19:53:47.00			-0.16
			eSn	54:07.75			1.50
ARSA	152.0	324	Pn	19:53:49.38			1.98
			Sn	54:05.95			-0.73

86.

2016-04-04 time: 10:50:51.14 UTC ML= 1.9  
 lat: 48.210N lon: 21.245E h= 10.0 km  
 erh= 5.5km erz= 9.4km  
 nr= 8 gap=157 rms=0.86  
 Locality: Rátka  
 Comments:

## Hypocenter Parameters

## Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
KECS	63.9	298	ePg	10:51:02.60	-0.10
			eSg	51:10.50	-1.21
CRVS	78.6	12	ePg	10:51:06.80	1.51
			eSg	51:15.60	-0.73
TRPA	96.7	95	ePg	10:51:08.07	-0.43
			eSg	51:21.61	-0.43
PSZ	105.7	252	eP*	10:51:11.08	1.05
			eS*	51:24.37	-0.40

87.

2016-04-04 time: 14:00:10.16 UTC ML= 0.7  
 lat: 48.000N lon: 20.159E h= 10.0 km  
 erh= 3.2km erz= 9.3km  
 nr= 6 gap=221 rms=0.30  
 Locality: Terpes  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PSZ	21.8	245	ePgD	14:00:14.23	-0.21
			eSg	00:17.88	0.11
KECS	58.9	24	ePg	14:00:20.70	-0.13
			eSg	00:29.60	0.44
IZAB	71.4	332	ePg	14:00:23.40	0.36
			eSg	00:32.60	-0.48

88.

2016-04-05 time: 6:08:30.44 UTC ML= 0.9  
 lat: 47.269N lon: 17.649E h= 18.9 km  
 erh= 1.5km erz= 1.3km  
 nr= 7 gap=132 rms=0.19  
 Locality: Homokbödöge  
 Comments:

sta	dist	azm	phase	hr mn sec	res
MPLH	13.8	217	ePg	6:08:34.49	-0.13
			eSg	08:38.05	0.17
EGYH	29.1	304	ePgD	6:08:36.45	-0.19
			eSg	08:41.57	0.10
PKST	29.2	92	ePg	6:08:36.72	0.08
			eSg	08:41.34	-0.14
PKSG	57.7	76	eS*	6:08:50.03	0.46

89.

2016-04-05 time: 7:07:29.32 UTC ML= 0.4  
 lat: 45.859N lon: 18.411E h= 0.0 km  
 erh= 2.1km erz= 294km  
 nr= 6 gap=261 rms=0.17  
 Locality: Nagyharsány  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	12.8	285	ePg	7:07:31.35	-0.25
			eSg	07:33.59	0.22
KOVH	35.1	317	ePg	7:07:35.67	0.08
			eSg	07:40.39	-0.09
PKSM	43.1	24	ePg	7:07:37.19	0.17
			eSg	07:42.88	-0.14

90.

2016-04-05 time: 8:20:22.76 UTC ML= 1.4  
 lat: 48.629N lon: 20.711E h= 0.0 km  
 erh= 1.9km erz= 3.7km  
 nr= 11 gap=156 rms=0.45  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.3	226	ePg	8:20:27.00	0.08

sta	dist	azm	phase	hr mn sec	res
CRVS	63.0	61	eSg	20:30.80	0.65
			ePg	8:20:34.10	0.09
			eSg	20:41.70	-1.08
IZAB	73.9	265	eSg	8:20:46.00	-0.27
PSZ	99.6	217	ePg	8:20:40.38	-0.17
			eSg	20:53.56	-0.87
LANS	108.0	302	ePg	8:20:42.50	0.44
			eSg	20:56.60	-0.50
VYHS	139.2	264	ePn	8:20:47.60	0.45
			eSn	21:04.50	-1.68

91.

2016-04-05 time: 8:53:02.94 UTC ML= 0.5  
 lat: 46.127N lon: 18.030E h= 3.2 km  
 erh= 0.5km erz= 0.6km  
 nr= 6 gap=292 rms=0.03  
 Locality: Hetvehely  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	6.9	128	ePg	8:53:04.27	-0.02
			eSg	53:05.36	0.02
PKSV	31.6	147	ePg	8:53:08.66	0.06
			eSg	53:12.99	-0.03
PKSM	48.1	79	ePg	8:53:11.52	-0.03
			eSg	53:18.28	0.01

92.

2016-04-06 time: 8:32:14.73 UTC ML= 1.7  
 lat: 48.606N lon: 20.749E h= 0.0 km  
 erh= 1.6km erz= 3.0km  
 nr= 12 gap=148 rms=0.37  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.8	235	ePg	8:32:18.90	-0.08
CRVS	61.8	58	ePg	8:32:25.80	0.04
			eSg	32:32.60	-1.78
IZAB	76.6	267	ePg	8:32:28.90	0.50
			eSg	32:39.10	0.03
PSZ	99.4	220	ePg	8:32:32.57	0.09
			eSg	32:45.69	-0.64
LANS	111.8	303	ePg	8:32:34.60	-0.09
			eSg	32:49.40	-0.86
KOLS	117.8	72	eSg	8:32:52.30	0.14
VYHS	141.8	265	ePn	8:32:39.60	0.16
			eSn	32:56.90	-1.82

93.

2016-04-07 time: 8:12:12.39 UTC ML= 0.4  
 lat: 47.196N lon: 18.306E h= 0.0 km  
 erh= 1.6km erz= 215km  
 nr= 6 gap=272 rms=0.13  
 Locality: Székesfehérvár  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.9	350	ePg	8:12:15.61	-0.15
			eSg	12:18.39	0.00
PKST	21.7	289	ePg	8:12:16.20	-0.06
			eSg	12:19.34	0.05
PKSG	22.7	16	ePg	8:12:16.68	0.24
			eSg	12:19.56	-0.04



## Földrengés paraméterek

## Hypocenter Parameters

94.

2016-04-07 time: 8:21:27.83 UTC ML= 1.6  
 lat: 47.908N lon: 19.400E h= 0.0 km  
 erh= 4.5km erz= \*\*\*km  
 nr= 8 gap=126 rms=1.05  
 Locality: Becske  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	15.8	214	ePgD	8:21:29.90	-0.76
			eSg	21:33.60	0.74
PSZ	36.9	88	ePgD	8:21:33.97	-0.46
			eSg	21:39.57	0.00
IZAB	77.0	18	ePg	8:21:42.90	1.32
			eSg	21:50.60	-1.71
VYHS	77.5	327	ePg	8:21:43.30	1.64
			eSg	21:51.50	-0.95

95.

2016-04-07 time: 8:53:46.79 UTC ML= 1.5  
 lat: 47.876N lon: 19.148E h= 0.0 km  
 erh= 1.6km erz= 386km  
 nr= 10 gap=208 rms=0.31  
 Locality: Nótincs  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	13.8	134	ePg	8:53:49.19	-0.07
			eSg	53:51.39	0.20
PSZ	56.0	85	ePgC	8:53:56.72	-0.08
			eSg	54:05.04	0.44
VYHS	72.5	341	ePg	8:54:00.30	0.56
			eSg	54:09.50	-0.34
IZAB	87.7	29	ePg	8:54:02.40	-0.06
			eSg	54:14.60	-0.07
KECS	120.2	56	ePg	8:54:08.10	-0.16
			eSg	54:24.10	-0.90

96.

2016-04-08 time: 7:33:19.17 UTC ML= 1.0  
 lat: 47.172N lon: 17.900E h= 15.8 km  
 erh= 4.2km erz= 3.6km  
 nr= 15 gap=137 rms=0.46  
 Locality: Eplény  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	14.0	46	ePg	7:33:22.36	-0.58
			eSg	33:25.72	-0.16
MPLH	27.4	270	ePg	7:33:25.11	0.30
			eSg	33:28.57	-0.64
CSKK	34.6	52	ePg	7:33:26.36	0.41
			eSg	33:31.30	0.05
PKSG	44.4	57	ePg	7:33:27.56	-0.03
			eSg	33:33.65	-0.50
PKB1	80.4	122	eP*	7:33:34.34	0.68
			eS*	33:44.98	0.02
PKB5	90.4	135	eS*	7:33:47.12	-0.55
MORH	120.5	152	ePn	7:33:39.25	0.04
			eSn	33:52.97	-1.88
PKSM	120.8	152	ePn	7:33:39.49	0.24
			eSn	33:52.54	-2.37*

97.

2016-04-08 time: 8:40:31.32 UTC ML= 0.6  
 lat: 46.279N lon: 18.199E h= 0.0 km  
 erh= 3.6km erz= \*\*\*km  
 nr= 8 gap=141 rms=0.82  
 Locality: Kisvaszar  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	22.6	200	ePg	8:40:36.04	0.69
			eSg	40:38.79	0.29
PKSM	34.9	102	ePg	8:40:38.28	0.72
			eSg	40:41.55	-0.87
MORH	35.0	102	ePg	8:40:38.21	0.63
			eSg	40:41.99	-0.47
PKSV	43.6	175	eSg	8:40:43.22	-1.97
TIH	72.9	341	eSg	8:40:53.82	-0.67

98.

2016-04-08 time: 9:42:07.01 UTC ML= 1.8  
 lat: 48.887N lon: 20.505E h= 0.0 km  
 erh= 2.5km erz= 864km  
 nr= 11 gap=157 rms=0.70  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	45.0	182	ePg	9:42:15.50	0.45
			eSg	42:21.00	-0.31
IZAB	68.2	239	eSg	9:42:28.50	-0.20
CRVS	70.1	89	ePg	9:42:20.10	0.56
			eSg	42:28.80	-0.50
LANS	81.3	291	eSg	9:42:33.10	0.23
PSZ	116.9	203	ePg	9:42:28.75	0.87
			eSg	42:43.28	-0.88
KOLS	129.7	88	eSg	9:42:47.20	-1.04
VYHS	130.4	250	ePg	9:42:30.60	0.29
			eSg	42:45.60	-2.88

99.

2016-04-11 time: 9:39:22.57 UTC ML= 0.9  
 lat: 47.197N lon: 18.317E h= 0.0 km  
 erh= 3.5km erz= 563km  
 nr= 8 gap=253 rms=0.41  
 Locality: Székesfehérvár  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	19.0	347	ePg	9:39:25.88	-0.08
			eSg	39:28.38	-0.22
PKSG	22.4	14	ePg	9:39:26.54	-0.03
			eSg	39:30.28	0.60
PKST	22.5	288	ePg	9:39:26.54	-0.04
			eSg	39:28.93	-0.78
MPLH	59.0	267	ePg	9:39:33.01	-0.09
			eSg	39:42.32	1.00

100.

2016-04-12 time: 5:08:28.27 UTC ML= 0.8  
 lat: 47.285N lon: 18.368E h= 0.0 km  
 erh= 3.6km erz= 527km  
 nr= 6 gap=255 rms=0.31  
 Locality: Magyaralmás  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	11.9	317	ePgD	5:08:30.54	0.14
			eSg	08:31.88	-0.17
PKSG	12.0	8	ePg	5:08:29.95	-0.46
			eSg	08:32.59	0.51
PKST	25.4	263	ePgD	5:08:33.01	0.19
			eSg	08:36.03	-0.33

## Hypocenter Parameters

## Földrengés paraméterek

101.

2016-04-12 time: 5:44:15.10 UTC ML= 0.4  
 lat: 47.457N lon: 18.217E h= 0.0 km  
 erh= 1.5km erz= 198km  
 nr= 5 gap=267 rms=0.10  
 Locality: Bokod  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	10.9	162	ePg	5:44:17.20	0.15
			eSg	44:18.52	-0.05
PKSG	15.0	119	ePg	5:44:17.72	-0.05
			eSg	44:19.92	0.07
PKST	26.0	212	ePg	5:44:19.63	-0.10

102.

2016-04-12 time: 6:40:38.00 UTC ML= 1.2  
 lat: 47.450N lon: 18.403E h= 0.0 km  
 erh= 3.4km erz= 416km  
 nr= 6 gap=316 rms=0.24  
 Locality: Várgesztes  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	6.5	188	ePgC	6:40:39.05	-0.12
			eSg	40:40.23	0.15
CSKK	14.5	228	ePg	6:40:40.32	-0.26
			eSg	40:42.53	-0.07
PKST	35.0	233	ePg	6:40:44.74	0.48
			eSg	40:49.09	-0.05

103.

2016-04-12 time: 9:42:52.66 UTC ML= 0.3  
 lat: 47.196N lon: 18.312E h= 0.0 km  
 erh= 1.1km erz= 152km  
 nr= 6 gap=273 rms=0.09  
 Locality: Székesfehérvár  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	19.0	348	ePg	9:42:55.93	-0.13
			eSg	42:58.68	-0.03
PKST	22.1	289	ePg	9:42:56.59	-0.03
			eSg	42:59.72	0.02
PKSG	22.6	15	ePg	9:42:56.86	0.16
			eSg	42:59.86	0.01

104.

2016-04-13 time: 8:21:27.91 UTC ML= 1.3  
 lat: 45.878N lon: 18.387E h= 0.0 km  
 erh= 3.3km erz= 527km  
 nr= 12 gap=248 rms=0.43  
 Locality: Kisharsány  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	10.5	276	ePg	8:21:29.50	-0.29
			eSg	21:30.87	-0.38
KOVH	32.2	316	ePg	8:21:33.80	0.14
			eSg	21:38.63	0.48
PKSM	42.0	28	ePgC	8:21:35.22	-0.19
			eSg	21:40.33	-0.92
MORH	42.5	28	ePg	8:21:35.27	-0.23
			eSg	21:41.22	-0.19
PKB4	70.7	14	ePg	8:21:40.70	0.16
PKS9	79.2	354	ePg	8:21:42.37	0.32
PKB5	84.1	19	ePg	8:21:44.02	1.10
PKB1	105.4	17	eSg	8:22:00.90	-0.52

105.

2016-04-18 time: 9:03:59.40 UTC ML= 0.5  
 lat: 46.136N lon: 18.075E h= 1.8 km  
 erh= 2.3km erz= 5.1km  
 nr= 8 gap=279 rms=0.23  
 Locality: Abaliget  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	5.6	160	ePgC	9:04:00.26	-0.19
			eSg	04:01.49	0.23
PKSV	30.7	153	ePg	9:04:04.63	-0.26
			eSg	04:09.36	0.19
PKSM	44.5	79	ePg	9:04:07.56	0.20
			eSg	04:13.15	-0.42
MORH	44.8	79	ePg	9:04:07.54	0.13
			eSg	04:13.88	0.22

106.

2016-04-18 time: 12:03:32.49 UTC ML= 1.8  
 lat: 48.634N lon: 20.729E h= 0.0 km  
 erh= 1.6km erz= 3.0km  
 nr= 11 gap=144 rms=0.40  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.6	227	ePg	12:03:36.80	-0.08
			eSg	03:40.70	0.40
CRVS	61.5	61	ePg	12:03:43.70	0.23
			eSg	03:51.90	-0.14
PSZ	100.9	218	ePg	12:03:50.57	0.08
			eSg	04:04.13	-0.41
LANS	108.9	302	ePg	12:03:52.50	0.57
			eSg	04:06.40	-0.70
KOLS	118.2	74	eSg	12:04:09.80	-0.27
VYHS	140.6	264	ePn	12:03:57.30	0.25
			eSn	04:14.90	-1.31

107.

2016-04-19 time: 6:50:57.98 UTC ML= 0.8  
 lat: 46.950N lon: 18.992E h= 1.1 km  
 erh= ---km erz= ---km  
 nr= 4 gap=288 rms=0.26  
 Locality: Dunavecse  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKB1	23.9	220	ePg	6:51:02.16	-0.09
			eSg	51:05.00	-0.59
PKB2	36.1	148	ePg	6:51:04.33	-0.09
PKSM	86.3	198	ePg	6:51:13.74	0.34

108.

2016-04-19 time: 11:42:22.32 UTC ML= 1.9  
 lat: 47.447N lon: 18.509E h= 9.1 km  
 erh= 1.1km erz= 1.1km  
 nr= 28 gap= 63 rms=0.52  
 Locality: Bodmér  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	10.9	236	ePgD	11:42:24.93	0.09
			eSg	42:26.70	-0.11
BUD	39.0	84	ePg	11:42:29.43	-0.04
			eSg	42:34.82	-0.23
PKST	41.5	240	ePg	11:42:29.61	-0.30
			eSg	42:35.96	0.13
PENC	69.5	57	ePg	11:42:34.19	-0.65
			eSg	42:44.59	-0.01

## Földrengés paraméterek

## Hypocenter Parameters

PKB1	76.8	164	ePg	11:42:36.52	0.40
			eSg	42:46.38	-0.50
MPLH	79.5	247	ePgc	11:42:36.51	-0.10
			eSg	42:48.30	0.54
EGYH	88.9	268	eSg	11:42:50.42	-0.30
PKB5	96.3	170	eSg	11:42:52.50	-0.56
PKB2	102.4	147	ePg	11:42:41.46	0.79
			eSg	42:55.00	0.01
PKB4	105.9	176	ePg	11:42:42.25	0.94
			eSg	42:54.86	-1.26
PSZ	116.5	63	ePn	11:42:42.52	-0.20
			eSn	42:58.11	-0.52
PKS2	118.9	153	eSn	11:43:00.40	1.23
VYHS	118.9	12	ePn	11:42:42.80	-0.22
			eSn	42:55.60	-3.57*
MORH	137.3	176	ePn	11:42:45.19	-0.12
			eSn	43:01.34	-1.90
PKSM	137.7	176	ePn	11:42:45.42	0.06
			eSn	43:01.19	-2.15
MODS	138.2	318	ePn	11:42:45.80	0.38
			eSn	43:03.80	0.36

109.

2016-04-22 time: 8:27:37.64 UTC ML= 1.6  
 lat: 48.628N lon: 20.718E h= 0.0 km  
 erh= 2.0km erz= 3.7km  
 nr= 11 gap=144 rms=0.59  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.5	227	ePg	8:27:41.70	-0.14
			eSg	27:45.70	0.58
CRVS	62.6	61	ePg	8:27:48.60	-0.21
PSZ	99.8	218	ePg	8:27:55.10	-0.36
			eSg	28:08.95	-0.42
LANS	108.6	302	ePg	8:27:57.40	0.37
			eSg	28:12.70	0.55
KOLS	119.2	73	ePg	8:27:59.90	0.98
			eSg	28:14.60	-0.93
VYHS	139.7	264	ePn	8:28:02.20	0.11
			eSn	28:19.50	-1.67

110.

2016-04-22 time: 8:38:44.57 UTC ML= 1.3  
 lat: 45.603N lon: 17.379E h= 8.1 km  
 erh= 7.8km erz= 2.1km  
 nr= 8 gap=341 rms=0.43  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	75.0	65	ePg	8:38:58.17	0.12
			eSg	39:08.18	-0.38
KOVH	77.8	46	ePg	8:38:59.09	0.55
			eSg	39:09.31	-0.12
PKSM	119.1	55	ePn	8:39:04.80	-0.62
			eSn	39:22.26	0.57
MORH	119.5	55	ePn	8:39:05.08	-0.40
			eSn	39:22.19	0.40

111.

2016-04-22 time: 9:15:29.55 UTC ML= 0.6  
 lat: 46.169N lon: 18.273E h= 12.7 km  
 erh= 1.2km erz= 2.2km  
 nr= 8 gap=203 rms=0.15  
 Locality: Mánfa  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	16.1	236	ePg	9:15:33.16	-0.05
			eSg	15:36.07	0.01

PKSM	28.8	80	ePgD	9:15:35.26	0.09
			eSg	15:39.20	-0.35
MORH	29.1	80	ePg	9:15:35.24	0.02
			eSg	15:40.01	0.37
PKSV	31.2	183	ePg	9:15:35.43	-0.13
			eSg	15:40.29	0.04

112.

2016-04-23 time: 9:04:35.79 UTC ML= 0.7  
 lat: 46.189N lon: 18.223E h= 19.8 km  
 erh= 2.7km erz= 3.1km  
 nr= 8 gap=224 rms=0.30  
 Locality: Sikonda  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	14.7	221	ePg	9:04:40.49	0.29
			eSg	04:43.36	-0.27
PKSM	32.4	85	ePg	9:04:42.24	-0.33
			eSg	04:48.17	0.31
MORH	32.6	85	ePg	9:04:42.33	-0.28
			eSg	04:48.25	0.32
PKSV	33.4	176	ePg	9:04:43.01	0.28
			eSg	04:47.86	-0.29

113.

2016-04-25 time: 5:54:05.93 UTC ML= 2.4  
 lat: 46.416N lon: 17.097E h= 12.8 km  
 erh= 2.4km erz= 2.1km  
 nr= 52 gap=125 rms=1.13  
 Locality: Sand  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOGS	65.1	273	iPg	5:54:17.68	-0.10
			iSg	54:28.44	1.41
TIH	81.3	49	ePg	5:54:17.98	-2.65
			eSg	54:29.38	-2.71
KOVH	85.5	115	ePg	5:54:21.94	0.57
			eSg	54:31.31	-2.11
MPLH	90.4	22	eP*	5:54:21.76	-0.47
			eS*	54:34.04	-0.90
PKS9	92.7	78	eP*	5:54:23.37	0.78
			eS*	54:36.23	0.65
PKSV	106.8	123	ePn	5:54:24.90	0.25
			eSn	54:38.79	-0.46
EGYH	112.7	9	ePn	5:54:26.25	0.87
			eSn	54:41.54	0.99
PKB4	116.1	86	ePn	5:54:27.36	1.55
			eSn	54:41.58	0.26
PKST	117.9	37	ePn	5:54:26.31	0.28
			eSn	54:41.15	-0.55
PKSM	121.1	101	ePn	5:54:26.05	-0.39
			eSn	54:41.05	-1.38
MORH	121.3	101	ePn	5:54:26.12	-0.33
			eSn	54:40.95	-1.51
GOLS	122.2	248	iPn	5:54:26.47	-0.10
GROS	122.7	272	iPn	5:54:26.27	-0.35
			iSn	54:41.15	-1.61
PKB5	127.4	81	ePn	5:54:26.53	-0.68
			eSn	54:42.20	-1.61
DOBS	128.9	257	iPn	5:54:26.99	-0.41
PKB1	136.2	73	ePn	5:54:27.75	-0.56
			eSn	54:43.75	-2.02
CSKK	137.7	40	ePn	5:54:29.73	1.24
			eSn	54:46.82	0.73
PKSG	146.6	42	ePn	5:54:30.64	1.03
			eSn	54:47.02	-1.05
SOP	146.7	344	ePn	5:54:31.02	1.40
			eSn	54:46.96	-1.13
PERS	153.9	279	iPn	5:54:30.31	-0.20
SOKA	160.9	280	Pn	5:54:31.28	-0.12
			Sn	54:50.91	-0.35

## Hypocenter Parameters

## Földrengés paraméterek

PKB3 161.3 90 eSn 5:54:50.14 -1.20  
 PKS2 162.8 87 eSn 5:54:55.62 3.94  
 PDKS 166.6 256 iPn 5:54:32.00 -0.11  
 PKB2 167.0 80 ePn 5:54:37.13 4.97  
 eSn 54:55.13 2.52  
 PKS7 172.7 66 eSn 5:54:58.51 4.64  
 CONA 192.4 331 Pn 5:54:37.13 1.81  
 ZST 197.9 0 ePn 5:54:36.90 0.90  
 eSn 54:57.40 -2.06  
 MODS 218.0 4 ePn 5:54:39.30 0.78  
 eSn 55:02.00 -1.94  
 VYHS 265.7 30 ePn 5:54:45.70 1.25  
 eSn 55:12.50 -2.00  
 KHC 400.8 319 ePn 5:55:03.40 2.09\*  
 eSn 55:44.50 0.00\*  
 KRLC 407.5 357 ePn 5:55:03.70 1.55\*

114.

2016-04-25 time: 8:48:37.39 UTC ML= 1.1  
 lat: 47.721N lon: 18.406E h= 0.0 km  
 erh= 4.8km erz= \*\*\*km  
 nr= 10 gap=161 rms=0.99  
 Locality: Dunaszentmiklós  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
SRO2	4.7	349	ePg	8:48:37.40			-0.83
			eSg	48:39.60			0.72
SRO	12.4	326	ePg	8:48:40.00			0.40
			eSg	48:43.50			2.18
PKSG	36.6	182	ePg	8:48:44.49			0.56
			eSg	48:49.22			0.18
VYHS	91.7	20	ePg	8:48:53.90			0.14
			eSg	49:03.70			-2.84
MODS	111.1	311	ePg	8:48:56.90			-0.33
			eSg	49:11.70			-1.00

115.

2016-04-25 time: 9:32:30.33 UTC ML= 0.3  
 lat: 47.186N lon: 18.307E h= 0.0 km  
 erh= 2.3km erz= 312km  
 nr= 6 gap=276 rms=0.18  
 Locality: Székesfehérvár  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	20.0	350	ePg	9:32:33.96			0.06
			eSg	32:36.92			0.23
PKST	22.2	291	ePg	9:32:34.29			0.00
			eSg	32:37.19			-0.19
PKSG	23.7	16	ePg	9:32:34.69			0.12
			eSg	32:37.46			-0.42

116.

2016-04-25 time: 10:28:23.03 UTC ML= 3.6  
 lat: 48.055N lon: 16.114E h= 9.1 km  
 erh= 1.4km erz= 1.3km  
 nr= 77 gap= 56 rms=0.86  
 Locality: Austria  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CONA	23.5	233	Pg	10:28:27.53			0.00
			Sg	28:30.42			-0.62
SOP	53.0	141	ePgC	10:28:32.99			0.36
			eSg	28:39.86			-0.26
ARSA	99.8	206	Pg	10:28:39.98			-0.95
			Sg	28:52.81			-2.08
EGYH	115.6	128	ePnC	10:28:43.69			0.38
			eSn	28:59.29			0.15
MOA	139.9	261	Pn	10:28:46.25			-0.10
			Sn	29:03.38			-1.16

VRAC	143.8	14	PnD	10:28:46.47			-0.36
			Sn	29:03.40			-2.00
MPLH	145.4	133	ePnC	10:28:47.19			0.16
			eSn	29:04.42			-1.34
TREC	145.4	341	ePn	10:28:46.70			-0.34
			eSn	29:02.20			-3.56
PKST	169.2	122	ePnC	10:28:50.15			0.15
			eSn	29:10.11			-0.92
SOKA	173.5	208	Pn	10:28:51.55			1.02
			Sn	29:11.93			-0.06
CSKK	178.5	116	ePnC	10:28:51.15			0.00
			eSn	29:12.28			-0.81
KOGS	178.9	177	ePn	10:28:51.76			0.55
			eSn	29:11.67			-1.52
PKSG	186.0	113	ePnC	10:28:52.11			0.02
			eSn	29:13.15			-1.61
OBKA	208.7	215	Pn	10:28:56.35			1.43
MORC	218.3	29	PnC	10:28:55.91			-0.21
KHC	222.1	303	ePn	10:28:57.40			0.81
			eSn	29:22.60			-0.18
BUD	227.2	106	ePnC	10:28:57.31			0.09
			eSn	29:23.22			-0.68
KRLC	230.0	12	ePn	10:28:57.80			0.23
			eSn	29:23.40			-1.12
PKS9	231.1	135	ePnC	10:28:58.38			0.67
			eSn	29:34.29			9.52*
KBA	235.0	242	Pn	10:29:00.13			1.93
			Sn	29:26.57			0.93
PENC	238.5	97	ePnD	10:28:59.26			0.62
			eSn	29:26.13			-0.29
PTJ	239.8	183	ePn	10:29:00.05			1.25
			eSn	29:24.33			-2.38
VNDS	242.2	206	iPn	10:29:00.77			1.67
PRU	243.9	332	ePn	10:28:59.40			0.09
			eSn	29:26.40			-1.21
MYKA	245.0	230	Pn	10:29:00.88			1.43
			Sn	29:29.61			1.76
PKB1	246.5	125	ePnC	10:28:59.77			0.13
			eSn	29:27.76			-0.44
OKC	248.0	37	ePn	10:28:59.90			0.08
PKS7	255.2	116	ePnD	10:29:01.32			0.60
DPC	255.7	3	ePn	10:29:00.80			0.01
			eSn	29:32.70			2.46
PKB4	255.9	133	ePnC	10:29:01.02			0.21
			eSn	29:28.23			-2.05
PKB5	256.1	129	ePnC	10:29:00.96			0.12
			eSn	29:28.05			-2.28
KOVH	265.6	145	ePnC	10:29:02.19			0.18
			eSn	29:29.37			-3.05
CADS	271.6	222	iPn	10:29:04.46			1.69
			eSn	29:32.20			-1.56
UPC	272.9	358	ePn	10:29:02.80			-0.13
			eSn	29:37.70			3.65*
MORH	280.4	137	ePnC	10:29:03.93			0.07
			eSn	29:32.50			-3.22*
PKSM	280.6	137	ePnC	10:29:03.93			0.04
			eSn	29:32.87			-2.89*
PKB2	281.7	123	ePn	10:29:04.29			0.26
			eSn	29:32.57			-3.44*
ROBS	282.0	224	ePn	10:29:06.07			2.00
			eSn	29:36.02			-0.05
PSZ	282.6	93	ePnD	10:29:04.24			0.10
			eSn	29:35.41			-0.79
PKSV	290.6	146	ePnC	10:29:05.57			0.43
			eSn	29:36.85			-1.13*
BOJS	291.1	193	iPn	10:29:06.17			0.98
PKB3	295.4	128	ePn	10:29:05.93			0.19
			eSn	29:35.23			-3.82*
PVCC	297.2	338	ePn	10:29:06.10			0.14
PKS6	306.9	122	ePn	10:29:05.41			-1.76*
			eSn	29:39.12			-2.47*
ABTA	308.3	242	Pn	10:29:13.55			6.21*
			Sn	29:49.99			8.08*
PKSN	310.8	114	ePn	10:29:08.26			0.61*
			eSn	29:45.17			2.71*

**Földrengés paraméterek**

SKDS	321.6	210	iPn	10:29:10.73	1.72*
BSZH	322.9	105	ePn	10:29:09.52	0.35*
			eSn	29:44.54	-0.62*
WTTA	347.7	255	Pn	10:29:14.14	1.89*
WATA	349.9	257	Pn	10:29:14.27	1.74*
			Sn	30:00.53	9.39*
NKC	360.9	312	ePn	10:29:14.00	0.10*
			eSn	30:04.10	10.51*
SQTA	380.1	256	Pn	10:29:17.43	1.13*
			Sn	29:58.59	0.74*
MOTA	384.3	258	Pn	10:29:17.16	0.34*
			Sn	30:12.07	13.30*
RETA	406.1	261	Pn	10:29:30.97	11.43*
FETA	421.4	254	Pn	10:29:23.26	1.81*
FRGS	430.7	139	PnC	10:29:21.73	-0.88*
SIRR	465.1	115	PnC	10:29:26.73	-0.16*
DAVA	475.9	260	Pn	10:29:29.30	1.06*
			Sn	30:18.09	-1.02*
TRPA	478.7	89	PnC	10:29:27.74	-0.85*
BZS	499.7	123	PnC	10:29:31.09	-0.11*
DRGR	517.2	106	PnC	10:29:33.66	0.27*
MDVR	563.6	130	PnC	10:29:39.15	-0.02*
GZR	589.0	120	PnD	10:29:43.61	1.26*
HERR	599.0	126	PnC	10:29:43.64	0.06*
ARCR	629.3	100	PnC	10:29:46.93	-0.43*
BURA	683.2	94	PnC	10:29:54.38	0.29*
ARR	716.7	115	PnC	10:29:58.41	0.15*
VOIR	742.2	113	PnC	10:30:02.58	1.13*
PLOR	838.6	107	PnC	10:30:13.46	0.00*
VRI	843.7	107	PnC	10:30:14.26	0.16*

117.

2016-04-25 time: 10:49:37.51 UTC ML= 1.7  
 lat: 48.017N lon: 16.054E h= 13.1 km  
 erh= 2.4km erz= 1.6km  
 nr= 16 gap=112 rms=0.70  
 Locality: Austria  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CONA	17.4	236	Pg	10:49:41.36	-0.05
			Sg	49:45.06	0.61
SOP	52.9	135	ePg	10:49:47.55	0.31
			eSg	49:53.99	-0.85
ARSA	94.1	205	P*	10:49:54.05	-0.29
			S*	50:06.70	-0.77
EGYH	116.8	125	eSn	10:50:13.65	0.70
MOA	134.9	262	Pn	10:50:00.42	0.73
			Sn	50:17.44	0.45
TREC	148.1	344	ePn	10:50:00.50	-0.84
			eSn	50:17.00	-2.92
KHC	220.8	304	ePn	10:50:11.10	0.71
			eSn	50:36.10	0.06
KRLC	235.0	13	eSn	10:50:37.30	-1.90
PRU	245.6	333	eSn	10:50:40.40	-1.15
DPC	260.2	4	eSn	10:50:47.30	2.50
UPC	277.0	359	eSn	10:50:52.60	4.08*
PVCC	299.5	339	eSn	10:50:59.60	6.09*

118.

2016-04-26 time: 3:40:50.90 UTC ML= 1.5  
 lat: 48.046N lon: 16.146E h= 7.9 km  
 erh= 1.9km erz= 1.6km  
 nr= 29 gap= 65 rms=0.87  
 Locality: Austria  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CONA	24.9	238	Pg	3:40:55.88	0.31
			Sg	40:59.49	0.28
SOP	50.7	143	ePg	3:40:59.92	-0.15
			eSg	41:09.71	2.49
ZST	73.1	77	eSg	3:41:14.10	-0.19

**Hypocenter Parameters**

MODS	91.6	67	ePg	3:41:07.10	-0.23
			eSg	41:19.50	-0.64
ARSA	100.0	208	Pg	3:41:08.50	-0.32
			Sg	41:21.05	-1.75
SMOL	108.5	61	ePg	3:41:11.20	0.87
			eSg	41:25.70	0.22
EGYH	113.1	128	eSn	3:41:27.01	0.28
MOA	142.1	261	Pn	3:41:14.95	0.30
			Sn	41:31.87	-1.30
TREC	147.2	341	ePn	3:41:14.90	-0.38
			eSn	41:31.70	-2.59
SRO	164.0	99	eSn	3:41:37.60	-0.42
SOKA	173.8	209	Pn	3:41:20.37	1.78
			Sn	41:40.64	0.45
VYHS	205.8	76	eSn	3:41:45.90	-1.41
KHC	224.6	303	ePn	3:41:26.30	1.36
			eSn	41:50.90	-0.58
KRLC	230.5	12	ePn	3:41:25.80	0.14
			eSn	41:51.50	-1.27
PRU	245.9	331	ePn	3:41:27.60	0.02
			eSn	41:55.10	-1.10
DPC	256.6	3	ePn	3:41:32.40	3.48
			eSn	42:01.70	3.12*
UPC	274.0	358	eSn	3:42:06.30	3.87*
PVCC	299.0	337	eSn	3:42:14.10	6.11*
NKC	363.3	312	eSn	3:42:33.80	11.53*

119.

2016-04-26 time: 7:53:59.00 UTC ML= 0.3  
 lat: 47.167N lon: 18.223E h= 0.0 km  
 erh= 0.5km erz=65.8km  
 nr= 6 gap=279 rms=0.04  
 Locality: Ősi  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	17.6	306	ePg	7:54:02.18	0.04
			eSg	54:04.56	-0.04
CSKK	22.0	7	ePg	7:54:02.89	-0.04
			eSg	54:05.98	-0.02
PKSG	28.1	27	ePg	7:54:04.01	0.00
			eSg	54:07.99	0.07

120.

2016-04-26 time: 8:33:28.34 UTC ML= 0.1  
 lat: 47.211N lon: 18.221E h= 0.0 km  
 erh= 1.7km erz= 218km  
 nr= 6 gap=258 rms=0.13  
 Locality: Csőr  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	15.1	291	ePg	8:33:30.96	-0.07
			eSg	33:33.13	0.00
CSKK	17.2	10	ePg	8:33:31.61	0.21
			eSg	33:33.72	-0.07
PKSG	23.8	33	ePg	8:33:32.66	0.06
			eSg	33:35.68	-0.24

121.

2016-04-28 time: 9:16:53.71 UTC ML= 0.3  
 lat: 46.022N lon: 18.368E h= 0.0 km  
 erh= 4.0km erz= 352km  
 nr= 6 gap=244 rms=0.22  
 Locality: Hásságy  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	22.0	289	ePg	9:16:57.51	-0.13
			eSg	17:00.64	-0.07
PKSM	29.8	45	ePg	9:16:58.93	-0.10
			eSg	17:03.26	0.07

## Hypocenter Parameters

MORH 30.3 45 ePg 9:16:59.57 0.45  
eSg 17:03.13 -0.21

122.

2016-04-28 time: 9:22:18.16 UTC ML= 0.2  
lat: 47.183N lon: 18.295E h= 0.0 km  
erh= 2.1km erz= 274km  
nr= 6 gap=276 rms=0.17  
Locality: Sárkeszi  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	20.2	353	ePgC	9:22:21.70	-0.08
			eSg	22:24.47	-0.12
PKST	21.5	293	ePg	9:22:21.89	-0.11
			eSg	22:25.17	0.18
PKSG	24.3	17	ePg	9:22:22.82	0.31
			eSg	22:25.78	-0.12

123.

2016-04-28 time: 9:34:54.34 UTC ML= 0.8  
lat: 47.198N lon: 18.315E h= 0.0 km  
erh= 3.7km erz= 591km  
nr= 8 gap=252 rms=0.43  
Locality: Székesfehérvár  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.9	347	ePg	9:34:57.28	-0.43
			eSg	35:00.24	-0.10
PKSG	22.3	15	ePgD	9:34:58.38	0.05
			eSg	35:01.99	0.55
PKST	22.3	288	ePgD	9:34:57.90	-0.43
			eSg	35:00.98	-0.46
MPLH	58.9	267	ePg	9:35:05.36	0.50
			eSg	35:13.78	0.72

124.

2016-04-28 time: 11:15:44.64 UTC ML= 2.1  
lat: 48.418N lon: 17.275E h= 0.0 km  
erh= 2.4km erz= 2.1km  
nr= 30 gap=153 rms=0.88  
Locality: Slovakia  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MODS	5.0	178	ePg	11:15:46.00	0.47
			eSg	15:47.70	1.48
SMOL	15.6	47	ePg	11:15:47.70	0.28
			eSg	15:51.30	1.71
ZST	27.8	207	ePg	11:15:49.30	-0.31
			eSg	15:53.20	-0.28
SOP	97.6	213	ePg	11:16:02.82	0.74
			eSg	16:15.22	-0.45
EGYH	111.4	178	ePg	11:16:05.12	0.59
			eSg	16:19.04	-1.01
VYHS	115.8	86	ePg	11:16:04.60	-0.72
			eSg	16:21.60	0.15
CONA	118.4	243	Pg	11:16:04.72	-1.06
			Sg	16:21.26	-1.01
CSKK	138.5	148	ePn	11:16:10.09	1.14
			eSn	16:27.40	-0.51
MPLH	140.2	172	ePn	11:16:10.01	0.86
			eSn	16:26.63	-1.64
PKST	140.9	156	ePn	11:16:07.86	-1.38
			eSn	16:28.50	0.07
PKSG	141.4	144	ePn	11:16:08.70	-0.60
			eSn	16:27.64	-0.90
ARSA	184.5	225	Pn	11:16:16.26	1.57
			Sn	16:37.88	-0.24
MOA	232.7	254	Pn	11:16:21.01	0.32
			Sn	16:50.36	1.54

## Földrengés paraméterek

MORH 265.8 157 ePn 11:16:23.96 -0.86  
eSn 16:54.34 -1.82  
PKSM 266.2 157 ePn 11:16:24.17 -0.69  
eSn 16:54.07 -2.17

125.

2016-04-28 time: 11:49:50.02 UTC ML= 1.5  
lat: 47.846N lon: 19.428E h= 0.0 km  
erh= 3.2km erz= 805km  
nr= 6 gap=163 rms=0.47  
Locality: Galgaguta  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	12.6	240	ePgC	11:49:51.91	-0.36
			eSg	49:55.45	1.42
PSZ	35.8	77	ePgC	11:49:56.18	-0.23
			eSg	50:01.92	0.53
VYHS	84.4	329	ePg	11:50:05.10	0.01
			eSg	50:16.70	-0.15

126.

2016-04-29 time: 4:41:28.63 UTC ML= 2.0  
lat: 47.239N lon: 19.228E h= 15.0 km  
erh= 1.5km erz= 1.2km  
nr= 47 gap= 51 rms=0.83  
Locality: Bugyi  
Comments:

sta	dist	azm	phase	hr mn sec	res
PKS7	21.9	193	ePgD	4:41:32.90	-0.47
			eSg	41:37.00	-0.07
BUD	31.3	330	ePg	4:41:35.20	0.37
			eSg	41:39.08	-0.58
PKB1	60.4	213	ePg	4:41:39.19	-0.56
			eSg	41:50.50	2.07
PENC	61.5	4	ePg	4:41:38.56	-1.37
			eSg	41:46.26	-2.48
PKSN	61.7	128	ePg	4:41:40.72	0.76
			eSg	41:50.80	2.00
PKB2	62.8	179	ePg	4:41:40.50	0.34
			eSg	41:49.24	0.09
PKSG	65.6	285	ePgD	4:41:41.26	0.62
			eSg	41:48.81	-1.20
CSKK	74.5	281	ePg	4:41:43.14	0.94
			eSg	41:52.16	-0.62
PKS6	75.5	160	ePg	4:41:42.93	0.55
			eSg	41:53.84	0.73
BSZH	78.9	85	ePg	4:41:42.89	-0.09
			eSg	41:54.01	-0.15
PKB5	80.8	208	eP*	4:41:43.44	0.17
			eS*	41:54.62	-0.07
PKS2	83.0	181	eS*	4:41:55.08	-0.21
			eP*	4:41:45.13	0.40
PKST	90.4	271	eS*	41:55.89	-1.40
			eP*	4:41:44.77	0.00
PKB3	90.6	182	eS*	41:57.04	-0.31
			eP*	4:41:43.55	-1.22
PSZ	90.7	34	eS*	41:54.82	-2.54
			eP*	4:41:45.03	-0.44
PKB4	95.3	210	eS*	41:58.62	0.01
			ePn	4:41:46.12	-0.40
PKS9	102.4	225	eSn	42:00.58	0.11
			ePnD	4:41:48.31	-0.68
MORH	122.2	201	eSn	42:02.93	-1.93
			ePn	4:41:48.37	-0.68
PKSM	122.7	201	eSn	42:03.68	-1.29
			ePn	4:41:51.01	1.28
MPLH	128.2	267	eSn	42:07.87	1.68
			ePn	4:41:52.20	0.67
VYHS	142.6	348	eSn	42:08.10	-1.30
			ePn	4:42:11.16	1.30
EGYH	144.7	278	eSn	4:41:52.35	-0.65
			ePnD	4:41:52.35	-0.65
KOVH	154.3	214	ePn	4:41:52.35	-0.65
			ePnD	4:41:52.35	-0.65

## Földrengés paraméterek

KECS 167.3 34 eSn 42:13.96 1.96  
 ePn 4:41:56.40 1.78  
 MODS 193.1 311 eSn 42:15.60 0.72  
 ePn 4:41:58.30 0.47

127.

2016-04-29 time: 8:20:18.91 UTC ML= 1.5  
 lat: 48.625N lon: 20.708E h= 0.0 km  
 erh= 2.5km erz= 3.7km  
 nr= 10 gap=157 rms=0.58  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	22.8	226	ePg	8:20:23.10			0.12
			eSg	20:27.00			0.84
CRVS	63.3	61	ePg	8:20:30.20			-0.01
			eSg	20:38.30			-0.74
PSZ	99.2	218	ePg	8:20:36.65			0.04
			eSg	20:49.55			-0.88
LANS	108.1	303	ePg	8:20:38.90			0.69
			eSg	20:52.70			-0.57
VYHS	139.0	264	ePn	8:20:43.90			0.63
			eSn	21:01.40			-0.87

128.

2016-04-30 time: 0:15:05.13 UTC ML= 2.4  
 lat: 46.537N lon: 21.205E h= 5.4 km  
 erh= 2.0km erz= 2.0km  
 nr= 62 gap= 62 rms=1.33  
 Locality: Kétegyháza  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
SIRR	46.1	131	PgD	0:15:13.36			-0.05
			Sg	15:19.40			-0.47
TIM	89.0	179	Sg	0:15:33.40			-0.07
BZS	107.2	163	PgC	0:15:23.44			-0.85
			Sg	15:36.90			-2.34
LTVH	108.1	29	ePg	0:15:24.51			0.06
			eSg	15:38.59			-0.93
PKSN	109.8	291	ePg	0:15:25.23			0.46
			eSg	15:39.51			-0.57
BSZH	110.9	320	ePg	0:15:26.30			1.35
			eSg	15:43.48			3.07
DRGR	118.7	76	PnD	0:15:25.41			-0.86
			Sn	15:40.10			-2.66
PKS6	126.0	273	ePn	0:15:26.25			-0.93
			eSn	15:45.34			0.96
BANR	128.5	182	PnD	0:15:28.26			0.77
			Sn	15:42.80			-2.13
DEV	149.9	119	PnC	0:15:30.70			0.54
			Sn	15:49.10			-0.58
PKB2	151.2	276	ePn	0:15:29.83			-0.49
			eSn	15:51.61			1.64
PKS2	153.0	268	ePn	0:15:29.82			-0.72
			eSn	15:52.56			2.19
PKB3	154.9	265	ePn	0:15:29.83			-0.96
			eSn	15:52.34			1.54
CEI	159.2	37	Sn	0:15:52.90			1.16
PKS7	166.1	290	ePn	0:15:31.96			-0.22
			eSn	15:57.35			4.07
GZR	176.1	136	PnD	0:15:35.31			1.88
			Sn	15:55.80			0.30
PSZ	182.8	327	ePn	0:15:33.89			-0.38
			eSn	15:54.14			-2.86
CJR	184.3	84	PnC	0:15:36.17			1.71
			Sn	15:57.50			0.17
PKB1	186.7	278	ePn	0:15:33.91			-0.84
			eSn	15:56.29			-1.57
PKB5	189.4	272	eSn	0:16:02.82			4.35
FRGS	189.8	215	PnD	0:15:37.45			2.31
			Sn	15:59.80			1.25

58

## Hypocenter Parameters

MDVR 199.1 169 PnD 0:15:38.44 2.14  
 Sn 16:01.20 0.58  
 PKB4 199.7 269 ePn 0:15:35.55 -0.82  
 eSn 16:05.01 4.27  
 MORH 200.3 260 ePn 0:15:34.99 -1.45  
 eSn 15:57.29 -3.57  
 PKSM 200.6 260 ePn 0:15:35.66 -0.82  
 eSn 15:57.19 -3.74  
 PENC 201.7 314 ePn 0:15:36.29 -0.33  
 HERR 206.8 153 PnC 0:15:38.34 1.08  
 Sn 16:04.40 2.07  
 LOT 232.7 121 PnC 0:15:42.29 1.80  
 Sn 16:09.50 1.44  
 PKSG 234.3 294 ePn 0:15:40.04 -0.65  
 eSn 16:04.67 -3.76  
 CSKK 242.2 292 ePn 0:15:41.00 -0.68  
 KOVH 244.3 258 ePn 0:15:41.64 -0.30  
 eSn 16:15.84 5.19\*  
 MDB 248.4 100 Sn 0:16:12.10 0.55  
 TIH 256.4 279 ePn 0:15:39.78 -3.67  
 SRO 261.1 303 ePn 0:15:44.60 0.57  
 VYHS 281.4 321 ePn 0:15:46.60 0.04  
 MPLH 288.3 284 ePn 0:15:47.57 0.15  
 EGYH 310.5 288 ePn 0:15:50.18 -0.01\*  
 VOIR 322.0 112 PnD 0:15:53.43 1.81\*  
 Sn 16:28.80 0.91\*

129.

2016-05-01 time: 2:08:04.39 UTC ML= 0.7  
 lat: 47.203N lon: 17.445E h= 8.8 km  
 erh= 1.4km erz= 1.4km  
 nr= 6 gap=223 rms=0.10  
 Locality: Bakonyöplöske  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
MPLH	8.0	117	ePgC	2:08:06.47			-0.05
			eSg	08:08.25			0.06
EGYH	25.3	340	ePgD	2:08:09.14			-0.03
			eSg	08:12.90			0.00
PKST	45.0	82	ePg	2:08:12.77			0.19
			eSg	08:18.81			-0.16

130.

