



Magyarországi földrengések évkönyve
Hungarian Earthquake Bulletin
2017

Tóth L., Mónus P., Kiszely M., Trosits D.



GeoRisk

Földrengés Mérnöki Iroda ↗ Earthquake Engineering



Budapest

MAGYARORSZÁGI FÖLDRENGÉSEK ÉVKÖNYVE

HUNGARIAN EARTHQUAKE BULLETIN

2017

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Műszeresen meghatározott rengések: 1995-2016 (rózsaszín)

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Back cover page:

Earthquakes in Hungary

Historical earthquakes: 456-1994 (grey)

Instrumental earthquakes: 1995-2016 (pink)

Instrumental earthquakes: 2017 (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; 1956 Dunaharaszti, 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 földrengésveszélyességet, 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; 1956 Dunaharaszti 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 new 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 2017. év szeizmikus szempontból összességében átlagosan aktív időszaknak tekinthető Magyarországon, bár az érezhető rengések száma az átlagosnál kevesebb, mindössze kettő volt. Az év folyamán 577 szeizmikus eseményről szereztünk tudomást a 45.5-49.0 É szélességi és 16.0-23.0 K hosszúsági koordináták által határolt területen, amelyek közül 245 volt természetes eredetű földrengés, 332 pedig robbantás.

Az észlelt földrengések mérete a $-0.8 \leq M_L \leq 3.3$ lokális magnitúdó tartományba esett. A fészekmélység jellemzően sekély, csak néhány esetben nagyobb 10 km-nél.

A kőbányarobbantások szeizmikus magnitúdói a $0.2 \leq M_L \leq 2.9$ 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 3.3 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.

2017. január 24-én, helyi idő szerint 13:18-kor kisebb méretű földrengés keletkezett Budapest határában, Dunaharaszti közelében, sekély mélységben. A földmozgás mérete M_L 2.0 körüli volt. A földrengést az epicentrum környezetében többen érezték, károk nem keletkeztek.

2017. február 17-én este, helyi idő szerint 21:39-kor kisebb földrengés volt érezhető a Komárom-Esztergom megyei Bábolna térségében. A földmozgást az epicentrum környezetében a lakosság is érezte, épületkárok nem keletkeztek.

1.

SUMMARY

2017 was an average active year for Hungarian seismicity, however, the number of felt earthquakes was relatively low, only two. Out of the 577 seismic events located within the area bounded by latitudes 45.5-49.0 N and longitudes 16.0-23.0 E, 245 were identified as natural earthquakes and 332 were known as quarry blasts.

The magnitude of the earthquakes was in the range of $-0.8 \leq M_L \leq 3.3$. 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 $0.2 \leq M_L < 2.9$ with zero focal depth.

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

The highest magnitude assigned to a shock was 3.3 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 Dunaharaszti (near to Budapest) area on January 24th. A 2.0 M_L magnitude earthquake was reported felt from the epicentral area. The maximum intensity was estimated around 4 EMS.

In the evening of February 17th, a 1.9 M_L magnitude earthquake was felt at Bábolna, Komárom-Esztergom County area. The maximum intensity was estimated 4 EMS. The earthquake was felt in a small area.

2.

FÖLDRENGÉS MEGFIGYELŐ ÁLLOMÁSOK MAGYARORSZÁGON

2017-ben 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 működött (PKB1, PKB2, PKB3, PKB4, PKB5). Az állomásokon az érzékelő 3 komponenses szélessávú Nanometrics Trillium Posthole szeizmométer, mely 150 m-es béléscsővezetett fúróluk alá van telepítve. A felszíni aknában elhelyezett digitalizáló, adatgyűjtő és kommunikációs egység Nanometrics Centaur CTR-3. Mindegyik állomás internet összeköttetéssel rendelkezik.

Szélessávú felszíni állomások

2017-ben 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)

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 fázisadatok 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 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).

2.

SEISMOGRAPH STATIONS IN HUNGARY

In 2017, there were 30 permanent seismograph stations running in Hungary: five borehole stations and twenty five surface stations. 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 stations were in 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)

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.