2016-05-01 time: 22:23:08.28 UTC ML= 1.3  
 lat: 48.650N lon: 18.631E h= 10.0 km  
 erh= 4.1km erz= 4.1km  
 nr= 10 gap=148 rms=0.89  
 Locality: Slovakia  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
VYHS	23.1	139	ePg	22:23:13.10			0.33
			eSg	23:14.90			-1.37
LANS	82.9	48	ePg	22:23:23.90			0.72
			eSg	23:32.00			-2.80
SMOL	90.0	260	eSg	22:23:37.10			0.05
SRO	96.0	194	ePg	22:23:25.80			0.29
MODS	104.6	253	eP*	22:23:26.50			-0.50
			eS*	23:40.30			-1.31
PSZ	124.2	131	ePn	22:23:30.50			0.98
			eSn	23:43.77			-2.32

131.

2016-05-02 time: 8:26:42.82 UTC ML= 1.3  
 lat: 48.543N lon: 19.369E h= 0.0 km  
 erh= 1.7km erz= 554km  
 nr= 8 gap=111 rms=0.39  
 Locality: Slovakia  
 Comments: probably explosion

## Hypocenter Parameters

## Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
VYHS	39.8	262	ePg	8:26:49.90	-0.02
			eSg	26:54.80	-0.66
LANS	67.9	6	ePg	8:26:55.40	0.45
			eSg	27:04.30	-0.12
PSZ	79.7	151	ePg	8:26:57.51	0.46
			eSg	27:08.34	0.19
KECS	82.7	95	ePg	8:26:57.50	-0.10
			eSg	27:08.40	-0.72

132.

2016-05-03 time: 8:45:47.00 UTC ML= 1.7  
 lat: 48.417N lon: 19.143E h= 0.0 km  
 erh= 2.6km erz= 697km  
 nr= 8 gap=155 rms=0.49  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	24.3	291	ePg	8:45:51.40	0.07
			eSg	45:54.50	-0.21
PENC	70.4	172	ePg	8:45:59.74	0.17
			eSg	46:07.71	-1.67
PSZ	78.7	135	ePg	8:46:01.65	0.59
			eSg	46:12.19	0.17
KECS	99.6	86	ePg	8:46:04.90	0.12
			eSg	46:18.00	-0.65

133.

2016-05-03 time: 11:25:03.69 UTC ML= 0.9  
 lat: 47.173N lon: 18.340E h= 1.0 km  
 erh= 2.4km erz=80.9km  
 nr= 10 gap=180 rms=0.45  
 Locality: Székesfehérvár  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	22.0	344	ePg	11:25:07.21	-0.41
			eSg	25:10.38	-0.32
PKSG	24.7	9	ePg	11:25:08.33	0.23
			eSg	25:11.86	0.33
PKST	25.1	293	ePg	11:25:07.87	-0.30
			eSg	25:10.98	-0.69
MPLH	60.7	270	ePg	11:25:15.14	0.61
			eSg	25:23.54	0.55
KOVH	121.9	189	ePg	11:25:25.07	-0.39
			eSg	25:42.98	0.53

134.

2016-05-04 time: 8:40:15.91 UTC ML= 1.8  
 lat: 48.593N lon: 20.758E h= 0.0 km  
 erh= 2.4km erz= 3.0km  
 nr= 10 gap=149 rms=0.41  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.6	239	ePg	8:40:20.10	-0.02
			eSg	40:24.20	0.80
CRVS	62.1	56	ePg	8:40:26.90	-0.10
			eSg	40:34.90	-0.75
PSZ	98.7	221	ePg	8:40:33.66	0.12
			eSg	40:46.55	-0.74
LANS	113.2	303	ePg	8:40:35.90	-0.22
			eSg	40:49.20	-2.68*
KOLS	117.6	71	eSg	8:40:53.80	0.50
			ePn	8:40:40.80	0.10
VYHS	142.4	266	ePn	8:40:40.80	0.10
			eSn	40:59.20	-0.83

135.

2016-05-04 time: 11:00:30.94 UTC ML= 1.9  
 lat: 48.910N lon: 20.893E h= 0.0 km  
 erh= 1.8km erz= 2.3km  
 nr= 11 gap=164 rms=0.44  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CRVS	41.7	91	ePg	11:00:38.30	-0.08
			eSg	00:43.40	-0.79
KECS	56.1	212	ePg	11:00:41.40	0.44
			eSg	00:48.50	-0.27
KOLS	101.2	89	ePg	11:00:49.40	0.39
			eSg	01:03.20	0.09
LANS	107.6	284	ePg	11:00:50.50	0.34
			eSg	01:05.00	-0.14
PSZ	132.7	214	ePn	11:00:54.81	0.29
			eSn	01:12.25	-0.67
VYHS	158.3	253	eSn	11:01:17.20	-1.39

136.

2016-05-05 time: 10:26:30.93 UTC ML= 1.3  
 lat: 47.870N lon: 19.396E h= 10.0 km  
 erh= 8.8km erz=20.0km  
 nr= 6 gap=142 rms=0.80  
 Locality: Bercel  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PENC	12.3	224	ePg	10:26:33.61	-0.15
			eSg	26:36.24	0.27
PSZ	37.7	82	ePgD	10:26:37.66	-0.23
			eSg	26:43.31	0.00
VYHS	80.9	329	ePg	10:26:46.80	1.31
			eSg	26:55.10	-1.75

137.

2016-05-05 time: 10:30:56.28 UTC ML= 1.9  
 lat: 48.872N lon: 20.479E h= 6.0 km  
 erh= 3.6km erz= 4.0km  
 nr= 11 gap=154 rms=0.92  
 Locality: Slovakia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	43.3	179	ePg	10:31:04.40	0.32
			eSg	31:09.80	-0.37
CRVS	72.1	87	ePg	10:31:09.10	-0.11
			eSg	31:17.70	-1.59
LANS	80.2	293	eSg	10:31:21.50	-0.33
			ePg	10:31:17.44	0.67
PSZ	114.6	202	eSg	31:32.32	-0.43
			ePn	10:31:19.50	0.99
VYHS	128.1	251	eSn	31:34.00	-1.85
			ePn	10:31:20.60	1.63
KOLS	131.7	87	ePn	10:31:20.60	1.63
			eSn	31:36.10	-0.56

138.

2016-05-06 time: 8:41:30.00 UTC ML= 1.2  
 lat: 45.850N lon: 17.395E h= 10.0 km  
 erh= 4.7km erz= 1.8km  
 nr= 8 gap=338 rms=1.26  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	60.7	64	ePgD	8:41:42.75	1.77
			eSg	41:52.11	2.57
PKSV	66.7	86	ePg	8:41:42.41	0.38



## Földrengés paraméterek

PKSM 104.5 67 eSg 41:51.08 -0.34  
 eP\*C 8:41:47.81 -0.89  
 eS\* 42:02.44 -0.86  
 MORH 104.9 67 eP\*D 8:41:47.90 -0.86  
 eS\* 42:01.86 -1.54

139.

2016-05-06 time: 13:51:05.48 UTC ML= 2.2  
 lat: 45.546N lon: 20.059E h= 10.0 km  
 erh= 2.7km erz= 3.3km  
 nr= 34 gap= 82 rms=0.86  
 Locality: Serbia  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
FRGS	49.6	203	PgD	13:51:14.47			-0.04
			Sg	51:21.30			-0.26
PKB3	118.3	326	ePn	13:51:26.66			0.67
			eSn	51:39.59			-2.39
BZS	121.9	86	PnC	13:51:26.42			-0.01
			Sn	51:42.30			-0.47
PKS6	123.2	342	ePn	13:51:25.50			-1.10
			eSn	51:41.77			-1.30
PKS2	123.9	328	eSn	13:51:43.71			0.50
PKSM	132.6	304	ePn	13:51:27.52			-0.25
			eSn	51:42.22			-2.93
MORH	132.7	304	ePn	13:51:27.52			-0.25
			Sn	51:44.50			-0.67
PKB2	140.4	333	eSn	13:51:45.61			-1.28
PKSV	145.7	285	ePn	13:51:29.40			0.00
			eSn	51:48.23			0.17
SIRR	147.9	57	PnC	13:51:30.33			0.66
			Sn	51:48.60			0.06
PKSN	150.9	354	eSn	13:51:49.61			0.39
PKB4	154.4	313	ePn	13:51:30.77			0.28
			eSn	51:47.65			-2.35
PKB5	155.2	319	ePn	13:51:33.85			3.27
			eSn	51:51.75			1.59
MDVR	155.4	123	Sn	13:51:50.50			0.30
KOVH	163.7	292	ePn	13:51:31.73			0.08
			eSn	51:53.11			1.05
PKB1	168.9	325	ePn	13:51:32.86			0.57
			eSn	51:55.04			1.84
PKS7	180.7	337	eSn	13:51:57.50			1.68
HERR	199.4	112	PnC	13:51:36.88			0.78
			Sn	51:58.90			-1.08
DRGR	247.3	56	Sn	13:52:10.30			-0.30
PSZ	264.0	357	ePn	13:51:43.71			-0.44
			eSn	52:11.37			-2.95*
BLKB	298.1	136	Sn	13:52:21.60			-0.28*

140.

2016-05-09 time: 5:08:11.96 UTC ML= 0.5  
 lat: 47.293N lon: 18.349E h= 0.0 km  
 erh= 1.4km erz= 220km  
 nr= 6 gap=245 rms=0.13  
 Locality: Magyaralmás  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	10.3	319	ePg	5:08:13.77			-0.03
			eSg	08:15.15			-0.08
PKSG	11.4	16	ePgD	5:08:14.13			0.13
			eSg	08:15.51			-0.08
PKST	24.1	261	ePgD	5:08:16.13			-0.14
			eSg	08:19.88			0.25

## Hypocenter Parameters

141.

2016-05-09 time: 8:04:13.33 UTC ML= 1.5  
 lat: 48.641N lon: 20.737E h= 0.0 km  
 erh= 1.9km erz= 4.2km  
 nr= 12 gap=144 rms=0.52  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	25.5	227	ePg	8:04:17.70			-0.18
			eSg	04:21.90			0.47
CRVS	60.7	61	ePg	8:04:24.50			0.33
			eSg	04:32.30			-0.32
PSZ	101.8	218	ePg	8:04:31.28			-0.22
			eSg	04:45.06			-0.62
LANS	109.0	301	ePg	8:04:33.30			0.51
			eSg	04:47.80			-0.16
KOLS	117.5	74	ePg	8:04:35.00			0.69
			eSg	04:49.70			-0.98
VYHS	141.2	263	ePn	8:04:38.20			0.23
			eSn	04:55.10			-2.09

142.

2016-05-09 time: 8:14:59.16 UTC ML= 1.4  
 lat: 48.551N lon: 19.373E h= 0.0 km  
 erh= 1.8km erz= 602km  
 nr= 8 gap=110 rms=0.43  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
VYHS	40.1	261	ePg	8:15:06.40			0.08
			eSg	15:11.20			-0.72
LANS	67.1	6	ePg	8:15:11.50			0.37
			eSg	15:20.20			-0.28
PSZ	80.3	151	ePg	8:15:13.97			0.48
			eSg	15:24.65			-0.02
KECS	82.6	95	ePg	8:15:14.10			0.20
			eSg	15:24.50			-0.90

143.

2016-05-09 time: 11:33:20.45 UTC ML= 1.4  
 lat: 48.237N lon: 18.282E h= 0.0 km  
 erh= 6.4km erz= \*\*\*km  
 nr= 8 gap=161 rms=0.91  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
VYHS	50.0	55	ePg	11:33:29.90			0.53
			eSg	33:36.10			-0.23
MODS	76.1	281	ePg	11:33:33.00			-1.04
			eSg	33:44.50			-0.13
ZST	87.8	267	ePg	11:33:36.80			0.67
			eSg	33:48.10			-0.26
PSZ	125.3	106	ePg	11:33:44.18			1.36
			eSg	33:58.23			-2.03

144.

2016-05-09 time: 12:19:54.90 UTC ML= 0.3  
 lat: 47.175N lon: 18.297E h= 0.0 km  
 erh= 1.9km erz= 250km  
 nr= 6 gap=279 rms=0.16  
 Locality: Sárkeszi  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	21.1	352	ePg	12:19:58.47			-0.19
			eSg	20:01.34			-0.26
PKST	22.0	295	ePg	12:19:58.95			0.12

Hypocenter Parameters

Földrengés paraméterek

PKSG 25.1 16 eSg 20:01.93 0.04  
 ePg 12:19:59.45 0.07  
 eSg 20:03.06 0.19

eSn 11:14.50 -0.22  
 147.

145.

2016-05-10 time: 5:52:01.13 UTC ML= 2.0  
 lat: 48.034N lon: 16.124E h= 10.0 km  
 erh= 2.2km erz= 1.9km  
 nr= 38 gap= 96 rms=0.96  
 Locality: Austria  
 Comments:

2016-05-10 time: 8:51:45.28 UTC ML= 2.0  
 lat: 48.427N lon: 17.230E h= 0.0 km  
 erh= 3.8km erz= 3.1km  
 nr= 22 gap=175 rms=1.03  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
SOP	50.7	140	ePgD	5:52:11.41			1.05
			eSg	52:17.29			-0.27
ZST	75.1	76	ePg	5:52:14.80			0.15
			eSg	52:24.00			-1.20
ARSA	98.1	207	Pg	5:52:18.29			-0.45
			Sg	52:30.90			-1.57
SMOL	110.6	61	ePn	5:52:20.10			-0.57
			eSn	52:35.20			-0.72
EGYH	113.6	127	ePn	5:52:21.21			0.16
			eSn	52:37.61			1.02
MPLH	143.3	132	ePnD	5:52:25.19			0.43
			eSn	52:42.43			-0.76
TREC	147.9	342	ePn	5:52:24.60			-0.72
			eSn	52:41.40			-2.80
SRO	165.4	99	ePn	5:52:27.90			0.39
			eSn	52:47.40			-0.69
PKST	167.4	121	ePn	5:52:27.53			-0.22
			eSn	52:48.19			-0.33
KOGS	176.5	177	ePnD	5:52:30.14			1.25
			eSn	52:50.52			-0.03
VYHS	207.8	76	ePn	5:52:32.40			-0.39
			eSn	52:55.30			-2.19
KHC	224.0	303	ePn	5:52:37.90			3.08
			eSn	53:00.70			-0.39
KRLC	232.1	12	ePn	5:52:37.20			1.38
			eSn	53:01.40			-1.48
PRU	246.3	332	eSn	5:53:04.50			-1.54
DPC	258.0	3	ePn	5:52:41.40			2.34
			eSn	53:12.20			3.56*
KOVH	263.2	145	eSn	5:53:08.37			-1.43
UPC	275.2	358	ePn	5:52:44.70			3.50
			eSn	53:17.30			4.84*
LANS	276.2	63	ePn	5:52:42.00			0.68
			eSn	53:13.70			1.03
MORH	278.2	137	ePn	5:52:41.71			0.13
			eSn	53:10.77			-2.35
PKSM	278.4	137	ePnD	5:52:41.84			0.24
			eSn	53:10.32			-2.84*
PSZ	281.8	93	eSn	5:53:13.53			-0.39
KECS	327.7	81	eSn	5:53:23.30			-0.80*

sta	dist	azm	phase	hr	mn	sec	res
SMOL	17.6	57	ePg	8:51:48.10			-0.32
			eSg	51:51.50			0.63
ZST	27.4	200	ePg	8:51:50.00			-0.17
			eSg	51:53.80			-0.19
SOP	96.7	211	ePg	8:52:03.83			1.28
			eSg	52:16.05			0.03
EGYH	112.6	176	ePg	8:52:06.37			0.99
			eSg	52:21.57			0.51
CONA	115.9	241	Pg	8:52:05.25			-0.73
			Sg	52:20.56			-1.56
VYHS	119.0	86	ePg	8:52:06.30			-0.24
			eSg	52:20.60			-2.52
CSKK	141.2	147	ePn	8:52:11.29			1.37
			eSn	52:28.41			-0.73
MPLH	141.7	171	ePn	8:52:10.24			0.26
			eSn	52:27.85			-1.40
PKST	143.2	155	eSn	8:52:27.58			-2.00
PKSG	144.2	143	ePn	8:52:09.40			-0.89
			eSn	52:28.45			-1.35
PENC	168.4	115	eSn	8:52:36.29			1.11
ARSA	182.9	224	Pn	8:52:17.07			1.95
			Sn	52:38.54			0.15

148.

2016-05-10 time: 9:05:04.49 UTC ML= 1.5  
 lat: 45.607N lon: 17.340E h= 12.2 km  
 erh= 9.5km erz= 2.4km  
 nr= 8 gap=342 rms=0.51  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKSV	77.6	66	ePg	9:05:18.82			0.31
			eSg	05:28.76			-0.69
KOVH	79.7	48	ePg	9:05:19.71			0.83
			eSg	05:29.78			-0.33
PKSM	121.3	56	ePn	9:05:24.70			-0.39
			eSn	05:41.56			0.41
MORH	121.7	56	ePn	9:05:24.61			-0.53
			eSn	05:41.54			0.29

149.

146.

2016-05-10 time: 8:10:32.48 UTC ML= 1.6  
 lat: 48.584N lon: 20.756E h= 8.0 km  
 erh= 3.2km erz= 2.0km  
 nr= 11 gap=150 rms=0.50  
 Locality: Slovakia  
 Comments:

2016-05-10 time: 10:47:36.58 UTC ML= 1.8  
 lat: 47.938N lon: 19.827E h= 0.0 km  
 erh= 2.6km erz= 4.2km  
 nr= 10 gap=135 rms=0.63  
 Locality: Máttraverebély  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	22.9	241	ePg	8:10:36.70			-0.11
			eSg	10:40.70			0.51
CRVS	62.8	56	ePg	8:10:43.90			0.12
			eSg	10:51.90			-0.70
PSZ	97.8	221	ePg	8:10:49.76			-0.25
			eSg	11:03.48			-0.20
LANS	113.6	304	ePn	8:10:52.50			-0.15
			eSn	11:07.10			-1.28
KOLS	118.1	71	eSn	8:11:09.60			0.21
VYHS	142.1	266	ePn	8:10:57.50			1.29

sta	dist	azm	phase	hr	mn	sec	res
PSZ	5.5	113	ePnC	10:47:36.68			-0.88
			eSg	47:38.95			0.62
PENC	44.0	248	ePg	10:47:43.82			-0.61
			eSg	47:51.63			1.08
KECS	77.9	39	ePg	10:47:51.30			0.80
			eSg	48:01.10			-0.25
VYHS	96.1	310	ePg	10:47:54.00			0.25
			eSg	48:06.60			-0.54
LANS	137.4	349	ePn	10:48:01.00			0.25
			eSn	48:19.50			-0.10

## Földrengés paraméterek

## Hypocenter Parameters

150.

2016-05-10 time: 20:27:44.30 UTC ML=-0.3  
 lat: 47.368N lon: 18.237E h= 4.0 km  
 erh= 7.0km erz= 1.5km  
 nr= 6 gap=205 rms=0.19  
 Locality: Mór  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	1.8	105	ePgC	20:27:45.03	-0.06
			eSg	27:45.53	-0.18
PKSG	11.9	77	ePg	20:27:46.56	0.01
			eSg	27:48.59	0.29
PKST	19.5	232	ePg	20:27:47.67	-0.19
			eSg	27:50.98	0.35

151.

2016-05-11 time: 9:42:56.18 UTC ML= 1.7  
 lat: 48.890N lon: 20.454E h= 0.0 km  
 erh= 7.0km erz= \*\*\*km  
 nr= 8 gap=199 rms=1.18  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	45.3	177	ePg	9:43:05.10	0.82
			eSg	43:10.70	0.11
CRVS	73.8	89	ePg	9:43:09.10	-0.27
			eSg	43:19.20	-0.46
PSZ	115.8	201	ePg	9:43:15.81	-1.05
			eSg	43:32.77	-0.21
VYHS	127.0	250	ePg	9:43:21.50	2.63
			eSg	43:34.70	-1.86

152.

2016-05-12 time: 10:43:05.84 UTC ML= 1.7  
 lat: 48.783N lon: 20.030E h= 0.0 km  
 erh= 4.8km erz= \*\*\*km  
 nr= 7 gap=180 rms=0.86  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	47.3	135	ePg	10:43:14.40	0.10
			eSg	43:19.30	-1.59
LANS	58.0	315	ePg	10:43:16.10	-0.10
			eSg	43:23.80	-0.48
VYHS	93.7	250	eSg	10:43:35.20	-0.41
			ePg	10:43:24.74	1.63
PSZ	96.7	186	ePg	10:43:24.74	1.63
			eSg	43:36.74	0.17

153.

2016-05-16 time: 7:23:11.39 UTC ML= 1.7  
 lat: 48.550N lon: 19.362E h= 0.0 km  
 erh= 2.3km erz= 780km  
 nr= 8 gap=110 rms=0.55  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	39.4	261	ePg	7:23:18.60	0.18
			eSg	23:23.20	-0.70
LANS	67.2	7	ePg	7:23:23.80	0.41
			eSg	23:32.20	-0.55
PSZ	80.6	151	ePg	7:23:26.47	0.68
			eSg	23:36.50	-0.52
KECS	83.3	95	ePg	7:23:26.70	0.43
			eSg	23:37.00	-0.88

154.

2016-05-17 time: 7:53:15.07 UTC ML= 1.1  
 lat: 47.047N lon: 18.078E h= 0.0 km  
 erh= 1.6km erz= 601km  
 nr= 12 gap=133 rms=0.49  
 Locality: Balatonkenese  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
TIH	21.6	221	ePg	7:53:19.07	0.15
			eSg	53:22.27	0.35
PKST	23.8	352	ePg	7:53:18.70	-0.63
			eSg	53:23.31	0.67
CSKK	37.8	21	ePg	7:53:21.26	-0.56
			eSg	53:27.33	0.25
MPLH	43.1	289	ePg	7:53:22.90	0.13
			eSg	53:28.30	-0.48
MORH	102.0	155	ePg	7:53:34.01	0.72
			eSg	53:47.20	-0.31
KOVH	106.6	179	ePg	7:53:34.49	0.39
			eSg	53:48.11	-0.83

155.

2016-05-17 time: 11:45:03.57 UTC ML= 0.9  
 lat: 47.194N lon: 18.350E h= 10.0 km  
 erh= 6.7km erz=11.6km  
 nr= 6 gap=287 rms=0.53  
 Locality: Székesfehérvár  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	20.0	340	ePg	11:45:07.86	0.29
			eSg	45:10.86	0.17
PKST	25.0	287	ePg	11:45:07.77	-0.61
			eSg	45:11.31	-0.82
MPLH	61.5	268	ePg	11:45:14.86	0.16
			eSg	45:24.26	0.89

156.

2016-05-18 time: 8:16:53.37 UTC ML= 1.6  
 lat: 48.533N lon: 20.798E h= 0.0 km  
 erh= 5.2km erz= 5.7km  
 nr= 9 gap=157 rms=0.67  
 Locality: Bódvalenke  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.8	256	ePg	8:16:57.70	0.09
			eSg	17:01.90	0.98
CRVS	63.8	50	ePg	8:17:04.70	-0.05
			eSg	17:12.60	-1.03
PSZ	95.8	224	ePg	8:17:10.99	0.51
			eSg	17:23.19	-0.64
KOLS	117.3	68	eSg	8:17:31.10	0.46
			ePn	8:17:18.50	0.01
VYHS	145.0	268	ePn	8:17:18.50	0.01
			eSn	17:35.30	-2.78

157.

2016-05-18 time: 10:37:09.47 UTC ML= 1.8  
 lat: 48.219N lon: 21.209E h= 10.0 km  
 erh= 2.7km erz= 2.0km  
 nr= 9 gap=206 rms=0.38  
 Locality: Rátka  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	61.2	299	ePg	10:37:20.90	0.36
			eSg	37:29.30	0.13
CRVS	78.2	14	ePg	10:37:23.40	-0.15
			eSg	37:34.20	-0.34

## Hypocenter Parameters

PSZ 103.5 251 eP\* 10:37:28.35 0.32  
 eS\* 37:41.52 -0.99  
 KOLS 111.7 45 ePn 10:37:29.40 0.25  
 eSn 37:44.30 -0.20  
 LANS 164.9 309 ePn 10:37:38.80 3.02\*  
 eSn 37:56.50 0.19

158.

2016-05-19 time: 14:39:19.03 UTC ML= 1.6  
 lat: 47.884N lon: 19.404E h= 0.0 km  
 erh= 6.5km erz= 4.0km  
 nr= 8 gap=205 rms=0.75  
 Locality: Bercel  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	36.9	84	ePg	14:39:25.49	-0.13
			eSg	39:30.43	-0.33
VYHS	79.9	328	ePg	14:39:34.80	1.50
			eSg	39:43.90	-0.53
KECS	104.5	50	ePg	14:39:37.90	0.21
LANS	140.9	2	ePn	14:39:43.70	0.06
			eSn	40:02.30	-0.53
MODS	167.4	289	eSn	14:40:07.00	-1.71

159.

2016-05-22 time: 17:19:18.97 UTC ML= 0.9  
 lat: 46.306N lon: 18.452E h= 10.0 km  
 erh= 0.6km erz= 1.5km  
 nr= 14 gap=211 rms=0.15  
 Locality: Nagymányok  
 Comments:

sta	dist	azm	phase	hr mn sec	res
MORH	17.9	124	ePg	17:19:22.73	0.10
			eSg	19:25.41	-0.07
PKSM	17.9	126	ePg	17:19:22.65	0.01
			eSg	19:25.43	-0.07
PKB4	24.1	29	ePg	17:19:23.76	0.12
			eSg	19:27.55	0.27
PKS9	34.0	337	ePg	17:19:25.27	-0.02
			eSg	19:30.02	-0.20
PKB5	38.8	34	ePg	17:19:26.28	0.16
			eSg	19:31.79	0.08
PKB3	58.6	77	eSg	17:19:37.80	-0.07
PKB1	59.2	26	ePg	17:19:29.57	-0.12
			eSg	19:37.18	-0.88
PKB2	73.1	56	eSg	17:19:42.18	-0.25

160.

2016-05-22 time: 21:40:27.78 UTC ML= 0.7  
 lat: 46.302N lon: 18.435E h= 5.2 km  
 erh= 2.6km erz=11.3km  
 nr= 13 gap=217 rms=0.58  
 Locality: Nagymányok  
 Comments:

sta	dist	azm	phase	hr mn sec	res
MORH	18.7	121	ePg	21:40:31.72	0.47
			eSg	40:33.74	-0.22
PKSM	18.8	122	ePg	21:40:31.01	-0.25
			eSg	40:33.73	-0.24
PKB4	25.2	31	ePg	21:40:32.78	0.41
			eSg	40:36.09	0.14
PKS9	33.9	339	ePg	21:40:33.79	-0.11
			eSg	40:38.43	-0.24
PKB5	39.9	35	ePg	21:40:36.84	1.87
			eSg	40:40.59	0.02
PKB3	60.0	77	eSg	21:40:46.80	-0.12
PKB1	60.2	27	ePg	21:40:38.26	-0.31
			eSg	40:45.63	-1.35

## Földrengés paraméterek

161.

2016-05-23 time: 10:12:41.09 UTC ML= 1.6  
 lat: 45.508N lon: 18.027E h= 0.4 km  
 erh= 7.4km erz= 3.6km  
 nr= 9 gap=351 rms=0.31  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	45.8	23	ePg	10:12:49.21	-0.06
			eSg	12:54.48	-1.17
PKSM	91.7	31	ePg	10:12:57.50	0.04
			eSg	13:09.90	-0.33
MORH	92.2	31	ePg	10:12:57.55	0.00
			eSg	13:10.49	0.11
PKB4	118.6	22	ePg	10:13:02.14	-0.13
			eSg	13:19.24	0.44
PKB1	153.7	23	ePn	10:13:07.67	0.43

162.

2016-05-24 time: 5:44:31.77 UTC ML= 1.0  
 lat: 47.038N lon: 17.760E h= 0.0 km  
 erh= 6.6km erz= 774km  
 nr= 6 gap=261 rms=0.45  
 Locality: Tótvázsony  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	22.3	311	ePg	5:44:35.27	-0.48
			eSg	44:39.22	0.36
PKST	32.2	40	ePg	5:44:37.54	0.02
			eSg	44:42.27	0.26
CSKK	52.4	46	eSg	5:44:47.65	-0.78
PKSG	61.9	50	ePg	5:44:43.34	0.52

163.

2016-05-24 time: 8:06:55.58 UTC ML= 1.4  
 lat: 48.609N lon: 20.775E h= 0.0 km  
 erh= 2.1km erz= 3.0km  
 nr= 11 gap=149 rms=0.51  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.5	237	ePg	8:06:59.80	-0.33
			eSg	07:04.00	0.31
CRVS	60.1	57	ePg	8:07:06.60	0.29
			eSg	07:14.40	-0.28
PSZ	100.8	220	ePg	8:07:14.59	1.01
			eSg	07:26.49	-1.14
LANS	113.2	302	ePg	8:07:15.40	-0.40
			eSg	07:31.40	-0.17
KOLS	115.9	72	eSg	8:07:32.70	0.29
VYHS	143.7	265	ePn	8:07:20.80	0.27
			eSn	07:39.70	-0.29

164.

2016-05-25 time: 8:22:18.54 UTC ML= 0.6  
 lat: 47.210N lon: 18.297E h= 0.0 km  
 erh= 5.2km erz= 828km  
 nr= 8 gap=246 rms=0.60  
 Locality: Moha  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	17.3	351	ePg	8:22:21.66	0.04
			eSg	22:24.13	0.10
PKST	20.6	285	ePg	8:22:21.31	-0.91
			eSg	22:24.22	-0.88
PKSG	21.4	19	ePg	8:22:22.29	-0.07

## Földrengés paraméterek

## Hypocenter Parameters

eSg 22:25.62 0.27  
MPLH 57.6 266 ePg 8:22:29.37 0.55  
eSg 22:37.95 1.11

165.

2016-05-25 time: 8:50:59.36 UTC ML= 2.1  
lat: 45.585N lon: 17.816E h= 4.4 km  
erh= 8.2km erz= 4.2km  
nr= 15 gap=278 rms=0.91  
Locality: Croatia  
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSM	94.7	43	ePg	8:51:15.83	-0.45
			eSg	51:29.26	-0.22
MORH	95.1	43	ePg	8:51:15.86	-0.51
			eSg	51:28.25	-1.38
PKS9	117.0	18	ePg	8:51:20.98	0.71
			eSg	51:38.93	2.35
PKB4	118.3	31	ePg	8:51:20.41	-0.08
			eSg	51:36.52	-0.45
BEHE	127.2	321	ePn	8:51:21.23	-0.45
			eSn	51:36.55	-2.54
PKB5	132.9	32	ePn	8:51:22.79	0.39
			eSn	51:39.18	-1.19
PKB1	153.2	29	ePn	8:51:26.74	1.82
			eSn	51:46.78	1.92
MPLH	177.5	353	ePn	8:51:27.66	-0.30

166.

2016-05-25 time: 9:00:21.98 UTC ML= 1.6  
lat: 48.494N lon: 19.308E h= 0.0 km  
erh= 4.9km erz= \*\*\*km  
nr= 7 gap=181 rms=0.71  
Locality: Slovakia  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	34.9	270	ePg	9:00:28.50	0.29
			eSg	00:32.80	-0.27
PSZ	77.5	146	ePg	9:00:36.75	0.94
			eSg	00:46.75	0.15
PENC	78.3	181	ePg	9:00:35.09	-0.87
KECS	87.0	91	ePg	9:00:38.00	0.48
			eSg	00:48.30	-1.34

167.

2016-05-25 time: 11:13:22.64 UTC ML= 1.5  
lat: 47.332N lon: 18.444E h= 0.0 km  
erh= 1.0km erz= 1.2km  
nr= 7 gap=243 rms=0.11  
Locality: Zámoly  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	7.8	329	ePgc	11:13:24.07	0.03
			eSg	13:25.13	0.01
CSKK	14.3	284	ePgc	11:13:25.29	0.10
			eSg	13:27.01	-0.17
PKST	32.0	255	ePg	11:13:28.29	-0.06
VYHS	132.5	13	ePn	11:13:46.30	0.10
			eSn	14:04.20	-0.38

168.

2016-05-25 time: 14:19:48.95 UTC ML= 0.2  
lat: 47.217N lon: 18.269E h= 0.0 km  
erh= 1.2km erz= 159km  
nr= 6 gap=260 rms=0.09  
Locality: Iszkaszentgyörgy  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	16.3	358	ePg	14:19:51.90	0.04
			eSg	19:54.25	0.12
PKST	18.4	285	ePgD	14:19:52.30	0.07
			eSg	19:54.63	-0.16
PKSG	21.5	25	ePg	14:19:52.76	-0.03
			eSg	19:55.68	-0.12

169.

2016-05-26 time: 8:33:23.84 UTC ML= 1.8  
lat: 48.533N lon: 19.358E h= 0.0 km  
erh= 1.9km erz= 4.4km  
nr= 10 gap=103 rms=0.58  
Locality: Slovakia  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	38.8	264	ePg	8:33:30.90	0.13
			eSg	33:35.60	-0.58
LANS	69.2	7	ePg	8:33:36.50	0.30
			eSg	33:45.40	-0.43
PSZ	79.1	150	ePg	8:33:39.01	1.05
			eSg	33:48.61	-0.37
PENC	82.7	184	eSg	8:33:49.67	-0.46
KECS	83.5	94	ePg	8:33:38.90	0.15
			eSg	33:49.30	-1.08
CRVS	160.1	75	eSn	8:34:12.60	0.70

170.

2016-05-26 time: 9:52:25.38 UTC ML= 1.3  
lat: 48.628N lon: 20.714E h= 0.0 km  
erh= 2.7km erz= 737km  
nr= 8 gap=157 rms=0.53  
Locality: Slovakia  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.3	226	ePg	9:52:29.50	-0.05
			eSg	52:33.10	0.30
CRVS	62.8	61	ePg	9:52:36.70	0.10
			eSg	52:45.00	-0.35
PSZ	99.7	218	ePg	9:52:43.68	0.50
			eSg	52:56.29	-0.77
LANS	108.3	302	ePg	9:52:45.30	0.58
			eSg	52:58.60	-1.20

171.

2016-05-26 time: 10:37:21.21 UTC ML= 0.6  
lat: 47.189N lon: 18.313E h= 0.0 km  
erh= 2.6km erz= 419km  
nr= 8 gap=253 rms=0.30  
Locality: Székesfehérvár  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	19.8	348	ePg	10:37:24.25	-0.49
			eSg	37:27.55	0.06
PKST	22.5	290	ePg	10:37:25.03	-0.19
			eSg	37:28.02	-0.34
PKSG	23.3	15	ePg	10:37:25.63	0.26
			eSg	37:28.78	0.17
MPLH	58.7	268	ePg	10:37:31.81	0.12
			eSg	37:40.39	0.53

## Hypocenter Parameters

## Földrengés paraméterek

172.

2016-05-27 time: 6:26:04.26 UTC ML= 1.4  
 lat: 48.989N lon: 19.407E h= 0.0 km  
 erh= 4.1km erz= \*\*\*km  
 nr= 8 gap=156 rms=0.90  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
LANS	18.5	14	ePg	6:26:06.70	-0.86
			eSg	26:09.50	-0.64
VYHS	69.2	217	ePg	6:26:17.40	0.78
			eSg	26:25.60	-0.66
KECS	97.2	125	ePg	6:26:22.70	1.08
			eSg	26:35.20	0.04
PSZ	124.4	163	ePg	6:26:27.29	0.82
			eSg	26:42.04	-1.75

173.

2016-05-27 time: 8:08:48.21 UTC ML= 1.2  
 lat: 47.077N lon: 18.024E h= 0.0 km  
 erh= 2.1km erz= 961km  
 nr= 19 gap= 81 rms=0.87  
 Locality: Balatonfűzfő  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	20.3	2	ePg	8:08:50.73	-1.10
			eSg	08:54.44	-0.22
TIH	22.0	207	ePg	8:08:51.94	-0.21
			eSg	08:56.55	1.33
CSKK	36.5	29	ePg	8:08:54.41	-0.32
			eSg	08:59.50	-0.32
MPLH	38.2	286	ePg	8:08:56.02	0.98
			eSg	09:01.04	0.67
PKSG	44.7	38	eSg	8:09:02.60	0.19
PKB1	66.9	119	ePg	8:08:59.86	-0.30
			eSg	09:12.19	2.72
PKB5	76.2	135	eSg	8:09:13.60	1.16
PKB4	78.2	146	eSg	8:09:14.84	1.76
MORH	106.8	154	ePg	8:09:07.02	-0.27
			eSg	09:20.14	-2.02
PKSM	107.1	154	ePg	8:09:07.32	-0.02
			eSg	09:20.36	-1.90
KOVH	110.0	177	ePg	8:09:07.82	-0.04
			eSg	09:21.84	-1.34

174.

2016-05-27 time: 9:03:46.41 UTC ML= 0.8  
 lat: 46.001N lon: 18.355E h= 0.0 km  
 erh= 3.1km erz= 282km  
 nr= 6 gap=253 rms=0.19  
 Locality: Lothárd  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	22.0	296	ePgD	9:03:50.33	-0.01
			eSg	03:53.22	-0.18
PKSM	32.2	43	ePgD	9:03:52.28	0.11
			eSg	03:56.02	-0.63
MORH	32.7	43	ePg	9:03:52.33	0.08
			eSg	03:56.96	0.16

175.

2016-05-27 time: 21:55:12.80 UTC ML= 1.0  
 lat: 47.345N lon: 18.285E h= 10.0 km  
 erh= 2.7km erz= 2.2km  
 nr= 23 gap=100 rms=0.83  
 Locality: Csákberény  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	2.7	317	ePgC	21:55:14.02	-0.63
			eSg	55:15.01	-1.08
PKSG	9.5	57	ePgD	21:55:14.94	-0.33
			eSg	55:16.63	-0.56
PKST	21.2	243	ePgD	21:55:16.30	-0.69
			eSg	55:19.22	-1.04
TIH	57.7	211	ePg	21:55:22.89	-0.38
			eSg	55:31.42	-0.01
MPLH	59.7	251	ePg	21:55:24.03	0.43
			eSg	55:32.42	0.39
EGYH	72.4	276	ePgC	21:55:27.84	1.99
			eSg	55:35.09	-0.94
PKB1	73.3	148	ePg	21:55:27.04	1.02
			eSg	55:38.13	1.80
PKB5	90.2	158	ePg	21:55:29.69	0.68
			eSg	55:41.44	-0.21
PKB4	97.5	166	ePgC	21:55:30.52	0.22
			eSg	55:43.67	-0.28
MORH	128.5	168	ePn	21:55:34.21	-0.37
			eSn	55:49.05	-2.52
PKSM	128.9	168	ePn	21:55:34.21	-0.42
			eSn	55:49.09	-2.57
KOVH	140.5	186	eSn	21:55:54.55	0.33

176.

2016-05-30 time: 8:48:42.48 UTC ML= 1.7  
 lat: 47.978N lon: 19.983E h= 0.0 km  
 erh= 2.8km erz= 4.5km  
 nr= 9 gap=191 rms=0.64  
 Locality: Mátramindszent  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	9.4	225	ePgC	8:48:43.91	-0.25
			eSg	48:46.55	1.09
PENC	56.5	248	ePg	8:48:51.92	-0.64
			eSg	49:00.65	0.22
KECS	67.4	34	ePg	8:48:54.40	-0.13
			eSg	49:03.90	-0.02
VYHS	102.7	304	ePg	8:49:01.20	0.37
			eSg	49:14.00	-1.14
LANS	135.8	344	eSn	8:49:26.60	1.45

177.

2016-05-31 time: 7:16:00.57 UTC ML= 1.6  
 lat: 48.400N lon: 19.164E h= 0.0 km  
 erh= 2.2km erz= 5.6km  
 nr= 10 gap=134 rms=0.54  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	26.4	293	ePg	7:16:04.80	-0.48
			eSg	16:09.60	0.65
PSZ	76.4	135	ePg	7:16:13.71	-0.50
			eSg	16:25.63	0.78
LANS	86.4	15	ePg	7:16:16.40	0.40
			eSg	16:27.80	-0.23
KECS	98.3	85	ePg	7:16:18.40	0.28
			eSg	16:31.20	-0.61
MODS	139.7	269	ePn	7:16:25.10	0.07
			eSn	16:40.30	-3.81*

178.

2016-05-31 time: 7:59:26.62 UTC ML= 1.3  
 lat: 48.617N lon: 20.754E h= 0.0 km  
 erh= 1.2km erz= 290km  
 nr= 8 gap=161 rms=0.21  
 Locality: Slovakia  
 Comments: probably explosion

## Földrengés paraméterek

## Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
KECS	24.8	233	ePg	7:59:31.00	-0.04
			eSg	59:34.90	0.41
CRVS	60.9	59	ePg	7:59:37.80	0.30
			eSg	59:45.50	-0.48
PSZ	100.5	219	ePg	7:59:44.42	-0.15
			eSg	59:58.47	-0.11
LANS	111.4	302	ePg	7:59:46.50	-0.02
			eSg	8:00:01.90	-0.14

179.

2016-05-31 time: 8:08:19.23 UTC ML= 1.2  
 lat: 45.840N lon: 18.426E h= 0.0 km  
 erh= 4.7km erz= 838km  
 nr= 10 gap=270 rms=0.66  
 Locality: Nagyharsány  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	14.5	292	ePg	8:08:21.67	-0.15
			eSg	08:24.05	0.20
KOVH	37.4	317	ePg	8:08:26.05	0.14
			eSg	08:30.74	-0.38
PKSM	44.5	22	ePg	8:08:27.52	0.34
			eSg	08:31.85	-1.54
MORH	45.0	22	ePg	8:08:27.62	0.35
			eSg	08:32.91	-0.64
PKB4	74.2	11	eSg	8:08:44.87	2.05
PKB1	108.7	15	eSg	8:08:53.73	-0.04

180.

2016-06-01 time: 7:48:42.37 UTC ML= 1.9  
 lat: 48.558N lon: 19.358E h= 0.0 km  
 erh= 2.3km erz= 7.8km  
 nr= 10 gap=107 rms=0.67  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	39.2	260	ePg	7:48:49.80	0.43
			eSg	48:54.40	-0.42
LANS	66.4	7	ePg	7:48:55.10	0.87
			eSg	49:02.50	-0.98
PSZ	81.5	151	ePg	7:48:57.76	0.83
			eSg	49:07.60	-0.69
KECS	83.7	96	ePg	7:48:57.40	0.07
			eSg	49:08.00	-0.99
PENC	85.5	184	eSg	7:49:08.94	-0.61
MPLH	205.7	221	ePnD	7:49:15.41	0.35

181.

2016-06-01 time: 9:37:00.06 UTC ML= 1.9  
 lat: 48.122N lon: 20.589E h= 0.8 km  
 erh= 4.5km erz= 5.3km  
 nr= 6 gap=192 rms=0.26  
 Locality: Lillafüred  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	40.9	349	ePg	9:37:07.20	-0.17
			eSg	37:13.10	0.03
PSZ	56.5	246	ePg	9:37:10.36	0.20
			eSg	37:17.55	-0.49
PENC	104.4	249	eSg	9:37:33.63	0.39
KOLS	153.7	54	eSn	9:37:46.50	-0.01

182.

2016-06-02 time: 7:23:44.75 UTC ML= 0.9  
 lat: 47.448N lon: 18.368E h= 0.0 km  
 erh= 3.4km erz= 433km  
 nr= 6 gap=295 rms=0.25  
 Locality: Oroszlány  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	6.5	165	ePgC	7:23:45.98	0.07
			eSg	23:46.50	-0.31
CSKK	12.5	221	ePg	7:23:47.37	0.40
			eSg	23:48.97	0.26
PKST	32.8	230	ePgC	7:23:50.38	-0.23
			eSg	23:54.98	-0.20

183.

2016-06-02 time: 8:04:48.15 UTC ML= 1.2  
 lat: 46.080N lon: 18.086E h= 5.1 km  
 erh= 2.6km erz= 2.0km  
 nr= 12 gap=304 rms=0.35  
 Locality: Kővágótóttós  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	1.4	50	ePgC	8:04:48.99	-0.11
			eSg	04:50.22	0.38
PKSM	45.4	71	ePg	8:04:56.26	-0.04
			eSg	05:02.42	-0.24
MORH	45.7	71	ePg	8:04:56.26	-0.11
			eSg	05:02.36	-0.42
PKS9	58.3	15	ePg	8:04:58.56	-0.04
			eSg	05:06.01	-0.74
PKB4	61.1	41	ePg	8:04:59.38	0.27
PKB5	76.0	41	ePg	8:05:02.42	0.66
PKB1	95.3	35	eSg	05:13.82	1.44
			eSg	8:05:18.01	-0.47

184.

2016-06-03 time: 8:06:06.84 UTC ML= 1.4  
 lat: 48.633N lon: 20.730E h= 0.0 km  
 erh= 1.9km erz= 3.2km  
 nr= 9 gap=157 rms=0.46  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.5	227	ePg	8:06:11.30	0.08
			eSg	06:15.30	0.66
CRVS	61.6	61	ePg	8:06:18.00	0.17
			eSg	06:26.10	-0.30
PSZ	100.8	218	ePg	8:06:24.71	-0.13
			eSg	06:38.00	-0.87
LANS	109.0	302	ePg	8:06:27.00	0.69
			eSg	06:41.30	-0.19
VYHS	140.6	264	eSn	8:06:49.90	-0.67

185.

2016-06-03 time: 10:15:37.42 UTC ML= 0.9  
 lat: 46.122N lon: 18.121E h= 0.0 km  
 erh= 1.9km erz= 391km  
 nr= 10 gap=192 rms=0.33  
 Locality: Abaliget  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	4.1	203	ePgC	10:15:37.82	-0.33
			eSg	15:39.14	0.43
PKSM	41.4	76	ePgD	10:15:45.09	0.27
			eSg	15:50.86	0.26

## Hypocenter Parameters

MORH 41.8 76 ePg 10:15:44.92 0.04  
 eSg 15:50.59 -0.11  
 PKB4 55.8 42 ePg 10:15:47.61 0.21  
 eSg 15:55.56 0.39  
 PKB1 89.9 35 ePg 10:15:52.91 -0.57  
 eSg 16:05.53 -0.48

186.

2016-06-03 time: 10:27:53.89 UTC ML= 1.1  
 lat: 47.095N lon: 18.014E h= 0.0 km  
 erh= 0.8km erz= 333km  
 nr= 17 gap=113 rms=0.30  
 Locality: Litér  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	18.3	5	ePg	10:27:56.66	-0.49
			eSg	27:59.84	0.14
TIH	23.6	203	ePg	10:27:58.36	0.27
			eSg	28:02.20	0.82
CSKK	35.2	32	ePg	10:28:00.10	-0.07
			eSg	28:05.80	0.73
MPLH	36.9	283	ePg	10:28:00.16	-0.32
			eSg	28:05.89	0.26
PKSG	43.6	41	ePg	10:28:01.75	0.07
			eSg	28:07.99	0.24
EGYH	62.8	305	ePg	10:28:05.02	-0.09
MORH	109.0	154	ePg	10:28:13.50	0.15
			eSg	28:28.46	-0.08
PKSM	109.3	154	ePg	10:28:13.23	-0.18
			eSg	28:27.58	-1.05
KOVH	112.1	177	ePg	10:28:14.20	0.29
			eSg	28:29.20	-0.32

187.

2016-06-04 time: 6:14:15.57 UTC ML= 0.2  
 lat: 47.237N lon: 18.461E h= 0.0 km  
 erh= 2.2km erz= 303km  
 nr= 6 gap=291 rms=0.74  
 Locality: Csala  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	18.0	343	ePg	6:14:18.80	0.02
			eSg	14:20.00	-1.29
CSKK	20.6	313	ePg	6:14:19.36	0.11
			eSg	14:21.33	-0.79
PKST	32.3	274	ePg	6:14:22.52	1.17
			eSg	14:25.96	0.10

188.

2016-06-04 time: 9:31:39.86 UTC ML= 0.4  
 lat: 46.187N lon: 18.291E h= 0.0 km  
 erh= 1.4km erz= 242km  
 nr= 7 gap=210 rms=0.17  
 Locality: Zobákpuszta  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	18.4	234	ePg	9:31:42.88	-0.26
			eSg	31:45.92	0.22
PKSM	27.2	84	ePg	9:31:44.77	0.06
			eSg	31:48.39	-0.11
MORH	27.4	83	ePg	9:31:44.68	-0.08
			eSg	31:48.83	0.25
PKSV	33.3	185	eSg	9:31:50.49	0.06

## Földrengés paraméterek

189.

2016-06-04 time: 11:17:57.08 UTC ML= 2.3  
 lat: 45.940N lon: 17.078E h= 13.8 km  
 erh= 4.0km erz= 2.0km  
 nr= 32 gap=194 rms=0.86  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	63.3	338	ePgC	11:18:08.46	-0.20
			eSg	18:19.50	1.81
KOVH	80.9	78	ePg	11:18:11.25	-0.47
			eSg	18:23.38	0.23
KOGS	85.2	311	ePg	11:18:12.50	0.00
			eSg	18:22.71	-1.82
PKSV	91.3	94	eP*	11:18:13.05	-0.37
			eS*	18:24.62	-1.55
PKS9	117.2	52	ePn	11:18:16.54	-0.42
PKSM	124.7	76	ePn	11:18:17.63	-0.26
			eSn	18:34.73	0.60
MORH	125.0	76	ePn	11:18:17.66	-0.27
			eSn	18:34.69	0.49
PKB4	133.0	62	ePn	11:18:20.01	1.08
			eSn	18:36.95	0.98
MPLH	141.2	15	ePn	11:18:19.75	-0.21
PKB5	147.1	60	ePn	11:18:20.14	-0.55
			eSn	18:36.75	-2.35
PKB1	161.9	55	ePn	11:18:24.50	1.97
			eSn	18:44.38	1.99
PKST	163.9	27	ePn	11:18:22.42	-0.36
PKB3	172.1	72	ePn	11:18:23.71	-0.09
SOKA	177.6	297	Pn	11:18:24.40	-0.09
			Sn	18:45.62	-0.25
CSKK	182.3	30	ePn	11:18:27.09	2.02
ARSA	188.2	321	Pn	11:18:25.85	0.04
			Sn	18:45.68	-2.54
PKSG	190.1	32	ePn	11:18:25.64	-0.41
OBKA	205.1	288	Pn	11:18:28.77	0.85
			Sn	18:52.53	0.55
CONA	239.6	337	Pn	11:18:33.44	1.21
			Sn	18:57.40	-2.24
MOA	301.6	315	Pn	11:18:41.05	1.10*
			Sn	19:11.09	-2.30*
VYHS	313.6	25	ePn	11:18:41.00	-0.45*
			eSn	19:13.60	-2.46*

190.

2016-06-05 time: 0:17:49.26 UTC ML= 1.5  
 lat: 45.927N lon: 16.034E h= 8.5 km  
 erh= 2.2km erz= 1.5km  
 nr= 30 gap=141 rms=0.64  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PTJ	6.6	243	ePg	0:17:50.89	-0.28
			eSg	17:52.00	-0.67
GCIS	32.2	258	iPg	0:17:55.40	0.19
			iSg	17:59.75	-0.09
GOLS	33.0	286	iPg	0:17:55.90	0.55
CESS	44.5	277	ePg	0:17:58.05	0.70
			eSg	18:03.19	-0.47
CRES	46.2	256	iPg	0:17:57.56	-0.08
			eSg	18:03.81	-0.37
DOBS	50.2	299	iPg	0:17:58.51	0.16
			eSg	18:04.88	-0.56
LEGS	55.6	272	iPg	0:17:59.69	0.39
			eSg	18:07.13	0.00
KOGS	60.3	16	ePg	0:18:00.09	-0.04
			eSg	18:07.30	-1.31
BOJS	76.9	232	iPg	0:18:02.70	-0.37
PDKS	81.6	281	ePg	0:18:02.98	-0.93
BEHE	83.2	43	ePg	0:18:05.14	0.95



**Földrengés paraméterek**

**Hypocenter Parameters**

```

eSg      18:16.67    0.83
VISS 93.8 262 ePg      0:18:05.35  -0.72
OBKA 131.6 299 Pn       0:18:12.55    0.93
      Sn       18:28.02  -1.03
KNDS 136.1 251 ePn      0:18:12.70    0.52
CRNS 138.3 277 ePn      0:18:13.21    0.75
ARSA 152.2 345 Pn       0:18:13.22  -0.97
JAVS 152.8 269 ePn      0:18:15.43    1.16
KOVH 161.0 84  ePn      0:18:14.29  -1.00
      eSn      18:32.39  -3.21*
PKSV 172.2 91  ePn      0:18:15.68  -1.00
      eSn      18:34.33  -3.75*
MORH 204.5 81  ePn      0:18:20.93    0.22
      eSn      18:47.96    2.72*
    
```

191.

```

2016-06-06 time: 11:49:19.17 UTC ML= 0.4
lat: 47.173N lon: 18.310E h= 0.0 km
      erh= 3.3km  erz= 441km
nr= 6 gap=281 rms=0.26
Locality: Sárkeszi
Comments: probably explosion
    
```

```

sta dist azm phase hr mn sec res
CSKK 21.5 350 ePg 11:49:22.65 -0.36
      eSg      49:25.61  -0.39
PKST 23.0 295 ePg 11:49:23.43 0.15
      eSg      49:26.61  0.13
PKSG 25.1 14  ePg 11:49:23.79 0.14
      eSg      49:27.48  0.34
    
```

192.

```

2016-06-07 time: 12:01:50.88 UTC ML= 1.9
lat: 48.435N lon: 17.193E h= 0.0 km
      erh= 3.3km  erz= 3.6km
nr= 14 gap=170 rms=0.85
Locality: Slovakia
Comments: probably explosion
    
```

```

sta dist azm phase hr mn sec res
MODS 9.2 138 ePg 12:01:52.10 -0.43
      eSg      01:54.00    0.18
SMOL 19.5 63 ePg 12:01:53.80 -0.56
      eSg      01:57.70    0.63
ZST 27.4 194 ePg 12:01:55.40 -0.38
      eSg      01:59.60    0.01
SOP 96.1 210 eSg 12:02:22.39 0.97
CONA 113.9 240 Pg 12:02:11.67 0.44
      Sg       02:25.31  -1.79
MPLH 143.0 170 ePn 12:02:14.89 -0.86
ARSA 181.6 224 Pn 12:02:22.21 1.65
      Sn       02:44.70    0.99
MOA 227.4 253 Pn 12:02:26.40 0.13
      Sn       02:55.50    1.63
    
```

193.

```

2016-06-08 time: 12:33:28.82 UTC ML= 1.2
lat: 47.491N lon: 18.600E h= 0.0 km
      erh= 1.4km  erz=36.5km
nr= 5 gap=354 rms=0.58
Locality: Óbarok
Comments: probably explosion
    
```

```

sta dist azm phase hr mn sec res
PKSG 19.2 235 ePg 12:33:32.82 0.57
      eSg      33:35.75    0.81
CSKK 29.3 241 ePg 12:33:33.68 -0.37
      eSg      33:37.32  -0.80
PKST 49.9 239 eSg 12:33:44.39 -0.29
    
```

194.

```

2016-06-09 time: 5:41:54.67 UTC ML= 1.7
lat: 48.417N lon: 19.071E h= 0.0 km
      erh= 4.6km  erz= 8.3km
nr= 8 gap=178 rms=0.63
Locality: Slovakia
Comments: probably explosion
    
```

```

sta dist azm phase hr mn sec res
PENC 71.4 167 eSg 5:42:17.62 0.27
PSZ 82.6 132 ePg 5:42:09.49 0.07
      eSg      42:20.56  -0.36
KECS 104.9 86 ePg 5:42:13.70 0.30
      eSg      42:27.40  -0.61
PKSG 124.8 204 eSg 5:42:33.96 -0.37
MODS 132.9 268 ePn 5:42:19.50 1.22
      eSn      42:35.50  -1.19
    
```

195.

```

2016-06-09 time: 6:54:32.32 UTC ML= 1.5
lat: 45.552N lon: 17.739E h= 0.0 km
      erh= 6.3km  erz= ***km
nr= 12 gap=277 rms=0.86
Locality: Croatia
Comments: probably explosion
    
```

```

sta dist azm phase hr mn sec res
PKSV 54.7 47 ePg 6:54:43.24 1.15
      eSg      54:48.67  -1.04
KOVH 65.8 25 ePg 6:54:44.87 0.79
      eSg      54:54.13    0.88
PKSM 101.4 44 ePg 6:54:49.94 -0.49
      eSg      55:04.34  -0.21
MORH 101.9 44 ePg 6:54:49.96 -0.55
      eSg      55:03.83  -0.87
PKS9 122.4 20 ePg 6:54:52.89 -1.28
      eSg      55:13.37    2.16
BEHE 126.4 324 ePg 6:54:55.37 0.48
      eSg      55:12.23  -0.27
    
```

196.

```

2016-06-09 time: 8:10:12.43 UTC ML= 1.1
lat: 47.364N lon: 18.453E h= 0.0 km
      erh= 2.6km  erz= 289km
nr= 5 gap=307 rms=0.13
Locality: Csákvár
Comments: probably explosion
    
```

```

sta dist azm phase hr mn sec res
PKSG 5.6 303 ePgC 8:10:13.56 0.12
      eSg      10:14.26    0.04
CSKK 14.6 270 ePg 8:10:14.82 -0.21
      eSg      10:16.96  -0.10
PKST 33.8 250 eSg 8:10:23.27 0.11
    
```

197.

```

2016-06-09 time: 11:39:17.27 UTC ML= 0.8
lat: 47.212N lon: 18.289E h= 0.0 km
      erh= 2.7km  erz= 436km
nr= 8 gap=244 rms=0.31
Locality: Iszkaszentgyörgy
Comments: probably explosion
    
```

```

sta dist azm phase hr mn sec res
CSKK 17.0 353 ePg 11:39:20.60 0.29
      eSg      39:22.42  -0.26
PKST 20.0 285 ePg 11:39:20.30 -0.55
      eSg      39:23.59  -0.05
PKSG 21.4 21 ePg 11:39:20.88 -0.23
      eSg      39:24.30    0.21
    
```

## Hypocenter Parameters

MPLH 57.0 265 ePg 11:39:27.84 0.38  
eSg 39:35.59 0.19

198.

2016-06-14 time: 8:12:43.22 UTC ML= 0.3  
lat: 47.167N lon: 18.315E h= 0.5 km  
erh= 9.0km erz= 345km  
nr= 6 gap=283 rms=0.12  
Locality: Sárszentmihály  
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	22.1	349	ePg	8:12:47.08	-0.09
			eSg	12:50.40	0.14
PKST	23.6	296	ePg	8:12:47.39	-0.04
			eSg	12:50.71	0.00
PKSG	25.6	13	ePg	8:12:47.95	0.16
			eSg	12:51.17	-0.18

199.

2016-06-14 time: 9:05:08.36 UTC ML= 1.5  
lat: 48.633N lon: 20.707E h= 0.0 km  
erh= 2.9km erz= 723km  
nr= 7 gap=156 rms=0.48  
Locality: Slovakia  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.3	224	ePg	9:05:12.50	-0.02
			eSg	05:16.40	0.63
CRVS	63.0	62	ePg	9:05:19.60	-0.01
PSZ	99.8	217	ePg	9:05:26.13	-0.04
			eSg	05:39.21	-0.86
LANS	107.6	302	ePg	9:05:28.20	0.63
			eSg	05:41.90	-0.65

200.

2016-06-14 time: 10:44:15.35 UTC ML= 1.1  
lat: 46.023N lon: 18.096E h= 0.0 km  
erh= 4.4km erz= 715km  
nr= 11 gap=299 rms=0.57  
Locality: Zók  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	7.2	2	ePgC	10:44:16.12	-0.52
			eSg	44:17.73	0.08
PKSM	47.1	64	ePg	10:44:23.61	-0.14
			eSg	44:30.64	0.33
MORH	47.5	63	ePg	10:44:23.58	-0.24
			eSg	44:30.07	-0.37
PKS9	64.2	13	ePg	10:44:27.38	0.56
PKB4	65.6	37	ePg	10:44:30.10	3.05
			eSg	44:38.93	2.75
PKB1	100.1	32	ePg	10:44:33.64	0.42
			eSg	44:46.11	-1.06

201.

2016-06-14 time: 11:56:23.27 UTC ML= 0.5  
lat: 47.220N lon: 18.280E h= 7.9 km  
erh= 8.2km erz=15.3km  
nr= 6 gap=260 rms=0.13  
Locality: Iszkaszentgyörgy  
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	16.0	355	ePg	11:56:26.20	-0.25
			eSg	56:28.99	0.05
PKST	19.1	283	ePg	11:56:27.03	0.07
			eSg	56:29.87	0.04

## Földrengés paraméterek

PKSG 20.9 24 ePg 11:56:27.39 0.14  
eSg 56:30.28 -0.08

202.

2016-06-15 time: 6:03:09.67 UTC ML= 1.0  
lat: 47.312N lon: 17.664E h= 0.0 km  
erh= 1.7km erz= 489km  
nr= 8 gap=146 rms=0.36  
Locality: Bakonykoppány  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	18.3	211	ePg	6:03:12.56	-0.39
			eSg	03:15.71	0.21
EGYH	27.7	295	ePg	6:03:14.49	-0.13
			eSg	03:19.09	0.62
PKST	28.6	102	ePg	6:03:14.43	-0.36
			eSg	03:19.19	0.41
PKSG	55.6	81	ePg	6:03:19.41	-0.20
			eSg	03:27.81	0.45

203.

2016-06-15 time: 9:14:03.38 UTC ML= 1.6  
lat: 48.604N lon: 20.782E h= 10.0 km  
erh= 3.1km erz= 2.0km  
nr= 9 gap=149 rms=0.44  
Locality: Slovakia  
Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	25.7	239	ePg	9:14:08.20	-0.10
			eSg	14:12.60	0.46
CRVS	60.0	56	ePg	9:14:14.50	0.26
			eSg	14:22.10	-0.61
PSZ	100.8	221	ePg	9:14:21.25	-0.21
			eSg	14:35.49	-0.07
LANS	114.0	302	ePn	9:14:23.60	0.25
			eSn	14:37.60	-1.32
KOLS	115.6	72	eSn	9:14:39.90	0.62

204.

2016-06-15 time: 9:23:33.91 UTC ML= 1.5  
lat: 48.634N lon: 20.723E h= 0.0 km  
erh= 2.1km erz= 597km  
nr= 8 gap=156 rms=0.44  
Locality: Slovakia  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.2	226	ePg	9:23:38.30	0.06
			eSg	23:42.50	0.89
CRVS	62.0	61	ePg	9:23:45.10	0.13
			eSg	23:53.10	-0.50
PSZ	100.6	218	ePg	9:23:51.55	-0.31
			eSg	24:05.22	-0.65
LANS	108.5	302	ePg	9:23:53.80	0.52
			eSg	24:08.20	-0.19

205.

2016-06-16 time: 7:20:19.99 UTC ML= 1.5  
lat: 47.449N lon: 18.393E h= 0.0 km  
erh= 2.0km erz= 226km  
nr= 5 gap=310 rms=0.10  
Locality: Várgesztes  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	6.4	182	ePgC	7:20:21.22	0.09
			eSg	20:21.88	-0.13
CSKK	13.8	226	ePg	7:20:22.34	-0.12

## Földrengés paraméterek

## Hypocenter Parameters

eSg 20:24.49 0.10  
 PKST 34.4 232 eSg 7:20:30.94 0.02

206.

2016-06-16 time: 9:19:10.41 UTC ML= 1.7  
 lat: 48.623N lon: 20.727E h= 0.0 km  
 erh= 3.8km erz= \*\*\*km  
 nr= 10 gap=145 rms=0.82  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.6	229	ePg	9:19:14.20	-0.43
			eSg	19:18.30	0.38
CRVS	62.3	60	ePg	9:19:21.10	-0.44
			eSg	19:28.90	-1.32
PSZ	99.8	218	ePg	9:19:28.58	0.35
			eSg	19:40.59	-1.53
LANS	109.4	302	ePg	9:19:29.80	-0.15
			eSg	19:45.90	0.72
KOLS	118.8	73	ePg	9:19:33.40	1.77
			eSg	19:47.40	-0.77

207.

2016-06-16 time: 12:06:41.89 UTC ML= 1.3  
 lat: 47.052N lon: 19.488E h= 0.0 km  
 erh= 3.7km erz= 814km  
 nr= 13 gap=197 rms=0.69  
 Locality: Felsőlajos  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKS7	24.9	269	ePg	12:06:45.72	-0.61
			eSg	06:49.12	-0.68
PKB1	60.8	241	ePg	12:06:52.40	-0.34
PKB5	76.6	229	ePg	12:06:56.93	1.35
			eSg	07:07.04	0.79
PENC	83.6	349	ePg	12:06:57.18	0.36
PKB4	91.5	228	ePg	12:06:59.13	0.90
PSZ	101.1	18	ePg	12:07:00.05	0.10
			eSg	07:13.39	-0.64
MORH	113.2	215	ePg	12:07:01.75	-0.35
			eSg	07:17.48	-0.39
PKSM	113.7	215	ePg	12:07:01.29	-0.90
			eSg	07:17.71	-0.31

208.

2016-06-16 time: 12:08:15.83 UTC ML= 1.6  
 lat: 47.056N lon: 19.449E h= 0.0 km  
 erh= 3.5km erz= 708km  
 nr= 12 gap=194 rms=0.58  
 Locality: Ladánybene  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKS7	21.9	267	ePgC	12:08:19.39	-0.35
			eSg	08:22.51	-0.28
PKB2	45.3	200	ePg	12:08:27.56	3.64*
PKB1	58.4	239	ePg	12:08:26.36	0.09
PKB5	74.8	227	ePg	12:08:30.32	1.14
			eSg	08:40.65	1.05
PENC	82.6	351	ePg	12:08:30.91	0.33
PKB4	89.7	226	ePg	12:08:32.36	0.52
PSZ	101.5	19	ePg	12:08:33.72	-0.24
PKS9	103.4	240	ePg	12:08:33.77	-0.53
MORH	111.9	213	ePg	12:08:35.45	-0.37
			eSg	08:50.48	-0.93
PKSM	112.4	213	ePg	12:08:35.48	-0.43

209.

2016-06-17 time: 6:13:32.69 UTC ML= 0.7  
 lat: 47.295N lon: 18.341E h= 0.0 km  
 erh= 0.9km erz= 146km  
 nr= 6 gap=241 rms=0.09  
 Locality: Magyaralmás  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	9.8	321	ePg	6:13:34.38	-0.05
			eSg	13:35.69	-0.10
PKSG	11.4	19	ePg	6:13:34.74	0.02
			eSg	13:36.38	0.07
PKST	23.6	260	ePg	6:13:36.83	-0.07
			eSg	13:40.36	0.18

210.

2016-06-20 time: 9:03:07.90 UTC ML= 2.1  
 lat: 47.936N lon: 20.033E h= 0.0 km  
 erh= 2.0km erz= 2.4km  
 nr= 13 gap=157 rms=0.55  
 Locality: Bodony  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	10.5	259	ePg	9:03:10.11	0.33
			eSg	03:11.97	0.73
PENC	58.5	254	ePg	9:03:18.28	-0.06
			eSg	03:27.24	0.75
KECS	69.6	29	ePg	9:03:20.10	-0.22
			eSg	03:30.50	0.49
VYHS	108.5	305	ePg	9:03:27.10	-0.17
			eSg	03:41.20	-1.18
PKSN	116.1	186	eSg	9:03:44.20	-0.61
PKS7	118.6	214	eSg	9:03:45.23	-0.38
PKSG	137.4	244	eSn	9:03:50.50	-0.41
LANS	141.4	343	ePn	9:03:33.40	0.84
			eSn	03:51.10	-0.70

211.

2016-06-21 time: 7:16:12.90 UTC ML= 0.3  
 lat: 47.207N lon: 18.208E h= 0.0 km  
 erh= 1.3km erz= 169km  
 nr= 6 gap=260 rms=0.10  
 Locality: Csór  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	14.3	294	ePgC	7:16:15.45	-0.01
			eSg	16:17.34	-0.11
CSKK	17.8	13	ePg	7:16:16.16	0.09
			eSg	16:18.64	0.09
PKSG	24.7	34	ePgC	7:16:17.35	0.04
			eSg	16:20.49	-0.27

212.

2016-06-21 time: 7:22:49.20 UTC ML= 0.6  
 lat: 47.112N lon: 18.213E h= 0.0 km  
 erh= 6.9km erz= 887km  
 nr= 6 gap=297 rms=0.53  
 Locality: Jenő  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	21.2	320	ePg	7:22:53.37	0.39
			eSg	22:55.80	-0.13
CSKK	28.1	7	ePg	7:22:54.07	-0.14
			eSg	22:56.90	-1.23
PKSG	33.8	23	ePg	7:22:55.16	-0.08
			eSg	23:00.80	0.85

## Hypocenter Parameters

## Földrengés paraméterek

213.

2016-06-21 time: 7:28:53.22 UTC ML= 0.4  
 lat: 47.189N lon: 18.220E h= 0.0 km  
 erh= 3.1km erz= 386km  
 nr= 6 gap=269 rms=0.23  
 Locality: Csőr  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	16.1	299	ePg	7:28:56.01			-0.08
			eSg	28:58.48			0.15
CSKK	19.6	9	ePg	7:28:56.71			-0.01
			eSg	28:58.86			-0.58
PKSG	26.0	30	ePg	7:28:57.89			0.03
			eSg	29:01.81			0.34

214.

2016-06-21 time: 7:32:52.13 UTC ML= 0.4  
 lat: 47.187N lon: 18.208E h= 0.0 km  
 erh= 3.8km erz= 465km  
 nr= 5 gap=270 rms=0.21  
 Locality: Csőr  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	15.4	301	ePg	7:32:54.76			-0.11
			eSg	32:57.21			0.20
CSKK	20.0	12	ePg	7:32:55.42			-0.27
			eSg	32:58.44			-0.03
PKSG	26.6	31	ePg	7:32:57.16			0.28

215.

2016-06-22 time: 7:06:46.00 UTC ML= 1.2  
 lat: 47.476N lon: 18.382E h= 0.0 km  
 erh= 3.7km erz= 458km  
 nr= 6 gap=308 rms=0.28  
 Locality: Várgesztes  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	9.4	176	ePgC	7:06:47.74			0.06
			eSg	06:48.47			-0.52
CSKK	15.5	216	ePg	7:06:48.98			0.21
			eSg	06:51.45			0.51
PKST	35.6	227	ePg	7:06:52.18			-0.19
			eSg	06:57.18			-0.15

216.

2016-06-22 time: 7:08:03.92 UTC ML= 1.0  
 lat: 47.431N lon: 18.399E h= 0.0 km  
 erh= 2.6km erz= 319km  
 nr= 6 gap=313 rms=0.18  
 Locality: Gánt  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	4.4	189	ePgC	7:08:04.79			0.08
			eSg	08:05.27			-0.06
CSKK	12.9	234	ePg	7:08:06.01			-0.22
			eSg	08:07.79			-0.24
PKST	33.6	235	ePg	7:08:10.02			0.10
			eSg	08:14.95			0.35

217.

2016-06-22 time: 9:50:15.95 UTC ML= 0.6  
 lat: 47.231N lon: 18.256E h= 10.0 km  
 erh= 8.7km erz= 9.0km  
 nr= 10 gap=136 rms=0.24  
 Locality: Iszkaszentgyörgy  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	14.7	1	ePg	9:50:19.14			0.01
			eSg	50:21.83			0.22
PKST	17.1	281	ePg	9:50:19.49			0.01
			eSg	50:22.00			-0.24
PKSG	20.6	30	ePg	9:50:20.00			-0.04
			eSg	50:22.84			-0.40
MORH	116.7	165	ePn	9:50:36.50			0.25
			eSn	50:51.68			-0.41
PKSM	117.0	165	ePn	9:50:36.70			0.40
			eSn	50:52.08			-0.09

218.

2016-06-23 time: 7:23:59.35 UTC ML= 0.7  
 lat: 47.382N lon: 18.434E h= 0.0 km  
 erh= 0.8km erz= 88.3km  
 nr= 5 gap=317 rms=0.04  
 Locality: Gánt  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	3.4	288	ePg	7:23:59.92			-0.04
			eSg	24:00.44			0.00
CSKK	13.3	261	ePg	7:24:01.77			0.06
			eSg	24:03.58			0.02
PKST	33.2	246	eSg	7:24:09.84			-0.05

219.

2016-06-23 time: 8:05:57.84 UTC ML= 1.2  
 lat: 45.865N lon: 18.394E h= 0.0 km  
 erh= 1.8km erz= 309km  
 nr= 10 gap=257 rms=0.24  
 Locality: Kisharsány  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSV	11.3	283	ePg	8:05:59.74			-0.12
			eSg	06:01.73			0.29
KOVH	33.7	317	ePg	8:06:03.67			-0.18
			eSg	06:08.55			0.00
PKSM	43.0	26	ePg	8:06:05.44			-0.08
			eSg	06:11.37			-0.13
MORH	43.5	26	ePg	8:06:05.43			-0.17
			eSg	06:11.47			-0.19
PKB1	106.6	17	ePg	8:06:17.49			0.61
			eSg	06:32.02			0.28

220.

2016-06-23 time: 21:52:17.80 UTC ML= 1.7  
 lat: 47.768N lon: 18.187E h= 6.6 km  
 erh= 0.9km erz= 1.0km  
 nr= 41 gap= 65 rms=0.50  
 Locality: out of Hungary  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
SRO2	15.5	92	ePg	21:52:20.30			-0.51
			eSg	52:23.20			0.04
PKSG	44.5	160	ePg	21:52:26.20			0.36
			eSg	52:31.93			-0.18
CSKK	45.3	173	ePg	21:52:26.27			0.29
			eSg	52:31.98			-0.39

**Földrengés paraméterek**

PKST	57.8	191	ePg	21:52:27.56	-0.62
			eSg	52:35.20	-1.08
BUD	70.4	117	ePg	21:52:30.18	-0.24
			eSg	52:40.31	0.04
EGYH	75.2	239	ePg	21:52:31.70	0.41
			eSg	52:41.93	0.12
PENC	82.1	88	ePg	21:52:32.73	0.23
			eSg	52:44.26	0.29
MPLH	82.5	216	ePg	21:52:32.38	-0.19
			eSg	52:44.39	0.29
ZST	93.9	300	ePg	21:52:34.70	0.09
			eSg	52:47.10	-0.63
VYHS	94.1	31	ePg	21:52:35.00	0.36
			eSg	52:46.50	-1.28
MODS	95.6	315	ePg	21:52:35.10	0.20
			eSg	52:47.50	-0.75
TIH	99.0	193	ePg	21:52:35.31	-0.21
			eSg	52:49.20	-0.15
SMOL	100.3	326	ePg	21:52:36.00	0.25
			eSg	52:47.80	-1.96
PKB1	118.6	157	ePn	21:52:39.45	0.68
			eSn	52:54.09	-1.03
SOP	122.6	266	ePn	21:52:40.06	0.79
PSZ	128.9	83	ePn	21:52:40.16	0.10
			eSn	52:56.88	-0.54
PKS9	131.5	177	ePn	21:52:40.77	0.39
			eSn	52:57.07	-0.92
PKB4	144.9	167	eSn	21:53:00.59	-0.37
PKB2	145.5	147	ePn	21:52:42.84	0.71
			eSn	53:02.59	1.49
MORH	176.0	169	ePnC	21:52:45.24	-0.69
			eSn	53:07.63	-0.25
PKSM	176.4	169	ePnC	21:52:45.29	-0.69
			eSn	53:07.31	-0.66
KOVH	186.8	182	ePn	21:52:48.09	0.81
			eSn	53:13.03	2.75*

221.

2016-06-23 time: 22:38:49.30 UTC ML= 1.1  
 lat: 46.223N lon: 16.417E h= 10.0 km  
 erh= 2.6km erz= 2.3km  
 nr= 18 gap=128 rms=0.84  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOGS	28.1	333	iPg	22:38:54.34	-0.29
			iSg	38:57.76	-1.03
BEHE	38.9	45	ePg	22:38:57.49	1.01
			eSg	39:03.09	1.02
PTJ	50.5	225	ePg	22:38:58.66	0.16
			eSg	39:05.02	-0.65
GOLS	65.7	249	ePg	22:39:01.16	0.00
CRES	86.5	239	iPg	22:39:04.92	0.07
			iSg	39:16.74	-0.23
SOKA	117.8	295	Pn	22:39:09.78	0.04
			Sn	39:23.06	-2.63
KOVH	130.8	97	ePn	22:39:11.73	0.36
			eSn	39:27.48	-1.10
OBKA	147.3	282	Pn	22:39:15.76	2.34
			Sn	39:33.53	1.30
PKSM	171.6	90	ePn	22:39:16.16	-0.29
MORH	171.8	90	ePn	22:39:16.12	-0.36
			eSn	39:35.22	-2.46

222.

2016-06-24 time: 7:11:51.61 UTC ML= 1.8  
 lat: 48.449N lon: 19.160E h= 0.0 km  
 erh= 8.8km erz= \*\*\*km  
 nr= 6 gap=215 rms=0.75  
 Locality: Slovakia  
 Comments: probably explosion

**Hypocenter Parameters**

sta	dist	azm	phase	hr mn sec	res
VYHS	24.4	282	ePg	7:11:55.90	-0.07
			eSg	11:59.10	-0.28
PENC	73.7	173	ePg	7:12:06.19	1.42
			eSg	12:13.98	-1.06
PSZ	80.4	137	ePg	7:12:06.10	0.14
			eSg	12:16.54	-0.62

223.

2016-06-25 time: 0:32:59.81 UTC ML= 1.8  
 lat: 48.715N lon: 19.223E h= 10.0 km  
 erh= 2.7km erz= 4.4km  
 nr= 12 gap= 99 rms=0.74  
 Locality: Slovakia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
VYHS	37.6	229	ePg	0:33:06.60	-0.16
			eSg	33:10.90	-1.28
LANS	51.7	20	ePg	0:33:09.30	0.09
			eSg	33:15.50	-1.04
KECS	96.6	105	ePg	0:33:17.90	0.75
			eSg	33:28.90	-1.77
PSZ	101.6	151	ePg	0:33:18.67	0.64
			eSg	33:32.01	-0.24
PENC	102.8	178	ePg	0:33:18.37	0.11
			eSg	33:31.28	-1.37
OKC	147.4	328	ePn	0:33:24.60	0.66
			eSn	33:41.00	-1.77

224.

2016-06-27 time: 8:11:13.82 UTC ML= 1.2  
 lat: 47.087N lon: 17.983E h= 0.0 km  
 erh= 1.4km erz= 602km  
 nr= 17 gap= 87 rms=0.53  
 Locality: Litér  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	19.5	12	ePg	8:11:16.42	-0.88
			eSg	11:19.62	-0.39
TIH	21.9	198	ePg	8:11:18.17	0.43
			eSg	11:21.11	0.32
MPLH	34.9	285	ePg	8:11:20.05	0.00
			eSg	11:24.98	0.07
CSKK	37.2	34	eSg	8:11:26.21	0.57
PKSG	45.8	42	eSg	8:11:28.80	0.42
PKB1	70.2	119	eSg	8:11:37.92	1.78
BUD	90.2	61	ePg	8:11:30.17	0.24
			eSg	11:41.31	-1.19
MORH	109.3	152	ePg	8:11:33.21	-0.13
			eSg	11:48.02	-0.55
PKSM	109.6	153	ePg	8:11:33.24	-0.15
			eSg	11:48.15	-0.51
KOVH	111.4	175	ePg	8:11:33.93	0.21
			eSg	11:48.44	-0.80

225.

2016-06-28 time: 7:29:51.37 UTC ML= 0.9  
 lat: 47.417N lon: 18.388E h= 0.0 km  
 erh= 5.6km erz= 708km  
 nr= 6 gap=298 rms=0.43  
 Locality: Gánt  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	2.9	176	ePgC	7:29:51.85	-0.03
			eSg	29:52.45	0.17
CSKK	11.4	238	ePg	7:29:53.12	-0.28
			eSg	29:55.14	0.16
PKST	32.0	237	ePg	7:29:57.70	0.61
			eSg	30:00.57	-0.98

## Hypocenter Parameters

## Földrengés paraméterek

226.

2016-06-29 time: 6:58:11.16 UTC ML= 1.0  
 lat: 47.442N lon: 18.347E h= 0.0 km  
 erh= 4.4km erz= 561km  
 nr= 6 gap=280 rms=0.33  
 Locality: Oroszlány  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	6.4	150	ePg	6:58:12.35			0.04
			eSg	58:12.92			-0.29
CSKK	10.9	217	ePg	6:58:13.35			0.24
			eSg	58:15.17			0.54
PKST	31.2	229	ePg	6:58:16.67			-0.06
			eSg	58:20.43			-0.64

227.

2016-06-29 time: 8:47:04.97 UTC ML= 1.4  
 lat: 48.558N lon: 20.794E h= 0.0 km  
 erh= 2.5km erz= 3.2km  
 nr= 8 gap=154 rms=0.33  
 Locality: Tornanádaska  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	24.3	250	ePg	8:47:09.20			-0.10
			eSg	47:13.10			0.42
CRVS	62.2	52	ePg	8:47:16.40			0.32
			eSg	47:24.50			-0.25
PSZ	97.6	223	ePg	8:47:22.14			-0.26
			eSg	47:36.17			0.17
KOLS	116.5	69	eSg	8:47:42.10			0.10
VYHS	144.8	267	eSn	8:47:48.40			-1.23

228.

2016-06-30 time: 6:49:26.96 UTC ML= 1.2  
 lat: 47.110N lon: 18.002E h= 12.4 km  
 erh= 2.7km erz= 2.3km  
 nr= 16 gap= 88 rms=0.81  
 Locality: Litér  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKST	16.7	8	ePg	6:49:29.97			-0.70
			eSg	49:33.72			0.15
TIH	24.8	200	ePg	6:49:30.82			-1.09
			eSg	49:35.54			-0.23
CSKK	34.3	35	ePg	6:49:32.73			-0.73
			eSg	49:39.06			0.52
MPLH	35.7	281	ePg	6:49:34.81			1.10
			eSg	49:39.08			0.11
PKB1	70.2	121	eSg	6:49:52.09			2.46
PKB5	80.1	136	eSg	6:49:53.10			0.39
MORH	110.9	154	ePn	6:49:46.42			0.19
			eSn	50:00.69			-0.58
PKSM	111.2	154	ePn	6:49:46.57			0.30
			eSn	49:59.97			-1.37
KOVH	113.9	176	ePn	6:49:47.16			0.56
			eSn	50:01.29			-0.63

229.

2016-06-30 time: 8:00:20.95 UTC ML= 1.8  
 lat: 48.526N lon: 18.567E h= 0.0 km  
 erh= 5.9km erz= \*\*\*km  
 nr= 8 gap=191 rms=0.81  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
VYHS	20.2	100	ePg	8:00:23.80			-0.76
			eSg	00:27.50			0.13
SMOL	84.1	269	eSg	8:00:47.50			-0.18
MODS	96.9	260	ePg	8:00:38.40			0.15
			eSg	00:51.70			-0.05
PENC	97.6	147	eSg	8:00:52.63			0.66
PSZ	119.6	124	ePg	8:00:43.61			1.31
			eSg	00:57.09			-1.87

230.

2016-06-30 time: 10:08:21.34 UTC ML= 1.9  
 lat: 48.210N lon: 18.753E h= 0.0 km  
 erh= 2.4km erz= 4.1km  
 nr= 12 gap=100 rms=0.88  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
VYHS	32.2	11	ePg	10:08:27.10			0.01
			eSg	08:31.20			-0.37
PENC	61.1	140	eSg	10:08:40.66			-0.10
PSZ	91.1	111	ePg	10:08:39.13			1.53
			eSg	08:48.39			-1.89
PKSG	94.9	197	eSg	10:08:51.67			0.15
CSKK	101.1	201	eSg	10:08:53.66			0.17
MODS	111.0	279	ePg	10:08:41.50			0.34
			eSg	08:55.90			-0.73
PKST	118.7	207	eSg	10:08:57.43			-1.64
EGYH	138.2	230	eSn	10:09:05.25			0.71
MPLH	147.2	218	eSn	10:09:07.20			0.67

231.

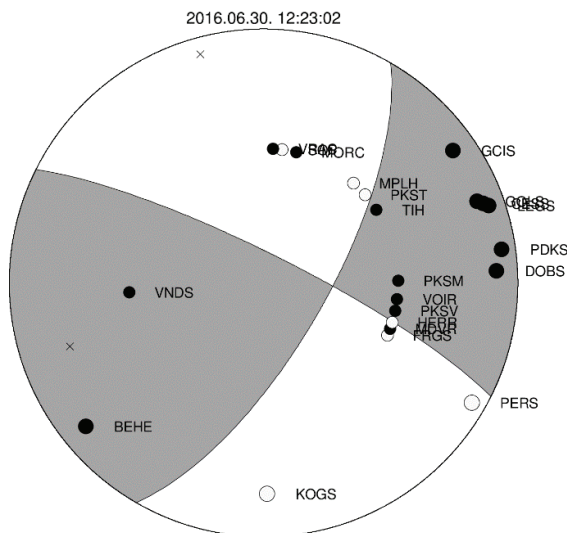
2016-06-30 time: 12:23:02.94 UTC ML= 3.1  
 lat: 46.178N lon: 16.254E h= 10.0 km  
 erh= 1.6km erz= 1.3km  
 nr= 66 gap=124 rms=0.85  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
KOGS	30.0	359	iPgD	12:23:09.14			0.55
			iSg	23:13.31			0.31
BEHE	51.7	51	ePgC	12:23:12.97			0.63
			eSg	23:20.22			0.55
GOLS	52.1	249	iPgC	12:23:12.88			0.47
			iSg	23:20.37			0.57
GCIS	59.5	235	iPgC	12:23:14.04			0.32
			iSg	23:20.68			-1.45
DOBS	60.7	267	iPgC	12:23:14.07			0.15
			iSg	23:22.41			-0.08
CESS	65.3	250	iPgC	12:23:15.19			0.46
			iSg	23:24.18			0.26
CRES	73.1	238	iPg	12:23:16.30			0.19
LEGS	76.8	251	iPgC	12:23:16.89			0.12
			iSg	23:27.66			0.11
PDKS	98.0	262	iPgC	12:23:20.37			-0.15
			iSg	23:32.72			-1.52
PERS	101.2	300	iPgD	12:23:20.34			-0.76
			iSg	23:32.82			-2.44
BOJS	108.0	226	iPn	12:23:21.80			-0.36
			iSn	23:36.40			-0.75
VISS	117.2	249	iPn	12:23:23.16			-0.15
VNDS	120.3	266	iPnC	12:23:23.85			0.16
			iSn	23:38.97			-0.91
ARSA	131.7	335	Pn	12:23:25.36			0.25
			Sn	23:43.08			0.67
GBRS	133.2	237	iPn	12:23:26.09			0.79
LJU	134.3	264	iPn	12:23:26.06			0.62
MOZS	140.3	275	iPn	12:23:27.03			0.85
GBAS	142.8	259	iPn	12:23:27.21			0.71
KOVH	143.0	94	ePn	12:23:26.14			-0.39
			eSn	23:42.65			-2.27

Földrengés paraméterek

Hypocenter Parameters

MPLH	147.8	42	ePnD	12:23:27.09	-0.03
			eSn	23:45.12	-0.87
TIH	149.2	57	ePnC	12:23:26.88	-0.41
			eSn	23:43.53	-2.76
CEY	149.8	251	iPn	12:23:28.37	0.99
CRNS	154.4	266	iPn	12:23:28.98	1.04
PKSV	158.0	102	ePnC	12:23:28.02	-0.38
			eSn	23:46.88	-1.38
EGYH	160.5	31	ePn	12:23:29.11	0.41
			eSn	23:47.44	-1.36
PKS9	162.3	74	ePn	12:23:28.50	-0.43
SOP	169.0	8	ePnD	12:23:30.11	0.35
			eSn	23:47.35	-3.33
PKST	181.6	49	ePnD	12:23:31.20	-0.14
PKSM	184.3	89	ePnC	12:23:30.95	-0.73
			eSn	23:55.96	1.86
PKB4	184.4	79	ePn	12:23:32.81	1.13
			eSn	23:58.32	4.22
MORH	184.6	89	ePn	12:23:31.00	-0.71
			eSn	23:51.48	-2.67
PKB5	196.5	76	ePn	12:23:32.10	-1.09
			eSn	24:01.89	5.10*
CSKK	202.1	49	ePn	12:23:33.63	-0.27
PKB1	206.3	71	ePn	12:23:33.31	-1.10
			eSn	24:04.13	5.17*
MYKA	207.1	284	Pn	12:23:36.03	1.52
PKB3	228.2	83	ePn	12:23:42.23	5.08
			eSn	24:12.41	8.57*
ZST	233.4	16	ePn	12:23:38.70	0.90
			eSn	24:02.60	-2.39
PKB2	236.2	76	ePn	12:23:44.51	6.36*
			eSn	24:13.36	7.75*
MOA	239.5	321	Pn	12:23:40.59	2.03
			Sn	24:07.12	0.77
SRO	240.0	41	ePn	12:23:39.10	0.48
MODS	256.1	18	ePn	12:23:40.40	-0.23
			eSn	24:09.00	-1.02
PENC	291.9	52	eSn	12:23:44.90	-33.07*
FRGS	300.4	113	PnD	12:23:41.94	-4.22*
			Sn	24:14.90	-4.96*
VYHS	323.1	37	ePn	12:23:48.90	-0.08*
			eSn	24:20.80	-4.10*
PSZ	337.6	55	ePn	12:23:49.89	-0.90*
VRAC	349.0	4	PnC	12:23:52.33	0.12*
KHC	385.0	329	ePn	12:23:58.70	2.00*
			eSn	24:38.50	-0.13*
MORC	411.6	14	PnC	12:24:00.57	0.56*
PRU	442.5	343	ePn	12:24:04.00	0.13*
MDVR	454.2	110	PnC	12:24:00.94	-4.38*
DPC	464.0	1	ePn	12:24:08.10	1.55*
HERR	502.5	107	PnD	12:24:06.93	-4.42*
NKC	532.3	328	ePn	12:24:16.10	1.03*
			eSn	25:09.40	-1.93*
VOIR	688.7	97	PnC	12:24:30.53	-4.03*



232.

2016-06-30 time: 17:49:08.06 UTC ML= 2.1  
 lat: 46.171N lon: 16.245E h= 11.2 km  
 erh= 1.7km erz= 1.2km  
 nr= 55 gap=125 rms=0.84  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
KOGS	30.9	1	iPgC	17:49:14.04			0.12
			iSg	49:18.21			-0.28
GOLS	51.2	250	iPgC	17:49:17.79			0.37
			iSg	49:25.06			0.34
BEHE	52.7	51	ePgD	17:49:17.96			0.28
			eSg	49:25.25			0.07
GCIS	58.5	235	iPg	17:49:18.93			0.23
DOBS	60.0	268	iPg	17:49:19.11			0.15
			iSg	49:27.17			-0.29
CESS	64.4	250	iPg	17:49:20.08			0.36
			iSg	49:28.91			0.09
CRES	72.1	238	iPg	17:49:21.17			0.08
LEGS	75.9	251	iPgC	17:49:21.79			0.03
			iSg	49:32.65			0.20
PDKS	97.2	263	iPgC	17:49:25.30			-0.23
			iSg	49:37.43			-1.73
PERS	101.0	301	iP*	17:49:25.34			-0.78
			eS*	49:37.55			-2.66
BOJS	107.0	226	iPn	17:49:26.86			-0.13
			eSn	49:40.64			-1.12
SOKA	109.0	301	Pn	17:49:26.57			-0.67
			Sn	49:40.41			-1.80
VISS	116.3	249	iPn	17:49:28.15			-0.01
VNDS	119.6	266	iPnC	17:49:28.73			0.17
			iSn	49:44.04			-0.52
ARSA	132.1	335	Pn	17:49:30.21			0.08
			Sn	49:46.23			-1.12
GBRS	132.2	237	iPn	17:49:31.00			0.86
OBKA	135.9	286	Pn	17:49:32.08			1.48
			Sn	49:48.04			-0.15
MOZS	139.7	276	iPn	17:49:32.09			1.02
GBAS	142.0	259	iPn	17:49:32.09			0.73
KOVH	143.6	94	ePnD	17:49:31.19			-0.37
			eSn	49:47.74			-2.16
MPLH	148.8	42	ePn	17:49:31.96			-0.26
			eSn	49:52.55			1.49
PKSV	158.5	101	ePn	17:49:33.00			-0.42
			eSn	49:51.63			-1.57
EGYH	161.5	31	ePn	17:49:34.05			0.26
			eSn	49:55.89			2.02
PKS9	163.2	74	ePn	17:49:31.39			-2.61
SOP	169.9	8	ePn	17:49:36.98			2.15

## Hypocenter Parameters

## Földrengés paraméterek

eSn 49:54.24 -1.48  
 PKST 182.6 49 ePn 17:49:36.14 -0.29  
 PKSM 185.0 89 ePn 17:49:35.92 -0.81  
 eSn 49:57.05 -2.04  
 PKB4 185.2 79 ePn 17:49:38.13 1.38  
 eSn 50:03.42 4.30\*  
 MORH 185.3 88 ePnC 17:49:35.93 -0.83  
 PKB5 197.3 76 eSn 17:50:05.97 4.16\*  
 CONA 197.6 352 Pn 17:49:39.92 1.63  
 Sn 50:03.21 1.34  
 PKB1 207.1 71 ePn 17:49:42.88 3.39  
 eSn 50:09.01 5.01\*  
 MOA 239.8 321 Pn 17:49:45.82 2.27  
 MODS 257.1 18 ePn 17:49:45.20 -0.51  
 eSn 50:11.70 -3.38\*  
 VYHS 324.2 37 ePn 17:49:53.40 -0.67\*  
 eSn 50:27.10 -2.87\*

233.

2016-07-01 time: 8:17:01.42 UTC ML= 0.7  
 lat: 47.296N lon: 18.669E h= 0.0 km  
 erh= 3.4km erz= 311km  
 nr= 5 gap=328 rms=0.14  
 Locality: Vereb  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	23.6	297	ePg	8:17:05.83			0.19
			eSg	17:08.88			-0.05
CSKK	31.8	284	ePg	8:17:06.91			-0.19
			eSg	17:11.49			-0.04
PKST	48.2	265	eSg	8:17:16.83			0.08

234.

2016-07-01 time: 8:41:45.27 UTC ML= 0.9  
 lat: 47.054N lon: 18.026E h= 0.0 km  
 erh= 5.2km erz= 758km  
 nr= 6 gap=253 rms=0.46  
 Locality: Balatonfüzfő  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	22.8	2	ePg	8:41:48.67			-0.68
			eSg	41:52.25			-0.28
CSKK	38.7	27	eSg	8:41:58.38			0.80
MPLH	39.1	289	ePg	8:41:52.60			0.34
			eSg	41:57.53			-0.19
PKSG	46.6	36	ePg	8:41:53.73			0.13

235.

2016-07-02 time: 6:28:12.26 UTC ML= 1.9  
 lat: 46.738N lon: 16.499E h= 1.4 km  
 erh= 2.0km erz= 2.7km  
 nr= 15 gap= 86 rms=0.81  
 Locality: Alsószenterzsébet  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
BEHE	36.5	145	ePg	6:28:19.04			0.26
KOGS	37.4	211	ePg	6:28:19.24			0.30
			eSg	28:24.05			-0.11
MPLH	92.6	59	ePg	6:28:28.24			-0.56
			eSg	28:41.55			-0.15
ARSA	93.6	308	Pg	6:28:29.23			0.26
			Sg	28:41.66			-0.34
EGYH	98.5	40	ePg	6:28:28.78			-1.07
			eSg	28:44.33			0.76
SOKA	112.3	267	Pg	6:28:31.59			-0.73
			Sg	28:45.83			-2.14
CONA	140.8	340	Pn	6:28:38.46			1.78
			Sn	28:56.15			0.43
OBKA	151.5	260	Pn	6:28:38.67			0.66

236.