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.foldrenge.hu). The present configuration of the *HUN-Reng* virtual seismic network is shown in Table 2.2.

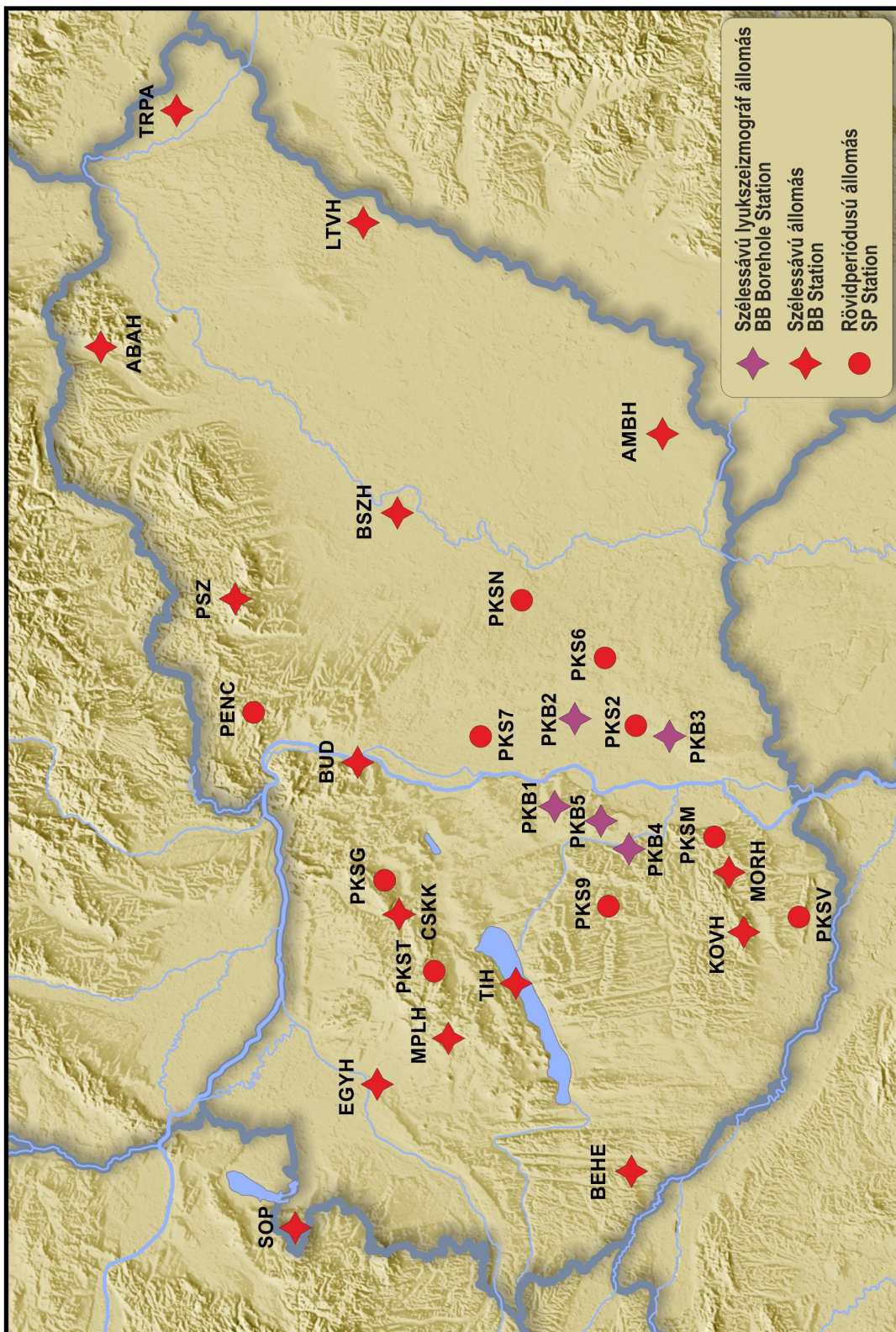
2.1. Táblázat Magyarországi szeizmológiai állomások, műszerek és alapkőzet

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	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