2016-07-02 time: 8:59:21.50 UTC ML= 0.6  
 lat: 46.167N lon: 18.290E h= 0.0 km  
 erh= 1.1km erz= 210km  
 nr= 8 gap=199 rms=0.15  
 Locality: Zobákpuszta  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	17.1	239	ePgC	8:59:24.39			-0.16
			eSg	59:27.20			0.28
PKSM	27.6	79	ePgC	8:59:26.44			0.01
			eSg	59:30.11			-0.17
MORH	27.9	79	ePgC	8:59:26.48			-0.01
			eSg	59:30.69			0.32
PKSV	31.0	185	ePg	8:59:26.95			-0.09
			eSg	59:31.49			0.12

237.

2016-07-04 time: 8:40:24.27 UTC ML= 0.5  
 lat: 47.186N lon: 18.199E h= 0.0 km  
 erh= 5.2km erz= \*\*\*km  
 nr= 8 gap=149 rms=0.97  
 Locality: Csőr  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	14.9	303	ePg	8:40:26.74			-0.19
			eSg	40:28.95			-0.06
CSKK	20.2	13	ePg	8:40:27.28			-0.60
			eSg	40:30.92			0.22
MORH	113.1	162	ePg	8:40:46.03			1.57
			eSg	40:59.10			-1.11
PKSM	113.4	163	ePg	8:40:45.58			1.05
			eSg	40:58.57			-1.76

238.

2016-07-04 time: 9:52:22.32 UTC ML= 2.2  
 lat: 48.324N lon: 21.126E h= 23.7 km  
 erh= 2.8km erz= 3.5km  
 nr= 9 gap=100 rms=0.38  
 Locality: Encs  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
KECS	50.6	290	ePg	9:52:31.30			-0.65
			eSg	52:39.50			0.03
CRVS	68.9	21	ePg	9:52:35.40			0.69
			eSg	52:44.10			-0.27
PSZ	102.2	244	ePn	9:52:39.52			0.30
			eSn	52:52.13			-0.26
KOLS	108.4	51	ePn	9:52:40.00			0.02
			eSn	52:53.90			0.14
LTVH	119.4	151	eSn	9:52:56.03			-0.18

239.

2016-07-04 time: 10:23:53.83 UTC ML= 0.8  
 lat: 46.044N lon: 18.117E h= 0.0 km  
 erh= 3.9km erz= 736km  
 nr= 9 gap=280 rms=0.56  
 Locality: Pellérd  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	5.1	345	ePg	10:23:54.43			-0.31
			eSg	23:55.45			0.00
PKSM	44.6	65	ePg	10:24:01.91			0.11
			eSg	24:07.74			-0.27



## Földrengés paraméterek

MORH 45.0 65 ePg 10:24:01.95 0.08  
 eSg 24:08.26 0.13  
 PKB4 62.7 37 eSg 10:24:14.91 1.14  
 PKB5 77.6 38 eSg 10:24:18.58 0.08  
 PKB1 97.3 32 eSg 10:24:22.64 -2.12

240.

2016-07-05 time: 7:51:10.21 UTC ML= 1.1  
 lat: 47.317N lon: 18.454E h= 0.0 km  
 erh= 2.4km erz= 410km  
 nr= 6 gap=203 rms=0.24  
 Locality: Pátka  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	9.6	330	ePgC	7:51:12.03			0.10
			eSg	51:12.66			-0.60
CSKK	15.5	289	ePg	7:51:13.27			0.29
			eSg	51:15.19			0.06
PKST	32.4	259	ePg	7:51:15.86			-0.13
MORH	123.3	173	eSg	7:51:49.31			-0.09

241.

2016-07-05 time: 8:57:28.21 UTC ML= 0.5  
 lat: 47.204N lon: 18.286E h= 0.0 km  
 erh= 4.8km erz= 579km  
 nr= 5 gap=267 rms=0.26  
 Locality: Csór  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	17.8	354	ePg	8:57:31.67			0.28
			eSg	57:33.55			-0.32
PKST	20.0	288	eSg	8:57:34.61			0.03
PKSG	22.3	21	ePg	8:57:31.93			-0.27
			eSg	57:35.59			0.28

242.

2016-07-06 time: 6:27:18.64 UTC ML= 0.5  
 lat: 47.336N lon: 18.294E h= 7.9 km  
 erh= 5.9km erz= 3.6km  
 nr= 6 gap=196 rms=0.12  
 Locality: Csákberény  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	3.9	319	ePg	6:27:20.40			0.18
			eSg	27:21.30			-0.15
PKSG	9.5	50	ePg	6:27:20.71			-0.14
			eSg	27:22.61			0.03
PKST	21.5	246	ePg	6:27:22.73			0.00
			eSg	27:25.98			0.06

243.

2016-07-06 time: 7:27:17.52 UTC ML= 0.9  
 lat: 47.566N lon: 18.454E h= 0.0 km  
 erh= 8.2km erz= \*\*\*km  
 nr= 7 gap=178 rms=0.67  
 Locality: Tatabánya  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	19.9	194	ePg	7:27:20.88			-0.20
			eSg	27:23.72			-0.13
CSKK	26.8	213	ePg	7:27:22.09			-0.22
			eSg	27:26.80			0.75
PKST	46.5	223	eSg	7:27:32.23			-0.08
VYHS	107.1	15	ePg	7:27:37.50			0.85
			eSg	27:49.80			-1.76

## Hypocenter Parameters

244.

2016-07-07 time: 1:00:12.69 UTC ML= 0.7  
 lat: 47.247N lon: 17.835E h= 10.0 km  
 erh= 1.1km erz= 1.0km  
 nr= 17 gap=132 rms=0.32  
 Locality: Zirc  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKST	15.1	85	ePg	1:00:15.55			-0.38
			eSg	00:18.38			-0.07
MPLH	24.0	249	ePg	1:00:17.16			-0.17
			eSg	00:20.40			-0.54
CSKK	34.7	68	eSg	1:00:23.95			-0.21
TIH	38.8	174	ePg	1:00:20.20			0.35
			eSg	00:24.99			-0.44
EGYH	42.5	296	ePg	1:00:20.60			0.12
			eSg	00:26.62			0.05
PKSG	45.0	69	ePg	1:00:21.26			0.34
			eSg	00:27.14			-0.20
PKB4	102.0	145	ePg	1:00:31.41			0.43
			eSg	00:42.88			-2.37*
MORH	130.2	152	ePn	1:00:34.66			-0.02
KOVH	130.4	171	ePn	1:00:34.97			0.27
			eSn	00:51.96			0.09
PKSM	130.5	152	ePn	1:00:34.55			-0.17
			eSn	00:50.68			-1.22

245.

2016-07-07 time: 7:00:06.32 UTC ML= 1.1  
 lat: 47.460N lon: 18.375E h= 0.0 km  
 erh= 5.6km erz= 690km  
 nr= 6 gap=302 rms=0.42  
 Locality: Várgesztes  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	7.7	171	ePgC	7:00:07.81			0.12
			eSg	00:08.61			-0.15
CSKK	13.8	219	ePgC	7:00:09.05			0.26
			eSg	00:10.95			0.23
PKST	34.1	229	ePg	7:00:12.30			-0.12
			eSg	00:15.37			-1.80

246.

2016-07-12 time: 7:44:36.91 UTC ML= 0.9  
 lat: 47.058N lon: 18.062E h= 0.0 km  
 erh= 3.5km erz= 743km  
 nr= 7 gap=192 rms=0.49  
 Locality: Balatonfűzfő  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
TIH	21.7	216	ePg	7:44:40.77			-0.02
PKST	22.5	355	ePg	7:44:40.40			-0.52
			eSg	44:44.55			0.50
CSKK	37.1	24	ePg	7:44:43.66			0.12
			eSg	44:48.53			-0.18
MPLH	41.5	287	ePg	7:44:45.07			0.75
			eSg	44:49.27			-0.84

247.

2016-07-13 time: 9:38:40.17 UTC ML= 1.7  
 lat: 48.633N lon: 20.695E h= 0.0 km  
 erh= 2.7km erz= 3.6km  
 nr= 7 gap=155 rms=0.51  
 Locality: Slovakia  
 Comments: probably explosion

## Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
CRVS	63.8	62	ePg	9:38:51.10	-0.47
PSZ	99.2	217	ePg	9:38:57.94	0.06
			eSg	39:11.33	-0.37
LANS	106.8	303	ePg	9:38:59.90	0.65
			eSg	39:14.30	0.17
VYHS	138.1	264	ePn	9:39:04.90	0.48
			eSn	39:22.20	-1.13

248.

2016-07-14 time: 10:13:55.93 UTC ML= 0.7  
 lat: 47.173N lon: 18.343E h= 0.0 km  
 erh= 4.0km erz= 642km  
 nr= 8 gap=261 rms=0.46  
 Locality: Székesfehérvár  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	22.0	344	ePg	10:13:59.73	-0.13
			eSg	14:03.12	0.20
PKSG	24.6	8	ePg	10:14:00.19	-0.13
			eSg	14:04.21	0.47
PKST	25.2	292	ePg	10:13:59.81	-0.63
			eSg	14:03.25	-0.70
MPLH	60.9	270	ePg	10:14:07.23	0.43
			eSg	14:15.98	0.69

249.

2016-07-15 time: 8:44:52.69 UTC ML= 1.4  
 lat: 48.612N lon: 20.750E h= 0.0 km  
 erh= 3.4km erz= 682km  
 nr= 6 gap=147 rms=0.39  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CRVS	61.4	58	ePg	8:45:03.70	0.04
			eSg	45:11.70	-0.51
PSZ	100.0	219	ePg	8:45:11.09	0.54
			eSg	45:23.83	-0.64
LANS	111.5	302	ePg	8:45:12.60	0.00
KOLS	117.5	72	eSg	8:45:30.30	0.27

250.

2016-07-15 time: 9:24:15.21 UTC ML= 1.5  
 lat: 45.556N lon: 17.305E h= 15.5 km  
 erh= 2.0km erz= 1.3km  
 nr= 9 gap=227 rms=0.11  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	82.5	63	eP*	9:24:29.93	-0.13
			eS*	24:39.41	-2.23*
KOVH	85.6	46	eP*	9:24:30.61	0.09
			eS*	24:42.48	0.01
PTJ	111.6	290	eSn	9:24:49.01	0.03
PKSM	126.8	55	ePn	9:24:36.01	-0.07
			eSn	24:52.23	-0.13
MORH	127.3	55	ePn	9:24:36.27	0.14
			eSn	24:52.47	0.02

251.

2016-07-18 time: 11:46:15.09 UTC ML= 1.3  
 lat: 47.862N lon: 19.107E h= 0.0 km  
 erh= 0.6km erz= 1.3km  
 nr= 9 gap=105 rms=0.75  
 Locality: Szendehely  
 Comments: probably explosion

## Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
PENC	15.3	121	ePg	11:46:17.85	0.03
			eSg	46:19.71	-0.23
PSZ	59.2	84	ePg	11:46:25.56	-0.10
			eSg	46:33.61	-0.30
VYHS	73.1	344	ePg	11:46:29.10	0.96
			eSg	46:39.00	0.67
PKSG	75.0	226	eSg	11:46:39.61	0.67
MODS	147.7	293	ePn	11:46:39.40	-1.13
			eSn	46:58.20	-2.18

252.

2016-07-19 time: 10:48:27.58 UTC ML= 0.6  
 lat: 47.192N lon: 18.309E h= 0.0 km  
 erh= 2.9km erz= 448km  
 nr= 7 gap=252 rms=0.30  
 Locality: Székesfehérvár  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	19.4	349	ePg	10:48:31.14	0.10
			eSg	48:34.12	0.38
PKST	22.1	290	ePg	10:48:31.28	-0.24
			eSg	48:34.28	-0.32
PKSG	23.1	16	ePg	10:48:31.48	-0.22
			eSg	48:34.74	-0.17
MPLH	58.4	268	ePg	10:48:38.49	0.49

253.

2016-07-21 time: 7:23:24.39 UTC ML= 1.8  
 lat: 48.630N lon: 18.387E h= 0.0 km  
 erh= 2.6km erz= 2.0km  
 nr= 10 gap=196 rms=0.34  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	36.4	115	ePg	7:23:30.90	0.00
			eSg	23:35.90	-0.07
SMOL	71.9	260	eSg	7:23:47.80	0.54
MODS	86.9	251	ePg	7:23:39.60	-0.30
			eSg	23:51.50	-0.50
PENC	114.6	145	ePg	7:23:45.30	0.44
			eSg	24:00.98	0.15
PSZ	137.1	125	ePn	7:23:48.33	-0.19
			eSn	24:06.84	-0.49
KECS	155.8	96	ePn	7:23:51.20	0.35

254.

2016-07-21 time: 7:46:20.80 UTC ML= 1.0  
 lat: 47.443N lon: 18.387E h= 0.0 km  
 erh= 6.1km erz= 702km  
 nr= 5 gap=305 rms=0.32  
 Locality: Várgesztes  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	5.7	177	ePgC	7:46:21.79	-0.03
			eSg	46:22.59	-0.02
CSKK	13.0	227	ePgC	7:46:23.07	-0.05
			eSg	46:24.54	-0.40
PKST	33.6	232	eSg	7:46:32.38	0.91

255.

2016-07-21 time: 11:08:03.83 UTC ML= 1.7  
 lat: 48.243N lon: 21.213E h= 10.0 km  
 erh= 3.2km erz= 2.5km  
 nr= 7 gap=204 rms=0.32  
 Locality: Tállya  
 Comments:

## Földrengés paraméterek

## Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
KECS	60.2	296	ePg	11:08:14.90	0.18
			eSg	08:23.30	0.09
CRVS	75.6	14	ePg	11:08:17.50	0.06
			eSg	08:27.70	-0.36
PSZ	104.7	250	eP*	11:08:22.99	0.43
			eS*	08:36.48	-0.69
KOLS	109.6	46	eSn	11:08:38.20	-0.19

256.

2016-07-22 time: 23:40:11.24 UTC ML= 0.0  
 lat: 47.247N lon: 18.382E h= 10.0 km  
 erh= 3.2km erz= 5.1km  
 nr= 6 gap=271 rms=0.17  
 Locality: Sárkeresztos  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	15.9	325	ePg	23:40:14.43	-0.16
			eSg	40:16.98	-0.22
PKSG	16.1	2	ePgc	23:40:14.63	0.00
			eSg	40:17.65	0.37
PKST	26.3	273	ePg	23:40:16.27	0.00
			eSg	40:20.38	0.18

257.

2016-07-26 time: 9:33:44.83 UTC ML= 1.6  
 lat: 48.705N lon: 19.269E h= 0.0 km  
 erh= 2.3km erz= 731km  
 nr= 7 gap=143 rms=0.48  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	39.6	234	ePg	9:33:51.90	0.00
			eSg	33:56.90	-0.51
LANS	51.7	16	ePg	9:33:54.20	0.14
			eSg	34:01.10	-0.16
KECS	93.1	105	eSg	9:34:13.80	-0.62
PSZ	99.0	152	ePg	9:34:03.49	0.98
			eSg	34:16.15	-0.15

258.

2016-07-26 time: 10:28:44.94 UTC ML= 0.4  
 lat: 47.172N lon: 18.315E h= 0.0 km  
 erh= 1.9km erz= 227km  
 nr= 5 gap=281 rms=0.10  
 Locality: Székesfehérvár  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	21.6	349	ePg	10:28:48.91	0.11
			eSg	28:51.69	-0.12
PKST	23.3	294	ePg	10:28:48.98	-0.12
			eSg	28:52.46	0.11
PKSG	25.1	13	ePg	10:28:49.44	0.02

259.

2016-07-26 time: 16:19:46.81 UTC ML= 1.7  
 lat: 47.426N lon: 16.892E h= 16.2 km  
 erh= 2.4km erz= 1.9km  
 nr= 24 gap= 76 rms=0.92  
 Locality: Nemesládony  
 Comments:

sta	dist	azm	phase	hr mn sec	res
EGYH	33.2	92	ePg	16:19:53.05	-0.37
			eSg	19:58.13	-0.44
SOP	38.0	319	ePg	16:19:54.29	0.09

sta	dist	azm	phase	hr mn sec	res
MPLH	56.7	120	eSg	19:59.00	-0.96
			ePg	16:19:57.46	0.12
			eSg	20:02.68	-2.87
ZST	87.1	10	eP*	16:20:03.70	1.41
			eS*	20:14.90	0.55
PKST	88.3	102	eP*	16:20:02.33	-0.15
			eS*	20:12.43	-2.27
CONA	95.4	306	P*	16:20:03.73	0.18
			S*	20:15.93	-0.68
CSKK	103.6	94	eSn	16:20:17.89	-0.74
ARSA	105.3	259	Pn	16:20:04.53	-0.37
			Sn	20:16.77	-2.24
BEHE	106.6	185	ePn	16:20:05.54	0.47
			eSn	20:19.19	-0.12
MODS	109.2	15	ePn	16:20:06.20	0.81
			eSn	20:18.60	-1.29
PKSG	113.2	92	eSn	16:20:20.62	-0.15
SOKA	163.9	240	Pn	16:20:12.97	0.76
			Sn	20:32.92	0.89
KOVH	175.0	148	ePn	16:20:16.59	2.99
			eSn	20:35.28	0.79

260.

2016-07-28 time: 7:03:11.75 UTC ML= 0.8  
 lat: 46.690N lon: 18.529E h= 10.0 km  
 erh= 3.0km erz= 7.6km  
 nr= 9 gap=183 rms=0.62  
 Locality: Kiszszékely  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKB5	19.0	124	ePg	7:03:16.10	0.51
			eSg	03:18.30	-0.28
PKB4	22.3	165	eSg	7:03:20.90	1.38
PKS9	22.3	239	ePg	7:03:16.60	0.48
			eSg	03:19.10	-0.43
PKB1	22.7	62	ePg	7:03:16.50	0.33
			eSg	03:19.00	-0.62
PKSM	53.9	171	ePg	7:03:20.90	-0.63
			eSg	03:28.40	-0.77

261.

2016-07-29 time: 9:42:29.64 UTC ML= 1.5  
 lat: 48.378N lon: 19.839E h= 0.0 km  
 erh= 2.2km erz= 5.5km  
 nr= 7 gap=144 rms=0.50  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	49.2	76	ePg	9:42:38.50	0.07
			eSg	42:44.70	-0.59
PSZ	51.3	175	ePg	9:42:38.90	0.10
			eSg	42:45.55	-0.39
VYHS	75.3	280	ePg	9:42:43.50	0.41
			eSg	42:52.70	-0.88
CRVS	133.0	64	ePn	9:42:54.00	0.75

262.

2016-08-01 time: 5:15:21.69 UTC ML= 0.4  
 lat: 47.372N lon: 18.265E h= 9.9 km  
 erh= 3.7km erz= 0.7km  
 nr= 6 gap=203 rms=0.06  
 Locality: Csókakő  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	1.1	200	ePgD	5:15:23.49	0.02
			eSg	15:24.75	-0.11
PKSG	9.7	77	ePg	5:15:24.19	0.02
			eSg	15:26.07	-0.03
PKST	21.5	234	ePgD	5:15:25.88	-0.05

## Hypocenter Parameters

## Földregés paraméterek

eSg 15:29.40 0.17  
 263.

2016-08-01 time: 19:50:33.30 UTC ML= 1.6  
 lat: 47.150N lon: 18.370E h= 10.0 km  
 erh= 1.1km erz= 1.6km  
 nr= 34 gap= 75 rms=0.58  
 Locality: Sárszentmihály  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	25.2	341	ePg	19:50:38.00			-0.14
			eSg	50:41.45			-0.46
PKSG	27.0	3	ePgD	19:50:38.25			-0.19
			eSg	50:41.95			-0.50
PKST	28.2	296	ePg	19:50:38.45			-0.20
			eSg	50:42.48			-0.34
TIH	45.7	233	ePg	19:50:40.94			-0.71
			eSg	50:47.05			-1.11
PKB1	51.8	142	ePgC	19:50:42.85			0.13
			eSg	50:49.02			-1.04
PKS9	62.9	186	ePg	19:50:45.81			1.13
			eSg	50:54.66			1.11
MPLH	63.0	272	ePg	19:50:44.58			-0.12
			eSg	50:53.59			0.00
PKB5	67.6	156	ePg	19:50:45.62			0.11
			eSg	50:54.41			-0.63
PKB4	74.8	166	ePg	19:50:47.06			0.29
			eSg	50:56.20			-1.08
EGYH	84.0	291	ePg	19:50:49.30			0.89
			eSg	51:00.67			0.48
PKB2	84.9	128	ePg	19:50:49.79			1.23
			eSg	51:00.68			0.22
PKS2	97.4	139	ePg	19:50:51.12			0.34
			eSg	51:03.50			-0.91
PENC	99.0	44	ePg	19:50:50.52			-0.55
			eSg	51:05.66			0.73
PKB3	102.3	142	ePg	19:50:51.63			-0.03
			eSg	51:04.66			-1.33
PKSM	106.3	169	eP*	19:50:51.90			-0.38
			eS*	51:05.09			-1.99
KOVH	119.8	190	ePn	19:50:54.19			0.20
			eSn	51:09.59			-0.54
PSZ	143.1	53	ePn	19:50:57.07			0.17
			eSn	51:15.32			0.01

264.

2016-08-02 time: 0:29:12.47 UTC ML= 1.6  
 lat: 47.152N lon: 18.365E h= 11.5 km  
 erh= 1.2km erz= 1.2km  
 nr= 39 gap= 75 rms=0.65  
 Locality: Sárszentmihály  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	24.8	341	ePg	0:29:17.26			-0.09
			eSg	29:19.89			-1.27
PKSG	26.8	4	ePg	0:29:17.51			-0.16
			eSg	29:21.38			-0.35
PKST	27.8	295	ePg	0:29:17.70			-0.14
			eSg	29:20.43			-1.60
TIH	45.5	232	ePg	0:29:20.40			-0.46
			eSg	29:26.63			-0.77
PKB1	52.2	142	ePgC	0:29:22.11			0.10
			eSg	29:28.30			-1.15
BUD	62.0	53	ePg	0:29:24.85			1.13
			eSg	29:31.32			-1.18
MPLH	62.7	272	ePg	0:29:23.86			0.01
			eSg	29:32.76			0.04
PKS9	63.1	186	ePg	0:29:25.84			1.91
			eSg	29:34.14			1.28
PKB5	68.0	155	ePg	0:29:24.81			0.02
			eSg	29:33.61			-0.79

PKB4	75.1	166	ePg	0:29:26.26			0.23
			eSg	29:35.41			-1.21
EGYH	83.6	291	ePg	0:29:28.32			0.78
			eSg	29:39.65			0.36
PKB2	85.3	128	eSg	0:29:40.26			0.44
PKS2	97.8	139	eP*	0:29:30.36			0.34
			eS*	29:43.35			-0.35
PENC	99.1	44	eP*	0:29:30.24			0.03
			eS*	29:43.30			-0.75
PKB3	102.8	142	eP*	0:29:31.05			0.28
			eS*	29:44.05			-1.00
MORH	106.2	168	ePn	0:29:31.07			-0.21
			eSn	29:43.57			-2.37
PKSM	106.6	169	ePn	0:29:31.20			-0.12
			eSn	29:43.51			-2.52
KOVH	119.9	190	ePn	0:29:33.53			0.54
			eSn	29:47.82			-1.18
PSZ	143.2	53	ePn	0:29:36.14			0.25
			eSn	29:54.38			0.21
MODS	158.5	329	ePn	0:29:37.60			-0.19
			eSn	29:55.90			-1.65

265.

2016-08-02 time: 1:36:50.25 UTC ML= 2.1  
 lat: 47.149N lon: 18.369E h= 10.0 km  
 erh= 0.7km erz= 0.8km  
 nr= 43 gap= 47 rms=0.41  
 Locality: Sárszentmihály  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	25.2	341	ePg	1:36:55.00			-0.09
PKSG	27.1	4	ePg	1:36:55.38			-0.03
PKST	28.1	296	ePg	1:36:55.49			-0.09
			eSg	36:59.80			0.06
TIH	45.5	233	ePgD	1:36:58.26			-0.32
			eSg	37:04.35			-0.72
PKB1	51.8	141	ePgC	1:36:59.94			0.27
PKS7	61.2	101	ePg	1:37:01.87			0.55
			eSg	37:10.22			0.26
BUD	62.0	53	ePg	1:37:01.08			-0.38
			eSg	37:09.02			-1.18
PKS9	62.8	186	ePg	1:37:02.07			0.46
			eSg	37:11.98			1.50
MPLH	62.9	272	ePg	1:37:01.70			0.07
			eSg	37:10.41			-0.09
PKB5	67.6	156	ePg	1:37:02.64			0.18
			eSg	37:11.45			-0.53
PKB4	74.7	166	ePg	1:37:03.91			0.20
			eSg	37:13.39			-0.83
EGYH	83.9	291	ePgC	1:37:05.75			0.41
			eSg	37:17.60			0.48
PKB2	84.9	128	eSg	1:37:17.69			0.26
PKS2	97.4	139	ePg	1:37:08.15			0.41
			eSg	37:20.90			-0.47
PENC	99.1	44	ePg	1:37:07.67			-0.38
			eSg	37:22.03			0.11
PKB3	102.4	142	ePg	1:37:08.62			0.00
			eSg	37:22.45			-0.49
MORH	105.8	169	eP*	1:37:08.79			-0.37
			eS*	37:21.31			-2.60*
PKSM	106.2	169	eP*	1:37:08.92			-0.30
			eS*	37:21.59			-2.43*
PKS6	109.7	124	ePn	1:37:10.02			0.33
			eSn	37:24.81			-0.04
KOVH	119.7	190	ePn	1:37:10.90			-0.03
			eSn	37:26.05			-1.01
PSZ	143.3	53	ePn	1:37:14.05			0.18
			eSn	37:32.39			0.10
SOP	149.0	294	ePn	1:37:14.12			-0.46
MODS	158.9	329	ePn	1:37:15.10			-0.72
			eSn	37:33.60			-2.16*
CONA	207.7	295	Pn	1:37:22.08			0.17
			Sn	37:47.86			1.27

## Földrengés paraméterek

ARSA 215.9 273 Pn 1:37:23.07 0.14  
 Sn 37:49.63 1.21  
 MOA 318.8 284 Pn 1:37:36.73 0.97\*  
 Sn 38:10.86 -0.39\*  
 KHC 419.2 302 ePn 1:37:49.00 0.73\*  
 eSn 38:29.90 -3.63\*

266.

2016-08-02 time: 7:41:58.61 UTC ML= 1.0  
 lat: 45.865N lon: 18.407E h= 0.0 km  
 erh= 1.3km erz= 195km  
 nr= 8 gap=257 rms=0.14  
 Locality: Nagyharsány  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSV	12.3	282	ePg	7:42:00.50			-0.31
			eSg	42:02.77			0.25
KOVH	34.4	316	ePg	7:42:04.83			0.08
			eSg	42:09.39			-0.15
PKSM	42.6	25	ePgC	7:42:06.26			0.04
			eSg	42:12.20			0.05
MORH	43.1	25	ePgC	7:42:06.33			0.02
			eSg	42:12.28			-0.03

267.

2016-08-02 time: 7:56:49.92 UTC ML= 1.4  
 lat: 48.616N lon: 20.729E h= 0.0 km  
 erh= 2.9km erz= 4.3km  
 nr= 11 gap=146 rms=0.72  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	23.3	231	ePg	7:56:54.30			0.23
			eSg	56:58.20			0.88
CRVS	62.5	59	ePg	7:57:01.40			0.32
			eSg	57:09.50			-0.29
PSZ	99.3	219	ePg	7:57:08.11			0.46
			eSg	57:19.63			-1.85
LANS	110.0	303	ePg	7:57:10.00			0.44
			eSg	57:23.90			-0.97
KOLS	118.8	73	eSg	7:57:27.30			-0.39
VYHS	140.4	264	ePn	7:57:15.00			0.54
			eSn	57:32.30			-1.30

268.

2016-08-02 time: 8:19:21.35 UTC ML= 1.7  
 lat: 48.667N lon: 19.127E h= 0.0 km  
 erh= 3.3km erz= \*\*\*km  
 nr= 8 gap=157 rms=0.79  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
VYHS	28.9	228	ePg	8:19:26.20			-0.31
			eSg	19:30.10			-0.43
LANS	59.2	25	ePg	8:19:32.40			0.48
			eSg	19:39.90			-0.27
PENC	98.2	173	eSg	8:19:52.44			-0.12
PSZ	100.9	146	ePg	8:19:41.22			1.85
			eSg	19:52.80			-0.62
KECS	102.3	102	eSg	8:19:53.00			-0.87

## Hypocenter Parameters

269.

2016-08-02 time: 8:58:16.40 UTC ML= 1.9  
 lat: 48.414N lon: 17.310E h= 0.0 km  
 erh= 3.7km erz= 2.7km  
 nr= 18 gap=202 rms=0.98  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
MODS	5.1	209	ePg	8:58:17.20			-0.11
			eSg	58:18.60			0.59
ZST	28.7	212	ePg	8:58:21.50			-0.02
			eSg	58:25.40			-0.12
EGYH	110.8	179	ePg	8:58:37.60			1.41
			eSg	58:52.97			1.34
VYHS	113.2	85	ePg	8:58:37.00			0.37
			eSg	58:52.40			0.00
CONA	120.5	243	Pg	8:58:37.20			-0.72
			Sg	58:50.57			-4.13
MPLH	139.3	173	ePn	8:58:41.68			0.87
			eSn	58:58.78			-1.07
PKST	139.4	157	ePn	8:58:41.89			1.08
			eSn	58:57.23			-2.62
PKSG	139.4	145	ePn	8:58:40.31			-0.51
			eSn	58:58.36			-1.51
ARSA	186.1	226	Pn	8:58:46.53			-0.11
			Sn	59:09.75			-0.47

270.

2016-08-03 time: 11:32:52.46 UTC ML= 1.7  
 lat: 47.987N lon: 19.899E h= 0.0 km  
 erh= 4.2km erz= 5.7km  
 nr= 7 gap=154 rms=0.70  
 Locality: Szuha  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	7.7	182	ePg	11:32:53.54			-0.30
			eSg	32:55.11			0.20
PENC	51.1	245	ePg	11:33:01.55			-0.03
			eSg	33:09.59			0.89
KECS	70.3	38	ePg	11:33:04.20			-0.82
			eSg	33:16.30			1.50
PKSG	131.2	240	eSn	11:33:33.45			-0.64

271.

2016-08-04 time: 2:53:15.32 UTC ML= 1.8  
 lat: 47.679N lon: 20.248E h= 5.7 km  
 erh= 3.5km erz= 2.8km  
 nr= 26 gap=145 rms=1.28  
 Locality: Tarnabod  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PSZ	37.6	315	ePg	2:53:22.37			0.26
			eSg	53:27.78			0.38
BSZH	42.1	178	eSg	2:53:29.01			0.18
PENC	73.5	280	ePg	2:53:28.64			0.15
			eSg	53:39.93			1.17
KECS	91.2	11	ePg	2:53:31.50			-0.14
			eSg	53:43.70			-0.67
PKSN	91.5	198	eSg	2:53:43.44			-1.02
PKS7	108.0	229	ePg	2:53:34.01			-0.62
			eSg	53:47.90			-1.80
PKB2	135.2	214	ePn	2:53:38.48			0.00
PKSG	143.4	257	eSn	2:53:56.62			-1.76
PKB1	148.4	228	ePn	2:53:40.09			-0.04
			eSn	53:58.52			-0.97
CSKK	153.7	257	eSn	2:54:01.40			0.74
CRVS	163.2	33	ePn	2:53:43.00			1.03
			eSn	54:00.60			-2.16
PKB5	166.3	224	ePn	2:53:39.42			-2.95

## Hypocenter Parameters

	eSn	54:04.41	0.95
PKST 173.3 254	eSn	2:54:02.76	-2.24
PKB4 181.3 224	ePn	2:53:45.84	1.61
	eSn	54:08.10	1.33
MORH 203.3 217	ePn	2:53:49.30	2.32
	eSn	54:14.32	2.65
PKSM 203.8 217	ePn	2:53:49.00	1.96
KOVH 240.9 223	ePn	2:53:55.97	4.30
	eSn	54:26.20	6.18*

272.

2016-08-04 time: 5:24:59.53 UTC ML= 0.8  
 lat: 47.282N lon: 18.354E h= 0.0 km  
 erh= 2.1km erz= 334km  
 nr= 6 gap=251 rms=0.19  
 Locality: Magyaralmás  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	11.4	322	ePg	5:25:01.35	-0.22
			eSg	25:03.04	-0.12
PKSG	12.5	13	ePg	5:25:01.71	-0.05
			eSg	25:03.89	0.39
PKST	24.3	264	ePg	5:25:03.85	-0.02
			eSg	25:07.50	0.24

273.

2016-08-05 time: 10:07:57.14 UTC ML= 1.1  
 lat: 46.129N lon: 18.050E h= 0.2 km  
 erh= 5.7km erz= 140km  
 nr= 13 gap=229 rms=0.88  
 Locality: Hetvehely  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	5.9	140	ePg	10:07:57.48	-0.71
			eSg	07:58.79	-0.23
PKSV	31.0	150	ePg	10:08:04.20	1.53
			eSg	08:07.34	0.36
PKSM	46.6	79	ePg	10:08:04.87	-0.58
			eSg	08:10.46	-1.48
MORH	46.9	78	ePg	10:08:04.89	-0.62
PKS9	53.9	19	ePg	10:08:05.95	-0.81
PKB4	59.0	46	ePg	10:08:07.62	-0.06
			eSg	08:18.71	2.80
PKB5	73.9	46	ePg	10:08:10.91	0.57
			eSg	08:22.23	1.59
PKB1	92.5	38	eSg	10:08:27.15	0.61

274.

2016-08-05 time: 12:26:46.53 UTC ML= 1.2  
 lat: 47.163N lon: 18.349E h= 13.6 km  
 erh= 1.6km erz= 1.5km  
 nr= 22 gap=122 rms=0.57  
 Locality: Sárszentmihály  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	23.2	343	ePg	12:26:51.18	-0.16
			eSg	26:54.56	-0.53
PKSG	25.6	7	ePg	12:26:51.50	-0.21
			eSg	26:55.41	-0.34
PKST	26.1	294	ePg	12:26:51.76	-0.03
			eSg	26:55.49	-0.40
TIH	45.4	230	eSg	12:27:01.10	-0.48
PKB1	53.9	141	ePg	12:26:55.98	-0.48
			eSg	27:02.82	-1.39
MPLH	61.4	271	ePg	12:26:58.01	0.25
			eSg	27:07.18	0.66
PKB5	69.7	155	ePg	12:27:00.27	1.07
			eSg	27:09.81	0.72
PKB4	76.6	165	eSg	12:27:10.87	-0.39

## Földrengés paraméterek

PKB2 87.0 129	eP*	12:27:02.95	0.71
	eS*	27:14.57	0.08
MORH 107.7 168	ePn	12:27:05.26	0.01
	eSn	27:18.05	-1.80
PKSM 108.1 168	ePn	12:27:05.13	-0.17
	eSn	27:17.54	-2.40*
KOVH 121.0 189	ePn	12:27:07.60	0.69
	eSn	27:21.98	-0.82

275.

2016-08-07 time: 19:20:11.41 UTC ML= 1.5  
 lat: 48.649N lon: 19.025E h= 10.0 km  
 erh= 4.0km erz= 4.2km  
 nr= 17 gap=111 rms=0.95  
 Locality: Slovakia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
LANS	64.5	30	ePg	19:20:22.90	-0.16
			eSg	20:30.40	-1.76
PENC	97.4	169	ePg	19:20:29.04	0.16
			eSg	20:41.27	-1.24
PSZ	103.8	142	eP*	19:20:30.41	0.41
			eS*	20:43.41	-1.09
SRO	106.9	210	eP*	19:20:31.00	0.52
			eS*	20:43.60	-1.76
SMOL	118.8	263	ePn	19:20:31.80	-0.17
			eSn	20:45.90	-2.11
MODS	132.7	257	ePn	19:20:33.90	0.19
			eSn	20:49.20	-1.91
OKC	146.8	334	eSn	19:20:53.90	-0.34
PKSG	147.6	199	ePn	19:20:36.41	0.85
			eSn	20:54.45	0.04
KRLC	227.4	314	ePn	19:20:48.10	2.58
			eSn	21:13.60	1.47

276.

2016-08-08 time: 23:46:15.17 UTC ML= 1.5  
 lat: 45.875N lon: 16.232E h= 11.6 km  
 erh= 2.6km erz= 1.8km  
 nr= 20 gap=175 rms=0.69  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PTJ	21.5	277	ePg	23:46:19.09	-0.44
			eSg	46:23.21	0.28
GCIS	47.0	269	iPg	23:46:23.87	0.06
GOLS	49.5	288	iPg	23:46:24.53	0.28
CRES	60.5	265	iPg	23:46:26.33	0.16
KOGS	63.7	1	ePg	23:46:27.28	0.55
			eSg	46:35.71	-0.04
BEHE	78.3	32	ePg	23:46:28.98	-0.33
			eSg	46:39.35	-0.99
SOKA	128.5	314	Pn	23:46:37.02	0.28
			Sn	46:52.45	-1.11
KOVH	146.7	81	ePn	23:46:38.52	-0.49
			eSn	46:51.82	-5.78*
PKSV	156.8	89	ePn	23:46:39.18	-1.09
			eSn	46:56.78	-3.07
ARSA	162.2	340	Sn	23:47:02.28	1.22
PKSM	190.2	79	ePn	23:46:45.04	0.60
			eSn	47:07.11	-0.15
MORH	190.5	79	ePn	23:46:45.52	1.05
			eSn	47:06.42	-0.91
PKB1	221.5	63	eSn	23:47:16.71	2.50

## Földrengés paraméterek

## Hypocenter Parameters

277.

2016-08-09 time: 1:59:34.07 UTC ML= 0.9  
 lat: 47.374N lon: 18.256E h= 7.5 km  
 erh= 3.1km erz= 1.6km  
 nr= 15 gap=105 rms=0.68  
 Locality: Mór  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	1.2	163	ePgC	1:59:35.19	-0.23
			eSg	59:36.30	-0.17
PKSG	10.4	79	ePg	1:59:36.08	-0.27
			eSg	59:38.07	-0.06
PKST	21.0	233	ePg	1:59:37.48	-0.58
			eSg	59:40.95	-0.22
MPLH	58.7	247	ePgC	1:59:43.90	-0.74
TIH	59.4	208	ePgC	1:59:45.20	0.44
EGYH	69.9	274	ePgC	1:59:48.26	1.64
VYHS	131.9	19	ePn	1:59:56.50	-0.09
			eSn	2:00:11.50	-2.66*
MORH	132.1	167	ePn	1:59:56.83	0.21
			eSn	2:00:15.19	0.98
PKSM	132.5	167	ePn	1:59:56.72	0.05
			eSn	2:00:13.08	-1.21

278.

2016-08-09 time: 6:33:25.52 UTC ML= 1.0  
 lat: 47.314N lon: 17.657E h= 0.0 km  
 erh= 1.9km erz= 3.7km  
 nr= 12 gap=146 rms=0.48  
 Locality: Bakonykoppány  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	18.3	209	ePg	6:33:28.43	-0.35
			eSg	33:31.50	0.17
EGYH	27.1	295	ePg	6:33:30.10	-0.26
			eSg	33:34.03	-0.10
PKST	29.2	102	ePg	6:33:30.44	-0.29
			eSg	33:35.23	0.43
CSKK	46.0	83	ePg	6:33:33.79	0.07
			eSg	33:38.79	-1.33
PKSG	56.1	81	ePg	6:33:36.72	1.18
			eSg	33:43.20	-0.16
MORH	143.5	148	ePn	6:33:50.61	0.17
PKSM	143.8	148	ePn	6:33:50.61	0.14

279.

2016-08-09 time: 9:43:07.45 UTC ML= 1.8  
 lat: 48.641N lon: 20.719E h= 0.0 km  
 erh= 1.6km erz= 3.1km  
 nr= 11 gap=143 rms=0.44  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.6	224	ePg	9:43:11.60	-0.24
			eSg	43:15.50	0.24
CRVS	61.8	62	ePg	9:43:18.90	0.41
			eSg	43:26.80	-0.30
PSZ	101.0	217	ePg	9:43:25.45	-0.03
			eSg	43:39.50	-0.05
LANS	107.8	302	ePg	9:43:27.50	0.80
			eSg	43:41.30	-0.42
KOLS	118.7	74	eSg	9:43:44.70	-0.49
VYHS	139.9	263	ePn	9:43:32.10	0.17
			eSn	43:49.70	-1.32

280.

2016-08-10 time: 7:25:27.32 UTC ML= 0.3  
 lat: 47.330N lon: 18.274E h= 0.0 km  
 erh= 1.5km erz= 320km  
 nr= 6 gap=194 rms=0.20  
 Locality: Söréd  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	3.8	345	ePg	7:25:27.94	-0.06
			eSg	25:28.35	-0.18
PKSG	11.2	52	ePg	7:25:29.16	-0.16
			eSg	25:31.35	0.47
PKST	19.8	246	ePg	7:25:30.82	-0.03
			eSg	25:33.82	0.22

281.

2016-08-10 time: 8:11:06.35 UTC ML= 1.5  
 lat: 48.601N lon: 20.761E h= 0.0 km  
 erh= 7.0km erz= 5.7km  
 nr= 8 gap=152 rms=0.51  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.2	237	ePg	8:11:10.40	-0.28
			eSg	11:14.50	0.44
CRVS	61.4	57	ePg	8:11:17.20	-0.12
PSZ	99.6	220	ePg	8:11:24.88	0.75
			eSg	11:37.38	-0.62
KOLS	117.1	72	eSg	8:11:43.70	0.12
VYHS	142.7	265	ePn	8:11:31.40	0.22
			eSn	11:49.30	-1.24

282.

2016-08-10 time: 9:22:23.63 UTC ML= 1.4  
 lat: 47.870N lon: 19.166E h= 0.0 km  
 erh= 3.1km erz= 570km  
 nr= 6 gap=205 rms=0.37  
 Locality: Ósagárd  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	12.4	136	ePg	9:22:25.65	-0.20
			eSg	22:28.08	0.50
PSZ	54.8	84	ePg	9:22:33.20	-0.21
			eSg	22:40.80	-0.23
VYHS	73.5	341	ePg	9:22:37.30	0.54
			eSg	22:46.60	-0.41

283.

2016-08-11 time: 7:58:32.79 UTC ML= 0.9  
 lat: 47.432N lon: 18.410E h= 0.0 km  
 erh= 2.7km erz= 293km  
 nr= 5 gap=322 rms=0.13  
 Locality: Várgesztes  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	4.7	198	ePgC	7:58:33.74	0.11
			eSg	58:34.12	-0.17
CSKK	13.7	236	ePg	7:58:35.10	-0.13
			eSg	58:37.09	-0.04
PKST	34.3	236	eSg	7:58:43.89	0.19

## Hypocenter Parameters

## Földrengés paraméterek

284.

2016-08-11 time: 9:58:40.32 UTC ML= 1.4  
 lat: 48.640N lon: 20.748E h= 0.0 km  
 erh= 3.0km erz= 3.7km  
 nr= 11 gap=144 rms=0.59  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	26.1	228	ePg	9:58:44.50			-0.47
			eSg		58:48.60		0.00
CRVS	60.0	61	ePg	9:58:51.50			0.47
			eSg		58:59.10		-0.29
PSZ	102.3	218	ePg	9:58:59.95			1.37
			eSg		59:12.09		-0.73
LANS	109.7	301	ePg	9:59:00.30			0.39
KOLS	116.7	74	ePg	9:59:01.20			0.04
			eSg		59:16.90		-0.52
VYHS	142.0	263	ePn	9:59:05.10			0.04
			eSn		59:23.40		-0.96

285.

2016-08-12 time: 3:16:36.05 UTC ML= 1.9  
 lat: 47.668N lon: 16.150E h= 5.7 km  
 erh= 2.0km erz= 1.9km  
 nr= 42 gap= 61 rms=1.10  
 Locality: Austria  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
RONA	11.6	72	Pg	3:16:38.66			0.31
			Sg		16:40.40		0.25
SOP	30.7	87	ePg	3:16:41.94			0.31
			eSg		16:45.57		-0.42
CONA	36.1	323	Pg	3:16:41.74			-0.83
			Sg		16:47.09		-0.57
ARSA	66.2	226	Pg	3:16:47.15			-0.77
			Sg		16:55.38		-1.79
ZST	92.3	50	ePg	3:16:51.40			-1.16
			eSg		17:05.70		0.26
EGYH	93.3	107	ePg	3:16:54.13			1.40
			eSg		17:06.11		0.36
MODS	115.0	47	ePg	3:16:55.90			-0.71
			eSg		17:11.90		-0.76
MPLH	118.6	118	ePn	3:16:57.04			-0.09
			eSn		17:11.95		-1.63
SMOL	133.9	45	ePn	3:16:59.10			0.06
			eSn		17:16.20		-0.78
KOGS	135.8	177	ePn	3:17:00.04			0.76
			eSn		17:16.57		-0.84
SOKA	138.9	218	Pn	3:16:58.91			-0.75
			Sn		17:16.98		-1.10
MOA	142.7	278	Pn	3:17:00.67			0.54
			Sn		17:17.50		-1.42
PKST	149.2	108	ePn	3:17:01.53			0.58
			eSn		17:19.71		-0.67
OBKA	177.1	223	Pn	3:17:06.53			2.10
TREC	187.4	345	eSn	3:17:27.60			-1.26
BIOA	188.6	271	Pn	3:17:08.16			2.30
			Sn		17:29.93		0.81
VYHS	220.2	65	ePn	3:17:13.40			3.59
			eSn		17:41.10		4.96*
KBA	221.8	253	Pn	3:17:12.67			2.67
			Sn		17:40.01		3.53
KOVH	230.1	140	ePn	3:17:11.21			0.17
MORH	249.3	130	ePn	3:17:13.36			-0.07
			eSn		17:38.41		-4.18*
PKSM	249.4	130	ePn	3:17:13.56			0.12
			eSn		17:39.54		-3.08
KHC	250.5	311	ePn	3:17:15.00			1.43
			eSn		17:45.20		2.35
PRU	283.8	335	eSn	3:17:53.00			2.76
DPC	298.6	2	eSn	3:17:57.70			4.18*

286.

2016-08-12 time: 14:33:45.09 UTC ML= 1.8  
 lat: 45.846N lon: 16.274E h= 10.0 km  
 erh= 6.8km erz= 4.3km  
 nr= 25 gap=180 rms=1.08  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PTJ	25.2	284	ePg	14:33:49.15			-0.78
			eSg		33:53.70		-0.02
GCIS	50.2	273	iPg	14:33:54.27			0.04
GOLS	53.6	290	iPg	14:33:54.81			-0.01
CRES	63.5	268	iPg	14:33:56.68			0.12
SOKA	133.1	314	Pn	14:34:06.74			-0.70
			Sn		34:22.87		-2.00
KOVH	144.1	79	ePn	14:34:09.15			0.34
			eSn		34:24.62		-2.70
OBKA	152.2	299	Pn	14:34:11.84			2.01
			Sn		34:29.85		0.73
PKSV	153.7	88	ePn	14:34:09.72			-0.29
			eSn		34:27.05		-2.40
ARSA	166.5	340	Pn	14:34:12.57			0.97
			Sn		34:32.15		-0.12
PKSM	187.8	77	ePn	14:34:11.16			-3.10
			eSn		34:36.87		-0.14
MORH	188.1	77	ePn	14:34:15.97			1.67
			eSn		34:37.20		0.12
PKB4	194.0	68	eSn	14:34:39.31			0.93
RONA	206.1	0	Pn	14:34:16.56			0.02
			Sn		34:40.48		-0.60
PKB1	220.3	62	eSn	14:34:46.84			2.62
CONA	233.7	352	Pn	14:34:20.63			0.65
			Sn		34:52.14		4.95*

287.

2016-08-12 time: 21:54:23.39 UTC ML= 1.6  
 lat: 47.633N lon: 18.000E h= 10.0 km  
 erh= 1.5km erz= 1.3km  
 nr= 40 gap= 57 rms=0.83  
 Locality: Bábolna  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
SRO	30.9	50	ePg	21:54:29.50			0.31
			eSg		54:33.90		0.19
CSKK	35.9	147	ePg	21:54:28.79			-1.25
			eSg		54:35.19		-0.04
PKSG	39.8	132	ePg	21:54:30.55			-0.17
			eSg		54:36.04		-0.40
PKST	41.7	176	ePg	21:54:30.52			-0.53
			eSg		54:37.54		0.52
EGYH	55.8	244	ePg	21:54:33.97			0.46
			eSg		54:42.17		0.77
MPLH	62.1	214	ePg	21:54:34.34			-0.29
			eSg		54:43.86		0.47
BUD	78.8	102	ePg	21:54:37.88			0.30
			eSg		54:48.84		0.19
TIH	81.9	186	ePg	21:54:37.81			-0.32
			eSg		54:49.77		0.15
ZST	91.8	313	ePg	21:54:40.40			0.53
			eSg		54:51.60		-1.13
MODS	98.4	327	ePg	21:54:41.20			0.14
			eSg		54:53.60		-1.23
SMOL	106.8	336	eP*	21:54:43.20			0.76
			eS*		54:55.50		-1.80
PKB1	111.8	148	ePn	21:54:43.87			0.78
			eSn		54:58.32		-0.14
VYHS	114.2	33	ePn	21:54:42.80			-0.59
			eSn		54:57.10		-1.88
PKS9	118.2	170	ePn	21:54:43.42			-0.47
			eSn		54:54.55		-5.32*



## Földrengés paraméterek

RONA	128.2	273	Pn	21:54:45.04	-0.09
			Sn	55:00.20	-1.88
PKB5	128.2	154	eSn	21:55:01.18	-0.91
PKB4	134.5	160	eSn	21:55:03.69	0.21
PKB2	142.3	139	eSn	21:55:06.25	1.04
PSZ	145.5	77	ePn	21:54:48.55	1.26
			eSn	55:05.93	0.00
BEHE	159.3	216	ePn	21:54:49.66	0.65
CONA	163.6	282	Pn	21:54:50.74	1.20
			Sn	55:09.58	-0.36
MORH	165.0	163	eSn	21:55:08.42	-1.84
KOVH	171.9	177	eSn	21:55:14.32	2.53
ARSA	191.6	257	Sn	21:55:18.60	2.44

288.

2016-08-12 time: 23:39:33.91 UTC ML= 2.1  
 lat: 47.686N lon: 16.147E h= 7.4 km  
 erh= 1.5km erz= 1.2km  
 nr= 56 gap= 40 rms=0.87  
 Locality: Austria  
 Comments:

sta	dist	azm	phase	hr mn sec	res
RONA	11.3	83	Pg	23:39:36.48	0.15
			Sg	39:38.21	-0.01
SOP	30.9	91	ePg	23:39:39.89	0.30
			eSg	39:43.45	-0.56
CONA	34.3	322	Pg	23:39:39.54	-0.64
			Sg	39:44.94	-0.14
ARSA	67.5	224	Pg	23:39:44.99	-1.05
			Sg	39:53.48	-2.02
ZST	91.2	52	ePg	23:39:49.20	-1.04
			eSg	40:03.20	0.22
EGYH	94.1	109	ePg	23:39:51.72	0.96
			eSg	40:04.42	0.51
MODS	113.8	48	ePn	23:39:53.90	-0.28
			eSn	40:09.00	-0.99
MPLH	119.7	119	ePn	23:39:54.85	-0.07
			eSn	40:10.30	-1.01
SMOL	132.6	46	ePn	23:39:56.90	0.37
			eSn	40:13.80	-0.37
KOGS	137.9	177	ePn	23:39:58.86	1.68
			eSn	40:14.61	-0.73
SOKA	140.4	217	Pn	23:39:57.21	-0.28
			Sn	40:14.70	-1.19
MOA	142.1	277	Pn	23:39:57.95	0.23
			Sn	40:15.00	-1.28
BEHE	143.4	161	ePn	23:39:59.57	1.70
			eSn	40:17.20	0.64
PKST	150.0	108	ePn	23:39:59.45	0.75
			eSn	40:17.59	-0.44
TIH	158.4	123	ePn	23:40:00.27	0.53
SRO	163.1	85	ePn	23:40:00.10	-0.23
			eSn	40:20.10	-0.83
CSKK	163.2	103	eSn	23:40:20.05	-0.91
SRO2	168.8	87	eSn	23:40:20.90	-1.30
PKSG	172.1	101	ePn	23:40:01.67	0.22
OBKA	178.5	223	Pn	23:40:03.28	1.04
			Sn	40:23.64	-0.70
TREC	185.4	345	ePn	23:40:03.90	0.79
			eSn	40:25.40	-0.48
BIOA	188.3	270	Pn	23:40:04.99	1.52
			Sn	40:27.47	0.94
PKS9	202.7	127	ePn	23:40:05.85	0.58
VYHS	219.6	66	ePn	23:40:11.00	3.63
KBA	222.1	252	Sn	23:40:35.08	1.04
PKB1	224.0	117	ePn	23:40:07.46	-0.46
			eSn	40:32.70	-1.76
PKB4	228.7	125	ePn	23:40:08.41	-0.10
			eSn	40:33.92	-1.58
KOVH	231.8	140	ePn	23:40:09.09	0.20
			eSn	40:34.00	-2.18
KHC	248.9	310	ePn	23:40:13.10	2.07
			eSn	40:42.90	2.91

84

## Hypocenter Parameters

MORH	250.7	131	ePn	23:40:11.34	0.08
			eSn	40:37.63	-2.76
PKB2	260.2	116	ePn	23:40:12.66	0.22
KRLC	269.7	10	ePn	23:40:13.90	0.28
			eSn	40:48.90	4.30*
PKB3	270.8	121	ePn	23:40:13.84	0.08

289.

2016-08-15 time: 5:54:31.70 UTC ML= 2.1  
 lat: 48.396N lon: 18.642E h= 0.0 km  
 erh= 2.4km erz= 5.3km  
 nr= 13 gap=118 rms=0.82  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	18.0	53	ePg	5:54:35.50	0.58
			eSg	54:37.90	0.46
PENC	82.5	145	eSg	5:54:58.23	0.32
SMOL	90.7	278	eSg	5:55:00.50	-0.03
MODS	101.1	269	ePg	5:54:51.00	1.24
			eSg	55:03.20	-0.64
LANS	103.6	36	ePg	5:54:49.90	-0.30
			eSg	55:03.50	-1.13
PSZ	107.2	120	ePg	5:54:51.39	0.54
			eSg	55:03.68	-2.11
ZST	116.4	259	eSg	5:55:07.50	-1.19
KECS	136.8	86	ePn	5:54:55.50	-0.29
			eSn	55:12.50	-2.08

290.

2016-08-15 time: 6:27:46.96 UTC ML= 0.9  
 lat: 47.446N lon: 18.406E h= 0.0 km  
 erh= 4.3km erz= 481km  
 nr= 5 gap=317 rms=0.22  
 Locality: Várgesztes  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	6.1	191	ePnC	6:27:48.14	0.09
			eSg	27:48.79	-0.11
CSKK	14.3	230	ePnC	6:27:49.38	-0.13
			eSg	27:51.32	-0.19
PKST	34.9	233	eSg	6:27:58.62	0.56

291.

2016-08-16 time: 7:44:09.74 UTC ML= 1.4  
 lat: 45.919N lon: 18.356E h= 0.0 km  
 erh= 3.9km erz= 4.8km  
 nr= 12 gap=213 rms=0.71  
 Locality: Vokány  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	8.7	247	ePg	7:44:10.73	-0.57
			eSg	44:13.00	0.49
KOVH	27.3	314	ePg	7:44:14.50	-0.13
			eSg	44:19.48	1.05
PKSM	39.4	34	ePg	7:44:16.46	-0.31
			eSg	44:22.46	0.21
MORH	39.8	34	ePg	7:44:16.37	-0.49
			eSg	44:22.52	0.11
PKB4	67.0	17	ePg	7:44:23.29	1.59
PKS9	74.5	355	ePg	7:44:21.76	-1.29
PKB1	101.9	19	ePg	7:44:27.96	0.02
BEHE	136.5	297	eSn	7:44:53.00	0.44

## Hypocenter Parameters

## Földrengés paraméterek

292.  
 2016-08-16 time: 9:36:06.05 UTC ML= 0.6  
 lat: 46.022N lon: 18.059E h= 0.0 km  
 erh= 2.1km erz= 165km  
 nr= 5 gap=310 rms=0.08  
 Locality: Bicsérd  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	8.0	23	ePg	9:36:07.61	0.14
			eSg	36:08.49	-0.09
PKSM	49.7	65	ePg	9:36:14.92	0.00
MORH	50.1	65	ePg	9:36:14.98	-0.01
PKS9	65.0	15	ePg	9:36:17.58	-0.07

293.  
 2016-08-16 time: 13:40:21.61 UTC ML= 1.0  
 lat: 47.273N lon: 18.233E h= 2.0 km  
 erh= 5.8km erz=21.3km  
 nr= 8 gap=215 rms=0.35  
 Locality: Kincsesbánya  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	10.2	12	ePgD	13:40:23.23	-0.24
			eSg	40:24.67	-0.24
PKST	15.1	264	ePgD	13:40:24.12	-0.21
			eSg	40:26.20	-0.26
PKSG	17.8	42	ePg	13:40:24.79	-0.02
			eSg	40:27.58	0.29
MPLH	53.8	258	ePg	13:40:32.13	0.91
			eSg	40:38.92	0.21

294.  
 2016-08-17 time: 8:21:30.39 UTC ML= 0.5  
 lat: 46.179N lon: 18.247E h= 18.3 km  
 erh= 1.5km erz= 2.2km  
 nr= 7 gap=214 rms=0.15  
 Locality: Mánfa  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	15.2	228	ePgC	8:21:34.79	0.16
			eSg	21:37.81	-0.13
PKSM	30.7	83	ePgD	8:21:36.71	-0.06
			eSg	21:41.66	-0.09
MORH	31.0	82	ePgD	8:21:36.72	-0.09
			eSg	21:42.28	0.46
PKSV	32.3	179	eSg	8:21:42.16	-0.02

295.  
 2016-08-20 time: 6:44:26.02 UTC ML= 1.4  
 lat: 47.363N lon: 18.147E h= 10.0 km  
 erh= 2.1km erz= 1.6km  
 nr= 23 gap=137 rms=0.71  
 Locality: Nagyveleg  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	8.6	90	ePgD	6:44:27.89	-0.48
			eSg	44:29.53	-0.68
PKST	14.4	216	ePgD	6:44:28.44	-0.70
			eSg	44:30.55	-1.03
PKSG	18.7	80	ePg	6:44:29.32	-0.48
			eSg	44:32.57	-0.19
MPLH	50.7	245	ePg	6:44:36.00	0.75
			eSg	44:42.95	0.50
TIH	55.0	200	eSg	6:44:43.25	-0.53
PKB1	80.9	143	ePg	6:44:41.70	1.13
			eSg	44:51.86	-0.07

PKS9	86.9	173	ePg	6:44:42.88	1.25
			eSg	44:53.79	-0.02
PKB5	96.4	152	ePg	6:44:43.76	0.43
			eSg	44:56.14	-0.70
PKB4	102.5	160	ePg	6:44:45.11	0.71
			eSg	44:58.51	-0.23
MORH	133.1	163	ePn	6:44:48.09	-0.28
			eSn	45:03.65	-2.15
PKSM	133.5	164	ePn	6:44:48.14	-0.27
			eSn	45:04.59	-1.29
VYHS	135.9	22	ePn	6:44:49.30	0.59
			eSn	45:05.10	-1.32

296.  
 2016-08-20 time: 6:53:22.67 UTC ML= 0.9  
 lat: 47.348N lon: 18.195E h= 6.2 km  
 erh= 3.4km erz= 3.8km  
 nr= 13 gap=104 rms=1.01  
 Locality: Bodajk  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	5.2	71	ePg	6:53:23.90	-0.22
			eSg	53:25.57	0.32
PKSG	15.6	72	ePg	6:53:25.38	-0.28
			eSg	53:28.57	0.57
PKST	15.7	231	ePgD	6:53:24.49	-1.19
			eSg	53:26.52	-1.50
MPLH	53.4	248	ePg	6:53:31.99	-0.28
EGYH	65.6	277	eSg	6:53:46.62	3.00
PKB1	77.4	144	ePg	6:53:37.47	0.94
			eSg	53:48.77	1.44
PKB5	93.3	154	eSg	6:53:52.68	0.30
VYHS	136.2	21	ePn	6:53:46.30	0.42
			eSn	54:01.40	-2.59

297.  
 2016-08-21 time: 13:49:52.95 UTC ML= 0.5  
 lat: 47.380N lon: 18.162E h= 5.6 km  
 erh= 0.9km erz= 0.8km  
 nr= 6 gap=230 rms=0.02  
 Locality: Nagyveleg  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	7.7	104	ePg	13:49:54.65	0.00
			eSg	49:55.97	-0.01
PKST	16.5	216	ePg	13:49:56.08	0.01
			eSg	49:58.50	0.00
PKSG	17.3	86	ePg	13:49:56.18	-0.02
			eSg	49:58.77	0.03

298.  
 2016-08-23 time: 7:21:26.01 UTC ML= 0.9  
 lat: 47.437N lon: 18.419E h= 0.0 km  
 erh= 8.2km erz= 792km  
 nr= 5 gap=328 rms=0.36  
 Locality: Várgesztes  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	5.4	204	ePgC	7:21:26.88	-0.10
			eSg	21:27.71	-0.03
CSKK	14.5	236	ePgC	7:21:28.27	-0.33
			eSg	21:30.60	-0.02
PKST	35.2	236	ePg	7:21:33.04	0.75

## Földrengés paraméterek

## Hypocenter Parameters

299.

2016-08-23 time: 7:37:54.44 UTC ML= 0.6  
 lat: 47.138N lon: 18.228E h= 0.0 km  
 erh= 2.2km erz= 287km  
 nr= 6 gap=289 rms=0.17  
 Locality: Nádasdladány  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	19.9	313	ePg	7:37:58.13	0.14
			eSg	38:00.55	-0.21
CSKK	25.2	6	ePg	7:37:58.79	-0.14
			eSg	38:02.72	0.28
PKSG	30.8	24	ePg	7:38:00.01	0.07
			eSg	38:04.08	-0.15

300.

2016-08-23 time: 10:45:30.35 UTC ML= 1.9  
 lat: 45.536N lon: 17.786E h= 3.1 km  
 erh= 6.0km erz= 2.8km  
 nr= 16 gap=243 rms=0.77  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	53.4	43	eSg	10:45:46.00	-1.35
KOVH	66.1	22	ePgD	10:45:42.52	0.36
			eSg	45:51.18	-0.20
PKSM	100.3	41	ePg	10:45:47.54	-0.72
			eSg	46:02.03	-0.20
MORH	100.7	41	ePg	10:45:47.59	-0.76
			eSg	46:02.14	-0.25
PKS9	122.9	18	ePg	10:45:53.09	0.79
			eSg	46:10.05	0.62
PKB4	124.1	31	eSn	10:46:09.58	-0.13
PKB5	138.8	32	ePn	10:45:55.06	0.77
			eSn	46:12.65	-0.31
PTJ	148.0	286	eSn	10:46:14.03	-0.98
KOGS	156.4	310	ePn	10:45:56.54	0.06
PKB1	159.1	29	ePn	10:45:58.53	1.72
			eSn	46:18.34	0.88

301.

2016-08-23 time: 23:09:44.96 UTC ML= 1.6  
 lat: 45.862N lon: 17.536E h= 1.3 km  
 erh= 6.6km erz= 3.5km  
 nr= 22 gap=295 rms=0.98  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	50.4	60	ePg	23:09:53.96	-0.01
			eSg	10:01.52	0.52
PKSM	94.0	66	ePg	23:10:00.84	-0.91
			eSg	10:13.13	-1.71
MORH	94.4	65	ePg	23:10:00.77	-1.05
			eSg	10:13.55	-1.41
PKS9	98.9	35	ePg	23:10:03.28	0.66
			eSg	10:18.10	1.71
PKB4	108.5	49	ePg	23:10:04.28	-0.06
			eSg	10:19.87	0.42
PKB5	123.3	49	ePg	23:10:06.98	0.00
			eSg	10:23.16	-1.00
PKB1	141.0	43	ePn	23:10:09.70	0.30
			eSn	10:28.74	0.27
PKB3	142.6	64	ePn	23:10:10.48	0.87
			eSn	10:28.89	0.06
MPLH	145.4	0	ePn	23:10:08.97	-0.99
PKS2	147.2	62	ePn	23:10:10.94	0.75
PKB2	159.5	56	ePn	23:10:12.72	1.00
			eSn	10:35.12	2.53
PKST	159.9	14	ePn	23:10:09.84	-1.93

PKS6 176.7 62 ePn 23:10:15.91 2.05

302.

2016-08-24 time: 10:03:01.91 UTC ML= 1.0  
 lat: 47.216N lon: 18.237E h= 0.0 km  
 erh= 3.1km erz= \*\*\*km  
 nr= 15 gap=102 rms=0.93  
 Locality: Csór  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	16.1	287	ePg	10:03:05.05	0.26
			eSg	03:08.03	1.00
CSKK	16.4	6	ePg	10:03:04.48	-0.37
			eSg	03:06.47	-0.66
PKSG	22.7	31	ePgC	10:03:05.56	-0.41
			eSg	03:08.64	-0.49
PKB1	63.9	139	ePg	10:03:13.71	0.38
PKB4	84.8	161	ePg	10:03:18.86	1.81
PKB2	97.3	128	ePg	10:03:20.18	0.88
MORH	115.5	164	ePg	10:03:22.45	-0.88
			eSg	03:36.66	-1.96
PKSM	115.8	165	ePg	10:03:21.10	-1.50
			eSg	03:36.66	-2.07
KOVH	125.8	185	ePg	10:03:25.02	0.64
			eSg	03:40.82	-1.09

303.

2016-08-26 time: 3:51:57.87 UTC ML= 0.9  
 lat: 46.941N lon: 17.680E h= 11.8 km  
 erh= 1.9km erz= 1.8km  
 nr= 20 gap=172 rms=0.50  
 Locality: Óbudavár  
 Comments:

sta	dist	azm	phase	hr mn sec	res
TIH	16.9	106	ePg	3:52:01.29	-0.26
			eSg	52:04.03	-0.39
MPLH	27.6	337	ePg	3:52:02.58	-0.65
			eSg	52:07.10	-0.32
PKST	44.4	37	ePg	3:52:05.90	-0.18
			eSg	52:13.11	0.62
EGYH	59.1	334	eSg	3:52:17.66	0.62
CSKK	64.4	43	ePg	3:52:09.44	-0.12
			eSg	52:18.45	-0.22
PKSG	73.6	47	ePg	3:52:11.08	-0.10
			eSg	52:21.61	0.04
PKB4	86.2	125	ePg	3:52:14.23	0.82
			eSg	52:25.41	-0.12
PKB1	86.6	102	ePg	3:52:14.29	0.81
			eSg	52:25.36	-0.29
KOVH	100.1	161	eP*	3:52:16.21	0.48
			eS*	52:28.18	-1.49
MORH	109.4	137	ePn	3:52:17.03	0.00
			eSn	52:29.55	-2.42*
PKSM	109.6	138	ePn	3:52:16.72	-0.33
			eSn	52:31.24	-0.77

304.

2016-08-26 time: 8:09:27.95 UTC ML= 1.3  
 lat: 45.843N lon: 18.445E h= 0.0 km  
 erh= 4.8km erz= 779km  
 nr= 12 gap=268 rms=0.64  
 Locality: Villány  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	15.9	289	ePg	8:09:31.28	0.50
			eSg	09:32.44	-0.55
KOVH	38.3	316	ePg	8:09:34.36	-0.42
			eSg	09:39.13	-0.98
PKSM	43.7	20	ePg	8:09:35.87	0.11

## Hypocenter Parameters

## Földrengés paraméterek

MORH 44.2 20 eSg 09:41.92 0.07  
 ePg 8:09:35.87 0.02  
 eSg 09:41.89 -0.12  
 PKS9 83.7 351 ePg 8:09:43.95 1.05  
 eSg 09:56.30 1.74  
 PKB1 108.0 14 ePg 8:09:46.41 -0.83  
 eSg 10:01.61 -0.67

305.

2016-08-26 time: 8:54:10.33 UTC ML= 0.8  
 lat: 47.430N lon: 18.396E h= 0.0 km  
 erh= 2.6km erz= 305km  
 nr= 5 gap=310 rms=0.14  
 Locality: Gánt  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	4.2	185	ePgC	8:54:11.14	0.05
			eSg	54:11.65	-0.03
CSKK	12.6	234	ePg	8:54:12.49	-0.09
			eSg	54:14.15	-0.18
PKST	33.2	235	eSg	8:54:21.19	0.29

306.

2016-08-26 time: 8:54:44.83 UTC ML= 0.9  
 lat: 47.442N lon: 18.448E h= 0.0 km  
 erh= 2.2km erz= 177km  
 nr= 5 gap=339 rms=0.08  
 Locality: Bodmér  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	7.0	218	ePgC	8:54:46.18	0.09
			eSg	54:46.93	-0.14
CSKK	16.6	238	ePg	8:54:47.73	-0.07
			eSg	54:50.11	0.00
PKST	37.3	237	eSg	8:54:56.73	0.05

307.

2016-08-26 time: 9:01:11.88 UTC ML= 0.8  
 lat: 47.599N lon: 18.522E h= 0.0 km  
 erh= 4.0km erz= 321km  
 nr= 6 gap=339 rms=0.19  
 Locality: Tarján  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	25.1	203	ePg	9:01:16.45	0.09
			eSg	01:19.94	0.09
CSKK	32.8	217	ePg	9:01:17.52	-0.22
			eSg	01:21.96	-0.35
PKST	52.8	224	ePg	9:01:21.47	0.17
			eSg	01:28.79	0.14

308.

2016-08-27 time: 8:55:01.78 UTC ML= 0.9  
 lat: 46.227N lon: 18.239E h= 0.0 km  
 erh= 1.8km erz= 477km  
 nr= 9 gap=149 rms=0.36  
 Locality: Komló  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	18.8	215	ePg	8:55:05.48	0.34
			eSg	55:08.52	0.77
PKSM	31.1	93	ePg	8:55:07.24	-0.09
			eSg	55:12.01	0.35
MORH	31.3	92	ePg	8:55:07.33	-0.04
			eSg	55:12.06	0.33
PKSV	37.6	178	ePg	8:55:07.98	-0.52

PKS9 40.1 4 eSg 55:12.65 -1.10  
 ePg 8:55:08.98 0.03

309.

2016-08-29 time: 8:51:34.08 UTC ML= 1.8  
 lat: 48.136N lon: 21.304E h= 13.6 km  
 erh= 2.7km erz= 2.9km  
 nr= 6 gap=218 rms=0.21  
 Locality: Mezőzombor  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PSZ	107.9	257	ePn	8:51:52.92	0.10
			eSn	52:07.16	-0.28
KOLS	113.9	39	ePn	8:51:53.60	0.03
			eSn	52:08.60	-0.18
LANS	176.2	310	eSn	8:52:22.70	0.10
VYHS	187.3	282	eSn	8:52:25.80	0.73

310.

2016-08-29 time: 14:43:23.99 UTC ML= 2.1  
 lat: 47.456N lon: 19.773E h= 0.5 km  
 erh= 2.0km erz= 2.0km  
 nr= 30 gap=105 rms=0.78  
 Locality: Jászfelsőszentgyörgy  
 Comments:

sta	dist	azm	phase	hr mn sec	res
BSZH	41.2	115	ePgC	14:43:30.61	-0.73
			eSg	43:34.91	-2.16
PSZ	52.2	10	ePg	14:43:33.75	0.43
			eSg	43:40.73	0.14
PKSN	62.5	173	ePg	14:43:35.34	0.18
			eSg	43:44.30	0.43
PKS7	64.9	226	ePg	14:43:36.82	1.24
			eSg	43:45.82	1.20
PKB2	95.8	205	ePg	14:43:41.16	0.06
			eSg	43:54.00	-0.44
PKSG	104.5	266	ePg	14:43:42.53	-0.13
			eSg	43:55.71	-1.51
PKB1	105.4	225	ePg	14:43:42.81	-0.01
			eSg	43:56.12	-1.38
PKB3	122.9	201	ePg	14:43:45.54	-0.40
PKB5	124.0	219	ePg	14:43:45.92	-0.22
			eSg	44:02.18	-1.23
PKST	133.2	261	eSn	14:44:04.51	-1.45
VYHS	135.0	329	ePn	14:43:47.60	-0.19
			eSn	44:05.50	-0.86
PKB4	138.9	220	ePn	14:43:48.48	0.20
			eSn	44:06.48	-0.75
PKS9	149.1	230	ePn	14:43:50.81	1.25
			eSn	44:09.91	0.41
MORH	162.5	212	ePn	14:43:52.30	1.07
			eSn	44:12.18	-0.30
PKSM	163.0	212	ePn	14:43:51.71	0.42
			eSn	44:12.21	-0.38
KOVH	198.6	220	ePn	14:43:58.86	3.13
			eSn	44:23.80	3.32*

311.

2016-08-29 time: 19:48:00.11 UTC ML= 0.6  
 lat: 47.368N lon: 18.285E h= 6.9 km  
 erh= 3.6km erz= 0.9km  
 nr= 6 gap=179 rms=0.07  
 Locality: Csókakő  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	2.0	253	ePgC	19:48:01.45	0.06
			eSg	48:02.29	-0.10
PKSG	8.4	72	ePg	19:48:02.06	0.02
			eSg	48:03.55	0.00

## Földrengés paraméterek

PKST 22.5 237 ePg 19:48:04.22 -0.10  
eSg 48:07.69 0.09

312.

2016-08-31 time: 6:57:22.25 UTC ML= 0.8  
lat: 47.419N lon: 18.381E h= 0.0 km  
erh= 2.6km erz= 232km  
nr= 5 gap=291 rms=0.11  
Locality: Gánt  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	3.1	167	ePgC	6:57:22.77	-0.04
			eSg	57:23.25	0.00
CSKK	11.0	236	ePg	6:57:24.18	-0.05
			eSg	57:25.54	-0.22
PKST	31.7	236	ePg	6:57:28.10	0.19

313.

2016-08-31 time: 9:34:07.69 UTC ML= 0.7  
lat: 47.151N lon: 18.316E h= 0.0 km  
erh= 1.9km erz= 216km  
nr= 5 gap=287 rms=0.10  
Locality: Sárszentmihály  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	23.9	350	ePg	9:34:11.94	-0.02
			eSg	34:15.09	-0.20
PKST	24.5	299	ePg	9:34:12.07	0.01
			eSg	34:15.52	0.05
PKSG	27.3	12	eSg	9:34:16.52	0.15

314.

2016-08-31 time: 11:00:30.42 UTC ML= 1.1  
lat: 45.632N lon: 17.640E h= 10.0 km  
erh= 2.6km erz= 8.2km  
nr= 8 gap=336 rms=0.78  
Locality: Croatia  
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	55.5	59	ePg	11:00:40.66	0.17
			eSg	00:49.23	0.88
KOVH	62.1	35	ePg	11:00:42.29	0.64
			eSg	00:51.88	1.48
PKSM	101.0	50	ePg	11:00:48.10	-0.44
			eSg	01:01.86	-0.81
MORH	101.4	50	ePg	11:00:48.10	-0.52
			eSg	01:01.59	-1.22

315.

2016-08-31 time: 18:22:26.63 UTC ML= 1.2  
lat: 47.000N lon: 17.438E h= 14.5 km  
erh= 3.5km erz= 2.8km  
nr= 20 gap=114 rms=0.76  
Locality: Nyirád  
Comments:

sta	dist	azm	phase	hr mn sec	res
MPLH	20.4	22	ePgC	18:22:30.49	-0.62
			eSg	22:34.23	-0.37
TIH	36.4	108	eSg	18:22:38.70	-0.38
EGYH	47.1	350	ePg	18:22:35.84	0.41
			eSg	22:43.47	1.18
PKST	53.6	58	ePg	18:22:36.65	0.09
			eSg	22:44.80	0.51
CSKK	74.3	57	ePg	18:22:35.95	-4.20
PKB1	105.9	103	ePn	18:22:45.82	0.80
			eSn	22:59.12	-0.24

## Hypocenter Parameters

PKB5 108.8 114 ePn 18:22:46.05 0.67  
eSn 22:59.63 -0.37  
KOGS 109.6 236 eSn 18:22:59.10 -1.07  
KOVH 113.3 153 ePn 18:22:45.77 -0.17  
eSn 22:59.79 -1.22  
MORH 127.0 133 ePn 18:22:48.08 0.43  
eSn 23:03.27 -0.77  
PKSM 127.2 134 ePn 18:22:48.27 0.60  
eSn 23:03.40 -0.68  
PKSV 138.5 153 eSn 18:23:07.17 0.58

316.

2016-09-01 time: 11:20:29.43 UTC ML= 1.1  
lat: 46.129N lon: 18.107E h= 0.0 km  
erh= 1.6km erz= 406km  
nr= 11 gap=188 rms=0.33  
Locality: Abaliget  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	4.5	187	ePgC	11:20:29.94	-0.29
			eSg	20:31.45	0.59
PKSV	29.0	157	ePg	11:20:34.42	-0.18
			eSg	20:38.44	-0.20
PKSM	42.3	77	ePgD	11:20:37.30	0.32
			eSg	20:42.68	-0.19
MORH	42.6	77	ePg	11:20:37.21	0.17
			eSg	20:42.52	-0.45
PKS9	52.6	15	ePg	11:20:38.89	0.06
PKB5	70.9	43	eSg	11:20:52.62	0.65
PKB1	89.9	36	eSg	11:20:57.63	-0.38

317.

2016-09-02 time: 8:59:36.28 UTC ML= 1.8  
lat: 47.899N lon: 19.383E h= 0.0 km  
erh= 4.5km erz= \*\*\*km  
nr= 8 gap=125 rms=1.03  
Locality: Becske  
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	14.3	212	ePg	8:59:38.29	-0.54
			eSg	59:41.93	1.12
PSZ	38.3	87	ePg	8:59:42.43	-0.68
			eSg	59:47.84	-0.61
VYHS	77.7	328	ePg	8:59:51.70	1.55
			eSg	59:59.20	-1.76
KECS	104.6	52	ePg	8:59:54.70	-0.25
			eSg	9:00:10.70	1.18

318.

2016-09-05 time: 14:14:22.11 UTC ML= 1.1  
lat: 47.071N lon: 18.044E h= 6.5 km  
erh= 1.3km erz= 2.5km  
nr= 16 gap= 98 rms=0.46  
Locality: Balatonfűzfő  
Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	20.9	358	ePg	14:14:25.10	-0.93
			eSg	14:28.46	-0.62
TIH	22.2	211	ePg	14:14:26.53	0.29
			eSg	14:29.50	0.04
CSKK	36.4	27	ePg	14:14:29.29	0.57
			eSg	14:33.73	-0.14
MPLH	39.8	286	ePg	14:14:29.80	0.48
			eSg	14:34.67	-0.27
PKSG	44.3	36	eSg	14:14:36.56	0.21
MORH	105.6	154	ePg	14:14:41.35	0.35
			eSg	14:55.20	-0.53
PKSM	105.9	154	ePg	14:14:41.26	0.21
			eSg	14:55.25	-0.58

## Hypocenter Parameters

KOVH 109.3 178 ePg 14:14:41.43 -0.23  
 eSg 14:56.03 -0.88  
 PSZ 168.3 56 eSn 14:15:10.45 -0.06

319.

2016-09-07 time: 11:21:25.83 UTC ML= 0.4  
 lat: 47.172N lon: 18.307E h= 0.0 km  
 erh= 1.8km erz= 240km  
 nr= 6 gap=281 rms=0.15  
 Locality: Sárkeszi  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	21.6	351	ePg	11:21:29.46	-0.22
			eSg	21:32.59	-0.10
PKST	22.8	295	ePg	11:21:30.10	0.20
			eSg	21:33.01	-0.07
PKSG	25.3	15	ePg	11:21:30.39	0.05
			eSg	21:33.99	0.12

320.

2016-09-07 time: 15:05:27.21 UTC ML= 0.5  
 lat: 47.368N lon: 18.105E h= 2.0 km  
 erh= 4.3km erz=13.9km  
 nr= 6 gap=239 rms=0.10  
 Locality: Nagyveleg  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	11.7	92	ePgD	15:05:29.32	-0.01
			eSg	05:30.76	-0.23
PKST	13.2	204	ePgD	15:05:29.67	0.08
			eSg	05:31.39	-0.06
PKSG	21.7	83	ePg	15:05:31.07	-0.03
			eSg	05:34.29	0.15

321.

2016-09-08 time: 8:06:39.59 UTC ML= 0.9  
 lat: 47.447N lon: 18.428E h= 0.0 km  
 erh= 3.4km erz= 351km  
 nr= 6 gap=330 rms=0.21  
 Locality: Várgesztes  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	6.8	205	ePgC	8:06:41.05	0.25
			eSg	06:41.63	-0.11
CSKK	15.7	234	ePgC	8:06:42.33	-0.07
			eSg	06:44.23	-0.36
PKST	36.4	235	ePg	8:06:45.94	-0.14
			eSg	06:51.46	0.31

322.

2016-09-08 time: 8:35:03.55 UTC ML= 0.7  
 lat: 45.813N lon: 18.381E h= 0.0 km  
 erh= 3.0km erz= 452km  
 nr= 8 gap=285 rms=0.32  
 Locality: Siklósnagyfalu  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	13.0	310	ePg	8:35:05.51	-0.37
			eSg	35:07.36	-0.34
KOVH	37.5	325	ePg	8:35:10.92	0.66
			eSg	35:15.74	0.25
PKSM	48.7	24	ePgC	8:35:12.40	0.15
			eSg	35:19.00	-0.03
MORH	49.2	24	ePgC	8:35:12.28	-0.05
			eSg	35:18.80	-0.38

## Földrengés paraméterek

323.

2016-09-09 time: 9:15:31.43 UTC ML= 0.7  
 lat: 46.177N lon: 18.292E h= 0.0 km  
 erh= 0.8km erz= 157km  
 nr= 8 gap=205 rms=0.11  
 Locality: Zobákpusztá  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.8	236	ePgC	9:15:34.48	-0.14
			eSg	15:37.26	0.16
PKSM	27.2	82	ePg	9:15:36.47	0.17
			eSg	15:40.02	-0.07
MORH	27.5	81	ePg	9:15:36.42	0.07
			eSg	15:40.07	-0.11
PKSV	32.3	185	ePg	9:15:37.20	0.01
			eSg	15:41.62	-0.06

324.

2016-09-10 time: 13:25:58.14 UTC ML= 1.3  
 lat: 46.090N lon: 16.363E h= 11.5 km  
 erh= 2.9km erz= 2.2km  
 nr= 26 gap=144 rms=0.91  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOGS	40.8	348	iPg	13:26:06.07	0.37
			iSg	26:11.61	0.01
GOLS	57.8	261	iPg	13:26:08.47	-0.20
CRES	76.1	247	iPg	13:26:11.27	-0.61
LEGS	82.4	259	iPg	13:26:12.33	-0.67
PDKS	105.7	268	iPn	13:26:16.06	-0.81
PERS	113.5	302	iPn	13:26:17.27	-0.58
SOKA	121.4	303	Pn	13:26:19.07	0.23
			Sn	26:33.51	-1.47
VISS	122.4	255	iPn	13:26:18.75	-0.20
			eSn	26:33.87	-1.32
VNDS	128.5	271	ePn	13:26:19.49	-0.23
KOVH	134.3	90	ePn	13:26:20.57	0.12
			eSn	26:36.85	-1.00
GBRS	135.7	243	iPn	13:26:21.95	1.33
ARSA	144.1	334	Pn	13:26:22.43	0.76
			Sn	26:39.37	-0.65
OBKA	147.3	288	Pn	13:26:23.59	1.52
			Sn	26:40.21	-0.52
PKSV	148.1	99	ePn	13:26:22.28	0.12
			eSn	26:40.18	-0.72
MOZS	149.9	279	iPn	13:26:23.44	1.05
CRNS	162.6	270	iPn	13:26:25.67	1.71
PKSM	176.5	86	eSn	13:26:44.68	-2.53
MORH	176.8	85	eSn	13:26:45.38	-1.89
JAVS	179.4	263	iPn	13:26:28.31	2.24

325.

2016-09-12 time: 8:40:06.03 UTC ML= 1.3  
 lat: 47.871N lon: 19.357E h= 0.0 km  
 erh= 7.5km erz=20.4km  
 nr= 9 gap=128 rms=2.21  
 Locality: Nőgrádkövesd  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	10.6	212	ePg	8:40:07.79	-0.14
			eSg	40:09.16	-0.24
PSZ	40.5	83	ePg	8:40:11.96	-1.31
			eSg	40:17.42	-1.50
BUD	49.8	210	eSg	8:40:22.62	0.75
VYHS	79.3	331	ePg	8:40:21.10	0.90
			eSg	40:29.30	-1.95
LANS	142.5	3	ePn	8:40:36.80	5.97
			eSn	40:43.00	-7.18

## Földrengés paraméterek

## Hypocenter Parameters

326.

2016-09-12 time: 9:59:01.43 UTC ML= 0.6  
 lat: 47.147N lon: 18.098E h= 0.0 km  
 erh= 2.7km erz= 426km  
 nr= 6 gap=234 rms=0.27  
 Locality: Öskü  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	13.3	339	ePg	9:59:04.04			0.23
			eSg	59:05.32			-0.35
CSKK	27.0	27	ePg	9:59:05.99			-0.26
			eSg	59:09.81			-0.19
PKSG	35.1	39	eSg	9:59:13.02			0.44
MPLH	42.4	273	ePg	9:59:09.11			0.10

327.

2016-09-13 time: 7:41:44.09 UTC ML= 0.9  
 lat: 47.449N lon: 18.436E h= 0.0 km  
 erh= 5.1km erz= 504km  
 nr= 6 gap=333 rms=0.31  
 Locality: Várgesztes  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	7.2	208	ePgc	7:41:45.74			0.37
			eSg	41:46.18			-0.19
CSKK	16.3	234	ePgc	7:41:47.00			0.00
			eSg	41:48.84			-0.43
PKST	36.9	235	ePg	7:41:50.34			-0.34
			eSg	41:56.21			0.38

328.

2016-09-13 time: 8:28:08.41 UTC ML= 1.5  
 lat: 48.611N lon: 20.788E h= 0.0 km  
 erh= 7.8km erz= 5.8km  
 nr= 7 gap=152 rms=0.47  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	26.5	238	ePg	8:28:12.70			-0.44
			eSg	28:16.80			-0.03
CRVS	59.1	57	ePg	8:28:19.50			0.53
PSZ	101.7	221	ePg	8:28:27.10			0.53
			eSg	28:40.49			-0.24
KOLS	114.9	72	eSg	8:28:44.30			-0.63
VYHS	144.7	265	eSn	8:28:52.80			-0.25

329.

2016-09-14 time: 6:03:11.56 UTC ML= 1.4  
 lat: 48.475N lon: 19.211E h= 0.0 km  
 erh= 5.5km erz= 958km  
 nr= 5 gap=175 rms=0.43  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
VYHS	27.8	274	ePg	6:03:16.50			-0.02
			eSg	03:20.20			-0.19
PSZ	80.1	141	ePg	6:03:26.57			0.72
			eSg	03:36.45			-0.56
KECS	94.2	89	eSg	6:03:41.30			-0.21

330.

2016-09-15 time: 11:34:37.19 UTC ML= 0.5  
 lat: 47.201N lon: 18.289E h= 0.0 km  
 erh= 2.7km erz= 327km  
 nr= 6 gap=268 rms=0.20  
 Locality: Csór  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	18.1	353	ePg	11:34:40.33			-0.10
			eSg	34:42.36			-0.59
PKST	20.3	288	ePgD	11:34:40.80			-0.02
			eSg	34:43.87			0.23
PKSG	22.5	20	ePg	11:34:41.29			0.07
			eSg	34:44.54			0.19

331.

2016-09-17 time: 8:02:53.49 UTC ML= 1.0  
 lat: 48.066N lon: 19.675E h= 0.0 km  
 erh= 3.3km erz= 761km  
 nr= 6 gap=188 rms=0.46  
 Locality: Sóshartyán  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	23.2	135	ePgc	8:02:57.96			0.32
			eSg	03:00.72			-0.15
PENC	42.5	224	ePg	8:03:00.28			-0.80
			eSg	03:07.20			0.21
VYHS	78.3	307	ePg	8:03:08.00			0.52
			eSg	03:18.00			-0.40

332.

2016-09-17 time: 16:33:42.11 UTC ML= 0.7  
 lat: 45.757N lon: 17.792E h= 17.0 km  
 erh= 1.5km erz= 0.5km  
 nr= 8 gap=325 rms=0.11  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKSV	38.6	68	ePg	16:33:49.59			-0.06
			eSg	33:55.55			0.01
KOVH	43.9	33	ePgD	16:33:50.64			0.12
			eSg	33:56.94			-0.14
PKSM	83.0	52	eP*	16:33:56.83			-0.06
			eS*	34:08.78			0.36
MORH	83.5	52	eP*	16:33:56.93			-0.03
			eS*	34:08.46			-0.08

333.

2016-09-19 time: 8:26:47.84 UTC ML= 1.4  
 lat: 48.591N lon: 20.787E h= 0.0 km  
 erh= 4.3km erz= 4.0km  
 nr= 9 gap=151 rms=0.46  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	25.3	242	ePg	8:26:52.20			-0.15
			eSg	26:55.90			0.03
CRVS	60.5	55	ePg	8:26:59.10			0.47
			eSg	27:07.20			0.14
PSZ	99.9	222	ePg	8:27:06.27			0.59
			eSg	27:19.39			-0.21
KOLS	115.7	71	eSg	8:27:24.00			-0.61
VYHS	144.4	266	ePn	8:27:12.60			-0.28
			eSn	27:30.70			-1.71

## Hypocenter Parameters

## Földrengés paraméterek

334.

2016-09-21 time: 6:25:22.93 UTC ML= 1.2  
 lat: 47.323N lon: 17.651E h= 0.0 km  
 erh= 1.8km erz= 5.1km  
 nr= 13 gap=149 rms=0.56  
 Locality: Bakonykoppány  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	18.9	206	ePg	6:25:25.59	-0.72
			eSg	25:28.63	-0.32
EGYH	26.3	294	ePg	6:25:27.49	-0.14
			eSg	25:32.18	0.89
PKST	29.8	104	ePg	6:25:27.94	-0.32
			eSg	25:32.34	-0.08
CSKK	46.3	84	ePg	6:25:31.36	0.17
			eSg	25:37.35	-0.29
TIH	50.5	159	ePg	6:25:32.94	1.00
			eSg	25:39.79	0.82
PKSG	56.4	82	ePg	6:25:32.56	-0.44
			eSg	25:39.84	-1.02
PKSM	144.8	149	ePn	6:25:48.52	0.50

335.

2016-09-21 time: 9:01:49.36 UTC ML= 0.6  
 lat: 46.171N lon: 18.292E h= 7.3 km  
 erh= 1.4km erz= 2.7km  
 nr= 7 gap=201 rms=0.10  
 Locality: Zobákpuzsta  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	17.4	238	ePgC	9:01:52.59	-0.14
			eSg	01:55.50	0.14
PKSM	27.4	80	ePg	9:01:54.55	0.14
			eSg	01:58.22	-0.14
MORH	27.7	80	ePg	9:01:54.44	-0.03
			eSg	01:58.45	0.00
PKSV	31.5	186	ePgD	9:01:55.18	0.05

336.

2016-09-21 time: 9:53:47.17 UTC ML= 1.7  
 lat: 47.306N lon: 18.159E h= 10.0 km  
 erh= 1.5km erz= 1.2km  
 nr= 32 gap= 68 rms=0.79  
 Locality: Balinka  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	10.0	50	ePgD	9:53:49.20	-0.49
			eSg	53:51.10	-0.56
PKST	10.8	241	ePgD	9:53:49.26	-0.53
			eSg	53:50.98	-0.85
PKSG	20.0	61	ePgD	9:53:50.62	-0.54
			eSg	53:53.53	-0.74
MPLH	49.3	252	ePg	9:53:56.33	0.19
			eSg	54:04.00	0.86
TIH	49.4	204	ePg	9:53:56.14	-0.03
			eSg	54:03.45	0.26
SRO	57.6	12	eSg	9:54:06.70	0.94
EGYH	63.7	281	eSg	9:54:07.23	-0.43
PKB1	75.3	140	ePg	9:54:02.25	1.51
			eSg	54:10.21	-1.11
PKB5	90.4	151	ePg	9:54:04.48	1.07
			eSg	54:16.76	0.69
PKB4	96.2	159	eSg	9:54:17.51	-0.39
PKB2	108.2	130	eSn	9:54:20.08	-1.35
MORH	126.7	163	ePn	9:54:08.27	-0.45
			eSn	54:24.03	-1.50
ZST	126.8	321	ePn	9:54:08.80	0.07
			eSn	54:25.10	-0.45
PKSM	127.1	163	ePn	9:54:08.92	0.15

			eSn	54:24.45	-1.16
KOVH	135.4	182	ePn	9:54:11.34	1.53
			eSn	54:27.57	0.11
MODS	135.9	331	ePn	9:54:09.60	-0.26
			eSn	54:26.10	-1.46
VYHS	141.5	21	ePn	9:54:11.60	1.03
			eSn	54:27.90	-0.92
PSZ	147.2	62	ePn	9:54:11.92	0.64
			eSn	54:32.45	2.36

337.

2016-09-22 time: 8:59:01.31 UTC ML= 1.6  
 lat: 47.871N lon: 19.178E h= 0.0 km  
 erh= 2.7km erz= 657km  
 nr= 8 gap=201 rms=0.47  
 Locality: Ósagárd  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	11.8	139	ePg	8:59:03.12	-0.30
			eSg	59:05.13	0.06
PSZ	53.8	84	ePg	8:59:10.93	0.01
			eSg	59:18.89	0.48
VYHS	73.8	340	ePg	8:59:15.10	0.61
			eSg	59:24.20	-0.57
KECS	118.7	55	ePg	8:59:22.70	0.20
			eSg	59:37.90	-1.13

338.

2016-09-22 time: 11:26:32.75 UTC ML= 1.1  
 lat: 47.006N lon: 18.045E h= 0.0 km  
 erh= 2.3km erz= 397km  
 nr= 5 gap=226 rms=0.18  
 Locality: Balatonalmádi  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
TIH	16.5	225	ePg	11:26:35.84	0.15
PKST	28.2	358	ePg	11:26:37.57	-0.21
			eSg	26:42.00	0.30
MPLH	42.5	295	ePg	11:26:40.21	-0.13
			eSg	26:46.27	0.01

339.

2016-09-26 time: 6:14:04.87 UTC ML= 0.7  
 lat: 47.276N lon: 18.343E h= 0.0 km  
 erh= 1.8km erz= 265km  
 nr= 6 gap=250 rms=0.16  
 Locality: Magyaralmás  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	11.5	327	ePgC	6:14:06.74	-0.19
			eSg	14:08.69	0.16
PKSG	13.4	16	ePgC	6:14:07.43	0.17
			eSg	14:08.89	-0.23
PKST	23.4	265	ePgC	6:14:09.12	0.07
			eSg	14:12.25	-0.06

340.

2016-09-26 time: 23:34:05.14 UTC ML= 0.9  
 lat: 46.289N lon: 19.703E h= 5.4 km  
 erh= 2.3km erz= 2.5km  
 nr= 7 gap=312 rms=0.17  
 Locality: Öttömös  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKB5	81.7	295	eSg	23:34:31.66	0.49
MORH	82.0	264	ePg	23:34:19.74	-0.08



## Földrengés paraméterek

## Hypocenter Parameters

eSg 34:31.18 -0.09  
 PKSM 82.3 264 ePg 23:34:19.91 0.04  
 eSg 34:31.42 0.07  
 PKB1 88.9 308 eSg 23:34:33.19 -0.27  
 KOVH 125.7 260 ePn 23:34:27.17 0.02

341.

2016-09-27 time: 23:37:13.81 UTC ML= 0.8  
 lat: 46.839N lon: 18.893E h= 12.6 km  
 erh= 1.5km erz= 1.1km  
 nr= 15 gap=253 rms=0.31  
 Locality: Dunaegyháza  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKB1	9.8	232	ePg	23:37:16.50	-0.16
			eSg	37:18.20	-0.68
PKB5	29.7	204	ePg	23:37:19.60	0.03
			eSg	37:24.00	-0.06
PKS7	30.8	41	eSg	23:37:20.20	-4.20*
PKB2	32.3	124	ePg	23:37:19.90	-0.10
			eSg	37:24.60	-0.23
PKB4	44.1	210	ePg	23:37:22.10	0.11
PKS2	45.7	148	ePg	23:37:22.60	0.33
			eSg	37:29.10	0.23
PKB3	51.6	153	eSg	23:37:30.20	-0.49
MORH	71.9	195	ePg	23:37:27.40	0.56
			eSg	37:37.20	0.20
PKSM	72.3	196	eSg	23:37:37.20	0.05
KOVH	103.3	216	eP*	23:37:32.10	0.00
			eS*	37:45.80	-0.56

342.