2.1. ábra Szeizmológiai állomások Magyarországon 2017-ben (részletek: 2.1. Táblázat)

Figure 2.1. Seismograph stations in Hungary in 2017 (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
FB	Seismic Network of Federation of Bosnia and Herzegovina
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 (v_p)</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	∞	

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 (v_P) [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	∞	

ESEMÉNYLISTA / LIST OF EVENTS

Nap	Kipattanási idő UTC óó pp mp	Földrajzi koordináták Lat Long	Mélys. (km)	ML	I _{MAX} (EMS)	Helyszín
Day	Origin time UTC hr mn sec	Geographic coordinates Lat Long	Depth (km)	ML	I _{MAX} (EMS)	Locality or Region
JANUÁR / JANUARY, 2017						
01	16:08:54.1	47.342N 18.118E	8	0.2	-	Bakonycsernye
01	20:27:47.5	47.864N 18.962E	2	1.2	-	Kóspallag
02	23:27:51.6	46.869N 21.247E	7	2.2	-	Bélmegyer
03	20:34:57.8	45.536N 18.442E	1	1.4	-	Croatia
08	1:05:31.4	47.230N 18.206E	10	1.2	-	Bakonykúti
12	10:42:52.6	48.567N 20.795E	0	1.6	-	Tornanádaska (exp)
16	10:34:24.7	48.609N 20.828E	0	1.1	-	Slovakia (exp)
16	11:14:44.1	47.690N 18.571E	0	1.4	-	Nagysáp (exp)
17	9:38:58.4	47.160N 18.229E	0	0.3	-	Ósi (exp)
17	9:42:50.8	47.149N 18.227E	0	0.6	-	Ósi (exp)
17	9:45:39.8	47.191N 18.227E	0	0.3	-	Csór (exp)
19	15:56:02.3	45.759N 18.020E	14	0.6	-	Croatia
20	10:31:26.9	47.870N 19.124E	0	1.5	-	Szendehely (exp)
20	11:15:51.6	48.643N 20.753E	0	1.4	-	Slovakia (exp)
23	9:13:40.9	47.334N 18.467E	0	1.2	-	Lovasberény (exp)
23	9:24:44.0	47.341N 18.477E	0	1.1	-	Lovasberény (exp)
23	10:44:09.8	48.567N 20.791E	0	1.4	-	Tornanádaska (exp)
24	11:05:24.8	48.585N 20.795E	0	1.4	-	Slovakia (exp)
24	12:18:16.5	47.373N 19.066E	6	2.0	4	Dunaharaszti
24	12:55:46.7	47.337N 18.287E	0	0.2	-	Csákberény
26	10:16:08.9	48.626N 20.733E	0	1.6	-	Slovakia (exp)
27	1:24:42.2	47.447N 18.299E	9	1.0	-	Oroszlány
28	4:37:54.4	47.279N 18.333E	2	-0.2	-	Magyaralmás
29	21:52:54.0	47.376N 18.291E	0	-0.3	-	Csókakó
30	8:54:35.1	47.438N 18.414E	0	0.9	-	Várgesztes (exp)
30	8:58:21.5	48.568N 20.767E	0	1.0	-	Tornanádaska (exp)
FEBRUÁR / FEBRUARY, 2017						
02	9:44:57.8	48.573N 20.791E	0	1.2	-	Tornanádaska (exp)
02	12:14:03.5	47.845N 19.082E	0	1.7	-	Szendehely (exp)
02	17:30:09.7	47.833N 21.982E	4	2.1	-	Kisléta
03	10:22:05.5	48.584N 20.786E	0	0.9	-	Slovakia (exp)
06	9:28:42.8	47.187N 18.227E	0	0.3	-	Csór (exp)
06	9:30:03.6	48.591N 20.795E	0	1.4	-	Slovakia (exp)
06	9:32:46.2	47.147N 18.229E	0	0.3	-	Ósi (exp)
06	9:36:26.8	47.181N 18.200E	0	0.2	-	Csór (exp)
06	10:45:36.4	47.696N 18.486E	0	1.3	-	Héreg (exp)
07	11:15:55.2	45.518N 17.972E	2	1.6	-	Croatia
07	11:18:57.2	48.617N 20.816E	0	1.4	-	Slovakia (exp)
08	9:27:40.9	48.587N 20.824E	0	1.2	-	Tornanádaska (exp)
09	8:44:11.2	47.461N 18.390E	0	1.6	-	Várgesztes (exp)
10	8:46:52.6	47.407N 18.131E	10	1.9	-	Felsődobos
10	10:04:02.2	48.591N 20.733E	0	1.1	-	Slovakia (exp)
10	10:33:24.5	47.528N 18.547E	0	0.9	-	Nagyegyháza (exp)
10	19:54:49.1	45.959N 21.348E	9	2.5	-	Romania
12	7:45:30.3	47.383N 18.236E	10	0.4	-	Mór
12	7:57:43.0	47.302N 18.297E	0	-0.1	-	Söréd

Földrengés paraméterek

Hypocenter Parameters

12	20:17:04.5	46.078N	16.539E	10	2.3	-	Croatia
13	8:11:01.1	47.168N	18.219E	0	0.5	-	Ósi (exp)
13	8:14:06.8	47.177N	18.200E	0	0.2	-	Ósi (exp)
13	11:29:34.7	48.621N	20.799E	0	1.5	-	Slovakia (exp)
14	9:56:53.3	48.612N	20.782E	0	1.5	-	Slovakia (exp)
14	11:15:28.9	45.807N	18.457E	0	1.1	-	Beremend (exp)
14	11:24:38.9	47.156N	18.326E	0	0.8	-	Sárszentmihály (exp)
15	10:11:59.3	47.835N	19.090E	0	1.4	-	Szendehely (exp)
15	10:36:13.6	48.618N	20.742E	0	1.5	-	Slovakia (exp)
15	10:55:47.8	47.214N	18.288E	0	0.5	-	Iszcasztgyörgy (exp)
16	8:10:21.1	47.561N	17.792E	10	1.7	-	Pázmándfalu
16	9:06:45.1	48.605N	20.773E	0	1.4	-	Slovakia (exp)
16	21:53:46.1	47.556N	17.809E	10	1.5	-	Pázmándfalu
17	2:02:52.7	46.257N	19.605E	13	1.3	-	Öttömös
17	11:39:35.8	45.509N	18.050E	2	1.5	-	Croatia
17	20:39:33.9	47.640N	17.967E	10	1.9	4	Bábolna
20	8:23:00.4	47.414N	18.232E	8	1.0	-	Pusztavám
20	8:25:10.9	47.422N	18.213E	8	0.7	-	Pusztavám
20	8:54:24.4	47.346N	18.263E	9	0.3	-	Csókakó
20	8:55:56.7	47.356N	18.254E	10	-0.6	-	Csókakó
20	9:09:15.4	47.340N	18.277E	10	0.1	-	Csákberény
20	9:27:54.9	47.331N	18.287E	10	0.3	-	Söréd
20	9:53:18.8	47.333N	18.285E	10	-0.1	-	Söréd
20	10:03:39.9	48.549N	20.789E	0	1.3	-	Bódvalenke (exp)
20	10:11:46.0	47.377N	18.247E	10	0.1	-	Mór
20	10:16:21.6	47.290N	18.315E	0	-0.3	-	Magyaralmás
20	10:20:48.5	47.348N	18.265E	10	0.0	-	Csókakó
20	10:23:49.5	47.376N	18.245E	10	-0.3	-	Mór
20	10:39:19.1	47.309N	18.301E	8	-0.1	-	Söréd
20	10:48:46.6	47.558N	18.489E	0	1.2	-	Tatabánya (exp)
20	12:10:55.4	47.368N	18.251E	10	-0.2	-	Mór
21	9:52:56.3	47.243N	18.244E	0	0.7	-	Iszcasztgyörgy (exp)
22	5:43:33.6	46.273N	17.110E	10	1.8	-	Csurgó
22	9:26:02.3	48.607N	20.782E	0	1.4	-	Slovakia (exp)
22	10:17:44.2	47.171N	18.299E	0	0.8	-	Sárkeszi (exp)
22	11:21:37.4	46.245N	17.120E	13	1.7	-	Csurgó
24	9:38:48.9	48.584N	20.788E	0	1.0	-	Slovakia (exp)
26	15:22:47.8	47.339N	18.315E	0	0.1	-	Csákberény
27	5:00:15.0	47.363N	17.693E	1	0.6	-	Bakonyszűcs
27	10:27:52.6	45.573N	17.919E	0	1.6	-	Croatia (exp)
28	7:14:07.6	47.160N	18.216E	0	0.3	-	Ósi (exp)
28	7:17:40.6	47.115N	18.200E	0	0.5	-	Ósi (exp)
28	10:40:56.0	46.124N	18.067E	0	0.9	-	Abaliget (exp)
28	17:58:35.7	47.200N	18.092E	7	0.1	-	Várpalota