2016-09-28 time: 8:17:33.75 UTC ML= 1.1  
 lat: 45.854N lon: 18.395E h= 0.0 km  
 erh= 2.1km erz= 343km  
 nr= 10 gap=264 rms=0.27  
 Locality: Kisharsány  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	11.7	289	ePg	8:17:36.01	0.17
			eSg	17:36.85	-0.62
KOVH	34.7	319	ePg	8:17:40.09	0.15
			eSg	17:45.01	0.24
PKSM	44.2	26	ePgC	8:17:41.57	-0.07
			eSg	17:47.50	-0.29
MORH	44.7	26	ePgC	8:17:41.64	-0.08
			eSg	17:47.69	-0.26
PKB1	107.9	16	ePg	8:17:53.54	0.52
			eSg	18:07.91	-0.14

343.

2016-09-28 time: 12:37:29.80 UTC ML= 1.9  
 lat: 48.610N lon: 20.752E h= 0.0 km  
 erh= 3.6km erz= 4.0km  
 nr= 12 gap=116 rms=0.98  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.2	234	ePg	12:37:34.50	0.37
			eSg	37:38.00	0.50
CRVS	61.4	58	ePg	12:37:41.10	0.33
			eSg	37:49.30	-0.02
PSZ	99.9	220	ePg	12:37:47.96	0.33
			eSg	38:01.19	-0.35
LANS	111.7	303	ePg	12:37:50.00	0.25
			eSg	38:02.30	-3.02
VYHS	142.0	265	ePn	12:37:54.70	0.15
			eSn	38:12.70	-1.15
TRPA	142.7	112	ePn	12:37:56.02	1.39

eSn 38:11.26 -2.74

344.

2016-09-29 time: 8:58:07.76 UTC ML= 1.1  
 lat: 46.013N lon: 18.482E h= 0.4 km  
 erh= 1.8km erz=93.1km  
 nr= 11 gap=203 rms=0.39  
 Locality: Monyoród  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	22.6	232	ePgD	8:58:11.90	0.11
			eSg	58:14.80	-0.14
PKSM	25.3	29	ePgD	8:58:12.09	-0.19
			eSg	58:15.44	-0.36
MORH	25.8	29	ePgD	8:58:12.16	-0.21
			eSg	58:15.49	-0.47
KOVH	30.7	286	ePg	8:58:13.02	-0.23
			eSg	58:16.70	-0.83
PKS9	65.7	346	ePg	8:58:20.34	0.85
			eSg	58:31.35	2.71*
PKB1	89.0	16	ePg	8:58:24.02	0.37
			eSg	58:36.10	0.05

345.

2016-09-29 time: 10:46:58.74 UTC ML= 0.6  
 lat: 47.178N lon: 18.313E h= 0.0 km  
 erh= 2.8km erz= 412km  
 nr= 7 gap=255 rms=0.28  
 Locality: Székesfehérvár  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	21.0	349	ePgC	10:47:02.32	-0.16
			eSg	47:05.47	0.07
PKST	23.0	293	ePgC	10:47:02.53	-0.31
			eSg	47:05.98	-0.06
PKSG	24.5	14	ePg	10:47:03.20	0.09
			eSg	47:06.55	0.04
MPLH	58.7	269	ePg	10:47:09.88	0.66

346.

2016-09-30 time: 7:09:23.70 UTC ML= 1.5  
 lat: 48.402N lon: 19.089E h= 0.0 km  
 erh= 3.3km erz= 5.9km  
 nr= 8 gap=137 rms=0.75  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	21.3	299	ePg	7:09:27.70	0.19
			eSg	09:30.90	0.42
PSZ	80.5	132	ePg	7:09:39.09	1.01
			eSg	09:48.33	-0.97
LANS	87.8	18	ePg	7:09:39.30	-0.07
			eSg	09:51.00	-0.59
MODS	134.2	269	ePn	7:09:47.80	0.33
			eSn	10:03.80	-2.22

347.

2016-09-30 time: 9:55:03.26 UTC ML= 1.2  
 lat: 45.561N lon: 17.860E h= 15.5 km  
 erh= 2.1km erz= 0.7km  
 nr= 8 gap=338 rms=0.14  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	47.5	40	ePg	9:55:12.23	0.04
			eSg	55:19.27	0.12

**Hypocenter Parameters**

**Földrengés paraméterek**

KOVH 61.5 18 ePg 9:55:14.66 0.07  
 eSg 55:23.22 -0.20  
 PKSM 94.4 40 eP\* 9:55:19.88 -0.04  
 eS\* 55:33.22 0.30  
 MORH 94.9 40 eP\* 9:55:19.94 -0.06  
 eS\* 55:32.84 -0.21

351.  


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 2016-10-06 time: 14:10:37.84 UTC ML= 1.4  
 lat: 47.347N lon: 18.163E h= 7.4 km  
 erh= 1.9km erz= 1.5km  
 nr= 21 gap= 83 rms=0.73  
 Locality: Nagyveleg  
 Comments:

348.  


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 2016-10-04 time: 12:38:45.51 UTC ML= 1.0  
 lat: 47.282N lon: 18.195E h= 8.2 km  
 erh= 2.3km erz= 1.6km  
 nr= 12 gap=122 rms=0.44  
 Locality: Isztimér  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	7.6	76	ePgD	14:10:39.36	-0.37
			eSg	10:40.68	-0.53
PKST	13.8	225	ePgD	14:10:40.32	-0.31
			eSg	10:42.33	-0.48
PKSG	17.9	74	ePgD	14:10:40.90	-0.40
			eSg	10:43.86	-0.15
MPLH	51.1	247	ePg	14:10:47.32	0.26
			eSg	10:55.68	1.43
PKB1	78.7	143	ePg	14:10:54.03	2.06
			eSg	11:02.37	-0.61
PKB5	94.3	152	eSg	14:11:07.87	-0.04
PKB2	111.0	132	eSg	14:11:12.84	-0.37
MORH	131.0	164	eSn	14:11:17.42	-0.34
PKSM	131.4	164	ePn	14:11:00.00	-0.32
			eSn	12:17.10	-0.75
MODS	132.0	330	ePn	14:11:00.10	-0.29
			eSn	11:16.20	-1.78
VYHS	137.1	22	ePn	14:11:02.10	1.07
			eSn	11:18.40	-0.72
PSZ	144.8	64	ePn	14:11:03.07	1.08
			eSn	11:21.87	1.04

sta	dist	azm	phase	hr mn sec	res
CSKK	10.3	29	ePgD	12:38:47.68	-0.18
			eSg	38:49.18	-0.51
PKST	12.4	258	ePg	12:38:47.96	-0.21
			eSg	38:49.71	-0.54
PKSG	19.2	51	ePg	12:38:49.42	0.19
			eSg	38:52.54	0.41
MPLH	51.2	256	ePg	12:38:55.01	0.24
MORH	123.4	164	eSn	12:39:23.08	-0.47
PKSM	123.8	164	eSn	12:39:23.11	-0.52
KOVH	132.9	183	eSn	12:39:26.21	0.55
VYHS	143.0	20	ePn	12:39:10.20	0.88
			eSn	39:26.30	-1.60

349.  


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 2016-10-06 time: 8:16:57.98 UTC ML= 1.4  
 lat: 48.614N lon: 20.753E h= 0.0 km  
 erh= 6.1km erz= 4.8km  
 nr= 7 gap=161 rms=0.28  
 Locality: Slovakia  
 Comments: probably explosion

352.  


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 2016-10-06 time: 21:18:01.26 UTC ML= 1.1  
 lat: 47.357N lon: 18.489E h= 10.0 km  
 erh= 2.3km erz= 1.6km  
 nr= 16 gap=230 rms=0.47  
 Locality: Csákvár  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	24.5	233	ePg	8:17:02.00	-0.36
			eSg	17:05.90	0.12
CRVS	61.1	58	ePg	8:17:09.00	0.11
PSZ	100.3	219	ePg	8:17:16.29	0.41
			eSg	17:29.76	-0.09
VYHS	142.1	265	ePn	8:17:22.50	-0.23
			eSn	17:40.20	-1.84*

sta	dist	azm	phase	hr mn sec	res
PKSG	8.4	298	ePgD	21:18:03.41	-0.18
			eSg	18:05.00	-0.41
CSKK	17.3	272	ePgD	21:18:04.81	-0.02
			eSg	18:07.79	0.18
PKST	36.1	252	ePg	21:18:07.73	-0.21
			eSg	18:13.27	0.11
TIH	68.0	222	eSg	21:18:23.40	0.29
PKB5	86.7	168	ePg	21:18:17.54	0.69
			eSg	18:27.82	-1.19
EGYH	87.6	274	eSg	21:18:28.97	-0.33
PKB4	96.0	175	ePg	21:18:18.82	0.32
			eSg	18:30.47	-1.48
MORH	127.4	175	eSn	21:18:38.95	-0.83
PKSM	127.8	175	ePn	21:18:23.38	0.43
			eSn	18:39.05	-0.82
KOVH	144.1	192	eSn	21:18:44.14	0.65

350.  


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 2016-10-06 time: 8:28:29.08 UTC ML= 1.8  
 lat: 47.987N lon: 20.000E h= 0.0 km  
 erh= 2.4km erz= 2.2km  
 nr= 12 gap=174 rms=0.50  
 Locality: Mátraballa  
 Comments: probably explosion

353.  


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 2016-10-07 time: 8:41:10.21 UTC ML= 1.6  
 lat: 48.590N lon: 20.774E h= 0.0 km  
 erh= 3.4km erz= 3.4km  
 nr= 8 gap=150 rms=0.25  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	11.0	226	ePnC	8:28:30.87	-0.18
			eSg	28:33.11	0.53
PENC	58.0	248	ePg	8:28:39.01	-0.43
			eSg	28:47.64	0.12
KECS	65.9	33	ePg	8:28:41.00	0.15
			eSg	28:49.70	-0.33
VYHS	103.2	303	ePg	8:28:47.70	0.19
			eSg	29:01.40	-0.48
CSKK	147.9	242	eSn	8:29:15.25	0.82
PKB1	161.9	214	eSn	8:29:16.38	-1.15
MORH	222.2	208	eSn	8:29:31.79	0.87
PKSM	222.7	208	eSn	8:29:32.50	1.47

sta	dist	azm	phase	hr mn sec	res
KECS	24.4	241	ePg	8:41:14.40	-0.17
			eSg	41:18.50	0.52
CRVS	61.3	56	ePg	8:41:21.30	0.15
			eSg	41:29.10	-0.59
PSZ	99.3	221	ePg	8:41:27.91	-0.03
			eSg	41:41.76	0.00

## Földrengés paraméterek

## Hypocenter Parameters

KOLS 116.6 71 eSg 8:41:47.60 0.33  
 VYHS 143.5 266 ePn 8:41:35.00 -0.14  
 eSn 41:52.80 -1.79\*

354.

2016-10-07 time: 11:08:13.70 UTC ML= 1.5  
 lat: 47.885N lon: 19.417E h= 0.0 km  
 erh= 3.6km erz= 943km  
 nr= 8 gap=140 rms=0.69  
 Locality: Bercel  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	14.6	224	ePg	11:08:15.83	-0.47
			eSg	08:18.74	0.41
PSZ	35.9	84	ePg	11:08:19.79	-0.32
			eSg	08:25.55	0.43
VYHS	80.3	327	ePg	11:08:29.20	1.17
			eSg	08:37.10	-2.12
KECS	103.6	50	ePg	11:08:32.10	-0.11
			eSg	08:46.20	-0.44

355.

2016-10-07 time: 11:19:40.97 UTC ML= 0.6  
 lat: 47.169N lon: 18.294E h= 0.0 km  
 erh= 1.9km erz= 291km  
 nr= 7 gap=254 rms=0.19  
 Locality: Sárkeszi  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	21.7	353	ePg	11:19:44.77	-0.08
			eSg	19:47.89	0.02
PKST	22.0	297	ePgD	11:19:45.10	0.19
			eSg	19:47.99	0.01
PKSG	25.8	17	ePg	11:19:45.82	0.24
			eSg	19:48.82	-0.36
MPLH	57.2	270	ePg	11:19:50.97	-0.22

356.

2016-10-07 time: 14:34:26.04 UTC ML= 1.1  
 lat: 47.373N lon: 18.526E h= 10.0 km  
 erh= 1.9km erz= 1.6km  
 nr= 16 gap=103 rms=0.53  
 Locality: Csákvár  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	10.4	282	ePgD	14:34:28.60	-0.02
			eSg	34:30.26	-0.37
CSKK	20.1	267	ePgD	14:34:30.05	0.00
			eSg	34:33.02	-0.15
PKST	39.3	251	ePg	14:34:32.94	-0.34
			eSg	34:38.80	-0.12
PKB1	68.5	163	ePg	14:34:38.83	0.43
			eSg	34:47.34	-0.69
PENC	73.4	51	eSg	14:34:49.68	0.09
PSZ	119.4	59	eSn	14:35:01.70	-1.08
VYHS	126.8	11	ePn	14:34:48.90	1.29
			eSn	35:03.00	-1.43
MORH	128.9	176	ePn	14:34:48.38	0.51
			eSn	35:04.44	-0.46
PKSM	129.4	176	ePn	14:34:48.15	0.23
			eSn	35:04.38	-0.61

357.

2016-10-07 time: 15:06:11.77 UTC ML= 1.4  
 lat: 48.096N lon: 19.821E h= 0.4 km  
 erh= 4.0km erz= 400km  
 nr= 6 gap=137 rms=0.67  
 Locality: Salgótarján  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PSZ	20.5	165	ePgD	15:06:15.25	-0.18
			eSg	06:17.57	-0.72
KECS	65.4	49	ePg	15:06:23.70	0.25
			eSg	06:32.10	-0.47
VYHS	85.4	301	ePg	15:06:28.40	1.38
			eSg	06:38.40	-0.52

358.

2016-10-07 time: 19:24:51.07 UTC ML= 1.5  
 lat: 47.350N lon: 18.522E h= 8.7 km  
 erh= 1.3km erz= 1.4km  
 nr= 33 gap= 75 rms=0.63  
 Locality: Lovasberény  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	11.0	295	ePgD	19:24:53.27	-0.30
			eSg	24:54.93	-0.60
CSKK	19.8	274	ePgD	19:24:54.68	-0.26
			eSg	24:57.55	-0.41
PKST	38.3	255	ePgC	19:24:57.59	-0.49
			eSg	25:02.98	-0.57
BUD	40.6	69	eSg	19:25:03.89	-0.40
SRO	53.8	343	ePg	19:25:01.40	0.59
			eSg	25:07.50	-0.90
PKB1	66.2	162	ePg	19:25:03.03	0.03
			eSg	25:11.95	-0.35
TIH	69.2	224	ePg	19:25:03.24	-0.29
			eSg	25:13.29	0.05
MPLH	77.0	255	ePg	19:25:04.61	-0.31
			eSg	25:16.58	0.86
PKB5	85.5	169	ePg	19:25:07.13	0.70
			eSg	25:17.71	-0.69
EGYH	90.2	275	ePg	19:25:09.23	1.97
			eSg	25:19.22	-0.66
PKB2	93.0	144	ePg	19:25:08.52	0.77
			eSg	25:20.62	-0.14
PKB4	95.2	176	ePg	19:25:08.43	0.29
			eSg	25:20.30	-1.15
PKB3	115.1	154	ePn	19:25:11.78	0.44
			eSn	25:26.73	-0.41
PSZ	120.9	59	ePn	19:25:11.60	-0.47
			eSn	25:25.83	-2.61
MORH	126.5	176	ePn	19:25:13.14	0.38
			eSn	25:27.32	-2.36
PKSM	126.9	176	ePn	19:25:13.19	0.38
			eSn	25:28.01	-1.76
VYHS	129.3	10	ePn	19:25:13.20	0.09
			eSn	25:26.80	-3.50*
MODS	147.0	321	ePn	19:25:16.00	0.68

359.

2016-10-08 time: 10:44:19.32 UTC ML= 1.2  
 lat: 45.616N lon: 17.227E h= 11.0 km  
 erh= 6.4km erz= 1.6km  
 nr= 8 gap=343 rms=0.36  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	85.3	69	ePg	10:44:34.46	-0.22
			eSg	44:46.36	-0.30
KOVH	85.7	52	ePg	10:44:34.60	-0.16

## Hypocenter Parameters

	eSg	44:47.56	0.76
PKSM 128.1	59 ePn	10:44:41.17	0.24
	eSn	44:57.71	-0.07
MORH 128.6	59 ePn	10:44:41.36	0.38
	eSn	44:57.30	-0.57

360.

2016-10-09 time: 4:04:00.41 UTC ML= 0.2  
 lat: 47.322N lon: 18.545E h= 0.5 km  
 erh= 5.8km erz= 143km  
 nr= 6 gap=316 rms=0.10  
 Locality: Lovasberény  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKSG	14.0	304	ePgD	4:04:02.96			0.05
			eSg	04:04.58			-0.29
CSKK	22.0	282	ePg	4:04:04.43			0.10
			eSg	04:07.35			-0.04
PKST	39.2	260	ePgD	4:04:07.37			-0.05
			eSg	04:12.94			0.06

361.

2016-10-09 time: 20:37:02.52 UTC ML= 2.1  
 lat: 46.040N lon: 17.358E h= 15.1 km  
 erh= 2.5km erz= 1.7km  
 nr= 40 gap=158 rms=0.79  
 Locality: Babócsa  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
KOVH	57.7	85	ePg	20:37:13.01			-0.16
			eSg	37:20.24			-1.23
BEHE	65.6	317	ePg	20:37:13.87			-0.68
			eSg	37:25.01			1.07
PKSV	71.3	104	ePg	20:37:16.29			0.75
			eSg	37:27.41			1.71
PKS9	93.5	49	eP*	20:37:18.68			-0.39
			eS*	37:31.36			-0.62
PKSM	101.0	79	ePn	20:37:19.89			-0.33
			eSn	37:32.43			-1.59
MORH	101.3	79	ePn	20:37:19.98			-0.27
			eSn	37:33.68			-0.40
TIH	104.1	23	ePn	20:37:20.13			-0.47
			eSn	37:33.00			-1.70
PKB4	108.6	62	ePn	20:37:20.88			-0.29
			eSn	37:35.61			-0.10
PTJ	109.6	262	ePn	20:37:22.03			0.74
			eSn	37:35.20			-0.73
PKB5	122.8	60	ePn	20:37:22.54			-0.39
			eSn	37:37.34			-1.51
MPLH	126.5	6	ePn	20:37:23.63			0.24
			eSn	37:39.12			-0.54
PKB1	137.9	53	ePn	20:37:24.33			-0.49
			eSn	37:42.91			0.71
PKST	145.1	21	ePn	20:37:25.68			-0.04
			eSn	37:43.55			-0.26
PKB3	148.0	73	ePn	20:37:26.14			0.07
PKS2	151.6	71	ePn	20:37:26.71			0.18
			eSn	37:48.73			3.48*
EGYH	153.2	359	ePn	20:37:27.61			0.89
			eSn	37:47.41			1.82
PKB2	161.3	64	eSn	20:37:51.22			3.83*
CSKK	162.5	25	ePn	20:37:29.46			1.57
			eSn	37:49.30			1.63
PKSG	169.8	28	ePn	20:37:29.19			0.40
			eSn	37:51.40			2.11
SOKA	192.5	292	Pn	20:37:31.42			-0.21
ARSA	194.6	314	Pn	20:37:30.74			-1.14
CONA	238.9	332	Pn	20:37:39.41			2.01
VYHS	294.9	22	ePn	20:37:44.70			0.30
			eSn	38:14.30			-2.75*
MOA	309.7	311	Pn	20:37:45.61			-0.63*

## Földrengés paraméterek

Sn 38:19.29 -1.04\*

362.

2016-10-09 time: 20:45:09.07 UTC ML= 1.5  
 lat: 47.792N lon: 17.593E h= 11.5 km  
 erh= 1.5km erz= 1.6km  
 nr= 33 gap= 58 rms=0.74  
 Locality: Györladamér  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
EGYH	46.0	205	ePg	20:45:17.98			0.43
			eSg	45:25.20			1.05
SRO	54.0	87	ePg	20:45:18.90			-0.04
			eSg	45:25.90			-0.73
ZST	58.0	321	ePg	20:45:19.70			0.07
			eSg	45:26.90			-0.97
PKST	67.9	151	ePg	20:45:21.07			-0.30
			eSg	45:29.77			-1.20
MODS	68.9	340	ePg	20:45:23.00			1.46
			eSg	45:30.00			-1.27
MPLH	69.2	183	ePg	20:45:21.63			0.03
			eSg	45:31.06			-0.31
CSKK	69.2	133	ePg	20:45:21.84			0.24
			eSg	45:31.14			-0.24
PKSG	74.7	127	ePg	20:45:22.23			-0.34
			eSg	45:32.54			-0.55
SOP	78.5	261	ePg	20:45:23.54			0.29
			eSg	45:33.29			-1.01
SMOL	81.2	351	ePg	20:45:24.50			0.78
			eSg	45:33.50			-1.65
RONA	97.8	264	P*	20:45:26.56			-0.05
			S*	45:38.59			-1.70
TIH	101.7	167	eP*	20:45:27.91			0.70
			eS*	45:42.43			1.08
VYHS	121.1	50	ePn	20:45:29.50			-0.23
			eSn	45:44.00			-1.84
CONA	130.4	277	Pn	20:45:31.05			0.15
			Sn	45:47.74			-0.18
PKS9	143.7	159	ePn	20:45:35.09			2.55
MORH	192.6	155	ePn	20:45:38.70			0.06
PKSM	192.9	156	ePn	20:45:38.16			-0.52
KOVH	193.2	168	ePn	20:45:38.50			-0.23
			eSn	45:59.30			-2.56

363.

2016-10-10 time: 9:37:55.84 UTC ML= 1.1  
 lat: 47.227N lon: 18.259E h= 0.0 km  
 erh= 2.5km erz= 6.4km  
 nr= 14 gap= 96 rms=0.70  
 Locality: Iszkaszentgyörgy  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	15.1	0	ePg	9:37:58.11			-0.44
			eSg	38:01.62			0.97
PKST	17.4	282	ePg	9:37:58.82			-0.13
			eSg	38:01.67			0.30
PKSG	20.9	29	ePg	9:37:59.22			-0.35
			eSg	38:02.35			-0.12
PKB1	63.8	141	ePg	9:38:08.15			0.92
PKB5	79.1	153	ePg	9:38:11.47			1.50
MORH	116.2	165	ePg	9:38:16.33			-0.27
			eSg	38:30.96			-1.82
PKSM	116.6	165	ePg	9:38:16.39			-0.27
			eSg	38:31.41			-1.49
KOVH	127.2	185	ePg	9:38:18.72			0.17
PSZ	145.1	58	ePn	9:38:20.35			-0.62

## Földrengés paraméterek

## Hypocenter Parameters

364.  
 2016-10-10 time: 10:00:42.94 UTC ML= 1.5  
 lat: 47.860N lon: 19.132E h= 0.0 km  
 erh= 6.3km erz= \*\*\*km  
 nr= 6 gap=218 rms=0.61  
 Locality: Szendehely  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	13.6	124	ePg	10:00:45.20	-0.17
			eSg	00:47.36	0.10
PSZ	57.4	83	ePg	10:00:52.93	-0.26
			eSg	01:01.09	-0.09
VYHS	73.9	343	ePg	10:00:57.30	1.17
			eSg	01:05.50	-0.92

365.  
 2016-10-10 time: 10:40:49.39 UTC ML= 2.0  
 lat: 46.048N lon: 17.332E h= 16.2 km  
 erh= 4.9km erz= 2.6km  
 nr= 17 gap=214 rms=0.75  
 Locality: Bolhó  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	59.6	86	ePg	10:40:59.80	-0.61
			eSg	41:10.05	1.04
BEHE	63.6	318	ePg	10:41:00.72	-0.40
			eSg	41:11.87	1.61
PKSV	73.5	104	eP*	10:41:04.04	1.24
			eS*	41:14.18	0.93
PKS9	94.4	51	eP*	10:41:05.70	-0.28
			eS*	41:18.35	-0.57
PKSM	102.8	80	ePn	10:41:06.84	-0.33
MORH	103.1	80	ePn	10:41:06.93	-0.28
			eSn	41:20.41	-0.70
PKB4	110.0	63	eSn	10:41:21.60	-1.04
PKB5	124.0	61	ePn	10:41:09.18	-0.64
			eSn	41:25.89	0.13
MPLH	125.8	7	ePn	10:41:11.02	0.98
			eSn	41:27.01	0.86
PKB1	139.0	54	eSn	10:41:29.96	0.89

366.  
 2016-10-11 time: 8:44:28.93 UTC ML= 1.6  
 lat: 48.601N lon: 20.788E h= 0.0 km  
 erh= 6.1km erz= 6.5km  
 nr= 8 gap=151 rms=0.48  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.9	240	ePg	8:44:33.20	-0.35
			eSg	44:36.90	-0.25
CRVS	59.8	56	ePg	8:44:40.10	0.49
			eSg	44:48.10	0.16
PSZ	100.8	221	ePg	8:44:47.19	0.26
			eSg	45:01.76	0.79
KOLS	115.3	71	eSg	8:45:04.80	-0.78
VYHS	144.6	265	ePn	8:44:53.50	-0.49
			eSn	45:09.70	-3.84*

367.  
 2016-10-11 time: 10:38:23.66 UTC ML= 1.2  
 lat: 45.566N lon: 17.321E h= 10.0 km  
 erh= 3.7km erz= 1.9km  
 nr= 12 gap=226 rms=0.41  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	80.9	64	ePg	10:38:38.63	0.42
			eSg	38:49.99	0.43
KOVH	83.9	46	ePg	10:38:37.99	-0.75
			eSg	38:50.78	0.27
BEHE	109.0	337	ePn	10:38:43.30	0.30
			eSn	38:58.34	0.24
PTJ	112.4	289	ePn	10:38:43.32	-0.11
			eSn	38:57.39	-1.46
PKSM	125.1	55	ePn	10:38:45.29	0.28
			eSn	39:01.34	-0.33
MORH	125.6	55	ePn	10:38:44.92	-0.15
			eSn	39:01.39	-0.38

368.  
 2016-10-12 time: 8:23:13.85 UTC ML= 1.5  
 lat: 48.949N lon: 19.369E h= 0.0 km  
 erh= 7.5km erz= \*\*\*km  
 nr= 6 gap=264 rms=0.65  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	64.0	218	ePg	8:23:25.40	0.12
			eSg	23:34.80	0.61
KECS	97.1	122	ePg	8:23:31.80	0.61
			eSg	23:44.40	-0.32
PSZ	121.0	161	ePg	8:23:34.13	-1.33
			eSg	23:52.42	0.11

369.  
 2016-10-13 time: 7:58:32.32 UTC ML= 0.8  
 lat: 47.442N lon: 18.413E h= 0.0 km  
 erh= 4.2km erz= 488km  
 nr= 6 gap=322 rms=0.28  
 Locality: Várgesztes  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	5.8	197	ePnC	7:58:33.55	0.20
			eSg	58:33.95	-0.20
CSKK	14.4	233	ePg	7:58:34.92	0.03
			eSg	58:36.58	-0.32
PKST	35.1	235	ePg	7:58:38.31	-0.27
			eSg	58:44.07	0.61

370.  
 2016-10-14 time: 23:22:51.66 UTC ML= 0.4  
 lat: 47.318N lon: 18.149E h= 9.3 km  
 erh= 2.9km erz= 0.7km  
 nr= 6 gap=186 rms=0.05  
 Locality: Balinka  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	9.8	59	ePgD	23:22:54.09	0.02
			eSg	22:55.89	-0.06
PKST	10.9	233	ePgD	23:22:54.22	0.01
			eSg	22:56.19	-0.01
PKSG	20.0	66	ePg	23:22:55.54	-0.06
			eSg	22:58.78	0.11

371.  
 2016-10-15 time: 1:49:47.39 UTC ML= 0.7  
 lat: 47.319N lon: 18.153E h= 10.0 km  
 erh= 3.1km erz= 1.5km  
 nr= 11 gap=169 rms=0.39  
 Locality: Balinka  
 Comments:

## Hypocenter Parameters

## Földrengés paraméterek

sta	dist	azm	phase	hr	mn	sec	res
CSKK	9.5	59	ePgD	1:49:49.85			0.00
			eSg	49:51.49			-0.28
PKST	11.2	233	ePgD	1:49:49.96			-0.11
			eSg	49:51.73			-0.43
PKSG	19.7	66	ePgD	1:49:51.25			-0.09
			eSg	49:54.47			0.05
MPLH	49.3	250	ePg	1:49:57.10			0.73
MORH	128.3	163	ePn	1:50:10.00			0.86
			eSn	50:25.77			-0.33
PKSM	128.6	163	ePn	1:50:08.87			-0.31
			eSn	50:25.58			-0.60

372.

2016-10-15 time: 1:54:35.79 UTC ML= 0.6  
 lat: 47.319N lon: 18.173E h= 10.0 km  
 erh= 2.9km erz= 1.7km  
 nr= 11 gap=162 rms=0.49  
 Locality: Balinka  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	8.2	53	ePgD	1:54:38.07			-0.03
			eSg	54:39.68			-0.23
PKST	12.4	238	ePgD	1:54:38.18			-0.45
			eSg	54:39.91			-0.95
PKSG	18.3	64	ePg	1:54:39.50			-0.02
			eSg	54:42.77			0.35
MPLH	50.7	251	ePg	1:54:45.58			0.56
			eSg	54:52.91			0.69
MORH	127.8	164	ePn	1:54:58.28			0.81
			eSn	55:13.96			-0.43
PKSM	128.1	164	eSn	1:55:14.00			-0.47

373.

2016-10-16 time: 2:46:48.36 UTC ML= 0.1  
 lat: 47.278N lon: 18.184E h= 5.6 km  
 erh= 3.6km erz= 3.8km  
 nr= 6 gap=208 rms=0.06  
 Locality: Isztimér  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	11.1	31	ePgD	2:46:50.58			0.01
			eSg	46:52.29			-0.01
PKST	11.5	259	ePgD	2:46:50.70			0.05
			eSg	46:52.36			-0.07
PKSG	20.1	51	ePg	2:46:51.99			-0.09
			eSg	46:55.08			0.10

374.

2016-10-16 time: 17:44:49.81 UTC ML= 1.6  
 lat: 46.071N lon: 17.034E h= 15.7 km  
 erh= 2.5km erz= 2.4km  
 nr= 27 gap=155 rms=0.72  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
BEHE	48.6	336	ePg	17:44:58.83			-0.11
			eSg	45:05.07			-0.98
KOGS	73.5	305	ePg	17:45:04.07			0.83
			eSg	45:14.97			1.25
KOVH	82.4	89	eP*	17:45:05.05			0.42
			eS*	45:16.09			-0.09
PTJ	85.6	257	eP*	17:45:05.59			0.49
			eS*	45:16.19			-0.84
PKSV	96.5	102	eP*	17:45:07.37			0.60
			eS*	45:19.88			-0.12
TIH	113.3	36	ePn	17:45:08.52			-0.44
			eSn	45:22.52			-1.37
PKSM	125.1	83	ePn	17:45:10.05			-0.39

sta	dist	azm	phase	hr	mn	sec	res
MORH	125.4	83	eSn	45:26.07			-0.46
			ePn	17:45:09.47			-1.00
MPLH	128.1	18	eSn	45:27.01			0.42
			ePn	17:45:10.62			-0.19
PKB4	129.8	69	eSn	45:26.32			-0.87
			ePn	17:45:11.86			0.83
PKB5	143.3	66	eSn	45:28.32			0.75
			ePn	17:45:11.95			-0.76
PKST	152.6	30	eSn	45:31.89			1.32
			ePn	17:45:13.46			-0.40
PKB1	156.6	60	eSn	45:33.66			1.04
			ePn	17:45:13.42			-0.95
PKSG	179.7	35	eSn	45:34.77			1.25
			eSn	17:45:40.99			2.35

375.

2016-10-19 time: 9:05:23.77 UTC ML= 0.6  
 lat: 46.176N lon: 18.291E h= 0.0 km  
 erh= 1.1km erz= 200km  
 nr= 7 gap=204 rms=0.14  
 Locality: Zobákpusztá  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	17.7	236	ePg	9:05:26.71			-0.21
			eSg	05:29.61			0.22
PKSM	27.4	82	ePg	9:05:28.62			-0.03
			eSg	05:32.67			0.21
MORH	27.6	81	ePg	9:05:28.67			-0.03
			eSg	05:32.52			-0.03
PKSV	32.1	185	eSg	9:05:34.01			0.04

376.

2016-10-19 time: 11:21:27.78 UTC ML= 0.3  
 lat: 47.196N lon: 18.310E h= 0.0 km  
 erh= 2.9km erz= 348km  
 nr= 5 gap=273 rms=0.16  
 Locality: Székesfehérvár  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	18.9	348	ePg	11:21:30.96			-0.20
			eSg	21:33.91			0.12
PKST	22.0	288	eSg	11:21:34.80			0.02
PKSG	22.6	16	ePg	11:21:32.00			0.20
			eSg	21:34.81			-0.14

377.

2016-10-19 time: 13:55:26.77 UTC ML= 1.8  
 lat: 48.353N lon: 19.857E h= 0.0 km  
 erh= 2.9km erz= 3.9km  
 nr= 10 gap=141 rms=0.83  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	48.4	177	ePgD	13:55:35.36			-0.06
			eSg	55:41.80			-0.36
KECS	48.8	73	ePg	13:55:35.30			-0.18
			eSg	55:41.80			-0.48
VYHS	77.1	282	ePg	13:55:40.20			-0.35
			eSg	55:49.70			-1.59
ABAH	102.8	94	eSg	13:55:59.45			0.01
CRVS	133.1	63	ePn	13:55:51.60			1.19
			eSn	56:07.60			-1.24
MODS	191.1	271	eSn	13:56:24.00			2.28
TRPA	200.8	97	eSn	13:56:15.75			-8.11*

## Földrengés paraméterek

## Hypocenter Parameters

378.

2016-10-20 time: 8:41:19.60 UTC ML= 0.6  
 lat: 45.860N lon: 18.390E h= 0.0 km  
 erh= 1.2km erz= 188km  
 nr= 8 gap=260 rms=0.13  
 Locality: Kisharsány  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	11.2	286	ePg	8:41:21.61	0.01
			eSg	41:22.80	-0.35
KOVH	33.9	318	ePg	8:41:25.90	0.24
			eSg	41:30.45	0.07
PKSM	43.6	26	ePgC	8:41:27.41	0.01
			eSg	41:33.32	-0.16
MORH	44.1	26	ePgC	8:41:27.46	-0.03
			eSg	41:33.63	-0.01

379.

2016-10-20 time: 10:41:26.95 UTC ML= 1.5  
 lat: 48.551N lon: 20.829E h= 0.0 km  
 erh= 4.1km erz= 4.0km  
 nr= 9 gap=156 rms=0.75  
 Locality: Hidvégárdó  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	26.5	253	ePg	10:41:31.60	-0.08
			eSg	41:35.40	0.03
CRVS	60.7	50	ePg	10:41:38.50	0.71
			eSg	41:45.30	-0.94
PSZ	98.9	225	ePg	10:41:45.47	0.86
			eSg	41:58.50	0.12
KOLS	114.4	68	eSg	10:42:03.70	0.40
			ePn	10:41:51.50	-0.86
eSn	42:10.00	-2.18			

380.

2016-10-21 time: 6:49:12.10 UTC ML= 0.2  
 lat: 47.318N lon: 18.110E h= 17.7 km  
 erh= 6.3km erz= 2.3km  
 nr= 6 gap=205 rms=0.20  
 Locality: Bakonycsérnye  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	8.7	221	ePg	6:49:15.55	-0.07
			eSg	49:18.34	-0.03
CSKK	12.5	66	ePg	6:49:16.21	0.24
			ePn	6:49:17.10	-0.16
PKSM	129.5	162			ePn
			eSn	49:48.96	-0.37

381.

2016-10-21 time: 8:35:55.27 UTC ML= 0.9  
 lat: 47.129N lon: 17.943E h= 10.0 km  
 erh= 2.1km erz= 2.9km  
 nr= 14 gap=107 rms=0.57  
 Locality: Kádárta  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	16.1	26	ePg	8:35:58.13	-0.52
			eSg	36:00.48	-0.81
TIH	25.7	189	ePg	8:35:59.37	-0.82
			eSg	36:03.89	-0.14
MPLH	31.0	279	ePg	8:36:01.44	0.36
			ePn	8:36:01.91	0.06
eSg	36:06.89	-0.10			
PKSG	44.8	49	ePg	8:36:03.67	0.20

PKB1	75.1	121	ePg	8:36:09.74	0.94
			eSg	36:19.28	-0.08
PKB5	84.7	134	ePg	8:36:11.27	0.77
			eSg	36:22.31	-0.06
PKSM	115.1	152	ePn	8:36:14.97	-0.40
			eSn	36:29.17	-1.88

382.

2016-10-21 time: 14:06:58.20 UTC ML= 0.2  
 lat: 47.355N lon: 18.111E h= 7.2 km  
 erh= 9.7km erz= 7.0km  
 nr= 6 gap=231 rms=0.15  
 Locality: Nagyveleg  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	11.4	86	ePgD	14:07:00.66	0.06
			eSg	07:02.34	-0.13
PKST	12.2	208	ePgD	14:07:00.81	0.09
			eSg	07:02.58	-0.12
PKSG	21.5	79	ePg	14:07:02.05	-0.20
			eSg	07:05.71	0.29

383.

2016-10-22 time: 7:54:58.70 UTC ML= 1.3  
 lat: 48.042N lon: 19.590E h= 0.0 km  
 erh= 3.1km erz= 734km  
 nr= 6 gap=169 rms=0.47  
 Locality: Nagylóc  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	26.6	121	ePgC	7:55:03.26	-0.19
			eSg	55:07.50	0.35
PENC	36.3	219	ePg	7:55:05.54	0.36
			eSg	55:08.80	-1.44
VYHS	75.2	312	ePg	7:55:12.40	0.27
			eSg	55:22.50	-0.11

384.

2016-10-23 time: 23:35:36.01 UTC ML= 1.2  
 lat: 47.975N lon: 19.413E h= 9.0 km  
 erh= 3.6km erz=18.6km  
 nr= 7 gap=118 rms=0.62  
 Locality: Cserhátsurány  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PENC	22.8	206	ePg	23:35:40.07	-0.31
			eSg	35:43.23	-0.57
PSZ	36.5	100	ePgD	23:35:42.97	0.25
			eSg	35:47.91	-0.05
VYHS	71.9	323	ePg	23:35:50.30	1.36
			eSg	35:58.80	-0.23
KECS	97.7	55	eSg	23:36:06.40	-0.78

385.

2016-10-24 time: 7:50:28.79 UTC ML= 0.7  
 lat: 47.303N lon: 18.341E h= 0.0 km  
 erh= 2.3km erz= 2.6km  
 nr= 8 gap=237 rms=0.33  
 Locality: Magyaralmás  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	9.0	318	ePg	7:50:29.92	-0.48
			eSg	50:31.75	0.09
PKSG	10.6	21	ePg	7:50:30.93	0.25
			eSg	50:32.36	0.21
PKST	23.7	258	ePg	7:50:33.09	0.07

## Hypocenter Parameters

## Földrengés paraméterek

VYHS 137.5 16 eSg 50:36.29 -0.03  
 ePn 7:50:53.30 0.33  
 eSn 51:10.90 -0.93

386.

2016-10-24 time: 9:40:57.62 UTC ML= 1.8  
 lat: 48.644N lon: 20.726E h= 0.0 km  
 erh= 1.5km erz= 1.9km  
 nr= 11 gap=143 rms=0.24  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.2	225	ePg	9:41:01.90	-0.21
			eSg	41:05.80	0.19
CRVS	61.2	62	ePg	9:41:08.70	0.15
			eSg	41:15.70	-1.38*
STHS	94.0	24	ePg	9:41:14.60	0.21
			eSg	41:26.90	-0.58
PSZ	101.5	217	ePg	9:41:15.81	0.06
			eSg	41:30.01	0.12
KOLS	118.2	74	eSg	9:41:35.10	-0.08
VYHS	140.5	263	ePn	9:41:22.30	0.13
			eSn	41:40.60	-0.71

387.

2016-10-24 time: 9:48:44.88 UTC ML= 1.5  
 lat: 47.839N lon: 19.095E h= 0.0 km  
 erh= 5.6km erz= 756km  
 nr= 5 gap=234 rms=0.34  
 Locality: Szendehely  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	15.0	111	ePgD	9:48:47.29	-0.26
			eSg	48:49.98	0.35
PSZ	60.4	82	eSg	9:49:03.99	-0.09
VYHS	75.3	345	ePg	9:48:58.80	0.48
			eSg	49:08.40	-0.41

388.

2016-10-24 time: 13:09:01.19 UTC ML= 0.7  
 lat: 47.291N lon: 18.326E h= 0.0 km  
 erh= 0.6km erz=95.8km  
 nr= 6 gap=237 rms=0.06  
 Locality: Magyaralmás  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	9.5	328	ePg	13:09:02.80	-0.08
			eSg	09:04.24	0.04
PKSG	12.2	23	ePg	13:09:03.46	0.08
			eSg	09:05.04	-0.04
PKST	22.4	261	ePg	13:09:05.19	0.00
			eSg	09:08.31	0.00

389.

2016-10-25 time: 7:49:18.78 UTC ML= 2.1  
 lat: 47.946N lon: 20.042E h= 0.0 km  
 erh= 2.5km erz= 4.2km  
 nr= 12 gap=120 rms=0.72  
 Locality: Bodony  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	11.5	254	ePgC	7:49:21.34	0.51
			eSg	49:23.53	1.10
PENC	59.5	253	ePg	7:49:29.28	-0.13
			eSg	49:38.63	0.94
KECS	68.2	29	ePg	7:49:31.80	0.85

ABAH 97.2 66 eSg 49:39.20 -1.25  
 ePg 7:49:36.18 0.04  
 eSg 49:48.60 -1.08  
 VYHS 108.4 304 ePg 7:49:38.20 0.07  
 eSg 49:51.90 -1.32  
 PKSN 117.4 186 eSg 7:49:54.97 -1.13  
 PKSG 138.5 244 eSn 7:50:01.26 -0.79

390.

2016-10-25 time: 9:30:44.47 UTC ML= 1.4  
 lat: 48.603N lon: 20.761E h= 0.0 km  
 erh= 7.1km erz= 6.0km  
 nr= 7 gap=152 rms=0.55  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.3	237	ePg	9:30:48.70	-0.11
			eSg	30:52.70	0.51
CRVS	61.3	57	ePg	9:30:55.30	-0.13
PSZ	99.7	220	ePgC	9:31:02.89	0.62
			eSg	31:15.39	-0.76
KOLS	117.1	72	eSg	9:31:21.80	0.11
VYHS	142.6	265	eSn	9:31:27.40	-1.25

391.

2016-10-25 time: 10:10:07.14 UTC ML= 0.6  
 lat: 47.191N lon: 18.269E h= 0.0 km  
 erh= 2.5km erz= 339km  
 nr= 6 gap=271 rms=0.20  
 Locality: Csőr  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	19.2	358	ePg	10:10:10.81	0.25
			eSg	10:13.37	0.14
PKST	19.3	293	ePg	10:10:10.70	0.11
			eSg	10:12.95	-0.33
PKSG	24.1	22	ePg	10:10:11.30	-0.15
			eSg	10:14.66	-0.15

392.

2016-10-26 time: 9:25:15.47 UTC ML= 1.1  
 lat: 47.117N lon: 17.988E h= 11.2 km  
 erh= 1.4km erz= 1.1km  
 nr= 13 gap=109 rms=0.38  
 Locality: Litér  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	16.1	13	ePg	9:25:18.27	-0.71
			eSg	25:22.01	0.29
TIH	25.2	197	ePg	9:25:20.21	-0.18
			eSg	25:24.28	0.04
CSKK	34.2	37	ePg	9:25:22.10	0.20
			eSg	25:26.98	0.06
MPLH	34.5	280	ePg	9:25:22.09	0.14
			eSg	25:27.04	0.03
PKSG	43.1	45	ePg	9:25:23.57	0.15
PKSM	112.4	154	eSn	9:25:49.79	-0.58
KOVH	114.7	176	ePn	9:25:36.13	0.77
			eSn	25:50.96	0.07
SOP	124.9	300	eSn	9:25:52.98	-0.18



## Földrengés paraméterek

## Hypocenter Parameters

393.

2016-10-26 time: 11:40:07.16 UTC ML= 1.4  
 lat: 45.554N lon: 17.331E h= 10.0 km  
 erh= 7.0km erz= 3.2km  
 nr= 10 gap=227 rms=0.65  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	80.8	63	ePg	11:40:22.27	0.57
			eSg	40:31.94	-1.10
KOVH	84.3	45	ePgD	11:40:22.35	0.04
			eSg	40:33.12	-1.01
PTJ	113.6	290	eSn	11:40:41.39	-1.23
PKSM	125.3	54	ePn	11:40:28.92	0.38
			eSn	40:44.94	-0.27
MORH	125.7	54	ePn	11:40:28.68	0.09
			eSn	40:44.66	-0.65
KOGS	130.0	320	eSn	11:40:47.30	1.05

394.

2016-10-27 time: 9:30:07.45 UTC ML= 0.6  
 lat: 46.169N lon: 18.295E h= 0.0 km  
 erh= 1.0km erz= 183km  
 nr= 7 gap=200 rms=0.14  
 Locality: Zobákpuszta  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.6	239	ePgc	9:30:10.34	-0.25
			eSg	30:13.26	0.22
PKSM	27.1	80	ePgD	9:30:12.29	-0.01
			eSg	30:16.14	0.06
MORH	27.4	79	ePgD	9:30:12.35	0.00
			eSg	30:16.25	0.08
PKSV	31.3	186	eSg	9:30:17.55	0.13

395.

2016-10-28 time: 2:59:22.71 UTC ML= 1.8  
 lat: 47.089N lon: 21.081E h= 25.0 km  
 erh= 5.2km erz=11.4km  
 nr= 10 gap=155 rms=0.79  
 Locality: Kertészsziget  
 Comments:

sta	dist	azm	phase	hr mn sec	res
AMBH	86.5	198	ePn	2:59:36.75	-0.78
			eSn	59:48.29	-0.81
PKS6	127.8	245	ePn	2:59:43.61	0.92
			eSn	3:00:00.86	2.58
PSZ	128.5	316	ePn	2:59:42.32	-0.45
			eSn	59:57.51	-0.91
ABAH	134.8	5	ePn	2:59:43.59	0.03
			eSn	59:59.96	0.14
TRPA	159.5	43	ePn	2:59:46.92	0.28
			eSn	3:00:07.23	1.93

396.

2016-10-28 time: 10:40:09.35 UTC ML= 1.5  
 lat: 48.568N lon: 20.785E h= 0.0 km  
 erh= 3.1km erz= 5.2km  
 nr= 10 gap=147 rms=0.79  
 Locality: Tornanádaska  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.0	247	ePg	10:40:13.90	0.26
			eSg	40:17.70	0.72
ABAH	45.3	132	ePg	10:40:16.11	-1.32
			eSg	40:24.20	0.47

CRVS	62.1	53	ePg	10:40:20.90	0.46
			eSg	40:28.90	-0.20
PSZ	97.9	222	ePg	10:40:27.72	0.89
			eSg	40:39.75	-0.72
VYHS	144.1	267	ePn	10:40:34.50	0.14
			eSn	40:52.00	-1.86

397.

2016-10-28 time: 11:47:49.63 UTC ML= 2.0  
 lat: 48.294N lon: 21.252E h= 10.0 km  
 erh= 4.1km erz= 2.6km  
 nr= 11 gap= 93 rms=0.98  
 Locality: Abaujalpár  
 Comments:

sta	dist	azm	phase	hr mn sec	res
ABAH	0.9	282	ePg	11:47:51.00	-0.43
KECS	60.5	290	eSg	11:48:09.10	-0.02
TRPA	97.4	101	ePg	11:48:07.00	-0.12
			eSg	48:20.40	-0.36
KOLS	103.5	47	eP*	11:48:09.60	1.41
			eS*	48:20.90	-1.77
PSZ	109.4	248	eSn	11:48:22.00	-2.15
LTVH	112.2	154	eSn	11:48:24.80	0.03
STHS	124.8	360	eSn	11:48:27.20	-0.38
PENC	157.2	249	eSn	11:48:36.70	1.93
DRGR	200.0	147	eSn	11:48:45.00	0.74

398.

2016-10-30 time: 2:21:38.19 UTC ML= 1.0  
 lat: 45.993N lon: 18.037E h= 12.6 km  
 erh= 2.0km erz= 0.8km  
 nr= 9 gap=322 rms=0.20  
 Locality: Szabadszentkirály  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	11.6	25	ePgD	2:21:41.18	-0.07
			eSg	21:43.49	-0.15
PKSM	52.7	62	ePg	2:21:48.02	0.16
			eSg	21:55.33	-0.07
MORH	53.1	62	ePgc	2:21:48.03	0.10
			eSg	21:55.42	-0.10
PKB4	71.0	38	eSg	2:22:02.69	1.59
PKB5	85.9	39	eSg	2:22:05.74	-0.03
PKB1	105.4	33	eSn	2:22:11.08	-0.16

399.

2016-10-30 time: 3:19:57.93 UTC ML= 0.7  
 lat: 47.308N lon: 18.148E h= 8.0 km  
 erh= 0.6km erz= 0.5km  
 nr= 9 gap=163 rms=0.10  
 Locality: Balinka  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	10.2	238	ePgD	3:20:00.32	0.07
			eSg	20:01.92	-0.13
CSKK	10.5	54	ePgD	3:20:00.32	0.03
			eSg	20:02.35	0.22
PKSG	20.6	63	ePgD	3:20:01.72	-0.15
			eSg	20:04.96	0.01
MPLH	48.6	252	eSg	3:20:13.60	0.02
PKB2	109.0	130	eSg	3:20:32.73	0.05
PKSM	127.5	163	eSn	3:20:36.89	-0.04

## Hypocenter Parameters

400.  
 2016-10-31 time: 13:15:09.36 UTC ML= 1.2  
 lat: 45.507N lon: 17.347E h= 13.9 km  
 erh= 6.2km erz= 1.5km  
 nr= 8 gap=343 rms=0.23  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	82.3	59	ePg	13:15:23.95	-0.32
			eSg	15:36.23	0.34
KOVH	87.2	42	eP*D	13:15:25.16	0.09
			eS*	15:37.18	-0.15
PKSM	127.5	52	ePn	13:15:30.89	0.38
			eSn	15:46.79	-0.22
MORH	127.9	52	ePn	13:15:30.55	-0.02
			eSn	15:46.96	-0.15

401.

2016-11-03 time: 9:35:01.18 UTC ML= 1.1  
 lat: 48.597N lon: 20.799E h= 0.0 km  
 erh= 1.7km erz= 531km  
 nr= 7 gap=138 rms=0.35  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	26.4	241	ePg	9:35:06.20	0.31
			eSg	35:09.70	0.13
ABAH	46.7	136	ePg	9:35:09.44	-0.08
			eSg	35:16.30	0.27
STHS	96.8	20	ePg	9:35:18.70	0.24
			eSg	35:31.40	-0.54
PSZ	101.0	222	eSg	9:35:32.58	-0.72

402.

2016-11-04 time: 10:15:39.15 UTC ML= 2.0  
 lat: 48.259N lon: 21.208E h= 1.8 km  
 erh= 2.4km erz= 5.4km  
 nr= 9 gap=202 rms=0.37  
 Locality: Abaújszántó  
 Comments:

sta	dist	azm	phase	hr mn sec	res
ABAH	4.7	30	ePgC	10:15:39.85	-0.20
			eSg	15:41.13	0.38
KECS	59.0	295	eSg	10:15:57.70	-0.22
CRVS	73.9	15	ePg	10:15:53.10	0.75
			eSg	16:02.10	-0.54
PSZ	105.0	249	ePg	10:15:58.09	0.19
			eSg	16:12.23	-0.29
KOLS	108.6	46	ePg	10:15:58.40	-0.14
			eSg	16:13.30	-0.36

403.

2016-11-05 time: 11:40:09.43 UTC ML= 1.3  
 lat: 48.595N lon: 20.811E h= 0.0 km  
 erh= 1.3km erz= 2.4km  
 nr= 11 gap=114 rms=0.33  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	27.0	243	ePg	11:40:14.30	0.05
			eSg	40:18.40	0.39
ABAH	45.9	136	eSg	11:40:23.45	-0.58
CRVS	58.8	54	ePg	11:40:20.10	0.17
			eSg	40:27.50	-0.62
STHS	96.7	19	ePg	11:40:26.40	-0.30
PSZ	101.4	222	eSg	11:40:41.43	-0.23

## Földrengés paraméterek

KOLS 113.9 71 ePg 11:40:30.30 0.53  
 eSg 40:45.90 0.26  
 VYHS 146.2 266 ePn 11:40:34.80 0.11  
 eSn 40:54.40 0.00

404.

2016-11-05 time: 23:29:15.06 UTC ML= 2.0  
 lat: 46.469N lon: 20.469E h= 11.5 km  
 erh= 3.2km erz= 1.8km  
 nr= 26 gap=152 rms=0.65  
 Locality: Székkutas  
 Comments:

sta	dist	azm	phase	hr mn sec	res
AMBH	23.8	124	ePg	23:29:19.79	0.02
			eSg	29:24.00	0.55
PKSN	66.2	316	ePg	23:29:27.45	0.39
			eSg	29:35.99	-0.43
PKS6	70.9	282	ePg	23:29:28.05	0.17
			eSg	29:38.91	1.03
PKS2	96.4	272	eP*	23:29:32.48	0.08
			eS*	29:46.41	0.48
PKB2	96.8	284	eP*	23:29:32.14	-0.31
			eS*	29:45.95	-0.07
PKB3	98.0	267	eP*	23:29:32.38	-0.26
			eS*	29:45.97	-0.38
PKS7	118.8	303	eSn	23:29:50.46	-0.88
PKB1	133.1	285	ePn	23:29:36.20	-1.02
			eSn	29:54.80	0.30
PKB5	133.7	276	ePn	23:29:37.92	0.63
			eSn	29:55.45	0.81
PKB4	143.2	271	ePn	23:29:39.51	1.03
			eSn	29:57.91	1.16
MORH	143.2	259	ePn	23:29:37.46	-1.02
			eSn	29:57.79	1.03
PKSM	143.6	259	ePn	23:29:37.52	-1.00
			eSn	29:57.43	0.61
PKSG	188.6	303	ePn	23:29:44.44	0.30
			eSn	30:08.80	1.97
VYHS	256.6	331	ePn	23:29:51.70	-0.92

405.

2016-11-05 time: 23:44:23.80 UTC ML= 2.4  
 lat: 46.490N lon: 20.483E h= 11.5 km  
 erh= 3.1km erz= 1.8km  
 nr= 32 gap=159 rms=0.73  
 Locality: Székkutas  
 Comments: Felt 4 EMS

sta	dist	azm	phase	hr mn sec	res
AMBH	24.3	130	ePg	23:44:28.84	0.23
			eSg	44:33.11	0.76
PKSN	65.3	314	ePg	23:44:35.77	0.13
			eSg	44:44.83	-0.04
PKS6	71.5	280	ePg	23:44:37.07	0.34
			eSg	44:48.17	1.36
PKB2	97.3	282	eP*	23:44:40.89	-0.39
			eS*	44:54.02	-0.89
PKS2	97.5	270	eP*	23:44:41.66	0.35
			eS*	44:55.61	0.65
PKB3	99.2	266	eP*	23:44:41.30	-0.27
			eS*	44:55.11	-0.32
PKS7	118.5	302	ePn	23:44:44.43	0.29
			eSn	44:59.67	-0.34
PKB1	133.5	284	ePn	23:44:45.30	-0.72
			eSn	45:04.13	0.78
PKB5	134.5	275	ePn	23:44:45.53	-0.62
			eSn	45:04.48	0.91
MORH	144.8	258	ePn	23:44:46.59	-0.83
			eSn	45:07.16	1.31
PKSM	145.1	258	ePn	23:44:46.60	-0.86
			eSn	45:06.95	1.03
PKS9	169.4	274	ePn	23:44:52.72	2.22

## Földrengés paraméterek

## Hypocenter Parameters

	eSn	45:14.89	3.58
PKSV 184.7 249	ePn	23:44:56.02	3.61
	eSn	45:19.81	5.09*
PKSG 188.2 302	ePn	23:44:52.70	-0.14
	eSn	45:17.94	2.45
KOVH 189.0 256	ePn	23:44:52.09	-0.85
	eSn	45:20.09	4.43*
PKST 205.3 295	ePn	23:44:54.72	-0.25
VYHS 255.0 331	ePn	23:45:00.80	-0.37
	eSn	45:27.00	-3.32*
ZST 318.2 307	ePn	23:45:09.00	-0.04*
	eSn	45:40.90	-3.43*
MODS 319.9 311	ePn	23:45:09.10	-0.16*
	eSn	45:41.60	-3.12*

406.

2016-11-08 time: 6:04:20.15 UTC ML= 1.2  
 lat: 48.330N lon: 22.597E h= 10.0 km  
 erh= 2.1km erz= 6.7km  
 nr= 6 gap=211 rms=0.26  
 Locality: Ukraine  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
TRPA	22.6	191	ePgC	6:04:24.59			0.02
			eSg	04:28.13			0.11
KOLS	71.2	340	ePg	6:04:32.80			-0.18
			eSg	04:43.90			0.91
ABAH	100.8	268	ePg	6:04:38.13			-0.11
			eSg	04:52.18			-0.16

407.

2016-11-08 time: 6:12:34.39 UTC ML= 1.6  
 lat: 48.326N lon: 22.627E h= 13.9 km  
 erh= 5.0km erz= 2.0km  
 nr= 7 gap=218 rms=0.28  
 Locality: Ukraine  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
TRPA	22.8	197	ePgC	6:12:39.18			0.03
			eSg	12:42.65			-0.21
KOLS	72.3	339	ePg	6:12:47.20			-0.34
			eSg	12:58.30			0.50
ABAH	103.0	268	ePn	6:12:52.71			0.22
			eSn	13:06.77			0.16
STHS	158.1	320	eSn	6:13:18.40			-0.45
KECS	159.5	276	eSn	6:13:22.30			3.14*

408.

2016-11-08 time: 9:40:58.59 UTC ML= 1.8  
 lat: 48.409N lon: 19.126E h= 0.0 km  
 erh= 1.3km erz= 3.1km  
 nr= 10 gap=151 rms=0.47  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
VYHS	23.4	294	ePg	9:41:03.00			0.23
			eSg	41:06.30			0.27
PENC	69.7	170	ePg	9:41:10.86			-0.18
			eSg	41:21.37			0.61
PSZ	79.0	134	ePg	9:41:13.23			0.52
			eSg	41:23.32			-0.39
KECS	101.0	85	ePg	9:41:16.70			0.08
			eSg	41:30.30			-0.38
MODS	136.9	268	ePn	9:41:22.00			-0.70
			eSn	41:38.50			-3.01

409.

2016-11-08 time: 11:01:25.56 UTC ML= 1.2  
 lat: 48.614N lon: 20.786E h= 0.0 km  
 erh= 3.9km erz= 6.5km  
 nr= 10 gap=152 rms=0.89  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	26.5	237	ePg	11:01:29.90			-0.40
			eSg	01:34.30			0.31
ABAH	48.7	137	ePg	11:01:34.54			0.29
			eSg	01:41.96			0.92
CRVS	59.1	57	ePg	11:01:36.90			0.79
			eSg	01:42.30			-2.04
PSZ	101.8	221	ePg	11:01:44.63			0.89
			eSg	01:56.60			-1.32
KOLS	114.9	72	eSg	11:02:02.10			0.01
VYHS	144.6	265	eSn	11:02:09.10			-1.07

410.

2016-11-08 time: 20:52:32.06 UTC ML= 1.4  
 lat: 48.109N lon: 19.891E h= 0.7 km  
 erh= 3.3km erz= 173km  
 nr= 9 gap=108 rms=0.66  
 Locality: Rónafalu  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PSZ	21.2	179	ePgD	20:52:35.93			0.09
			eSg	52:38.38			-0.42
PENC	57.7	232	eSg	20:52:49.96			-0.43
KECS	60.6	47	ePg	20:52:43.40			0.51
			eSg	52:51.50			0.17
VYHS	89.2	299	ePg	20:52:48.60			0.61
			eSg	52:59.40			-1.02
ABAH	102.4	78	ePg	20:52:50.80			0.47
			eSg	53:02.18			-2.41

411.

2016-11-09 time: 1:56:25.72 UTC ML= 0.0  
 lat: 47.493N lon: 18.447E h= 0.3 km  
 erh= 1.2km erz=35.1km  
 nr= 5 gap=330 rms=0.23  
 Locality: Várgesztes  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKSG	12.1	201	ePgC	1:56:27.90			0.03
			eSg	56:29.61			0.06
CSKK	20.2	224	ePg	1:56:29.39			0.07
			eSg	56:32.33			0.20
PKST	40.6	230	eSg	1:56:37.97			-0.66

412.

2016-11-09 time: 9:47:22.21 UTC ML= 1.5  
 lat: 48.075N lon: 21.312E h= 10.0 km  
 erh= 3.6km erz= 3.2km  
 nr= 9 gap=220 rms=0.59  
 Locality: Taktabáj  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
ABAH	25.1	348	ePgC	9:47:27.57			0.53
			eSg	47:30.18			-0.63
KECS	76.3	307	ePg	9:47:35.90			-0.04
			eSg	47:46.10			-0.56
TRPA	91.6	86	ePgC	9:47:38.53			-0.14
			eSg	47:51.34			-0.17
CRVS	92.6	7	eSg	9:47:51.90			0.08

## Hypocenter Parameters

KOLS 119.0 37 eSn 9:47:58.50 -0.36  
 STHS 149.3 358 ePn 9:47:49.20 2.62

413.

2016-11-09 time: 21:41:43.61 UTC ML= 0.0  
 lat: 47.331N lon: 18.285E h= 0.0 km  
 erh= 2.0km erz= 208km  
 nr= 6 gap=197 rms=0.07  
 Locality: Söréd  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	4.0	332	ePgD	21:41:44.32	-0.01
			eSg	41:44.91	0.02
PKSG	10.4	50	ePg	21:41:45.41	-0.06
			eSg	41:47.01	0.08
PKST	20.6	247	ePg	21:41:47.21	-0.08
			eSg	41:50.28	0.12

414.

2016-11-11 time: 8:09:57.16 UTC ML= 1.9  
 lat: 47.983N lon: 20.056E h= 7.5 km  
 erh= 2.2km erz= 2.0km  
 nr= 9 gap=147 rms=0.38  
 Locality: Mátraballa  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PSZ	14.1	239	ePgC	8:09:59.91	-0.10
			eSg	10:02.22	-0.01
PENC	61.8	250	ePg	8:10:08.02	-0.25
			eSg	10:17.16	0.22
ABAH	94.7	68	ePg	8:10:14.14	0.02
			eSg	10:26.65	-0.70
VYHS	107.0	302	ePg	8:10:17.10	0.79
			eSg	10:30.60	-0.64
PKB1	164.0	216	eSn	8:10:44.50	0.13

415.

2016-11-11 time: 18:26:16.42 UTC ML= 2.3  
 lat: 47.426N lon: 16.857E h= 10.0 km  
 erh= 1.7km erz= 1.6km  
 nr= 42 gap= 37 rms=0.89  
 Locality: Simaság  
 Comments:

sta	dist	azm	phase	hr mn sec	res
EGYH	35.8	92	ePgD	18:26:23.92	0.86
			eSg	26:29.09	0.85
SOP	36.4	322	ePgD	18:26:23.69	0.53
			eSg	26:28.25	-0.16
RONA	52.0	306	Pg	18:26:26.36	0.48
			Sg	26:33.05	-0.21
MPLH	58.9	119	ePg	18:26:27.15	0.05
ZST	87.5	12	ePg	18:26:31.30	-0.85
PKST	90.9	102	ePg	18:26:32.86	0.11
			eSg	26:43.75	-1.73
CONA	93.3	307	Pg	18:26:33.24	0.06
			Sg	26:44.29	-1.95
TIH	97.9	127	ePg	18:26:32.10	-1.90
			eSg	26:47.74	0.02
ARSA	102.7	259	Pg	18:26:34.59	-0.26
			Sg	26:46.73	-2.49
CSKK	106.2	94	eP*	18:26:35.90	0.52
			eS*	26:48.96	-1.21
BEHE	106.5	183	eP*	18:26:36.37	0.94
			eS*	26:50.13	-0.13
MODS	109.9	17	ePn	18:26:35.10	-0.78
PKSG	115.8	92	ePn	18:26:36.75	0.13
			eSn	26:51.02	-1.35
SRO	117.6	69	ePn	18:26:37.00	0.16
			eSn	26:51.60	-1.17

## Földrengés paraméterek

KOGS 118.2 203 ePn 18:26:37.01 0.10  
 eSn 26:52.16 -0.73  
 SMOL 128.2 19 ePn 18:26:39.60 1.44  
 eSn 26:54.90 -0.22  
 SOKA 161.7 239 Pn 18:26:43.00 0.66  
 Sn 27:02.48 -0.08  
 PKB1 163.3 116 ePn 18:26:42.40 -0.14  
 eSn 27:02.05 -0.86  
 KOVH 176.5 147 ePn 18:26:45.09 0.91  
 VYHS 189.6 51 ePn 18:26:45.10 -0.71  
 eSn 27:06.20 -2.54  
 MORH 191.6 135 ePn 18:26:45.78 -0.29  
 MOA 200.3 284 Pn 18:26:49.41 2.25  
 Sn 27:13.41 2.28  
 OBKA 203.1 240 Pn 18:26:48.32 0.81  
 Sn 27:12.41 0.66  
 KRLC 294.6 359 ePn 18:27:00.50 1.59  
 KHC 308.5 308 ePn 18:27:06.50 5.86\*  
 eSn 27:43.00 7.87\*

416.

2016-11-12 time: 2:17:38.99 UTC ML= 0.5  
 lat: 47.328N lon: 18.520E h= 0.8 km  
 erh= 1.2km erz=15.9km  
 nr= 6 gap=312 rms=0.04  
 Locality: Lovasberény  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	12.1	306	ePgC	2:17:41.12	-0.02
			eSg	17:42.80	-0.03
CSKK	20.0	281	ePg	2:17:42.63	0.07
			eSg	17:45.38	0.04
PKST	37.5	258	ePg	2:17:45.66	-0.03
			eSg	17:50.88	-0.03

417.

2016-11-12 time: 7:45:14.30 UTC ML= 0.0  
 lat: 47.341N lon: 18.243E h= 9.1 km  
 erh= 6.7km erz= 2.1km  
 nr= 6 gap=177 rms=0.13  
 Locality: Bodajk  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	2.8	28	ePg	7:45:16.24	0.24
			eSg	45:17.16	-0.17
PKSG	12.5	63	ePg	7:45:17.02	-0.04
			eSg	45:19.28	0.06
PKST	18.2	240	ePg	7:45:17.87	-0.07
			eSg	45:20.76	-0.02

418.

2016-11-12 time: 8:14:31.91 UTC ML= 0.8  
 lat: 47.339N lon: 18.532E h= 0.3 km  
 erh= 3.3km erz= 110km  
 nr= 5 gap=318 rms=0.04  
 Locality: Lovasberény  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	12.2	299	ePgC	8:14:34.13	0.03
			eSg	14:35.74	-0.06
CSKK	20.7	278	ePg	8:14:35.59	-0.02
			eSg	14:38.55	0.05
PKST	38.7	257	eSg	8:14:44.19	-0.02

## Földrengés paraméterek

## Hypocenter Parameters

419.

2016-11-13 time: 11:40:22.71 UTC ML= 1.8  
 lat: 47.148N lon: 19.563E h= 11.6 km  
 erh= 1.2km erz= 1.2km  
 nr= 24 gap=124 rms=0.47  
 Locality: Mikebuda  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKS7	32.6	250	ePg	11:40:29.20	0.32
			eSg	40:34.30	0.61
PKSN	36.3	140	ePg	11:40:29.50	0.00
			eSg	40:35.05	0.24
PKB2	58.1	205	ePg	11:40:33.12	-0.17
			eSg	40:40.80	-0.74
PKB1	71.3	235	ePg	11:40:35.42	-0.18
			eSg	40:45.09	-0.58
PENC	74.5	343	eSg	11:40:47.06	0.40
PKB3	85.3	199	ePg	11:40:38.77	0.69
			eSg	40:50.34	0.26
PKB5	88.1	226	ePg	11:40:38.36	-0.22
			eSg	40:50.75	-0.21
PSZ	89.1	16	ePg	11:40:37.93	-0.83
			eSg	40:49.36	-1.92
PKSG	92.8	287	ePg	11:40:39.71	0.31
			eSg	40:51.54	-0.88
PKB4	103.0	225	eP*	11:40:41.29	0.24
			eS*	40:53.50	-1.85
MORH	125.3	214	ePn	11:40:43.75	-0.13
			eSn	40:59.36	-1.04
PKSM	125.8	214	ePn	11:40:44.32	0.37
			eSn	41:00.22	-0.29
VYHS	159.2	340	eSn	11:41:08.50	0.57

420.

2016-11-14 time: 0:55:24.73 UTC ML= 2.0  
 lat: 47.967N lon: 16.925E h= 8.5 km  
 erh= 1.9km erz= 1.7km  
 nr= 52 gap= 40 rms=1.08  
 Locality: Austria  
 Comments:

sta	dist	azm	phase	hr mn sec	res
ZST	28.7	27	ePg	0:55:30.30	0.23
			eSg	55:34.10	-0.14
SOP	41.8	221	ePgD	0:55:31.61	-0.74
			eSg	55:36.36	-1.94
MODS	52.2	30	ePg	0:55:34.10	-0.08
			eSg	55:41.10	-0.45
EGYH	68.4	153	ePg	0:55:37.55	0.52
			eSg	55:46.33	-0.29
SMOL	71.4	32	ePg	0:55:37.40	-0.16
			eSg	55:46.30	-1.27
MPLH	100.0	152	ePg	0:55:42.47	-0.17
			eSg	55:55.61	-1.00
SRO	105.2	99	ePg	0:55:43.70	0.12
			eSg	55:57.10	-1.18
PKST	114.7	133	ePn	0:55:45.45	0.47
			eSn	55:59.56	-1.22
CSKK	120.7	124	ePnD	0:55:45.89	0.16
			eSn	56:00.43	-1.68
PKSG	127.3	120	ePn	0:55:46.79	0.24
			eSn	56:02.02	-1.55
ARSA	132.1	233	Pn	0:55:46.01	-1.14
			Sn	56:01.15	-3.50
TIH	139.3	148	ePn	0:55:50.18	2.13
			eSn	56:06.81	0.57
VYHS	153.6	68	ePn	0:55:49.70	-0.13
			eSn	56:10.70	1.29
KOGS	176.4	197	ePn	0:55:54.55	1.87
			eSn	56:15.10	0.62
TREC	181.7	324	ePn	0:55:53.70	0.36
			eSn	56:15.00	-0.66

PKB1	192.8	133	ePn	0:55:55.10	0.38
MOA	199.2	266	Pn	0:55:56.38	0.86
			Sn	56:18.63	-0.91
SOKA	202.5	225	Pn	0:55:57.10	1.17
PKB5	205.0	138	ePn	0:56:00.64	4.40
			eSn	56:18.60	-2.23
PKB4	207.1	142	ePn	0:56:00.23	3.72
			eSn	56:19.15	-2.14
KOVH	227.2	157	ePn	0:55:59.03	0.03
			eSn	56:23.33	-2.41
MORH	234.4	146	ePn	0:55:59.74	-0.17
			eSn	56:23.64	-3.71
PKSM	234.7	146	ePn	0:55:59.77	-0.17
			eSn	56:24.23	-3.17
KRLC	234.7	357	ePn	0:56:02.10	2.16
			eSn	56:27.00	-0.41
BIOA	248.0	263	Pn	0:56:03.25	1.65
			Sn	56:31.05	0.69
DPC	268.6	351	eSn	0:56:33.40	-1.54
KHC	278.9	298	ePn	0:56:06.10	0.64
			eSn	56:35.60	-1.63
KBA	287.2	250	Sn	0:56:39.64	0.58

421.

2016-11-14 time: 10:19:42.25 UTC ML= 1.3  
 lat: 48.615N lon: 20.743E h= 0.0 km  
 erh= 2.9km erz= 4.1km  
 nr= 10 gap=154 rms=0.59  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.0	232	ePg	10:19:46.40	-0.13
			eSg	19:50.30	0.44
ABAH	51.1	134	ePg	10:19:52.05	0.68
			eSg	19:56.95	-1.53
CRVS	61.8	59	ePg	10:19:53.60	0.33
			eSg	20:01.40	-0.48
PSZ	99.8	219	ePg	10:20:00.38	0.31
			eSg	20:13.67	-0.30
VYHS	141.4	265	ePn	10:20:07.20	0.29
			eSn	20:25.00	-1.15

422.

2016-11-14 time: 14:15:19.93 UTC ML= 1.0  
 lat: 48.599N lon: 20.824E h= 2.0 km  
 erh= 5.9km erz= 5.4km  
 nr= 8 gap=232 rms=0.61  
 Locality: Slovakia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	28.1	243	ePg	14:15:24.50	-0.46
			eSg	15:28.60	-0.29
ABAH	45.6	138	ePg	14:15:28.24	0.16
			eSg	15:33.80	-0.64
PSZ	102.5	222	ePg	14:15:39.27	1.05
			eSg	15:52.25	-0.25
VYHS	147.2	265	ePn	14:15:45.80	0.74
			eSn	16:03.90	-0.77

423.

2016-11-15 time: 8:35:03.10 UTC ML= 1.1  
 lat: 47.121N lon: 18.066E h= 7.9 km  
 erh= 1.8km erz= 2.6km  
 nr= 14 gap=117 rms=0.49  
 Locality: Vilonya  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	15.5	351	ePgD	8:35:05.20	-1.01
			eSg	35:08.79	0.16

## Hypocenter Parameters

CSKK 30.7 29 ePg 8:35:08.60 -0.15  
 eSg 35:13.62 0.46  
 PKSG 38.8 39 ePg 8:35:10.32 0.14  
 eSg 35:16.56 0.86  
 MPLH 40.3 278 ePg 8:35:10.79 0.35  
 eSg 35:16.51 0.34  
 MORH 109.9 156 ePg 8:35:23.12 0.34  
 eSg 35:37.37 -0.76  
 PKSM 110.2 156 ePg 8:35:23.16 0.32  
 eSg 35:37.64 -0.59  
 KOVH 114.8 179 ePn 8:35:23.59 0.15  
 eSn 35:38.75 -0.56

424.

2016-11-15 time: 11:20:21.13 UTC ML= 1.7  
 lat: 48.551N lon: 20.813E h= 0.0 km  
 erh= 2.5km erz= 415km  
 nr= 8 gap=156 rms=0.29  
 Locality: Bódvalenke  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.3	253	ePg	11:20:25.60	-0.05
			eSg	20:29.70	0.53
CRVS	61.7	51	ePg	11:20:32.50	0.36
			eSg	20:40.70	-0.03
PSZ	98.0	224	ePg	11:20:38.42	-0.20
			eSg	20:52.10	-0.17
STHS	101.3	18	ePg	11:20:38.80	-0.42
KOLS	115.5	68	ePg	11:20:45.50	3.74*
			eSg	20:58.00	0.15

425.

2016-11-16 time: 8:43:06.66 UTC ML= 0.6  
 lat: 47.121N lon: 18.236E h= 0.0 km  
 erh= 6.3km erz= 796km  
 nr= 6 gap=294 rms=0.50  
 Locality: Jenő  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	21.6	315	ePg	8:43:10.70	0.18
			eSg	43:13.48	-0.06
CSKK	27.0	4	ePg	8:43:11.40	-0.08
			eSg	43:13.72	-1.52
PKSG	32.3	21	ePg	8:43:12.55	0.12
			eSg	43:17.54	0.61

426.

2016-11-16 time: 9:00:14.77 UTC ML= 1.4  
 lat: 48.595N lon: 20.805E h= 0.0 km  
 erh= 1.6km erz= 3.5km  
 nr= 11 gap=137 rms=0.54  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	26.6	242	ePg	9:00:18.90	-0.62
			eSg	00:23.00	-0.22
ABAH	46.2	136	ePg	9:00:23.52	0.50
			eSg	00:29.10	-0.36
CRVS	59.2	55	ePg	9:00:25.80	0.46
			eSg	00:33.70	0.12
STHS	96.9	19	eSg	9:00:45.20	-0.37
PSZ	101.1	222	ePg	9:00:33.43	0.61
			eSg	00:46.64	-0.26
KOLS	114.4	71	eSg	9:00:51.10	-0.01
TRPA	138.5	112	eSn	9:00:56.58	-1.45

## Földrengés paraméterek

427.

2016-11-16 time: 9:54:56.79 UTC ML= 1.0  
 lat: 45.864N lon: 18.401E h= 7.1 km  
 erh= 1.1km erz= 2.0km  
 nr= 8 gap=258 rms=0.12  
 Locality: Kisharsány  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	11.9	283	ePg	9:54:58.98	-0.27
			eSg	55:01.28	0.10
KOVH	34.2	317	ePgc	9:55:03.11	0.09
			eSg	55:07.74	-0.14
PKSM	42.9	26	ePgc	9:55:04.62	0.06
			eSg	55:10.64	0.02
MORH	43.4	26	ePgc	9:55:04.69	0.05
			eSg	55:10.68	-0.09

428.

2016-11-16 time: 12:15:58.31 UTC ML= 0.5  
 lat: 46.128N lon: 18.083E h= 0.0 km  
 erh= 1.2km erz= 173km  
 nr= 7 gap=241 rms=0.11  
 Locality: Abaliget  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	4.6	163	ePg	12:15:58.98	-0.16
			eSg	15:59.91	0.12
PKSM	44.1	78	ePg	12:16:06.20	0.01
			eSg	16:12.31	-0.03
MORH	44.4	77	ePg	12:16:06.42	0.17
			eSg	16:12.32	-0.12
PKB5	72.2	44	eSg	12:16:21.28	0.01

429.

2016-11-17 time: 3:48:07.15 UTC ML= 0.0  
 lat: 47.393N lon: 18.222E h= 2.4 km  
 erh= 1.2km erz= 1.8km  
 nr= 6 gap=227 rms=0.02  
 Locality: Mór  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	4.4	139	ePg	3:48:08.05	0.02
			eSg	48:08.69	-0.03
PKSG	12.7	90	ePg	3:48:09.45	0.00
			eSg	48:11.28	0.03
PKST	20.6	224	ePg	3:48:10.83	-0.01
			eSg	48:13.74	0.01
CRVS	293.7	55	ePn	3:48:49.10	-1.40*

430.

2016-11-17 time: 18:01:03.08 UTC ML= 0.6  
 lat: 47.375N lon: 18.153E h= 4.5 km  
 erh= 5.7km erz= 6.0km  
 nr= 6 gap=229 rms=0.10  
 Locality: Nagyveleg  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	8.2	99	ePgd	18:01:04.87	0.12
			eSg	01:05.96	-0.10
PKST	15.7	215	ePgd	18:01:06.07	0.07
			eSg	01:08.17	-0.11
PKSG	18.0	84	ePgd	18:01:06.29	-0.11
			eSg	01:09.05	0.06

## Földrengés paraméterek

## Hypocenter Parameters

431.

2016-11-18 time: 11:11:37.40 UTC ML= 1.6  
 lat: 48.631N lon: 20.911E h= 0.0 km  
 erh= 1.3km erz= 5.9km  
 nr= 12 gap=133 rms=0.44  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	35.5	242	ePg	11:11:43.40	-0.33
			eSg	11:48.60	-0.07
ABAH	44.4	147	ePg	11:11:45.78	0.45
			eSg	11:51.38	-0.14
CRVS	50.5	53	ePg	11:11:46.80	0.39
			eSg	11:53.30	-0.13
STHS	90.7	16	ePg	11:11:53.70	0.10
			eSg	12:05.90	-0.33
KOLS	105.6	71	eSg	11:12:10.50	-0.46
PSZ	109.4	224	ePg	11:11:57.27	0.33
			eSg	12:11.44	-0.74
TRPA	132.8	115	eSn	11:12:16.70	-2.69

432.

2016-11-20 time: 20:31:41.28 UTC ML= 1.6  
 lat: 45.925N lon: 19.647E h= 7.9 km  
 erh= 2.9km erz= 3.3km  
 nr= 20 gap=111 rms=0.86  
 Locality: Serbia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKB3	65.5	328	ePgC	20:31:53.68	0.62
			eSg	32:01.60	-0.65
MORH	84.0	293	ePgC	20:31:56.63	0.27
			eSg	32:06.43	-1.68
PKSM	84.1	292	ePgC	20:31:56.63	0.27
			eSg	32:06.36	-1.77
FRGS	88.7	172	ePg	20:31:55.20	-1.99
			eSg	32:09.00	-0.60
PKB2	88.9	339	ePg	20:31:57.20	-0.02
			eSg	32:08.02	-1.63
AMBH	95.8	60	ePg	20:31:58.60	0.16
			eSg	32:10.80	-1.03
PKB5	102.4	317	ePg	20:32:00.55	0.94
			eSg	32:12.59	-1.32
PKB4	102.5	308	ePg	20:31:59.88	0.24
			eSg	32:12.77	-1.19
PKB1	115.9	325	ePn	20:32:02.44	0.68
			eSn	32:15.76	-1.97
KOVH	121.2	279	ePn	20:32:03.45	1.03
			eSn	32:17.08	-1.82

433.

2016-11-22 time: 9:53:14.01 UTC ML= 0.5  
 lat: 47.190N lon: 18.314E h= 0.0 km  
 erh= 3.5km erz= 328km  
 nr= 5 gap=276 rms=0.15  
 Locality: Székesfehérvár  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	19.7	348	ePg	9:53:17.52	-0.01
PKST	22.5	290	ePg	9:53:17.90	-0.13
			eSg	53:21.28	0.11
PKSG	23.2	14	ePg	9:53:18.37	0.21
			eSg	53:21.18	-0.21

434.

2016-11-23 time: 11:48:59.05 UTC ML= 0.6  
 lat: 47.213N lon: 18.295E h= 0.0 km  
 erh= 2.5km erz= 336km  
 nr= 6 gap=265 rms=0.20  
 Locality: Moha  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	16.9	351	ePg	11:49:02.02	-0.06
			eSg	49:04.49	0.06
PKST	20.4	285	ePgC	11:49:02.65	-0.05
			eSg	49:05.55	0.00
PKSG	21.2	20	ePgC	11:49:03.08	0.25
			eSg	49:05.22	-0.56

435.

2016-11-23 time: 14:03:28.40 UTC ML= 1.6  
 lat: 47.944N lon: 20.000E h= 10.0 km  
 erh= 3.5km erz= 2.4km  
 nr= 10 gap=183 rms=0.41  
 Locality: Bodony  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PSZ	8.4	250	ePgC	14:03:30.54	-0.19
			eSg	03:32.39	-0.15
PENC	56.4	252	ePg	14:03:38.85	0.23
			eSg	03:46.84	0.24
KECS	70.0	31	ePg	14:03:41.60	0.58
			eSg	03:50.60	-0.26
ABAH	100.2	67	ePg	14:03:45.95	-0.43
			eSg	03:57.77	-2.65*
VYHS	105.9	305	eP*	14:03:47.60	0.28
			eS*	04:01.10	-0.98

436.

2016-11-24 time: 11:12:40.68 UTC ML= 1.4  
 lat: 48.617N lon: 20.767E h= 0.0 km  
 erh= 2.4km erz= 3.5km  
 nr= 13 gap=117 rms=0.89  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.5	234	ePg	11:12:45.00	-0.24
			eSg	12:48.90	0.11
ABAH	50.0	136	ePg	11:12:51.39	1.79
			eSg	12:55.37	-1.20
CRVS	60.1	58	ePg	11:12:52.10	0.68
			eSg	12:59.90	0.10
STHS	95.5	21	eSg	11:13:10.70	-0.35
PSZ	101.1	220	ePg	11:12:58.97	0.23
			eSg	13:12.27	-0.55
KOLS	116.2	72	eSg	11:13:17.50	-0.12
TRPA	142.0	112	eSn	11:13:22.65	-2.08
VYHS	143.2	265	ePn	11:13:05.40	-0.16
			eSn	13:23.10	-1.87

437.

2016-11-26 time: 11:14:04.23 UTC ML= 1.5  
 lat: 48.033N lon: 19.608E h= 0.0 km  
 erh= 2.5km erz= 787km  
 nr= 9 gap=101 rms=0.59  
 Locality: Nagylóc  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	24.9	121	ePg	11:14:08.54	-0.15
			eSg	14:10.71	-1.45

## Hypocenter Parameters

PENC 36.4 222 ePg 11:14:10.72 -0.01  
 eSg 14:17.02 1.23  
 VYHS 76.9 312 ePg 11:14:18.20 0.24  
 eSg 14:28.30 -0.36  
 KECS 82.2 52 ePg 11:14:18.30 -0.61  
 eSg 14:31.80 1.45  
 ABAH 124.9 76 eSg 11:14:44.43 0.51

438.

2016-11-26 time: 18:59:38.45 UTC ML= 1.2  
 lat: 47.900N lon: 18.048E h= 10.0 km  
 erh= 1.8km erz= 8.4km  
 nr= 18 gap= 89 rms=0.61  
 Locality: Slovakia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	22.1	116	ePg	18:59:43.20	0.43
			eSg	59:46.00	-0.15
CSKK	61.8	165	ePg	18:59:49.63	0.01
			eSg	59:57.52	-0.82
PKSG	62.1	155	ePg	18:59:49.79	0.11
			eSg	59:57.70	-0.73
PKST	71.3	181	ePg	18:59:52.27	0.97
			eSg	59:59.55	-1.77
EGYH	76.0	225	ePg	18:59:51.58	-0.55
			eSg	19:00:03.60	0.79
ZST	77.8	295	ePg	18:59:52.70	0.24
			eSg	19:00:01.10	-2.29
MODS	77.9	313	ePg	18:59:53.00	0.53
			eSg	19:00:03.90	0.49
VYHS	88.3	42	ePg	18:59:54.20	-0.12
			eSg	19:00:05.00	-1.70
MPLH	89.7	205	ePg	18:59:54.27	-0.30
			eSg	19:00:06.49	-0.65

439.

2016-11-27 time: 18:39:47.65 UTC ML= 1.7  
 lat: 47.007N lon: 17.168E h= 10.0 km  
 erh= 1.4km erz= 1.2km  
 nr= 48 gap= 71 rms=0.68  
 Locality: Gógánfa  
 Comments:

sta	dist	azm	phase	hr mn sec	res
MPLH	33.5	57	ePgD	18:39:53.32	-0.58
			eSg	39:58.43	-0.35
EGYH	47.3	15	ePg	18:39:56.63	0.34
			eSg	40:03.74	0.72
TIH	56.4	102	ePgD	18:39:57.87	-0.01
			eSg	40:06.27	0.40
PKST	71.4	67	ePg	18:40:00.43	-0.10
			eSg	40:10.99	0.41
SOP	88.2	329	ePg	18:40:04.48	0.97
			eSg	40:15.98	0.10
CSKK	91.8	64	ePg	18:40:03.56	-0.58
			eSg	40:17.20	0.20
PKS9	96.8	119	ePg	18:40:06.15	1.13
			eSg	40:19.02	0.45
RONA	101.4	319	Pg	18:40:05.52	-0.33
			Sg	40:18.70	-1.34
PKSG	102.0	65	ePg	18:40:05.39	-0.57
			eSg	40:19.90	-0.34
PKB4	123.5	117	ePn	18:40:08.61	-0.20
			eSn	40:23.98	-1.32
SRO	124.5	44	ePn	18:40:09.30	0.36
			eSn	40:27.30	1.76
KOVH	124.6	145	ePn	18:40:08.66	-0.28
			eSn	40:22.83	-2.72
PKB1	126.2	101	ePn	18:40:09.06	-0.08
			eSn	40:25.45	-0.45
ARSA	127.7	282	Pn	18:40:09.49	0.15
			Sn	40:24.68	-1.57

## Földrengés paraméterek

PKB5 128.1 111 ePn 18:40:10.88 1.50  
 eSn 40:26.66 0.33  
 ZST 132.4 358 eSn 18:40:27.40 0.13  
 CONA 142.2 316 Pn 18:40:11.49 0.36  
 Sn 40:29.06 -0.39  
 MORH 143.2 128 ePn 18:40:10.86 -0.40  
 eSn 40:29.36 -0.32  
 PKSM 143.3 128 ePn 18:40:10.86 -0.42  
 eSn 40:28.66 -1.05  
 PKSV 149.6 146 ePn 18:40:11.31 -0.75  
 MODS 152.2 3 eSn 18:40:31.60 -0.08  
 PTJ 154.2 217 ePn 18:40:12.60 -0.04  
 eSn 40:33.59 1.47  
 SOKA 167.0 257 Pn 18:40:15.03 0.80  
 Sn 40:34.11 -0.84  
 VYHS 207.3 37 ePn 18:40:22.00 2.74  
 eSn 40:48.80 4.88\*  
 OBKA 207.6 255 Pn 18:40:19.80 0.50  
 Sn 40:44.87 0.89  
 MOA 238.2 293 Pn 18:40:23.91 0.80  
 Sn 40:51.09 0.33

440.

2016-11-28 time: 10:56:53.33 UTC ML= 1.2  
 lat: 46.050N lon: 18.075E h= 0.0 km  
 erh= 4.1km erz= 551km  
 nr= 10 gap=317 rms=0.44  
 Locality: Bicsérd  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	4.6	24	ePgC	10:56:54.64	0.48
			ePg	10:57:01.91	0.13
PKSM	47.3	68	ePg	10:57:01.91	0.13
			eSg	57:08.44	0.08
MORH	47.7	67	ePg	10:57:01.94	0.10
			eSg	57:08.20	-0.28
PKB4	64.2	39	ePg	10:57:04.47	-0.32
			eSg	57:15.68	1.95
PKB5	79.1	40	ePg	10:57:07.23	-0.22
			eSg	57:19.18	0.71
PKB1	98.5	34	ePg	10:57:23.65	-0.98
			eSg	57:19.18	0.71

441.

2016-11-28 time: 22:16:20.30 UTC ML=-0.3  
 lat: 47.364N lon: 18.306E h= 4.5 km  
 erh= 0.8km erz= 0.4km  
 nr= 5 gap=176 rms=0.01  
 Locality: Csákberény  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	3.4	268	ePg	22:16:21.30	-0.01
			eSg	16:22.11	0.01
PKSG	7.1	64	ePgD	22:16:21.81	0.01
			eSg	16:22.95	-0.02
PKST	23.6	240	ePg	22:16:27.94	0.00
			eSg	16:22.95	-0.02

442.

2016-11-30 time: 10:58:40.46 UTC ML= 1.6  
 lat: 47.895N lon: 19.135E h= 0.0 km  
 erh= 3.8km erz= 894km  
 nr= 7 gap=205 rms=0.59  
 Locality: Rétság  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	16.0	137	ePg	10:58:42.68	-0.63
			eSg	58:45.89	0.35
PSZ	56.9	87	eSg	10:58:58.95	0.42
			ePg	10:58:53.30	0.31
VYHS	70.2	342	ePg	10:58:53.30	0.31
			eSg	59:02.50	-0.27
KECS	119.9	57	ePg	10:59:02.50	0.64
			eSg	59:02.50	-0.27



## Földrengés paraméterek

## Hypocenter Parameters

eSg 59:17.30 -1.25

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443.

2016-12-01 time: 9:42:37.63 UTC ML= 1.6  
 lat: 48.570N lon: 20.814E h= 0.0 km  
 erh= 3.9km erz= 962km  
 nr= 6 gap=164 rms=0.57  
 Locality: Tornanádaska  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	26.1	248	ePg	9:42:41.50			-0.79
			eSg	42:45.70			-0.23
ABAH	43.9	134	eSg	9:42:51.61			0.04
CRVS	60.2	52	ePg	9:42:48.10			-0.29
			eSg	42:57.30			0.52
PSZ	99.6	223	ePg	9:42:56.30			0.88

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444.

2016-12-04 time: 4:07:20.33 UTC ML= 2.5  
 lat: 45.896N lon: 16.112E h= 6.3 km  
 erh= 1.7km erz= 1.2km  
 nr= 62 gap=147 rms=0.71  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
GCIS	37.8	265	iPgC	4:07:27.66			0.49
			iSg	07:32.72			0.22
GOLS	39.9	289	iPgD	4:07:28.00			0.45
			eSg	07:33.38			0.20
CESS	51.1	280	iPg	4:07:30.18			0.66
			iSg	07:36.82			0.13
CRES	51.5	261	iPgC	4:07:29.77			0.18
DOBS	57.2	300	iPgD	4:07:30.98			0.37
			eSg	07:38.89			0.26
LEGS	61.9	275	iPgC	4:07:31.78			0.33
			eSg	07:39.26			-0.86
KOGS	62.3	10	iPgD	4:07:31.52			0.01
			eSg	07:39.49			-0.74
GROS	78.5	323	iPgD	4:07:34.30			-0.10
BOJS	79.9	237	iPgD	4:07:34.20			-0.44
BEHE	81.8	39	ePg	4:07:34.88			-0.10
			eSg	07:45.81			-0.61
PDKS	88.3	282	iPgC	4:07:36.15			0.01
VISS	99.4	264	iPgD	4:07:37.59			-0.53
GBRS	109.2	248	iPg	4:07:39.32			-0.54
			eSg	07:53.93			-1.17
VNDS	111.7	282	iPgD	4:07:39.90			-0.40
PERS	112.5	317	iPgD	4:07:39.67			-0.78
SOKA	120.3	316	Pn	4:07:40.60			-0.97
			Sn	07:55.54			-2.59
LJU	124.0	278	iPn	4:07:41.83			-0.19
GBAS	129.6	272	iPn	4:07:42.45			-0.28
MOZS	136.5	289	iPn	4:07:43.55			-0.03
OBKA	138.6	299	Pn	4:07:44.00			0.16
			Sn	08:01.28			-0.91
KNDS	140.9	253	iPn	4:07:44.57			0.44
CRNS	144.9	278	iPn	4:07:45.06			0.43
ARSA	157.2	343	Pn	4:07:46.05			-0.11
			Sn	08:06.77			0.45
JAVS	159.0	270	ePn	4:07:46.75			0.37
PKSV	166.1	90	ePn	4:07:46.16			-1.11
			eSn	08:04.08			-4.20*
SKDS	167.9	257	ePn	4:07:47.94			0.44
			eSn	08:09.86			1.17
TIH	176.7	51	ePn	4:07:49.90			1.31
MPLH	179.0	38	ePn	4:07:48.49			-0.39
			eSn	08:09.59			-1.57
PKS9	183.9	65	ePn	4:07:47.64			-1.85
			eSn	08:16.35			4.11*
CADS	187.5	281	ePn	4:07:51.08			1.14
EGYH	193.2	29	ePn	4:07:52.65			2.00

PKSM 198.8 80 ePn 4:07:49.71 -1.64  
 eSn 08:17.67 2.12  
 RONA 201.0 4 Pn 4:07:52.01 0.38  
 Sn 08:20.95 4.91\*  
 PKB4 203.6 71 ePn 4:07:55.94 4.00  
 eSn 08:20.06 3.46  
 MYKA 207.2 293 Pn 4:07:53.34 0.94  
 CONA 226.8 355 Pn 4:07:55.73 0.89  
 Sn 08:22.73 0.98  
 PKB1 228.7 64 ePn 4:07:59.34 4.26  
 eSn 08:27.25 5.06\*  
 KBA 249.9 302 Pn 4:07:58.44 0.72  
 MOA 258.8 327 Pn 4:07:59.73 0.90  
 Sn 08:29.97 1.10  
 BIOA 274.8 317 Pn 4:08:01.05 0.22  
 Sn 08:32.60 0.18  
 MODS 289.3 18 ePn 4:08:00.60 -2.03  
 eSn 08:31.40 -4.23\*  
 ABTA 293.0 289 Pn 4:08:03.78 0.69  
 Sn 08:36.74 0.29\*  
 VYHS 355.0 36 ePn 4:08:10.10 -0.73\*  
 eSn 08:46.10 -4.12\*  
 WTTA 375.3 294 Pn 4:08:15.20 1.84\*  
 Sn 08:56.10 1.38\*  
 WATA 382.6 295 Pn 4:08:15.97 1.71\*  
 Sn 08:57.49 1.16\*  
 SQTA 403.8 291 Pn 4:08:16.73 -0.19\*  
 Sn 09:03.54 2.49\*  
 KHC 407.2 332 ePn 4:08:17.70 0.36\*  
 eSn 09:00.00 -1.80\*  
 MOTA 416.1 293 Pn 4:08:18.80 0.36\*  
 Sn 09:05.24 1.47\*  
 RETA 445.9 293 Pn 4:08:23.33 1.18\*  
 KRLC 467.4 6 ePn 4:08:24.70 -0.14\*  
 eSn 09:10.50 -4.66\*  
 PRU 469.9 346 ePn 4:08:24.80 -0.36\*  
 eSn 09:34.50 18.78\*

### 445.

2016-12-06 time: 12:26:09.95 UTC ML= 1.9  
 lat: 48.000N lon: 20.027E h= 0.0 km  
 erh= 2.0km erz= 9.3km  
 nr= 9 gap=145 rms=0.48  
 Locality: Mátraballa  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	13.4	227	ePg	12:26:12.41			0.07
			eSg	26:14.93			0.72
PENC	60.4	247	ePg	12:26:20.16			-0.57
			eSg	26:28.99			-0.15
ABAH	96.1	70	ePg	12:26:27.29			0.19
			eSg	26:40.13			-0.36
VYHS	104.1	302	ePg	12:26:29.10			0.56
			eSg	26:42.70			-0.34
PKB1	164.2	215	eSn	12:26:56.36			-2.55

### 446.

2016-12-10 time: 11:04:24.83 UTC ML= 1.4  
 lat: 47.982N lon: 19.624E h= 0.0 km  
 erh= 5.4km erz= 644km  
 nr= 5 gap=204 rms=0.30  
 Locality: Garáb  
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	21.4	109	ePg	11:04:28.30			-0.35
			eSg	04:31.64			0.01
PENC	33.3	230	ePg	11:04:30.64			-0.14
			eSg	04:35.82			0.40
ABAH	125.2	74	eSg	11:05:05.04			0.42

## Hypocenter Parameters

## Földrengés paraméterek

447.

2016-12-10 time: 11:05:12.05 UTC ML= 1.5  
 lat: 48.026N lon: 19.632E h= 0.0 km  
 erh= 8.3km erz= \*\*\*km  
 nr= 5 gap=211 rms=0.56  
 Locality: Lucfalva  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	22.9	121	ePg	11:05:15.59	-0.55
			eSg	05:19.75	0.41
PENC	37.0	225	ePg	11:05:18.16	-0.50
			eSg	05:24.25	0.43
ABAH	123.3	76	eSg	11:05:52.10	0.87

448.

2016-12-10 time: 18:49:38.59 UTC ML= 1.6  
 lat: 45.701N lon: 18.054E h= 11.9 km  
 erh= 3.6km erz= 1.2km  
 nr= 15 gap=324 rms=0.40  
 Locality: Croatia  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	25.9	36	ePg	18:49:44.07	0.39
			eSg	49:48.23	0.58
KOVH	43.2	5	ePgD	18:49:46.55	-0.04
			eSg	49:52.45	-0.39
PKSM	72.8	39	ePgD	18:49:51.71	-0.05
			eSg	50:01.32	-0.71
PKB4	98.1	26	eP*	18:49:56.37	0.22
			eS*	50:09.41	-0.43
PKS9	100.0	10	eP*	18:49:56.53	0.09
			eS*	50:11.27	0.91
PKB5	112.5	28	ePn	18:49:57.58	-0.55
			eSn	50:13.49	0.12
PKB1	133.2	25	ePn	18:50:00.81	0.10
			eSn	50:16.85	-1.12
PKB2	141.8	40	eSn	18:50:22.27	2.39*

449.

2016-12-12 time: 10:09:34.07 UTC ML= 1.1  
 lat: 46.113N lon: 18.092E h= 2.9 km  
 erh= 4.8km erz= 5.8km  
 nr= 10 gap=228 rms=0.55  
 Locality: Kővágótóttós  
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	2.9	167	ePgC	10:09:34.44	-0.35
			eSg	09:35.68	0.33
PKSV	27.9	154	eSg	10:09:42.95	-0.04
PKSM	43.8	76	ePg	10:09:41.69	-0.22
			eSg	09:48.07	0.04
PKB4	58.0	43	ePg	10:09:44.48	0.04
			eSg	09:53.44	0.91
PKB5	73.0	43	ePg	10:09:47.93	0.83
			eSg	09:57.60	0.33
PKB1	92.0	36	eSg	10:10:01.86	-1.45

450.

2016-12-13 time: 7:49:57.77 UTC ML= 1.0  
 lat: 47.288N lon: 18.352E h= 0.0 km  
 erh= 1.2km erz= 176km  
 nr= 6 gap=248 rms=0.10  
 Locality: Magyaralmás  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	10.8	320	ePgD	7:49:59.64	-0.07

			eSg	50:01.12	-0.10
PKSG	11.9	14	ePg	7:49:59.89	-0.01
			eSg	50:01.75	0.19
PKST	24.3	262	ePgD	7:50:02.06	-0.04
			eSg	50:05.67	0.19

451.

2016-12-13 time: 18:16:23.29 UTC ML= 0.6  
 lat: 47.370N lon: 18.241E h= 9.4 km  
 erh= 2.5km erz= 0.5km  
 nr= 6 gap=206 rms=0.05  
 Locality: Mór  
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	1.6	117	ePgC	18:16:25.01	0.01
			eSg	16:26.28	-0.06
PKSG	11.6	78	ePgC	18:16:25.96	0.00
			eSg	16:28.05	0.01
PKST	19.9	232	ePgD	18:16:27.18	-0.05
			eSg	16:30.42	0.12

452.

2016-12-14 time: 10:32:43.54 UTC ML= 1.1  
 lat: 47.156N lon: 18.230E h= 0.0 km  
 erh= 2.0km erz= 255km  
 nr= 6 gap=283 rms=0.16  
 Locality: Ósi  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	18.8	308	ePgC	10:32:47.02	0.13
			eSg	32:49.28	-0.22
CSKK	23.2	6	ePgD	10:32:47.62	-0.06
			eSg	32:50.80	-0.11
PKSG	28.9	25	ePg	10:32:48.64	-0.06
			eSg	32:53.09	0.36

453.

2016-12-16 time: 10:50:11.48 UTC ML= 1.4  
 lat: 47.864N lon: 19.100E h= 0.0 km  
 erh= 8.7km erz= \*\*\*km  
 nr= 5 gap=223 rms=0.62  
 Locality: Szendehely  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	15.9	121	ePg	10:50:14.03	-0.29
			eSg	50:16.54	0.00
PSZ	59.7	84	eSg	10:50:30.26	-0.21
VYHS	72.7	344	ePg	10:50:25.50	1.04
			eSg	50:33.80	-0.78

454.

2016-12-17 time: 15:50:07.92 UTC ML= 1.4  
 lat: 48.405N lon: 22.553E h= 10.0 km  
 erh= 6.0km erz= 5.3km  
 nr= 8 gap=222 rms=0.82  
 Locality: Ukraine  
 Comments:

sta	dist	azm	phase	hr mn sec	res
TRPA	30.6	182	ePg	15:50:12.98	-0.69
			eSg	50:19.25	1.09
CRVS	97.6	304	ePg	15:50:24.30	-1.14
			eSg	50:39.70	0.60
ABAH	98.1	263	ePg	15:50:24.87	-0.66
			eSg	50:40.25	0.99
STHS	147.8	320	ePn	15:50:32.60	0.49
			eSn	50:51.60	0.62

## Földrengés paraméterek

## Hypocenter Parameters

455.

2016-12-19 time: 8:14:28.46 UTC ML= 0.9  
 lat: 47.043N lon: 17.770E h= 0.0 km  
 erh= 6.8km erz= 768km  
 nr= 6 gap=258 rms=0.44  
 Locality: Tótvázsony  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	22.5	309	ePg	8:14:32.05	-0.42
			eSg	14:35.81	0.21
PKST	31.2	40	ePg	8:14:34.53	0.49
			eSg	14:38.59	0.20
PKSG	60.9	51	ePg	8:14:39.50	0.16
			eSg	14:46.88	-0.95

456.

2016-12-19 time: 10:10:31.73 UTC ML= 1.5  
 lat: 48.122N lon: 21.363E h= 10.0 km  
 erh= 2.7km erz= 2.9km  
 nr= 10 gap=169 rms=0.39  
 Locality: Tarcál  
 Comments:

sta	dist	azm	phase	hr mn sec	res
ABAH	21.4	335	ePg	10:10:35.91	-0.04
			eSg	10:39.05	-0.19
KECS	76.5	302	ePg	10:10:45.50	-0.01
			eSg	10:55.60	-0.65
CRVS	87.0	5	ePg	10:10:48.10	0.72
			eSg	10:59.10	-0.48
TRPA	87.5	89	ePg	10:10:47.15	-0.32
			eSg	10:59.59	-0.15
PSZ	111.9	258	ePn	10:10:51.81	0.37
			eSn	11:06.38	-0.43

457.

2016-12-20 time: 9:18:36.89 UTC ML= 1.5  
 lat: 48.790N lon: 19.028E h= 0.0 km  
 erh= 4.6km erz= \*\*\*km  
 nr= 8 gap=196 rms=0.84  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	35.9	203	ePg	9:18:42.70	-0.60
			eSg	18:48.00	-0.29
LANS	51.4	39	ePg	9:18:45.50	-0.57
			eSg	18:53.60	0.37
KECS	112.7	108	ePg	9:18:57.40	0.38
			eSg	19:11.30	-1.42
PSZ	116.3	146	ePg	9:18:59.36	1.70
			eSg	19:14.32	0.46

458.

2016-12-20 time: 10:27:33.52 UTC ML= 1.6  
 lat: 48.585N lon: 20.800E h= 0.0 km  
 erh= 2.9km erz= 3.1km  
 nr= 10 gap=148 rms=0.77  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.9	244	ePg	10:27:38.20	0.06
			eSg	27:42.30	0.56
ABAH	45.7	135	ePg	10:27:39.89	-1.79
			eSg	27:48.69	0.64
CRVS	60.1	54	ePg	10:27:45.00	0.76
PSZ	100.1	222	ePg	10:27:51.73	0.33

			eSg	28:05.64	0.30
TRPA	138.4	111	eSn	10:28:15.75	-1.02
VYHS	145.4	266	ePn	10:27:58.60	-0.08
			eSn	28:16.80	-1.51

459.

2016-12-21 time: 9:52:00.71 UTC ML= 1.6  
 lat: 48.604N lon: 20.760E h= 0.0 km  
 erh= 2.5km erz= 5.4km  
 nr= 12 gap=115 rms=0.87  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.3	237	ePg	9:52:05.00	-0.05
			eSg	52:08.90	0.46
ABAH	49.3	134	ePg	9:52:10.52	1.02
			eSg	52:14.86	-1.51
CRVS	61.3	57	ePg	9:52:12.10	0.45
			eSg	52:20.20	0.01
PSZ	99.7	220	ePg	9:52:19.82	1.31
			eSg	52:32.15	-0.25
LANS	112.6	303	ePg	9:52:20.70	-0.12
			eSg	52:35.40	-1.11
TRPA	141.9	112	ePn	9:52:25.00	-0.44
			eSn	52:42.39	-2.34

460.

2016-12-21 time: 11:25:41.54 UTC ML= 1.5  
 lat: 47.882N lon: 19.159E h= 0.0 km  
 erh= 5.7km erz= \*\*\*km  
 nr= 7 gap=203 rms=0.98  
 Locality: Nőtincs  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	13.7	138	ePg	11:25:43.16	-0.83
			eSg	25:45.53	-0.37
PSZ	55.1	86	eSg	11:25:59.59	0.52
VYHS	72.1	341	ePg	11:25:56.20	1.77
			eSg	26:03.40	-1.07
KECS	119.2	56	ePg	11:26:02.20	-0.62
			eSg	26:20.10	0.68

461.

2016-12-22 time: 9:53:29.57 UTC ML= 1.3  
 lat: 48.625N lon: 20.754E h= 0.0 km  
 erh= 2.2km erz= 3.5km  
 nr= 10 gap=155 rms=0.57  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.3	232	ePg	9:53:34.00	-0.09
			eSg	53:37.90	0.28
ABAH	51.2	136	ePg	9:53:37.95	-0.77
			eSg	53:45.42	-0.44
CRVS	60.5	59	ePg	9:53:41.00	0.63
			eSg	53:48.60	-0.19
PSZ	101.2	219	ePg	9:53:48.43	0.78
			eSg	54:01.64	-0.10
VYHS	142.3	264	ePn	9:53:54.70	0.35
			eSn	54:12.40	-1.28

## Hypocenter Parameters

## Földrengés paraméterek

462.

2016-12-22 time: 17:07:19.20 UTC ML= 1.0  
 lat: 47.636N lon: 18.011E h= 14.1 km  
 erh= 1.4km erz= 1.5km  
 nr= 15 gap= 85 rms=0.37  
 Locality: Bábolna  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
SRO	30.1	49	ePg	17:07:25.30			0.17
			eSg		07:29.60		-0.15
CSKK	35.7	148	ePg	17:07:26.20			0.16
			eSg		07:31.17		-0.21
PKSG	39.4	133	ePg	17:07:26.41			-0.26
			eSg		07:32.39		-0.11
EGYH	56.6	245	ePg	17:07:28.96			-0.66
			eSg		07:37.63		-0.12
MPLH	62.8	215	ePg	17:07:31.00			0.30
			eSg		07:40.09		0.43
MODS	98.7	326	eP*	17:07:37.30			0.66
			eS*		07:49.50		-0.74
SMOL	106.9	336	eSn	17:07:52.30			0.06
VYHS	113.5	33	ePn	17:07:38.60			0.00
			eSn		07:53.20		-0.52

463.

2016-12-22 time: 17:21:02.77 UTC ML= 1.3  
 lat: 47.644N lon: 18.016E h= 14.5 km  
 erh= 1.4km erz= 1.1km  
 nr= 22 gap= 82 rms=0.58  
 Locality: Bábolna  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
SRO	29.2	50	ePg	17:21:08.80			0.20
			eSg		21:12.80		-0.34
CSKK	36.2	149	ePg	17:21:09.24			-0.50
			eSg		21:15.50		0.33
PKSG	39.8	135	ePg	17:21:10.41			0.08
			eSg		21:16.23		0.01
EGYH	57.3	244	ePg	17:21:13.50			0.17
			eSg		21:21.53		-0.04
MPLH	63.7	214	ePg	17:21:14.53			0.09
			eSg		21:24.15		0.60
TIH	83.2	186	eS*	17:21:29.82			0.27
MODS	98.1	326	eP*	17:21:20.60			0.51
			eS*		21:33.20		-0.40
SMOL	106.2	336	eSn	17:21:34.90			-0.67
PKB1	112.2	148	ePn	17:21:19.80			-2.14
			eSn		21:37.47		0.57
VYHS	112.6	33	ePn	17:21:22.10			0.10
			eSn		21:36.40		-0.59
PSZ	144.1	78	eSn	17:21:45.45			1.47
MORH	165.8	163	eSn	17:21:47.68			-1.11
PKSM	166.1	163	ePn	17:21:29.09			0.42
			eSn		21:47.89		-0.98

464.

2016-12-23 time: 10:04:03.54 UTC ML= 0.8  
 lat: 47.103N lon: 17.996E h= 10.0 km  
 erh= 2.3km erz= 2.6km  
 nr= 13 gap=110 rms=0.45  
 Locality: Litér  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKST	17.6	9	ePg	10:04:06.32			-0.84
			eSg		04:09.17		-0.80
TIH	23.9	199	ePg	10:04:08.00			-0.17
CSKK	35.2	35	ePg	10:04:10.42			0.35
			eSg		04:15.77		0.60
MPLH	35.5	282	ePg	10:04:10.00			-0.12

			eSg	04:15.68			0.43
PKSG	43.8	43	ePg	10:04:11.41			-0.16
			eSg		04:18.32		0.48
MORH	110.4	153	ePn	10:04:23.46			0.40
			eSn		04:37.79		-0.50
KOVH	113.1	176	ePn	10:04:23.66			0.26
			eSn		04:38.39		-0.49

465.

2016-12-25 time: 10:14:43.30 UTC ML= 2.0  
 lat: 46.829N lon: 16.686E h= 10.0 km  
 erh= 1.6km erz= 1.5km  
 nr= 52 gap= 39 rms=0.98  
 Locality: Németsfalu  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
BEHE	40.5	170	ePg	10:14:51.13			0.38
			eSg		14:57.31		0.75
KOGS	53.9	218	iPg	10:14:53.65			0.56
			iSg		15:02.12		1.39
MPLH	75.2	60	ePg	10:14:56.18			-0.66
			eSg		15:07.25		-0.15
EGYH	81.7	37	ePg	10:14:57.48			-0.51
			eSg		15:10.70		1.24
TIH	92.4	85	ePg	10:15:00.61			0.72
SOP	95.4	354	ePg	10:15:01.13			0.70
			eSg		15:13.11		-0.69
GROS	99.5	246	iPg	10:15:00.27			-0.88
ARSA	100.0	298	Pg	10:15:00.67			-0.57
			Sg		15:13.13		-2.11
RONA	101.2	343	Pg	10:15:00.71			-0.74
			Sg		15:12.83		-2.78
PKST	113.1	65	ePn	10:15:03.02			-0.13
			eSn		15:17.31		-1.32
PTJ	117.5	208	ePn	10:15:03.22			-0.48
			eSn		15:17.72		-1.90
DOBS	120.2	231	iPn	10:15:04.31			0.28
GOLS	122.2	222	iPn	10:15:04.60			0.31
			iSn		15:20.49		-0.17
SOKA	127.4	262	Pn	10:15:05.24			0.30
			Sn		15:20.96		-0.86
CSKK	133.5	64	ePnC	10:15:06.73			1.04
KOVH	136.3	127	ePn	10:15:05.55			-0.50
			eSn		15:20.88		-2.92
CONA	137.1	333	Pn	10:15:06.64			0.49
			Sn		15:23.84		-0.14
PKSG	143.7	64	ePnD	10:15:08.07			1.10
			eSn		15:26.03		0.59
PKB4	151.4	104	ePn	10:15:07.59			-0.34
			eSn		15:28.43		1.29
PKB5	158.9	99	ePn	10:15:08.32			-0.54
			eSn		15:26.57		-2.24
PKSV	159.6	131	ePnC	10:15:08.75			-0.20
			eSn		15:30.13		1.17
PKB1	160.9	92	ePn	10:15:08.51			-0.60
			eSn		15:30.23		0.99
SRO	164.6	48	ePn	10:15:11.80			2.22
			eSn		15:35.30		5.22*
PKSM	165.0	115	ePnC	10:15:08.90			-0.73
			eSn		15:27.38		-2.78
MORH	165.0	114	ePnC	10:15:08.92			-0.71
			eSn		15:27.14		-3.02
OBKA	167.4	258	Pn	10:15:10.92			1.00
			Sn		15:31.83		1.14
MODS	177.4	15	ePn	10:15:13.80			2.63
			eSn		15:35.00		2.09
PKB2	196.1	95	ePn	10:15:12.99			-0.51
			eSn		15:34.65		-2.40
MOA	215.2	302	Pn	10:15:16.96			1.08

**Földrengés paraméterek**

**Hypocenter Parameters**

466.  
 2016-12-28 time: 5:42:44.91 UTC ML= 1.2  
 lat: 47.227N lon: 18.226E h= 5.4 km  
 erh= 2.0km erz= 2.8km  
 nr= 21 gap= 94 rms=0.83  
 Locality: Iszkaszentgyörgy  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	15.0	284	ePg	5:42:47.15	-0.61
			eSg	42:49.32	-0.65
CSKK	15.3	10	ePg	5:42:47.30	-0.51
			eSg	42:49.60	-0.48
PKSG	22.1	34	ePg	5:42:48.34	-0.64
			eSg	42:50.69	-1.46
TIH	44.3	215	ePg	5:42:52.64	-0.25
MPLH	52.4	263	ePg	5:42:54.79	0.46
			eSg	43:02.25	0.58
PKB1	65.4	139	ePg	5:42:56.64	0.01
			eSg	43:05.00	-0.76
SRO	65.5	6	eSg	5:43:07.00	1.20
PKB5	80.3	151	ePg	5:43:00.94	1.66
			eSg	43:11.27	0.78
PKB2	98.8	128	ePg	5:43:03.32	0.75
			eSg	43:15.51	-0.84
MORH	116.9	164	ePg	5:43:04.82	-0.98
KOVH	127.0	184	ePn	5:43:08.10	1.01
			eSn	43:22.58	-1.80
VYHS	148.1	18	ePn	5:43:10.00	0.29
			eSn	43:28.00	-1.06

467.  
 2016-12-28 time: 10:11:49.31 UTC ML= 1.6  
 lat: 48.624N lon: 20.755E h= 0.0 km  
 erh= 1.8km erz= 3.6km  
 nr= 10 gap=118 rms=0.39  
 Locality: Slovakia  
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.3	232	ePg	10:11:53.70	-0.12
			eSg	11:57.50	0.16
ABAH	51.1	135	ePg	10:11:58.80	0.36
			eSg	12:04.21	-1.35
STHS	95.2	22	ePg	10:12:06.60	0.30
			eSg	12:18.90	-0.65
PSZ	101.2	219	ePg	10:12:07.47	0.10
			eSg	12:21.22	-0.24
VYHS	142.4	264	ePn	10:12:14.00	-0.09
			eSn	12:31.60	-1.82

468.  
 2016-12-29 time: 8:49:58.66 UTC ML= 1.1  
 lat: 47.103N lon: 17.973E h= 10.0 km  
 erh= 2.0km erz= 2.1km  
 nr= 16 gap= 92 rms=0.58  
 Locality: Kádárta  
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	18.0	15	ePg	8:50:01.53	-0.81
			eSg	50:04.88	-0.33
TIH	23.3	195	ePg	8:50:03.26	0.07
			eSg	50:05.03	-1.70
MPLH	33.7	283	ePg	8:50:05.06	0.12
			eSg	50:10.38	0.54
CSKK	36.3	37	ePg	8:50:05.28	-0.10
			eSg	50:10.78	0.16
PKSG	45.1	45	ePg	8:50:06.77	-0.14
			eSg	50:14.01	0.66
PKB1	71.7	120	eSg	8:50:22.71	1.03
MORH	111.2	152	ePn	8:50:18.49	0.21

eSn 50:31.78 -1.80  
 PKSM 111.5 153 ePn 8:50:18.25 -0.06  
 eSn 50:32.17 -1.47  
 KOVH 113.2 175 ePn 8:50:19.21 0.68  
 469.

2016-12-29 time: 13:29:42.04 UTC ML= 2.1  
 lat: 47.703N lon: 16.177E h= 13.1 km  
 erh= 1.7km erz= 1.1km  
 nr= 52 gap= 40 rms=0.92  
 Locality: Austria  
 Comments:

sta	dist	azm	phase	hr mn sec	res
RONA	9.0	92	Pg	13:29:45.16	0.29
			Sg	29:47.12	0.03
SOP	28.7	94	ePgC	13:29:47.92	0.24
			eSg	29:51.78	-0.30
CONA	34.4	317	Pg	13:29:48.12	-0.49
			Sg	29:52.73	-1.01
ARSA	70.4	224	Pg	13:29:54.26	-0.56
			Sg	30:02.76	-2.04
EGYH	92.6	110	eP*	13:29:59.07	0.43
			eS*	30:11.12	-0.47
MODS	110.9	48	ePn	13:30:00.50	-0.73
			eSn	30:14.60	-1.60
MPLH	118.7	120	ePn	13:30:02.64	0.45
			eSn	30:16.88	-1.04
KOGS	139.6	178	ePn	13:30:05.01	0.20
			eSn	30:22.11	-0.45
SOKA	143.2	217	Pn	13:30:05.56	0.31
			Sn	30:23.15	-0.21
MOA	144.1	276	Pn	13:30:05.73	0.36
			Sn	30:22.94	-0.63
BEHE	144.4	162	ePn	13:30:08.63	3.23
			eSn	30:21.95	-1.68
PKST	148.5	109	ePn	13:30:07.69	1.78
			eSn	30:24.23	-0.30
SRO	160.7	86	ePn	13:30:08.90	1.47
			eSn	30:26.00	-1.24
PKSG	170.2	102	ePn	13:30:08.65	0.03
			eSn	30:28.48	-0.88
OBKA	181.3	223	Pn	13:30:11.13	1.12
			Sn	30:30.73	-1.09
TREC	184.2	344	ePn	13:30:11.40	1.03
			eSn	30:31.70	-0.77
BIOA	190.5	270	Pn	13:30:11.21	0.05
			Sn	30:34.89	1.02
VYHS	216.8	66	ePn	13:30:13.50	-0.93
			eSn	30:37.00	-2.69
KBA	224.8	252	Pn	13:30:15.44	0.01
			Sn	30:41.95	0.47
KOVH	231.7	141	ePn	13:30:16.36	0.07
			eSn	30:39.96	-3.05
KHC	249.4	310	ePn	13:30:20.60	2.10
			eSn	30:50.70	3.76*
MORH	250.2	131	ePn	13:30:18.55	-0.05
			eSn	30:44.21	-2.90
PKSM	250.4	131	ePn	13:30:18.54	-0.08
			eSn	30:44.41	-2.74
KRLC	267.5	10	ePn	13:30:21.10	0.34
PSZ	279.5	85	eSn	13:30:50.70	-2.92
PRU	281.1	335	ePn	13:30:24.20	1.76
			eSn	30:54.90	0.94
ABTA	297.2	249	Pn	13:30:21.62	-2.83
			Sn	30:58.47	0.94*

## Hypocenter Parameters

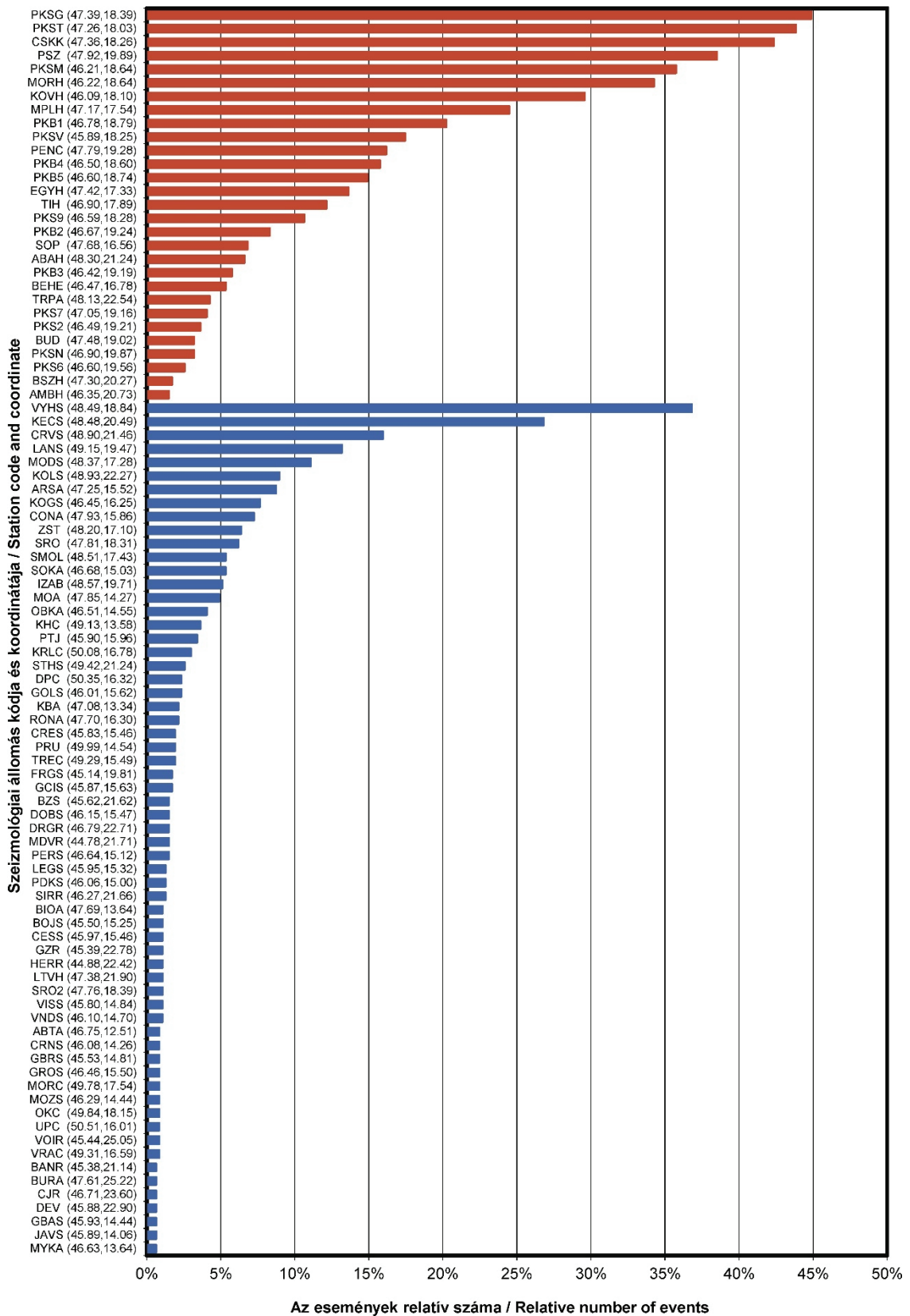
## Földrengés paraméterek

470.

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2016-12-31 time: 20:40:15.75 UTC ML= 1.2  
 lat: 47.435N lon: 18.368E h= 11.3 km  
 erh= 1.8km erz= 1.1km  
 nr= 26 gap=139 rms=0.66  
 Locality: Oroszlány  
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKSG	5.1	161	ePg	20:40:17.66			-0.31
			eSg		40:19.12		-0.57
CSKK	11.4	226	ePg	20:40:18.00			-0.62
			eSg		40:20.66		-0.19
PKST	31.9	232	ePg	20:40:21.34			-0.46
			eSg		40:26.56		0.04
SRO	42.3	354	ePg	20:40:24.00			0.43
			eSg		40:28.80		-0.87
MPLH	69.2	245	ePg	20:40:28.36			0.08
			eSg		40:38.81		0.75
EGYH	78.2	269	ePg	20:40:30.07			0.20
			eSg		40:41.48		0.60
PKB1	79.2	156	ePg	20:40:31.31			1.28
			eSg		40:41.14		-0.03
PKB4	105.9	170	ePn	20:40:35.57			1.02
			eSn		40:48.52		-0.68
VYHS	122.8	17	ePn	20:40:36.70			0.04
			eSn		40:50.50		-2.47*
MODS	132.5	322	ePn	20:40:37.60			-0.26
			eSn		40:55.00		-0.11
MORH	137.1	171	ePn	20:40:38.80			0.36
			eSn		40:54.84		-1.30
PKSM	137.5	171	ePn	20:40:37.55			-0.95
			eSn		40:54.67		-1.56
KOVH	151.1	188	ePn	20:40:40.95			0.77
			eSn		40:58.26		-0.98



3.4. ábra Az egyes állomások részvétele a hipocentrum meghatározásban  
 Figure 3.4. Contribution of individual stations to the hypocenter determination

## 4.

### JELENTŐS FÖLDRENGÉSEK 2016-BAN (Magyarországon érezhető földrengések)

2016. január 22.	–	Tenk
2016. november 5.	–	Székkutas

#### **AZ INTENZITÁS ELOSZLÁS MEGHATÁROZÁSA**

A Magyarországon érezhető földrengések intenzitás eloszlását a ShakeMap program (Field et al., 2003) segítségével modelleztük.

Az intenzitás leírása az *Európai Makroszeizmikus Skála (EMS)* szerint történik, mely részletesen megtalálható Grünthal (1998) munkájában. (*A Melléklet*)



## 4.

### SIGNIFICANT EARTHQUAKES IN 2016

(Earthquakes felt in Hungary)

22 January 2016	–	Tenk
5 November 2016	–	Székkutas

#### **METHOD USED FOR ESTIMATION OF INTENSITY**

Intensity distribution of earthquakes felt in Hungary has been calculated by ShakeMap program (Field et al., 2003).

The assigned intensities correspond to the *European Macroseismic Scale 1998 (EMS)* edited by Grünthal (1998). (*Appendix A*)

**2016. január 22. - Tenk / 22 January 2016 - Tenk****FÉSZKEPARAMÉTEREK / HYPOCENTER PARAMETERS**

Dátum / Date:	2016/01/22
Kipattanási idő / Origin Time:	06:16:20.91 UTC
Szélesség és hosszúság / Latitude and Longitude:	47.632 N 20.318 E (S.D. 1.9 km)
Mélység / Depth:	11.4 km (S.D. 2.3 km)
Magnitúdó / Magnitude:	2.4 ML
Maximális intenzitás / Maximum Intensity:	4 EMS

**LEÍRÁS**

Január 22-én reggel 2.4 ML magnitúdójú földrengés pattant ki Tenk térségében. A rengés epicentrum térségében érezhető volt, intenzitása elérte a 4 EMS fokot.

A rengés számított intenzitás eloszlását a 4.1. ábra mutatja.

$I \geq 3$  (gyenge érzhetőség) becsült területe 1400 km<sup>2</sup>

$I \geq 4$  (enyhe érzhetőség) becsült területe 30 km<sup>2</sup>

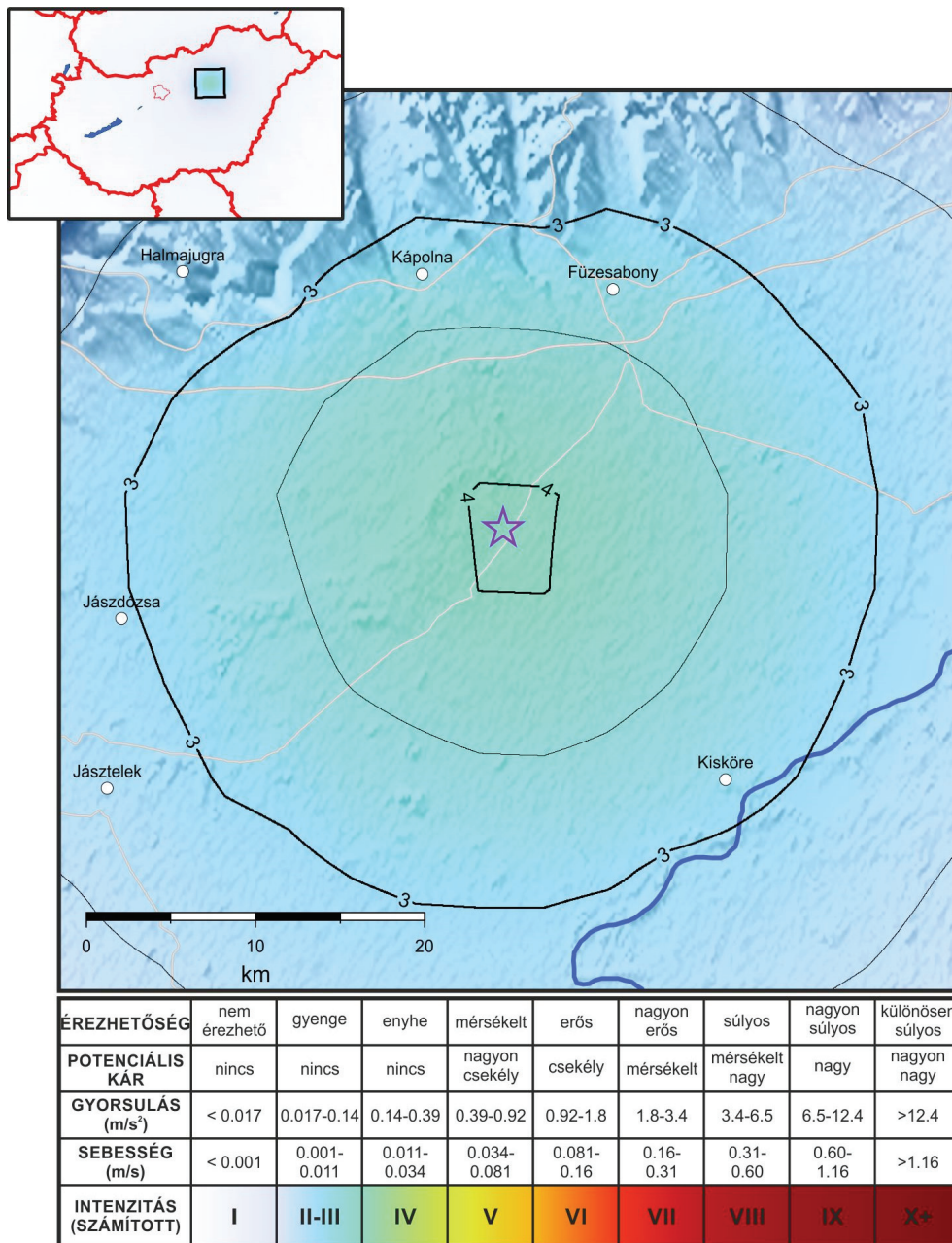
**DISCUSSION**

In the morning of January 22<sup>nd</sup>, a 2.4 ML magnitude earthquake occurred in the surroundings of Tenk. The quake was reported felt from the epicentral area. The maximum intensity was estimated around 4 EMS at the epicentral area.

Calculated intensity distribution of the event is shown in Figure 4.1.

Estimated area of  $I \geq 3$  (perceived shaking: weak) is about 1400 km<sup>2</sup>

Estimated area of  $I \geq 4$  (perceived shaking: light) is about 30 km<sup>2</sup>



4.1. ábra A 2016. január 22-i, tenki földrengés (06:16 UTC) számított intenzitás eloszlása

Figure 4.1. Instrumental intensity distribution of the Tenk earthquake 22<sup>nd</sup> January 2016 (06:16 UTC)

**2016. november 5. - Székkutas / 5 November 2016 - Székkutas****FÉSZEKPARAMÉTEREK / HYPOCENTER PARAMETERS**

Dátum / Date:	2016/11/05
Kipattanási idő / Origin Time:	23:44:23.80 UTC
Szélesség és hosszúság / Latitude and Longitude:	46.490 N 20.483 E (S.D. 1.8 km)
Mélység / Depth:	11.5 km (S.D. 3.1 km)
Magnitúdó / Magnitude:	2.4 ML
Maximális intenzitás / Maximum Intensity:	4 EMS

**LEÍRÁS**

November 5-én éjjel 2.4 M<sub>L</sub> magnitúdójú földrengést éreztek Székkutas térségében. A rengés intenzitása 4 EMS fokra becsülhető az epicentrum környezetében. A földrengés csak kis területen volt érezhető.

A rengés számított intenzitás eloszlását a 4.2. ábra mutatja.

$I \geq 3$  (gyenge érzhetőség) becsült területe 1560 km<sup>2</sup>

$I \geq 4$  (enyhe érzhetőség) becsült területe 60 km<sup>2</sup>

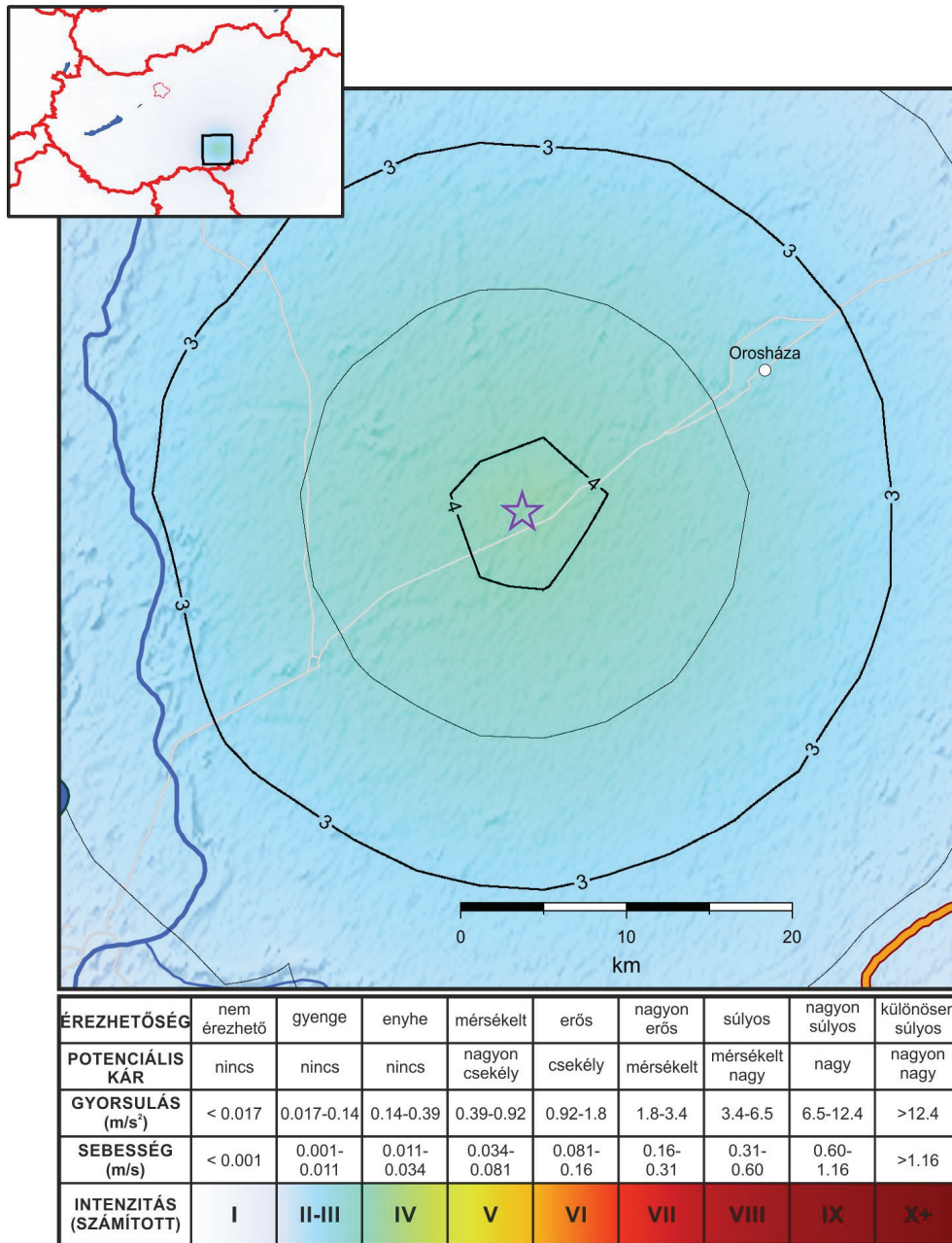
**DISCUSSION**

In the night of November 5<sup>th</sup>, a 2.4 M<sub>L</sub> magnitude earthquake was felt at Székkutas area. The maximum intensity was estimated 4 EMS. The earthquake was felt in a small area.

Calculated intensity distribution of the event is shown in Figure 4.2.

Estimated area of  $I \geq 3$  (perceived shaking: weak) is about 1560 km<sup>2</sup>

Estimated area of  $I \geq 4$  (perceived shaking: light) is about 60 km<sup>2</sup>



4.2. ábra A 2016. november 5-i, székkutasi földrengés (23:44 UTC) számított intenzitás eloszlása

Figure 4.2. Instrumental intensity distribution of the Székkutas earthquake 5<sup>th</sup> November 2016 (23:44 UTC)

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# A MELLÉKLET

## EURÓPAI MAKROSZEIZMIKUS SKÁLA (EMS)

### 1 ☞ **Nem érezhető**

Nem érezhető, még a legkedvezőbb körülmények között sem.

### 2 ☞ **Alig érezhető**

A rezgést csak egy-egy, elsősorban fekvő ember érzi, különösen magas épületek felsőbb emeletein.

### 3 ☞ **Gyenge**

A rezgés gyenge, néhány ember érzi, főleg épületen belül. A fekvő emberek lengést vagy gyenge remegést éreznek.

### 4 ☞ **Széles körben érezhető**

A rezgést épületen belül sokan érzik, a szabadban kevesen. Néhány ember felébred. A rezgés mértéke nem ijesztő. Ablakok, ajtók, edények megcsörrennek, felfüggesztett tárgyak lengenek.

### 5 ☞ **Erős**

A rezgést épületen belül a legtöbben érzik, a szabadban csak néhányan. Sok alvó ember felébred, néhányan a szabadba menekülnek. Az egész épület remeg, a felfüggesztett tárgyak nagyon lengenek. Tányérok, poharak összekocognak. A rezgés erős, nehéz tárgyak felborulnak. Ajtók, ablakok kinyílnak vagy bezáródnak. Néhány esetben az ablaküvegek betörhetnek. Néhány vályog- és téglapépület falában hajszálrepedések keletkezhetnek, kisebb vakolatdarabok lehullhatnak.

### 6 ☞ **Kiseb károk okozó**

Épületen belül szinte mindenki, szabadban sokan érzik. Épületben tartózkodók közül sokan megijednek, és a szabadba menekülnek. Kiseb tárgyak leesnek. Hagyományos épületek közül sokban keletkezik kisebb kár, hajszálrepedés a vakolatban, kisebb vakolatdarabok lehullanak.

### 7 ☞ **Károk okozó**

A legtöbb ember megrémül, és a szabadba menekül. Bútorok elmozdulnak, a polcokról sok tárgy leesik. Sok hagyományos épület szenved mérsékelt sérülést: kisebb repedések keletkeznek a falakban, kémények ledőlnek.

### 8 ☞ **Súlyos károk okozó**

Bútorok felborulnak. Sok hagyományos épület megsérül: kémények ledőlnek, a falakban nagy repedések keletkeznek, néhány épület részlegesen összedől.

### 9 ☞ **Pusztító**

Oszlopok, műemlékek ledőlnek vagy elferdülnek. Sok hagyományos épület részlegesen, néhány teljesen rombadől.

### 10 ☞ **Nagyon pusztító**

Sok hagyományos épület összedől.

### 11 ☞ **Elsőprő**

A legtöbb épület összedől.

### 12 ☞ **Teljesen elsőprő**

Gyakorlatilag minden építmény megsemmisül.

(Részletesen lásd: Grünthal, 1998)



# APPENDIX A

## EUROPEAN MACROSEISMIC SCALE (EMS)

**1 ☞ Not felt**

Not felt, even the most favourable circumstances.

**2 ☞ Scarcely felt**

Vibration is felt only by individual people at rest in houses, especially on upper floors of buildings.

**3 ☞ Weak**

The vibration is weak and is felt indoors by a few people. People at rest feel a swaying or light trembling.

**4 ☞ Largely observed**

The earthquake is felt indoors by many people, outdoors by very few. A few people are awakened. The level of vibration is not frightening. Windows, doors and dishes rattle. Hanging objects swing.

**5 ☞ Strong**

The earthquake is felt indoors by most, outdoors by few. Many sleeping people awake. A few run outdoors. Buildings tremble throughout. Hanging objects swing considerably. China and glasses clatter together. The vibration is strong. Top heavy objects topple over. Doors and windows swing open or shut. Minor damage e.g. fine cracks may occur in ordinary buildings.

**6 ☞ Slightly damaging**

Felt by most indoors and many outdoors. Many people in buildings are frightened and run outdoors. Small objects fall. Slight damage to many ordinary buildings e.g. fine cracks in plaster and small pieces of plaster fall.

**7 ☞ Damaging**

Most people are frightened and run outdoors. Furniture is shifted and objects fall from shelves in large numbers. Many ordinary buildings suffer moderate damage: small cracks in walls, partial collapse of chimneys.

**8 ☞ Heavily damaging**

Furniture may be overturned. Many ordinary buildings suffer damage: chimneys fall, large cracks appear in walls and few buildings may partially collapse.

**9 ☞ Destructive**

Monuments and columns fall or are twisted. Many ordinary buildings partially collapse and few collapse completely.

**10 ☞ Very destructive**

Many ordinary buildings collapse.

**11 ☞ Devastating**

Most ordinary buildings collapse.

**12 ☞ Completely devastating**

Practically all structures above and below ground are heavily damaged or destroyed.

(For details see Grünthal, 1998)

## JEGYZETEK / NOTES

## JEGYZETEK / NOTES