MÁRCIUS / MARCH, 2017

01	12:36:27.0	48.857N	22.030E	0	2.1	-	Ukraine (exp)
03	6:31:41.4	47.284N	18.329E	0	0.2	-	Magyaralmás (exp)
03	10:00:42.2	46.176N	18.290E	0	0.4	-	Zobákpuszta (exp)
06	8:09:19.7	47.360N	18.412E	0	1.1	-	Gánt (exp)
07	9:41:42.1	48.327N	19.016E	0	1.7	-	Slovakia (exp)
07	11:46:41.5	47.169N	18.311E	0	0.5	-	Sárkeszi (exp)
09	6:31:34.2	47.291N	18.340E	0	0.5	-	Magyaralmás (exp)
09	9:28:19.9	48.590N	20.697E	0	1.4	-	Slovakia (exp)
09	9:44:18.8	46.184N	18.282E	0	0.5	-	Zobákpuszta (exp)
09	10:57:58.8	47.132N	17.953E	14	1.1	-	Gyulafirátót
12	0:08:42.1	48.682N	19.933E	10	1.6	-	Slovakia
12	22:42:25.7	47.330N	18.287E	10	-0.3	-	Söréd
13	8:34:56.1	47.356N	18.468E	0	1.2	-	Csákvár (exp)
13	12:04:40.0	45.929N	19.643E	10	2.1	-	Serbia

Hypocenter Parameters

Földrengés paraméterek

14	8:37:50.3	47.434N	18.429E	0	0.9	-	Várgesztes (exp)
14	9:19:52.3	47.092N	17.964E	0	0.9	-	Kádárta (exp)
14	10:19:02.7	47.120N	18.344E	0	1.1	-	Szabadbattyán (exp)
15	5:29:31.8	47.361N	18.254E	10	-0.2	-	Csókakó
15	10:17:32.3	48.673N	19.907E	0	1.9	-	Slovakia (exp)
15	10:25:28.8	48.565N	20.750E	0	1.4	-	Komjáti (exp)
16	1:09:36.1	47.388N	18.246E	11	0.5	-	Mór
16	2:10:01.7	47.337N	18.299E	10	-0.5	-	Csákberény
16	2:11:07.3	47.324N	18.302E	10	-0.6	-	Söréd
16	2:12:28.6	47.360N	18.270E	10	-0.8	-	Csókakó
16	11:04:09.4	47.383N	18.245E	9	0.4	-	Mór
16	13:01:10.7	47.300N	18.309E	8	0.2	-	Söréd
16	16:34:07.8	47.335N	18.283E	10	-0.1	-	Csákberény
16	17:35:38.5	47.270N	18.344E	0	-0.2	-	Sárkeresztes
17	22:58:42.2	47.382N	18.250E	11	0.0	-	Mór
18	13:17:43.8	47.336N	18.282E	10	0.1	-	Csákberény
19	0:26:58.3	47.328N	18.285E	10	0.2	-	Söréd
19	10:32:40.0	47.356N	18.271E	10	0.2	-	Csókakó
19	20:09:33.8	47.325N	18.289E	10	-0.1	-	Söréd
20	9:23:12.3	46.107N	17.999E	0	1.1	-	Bükkösd (exp)
20	15:13:18.3	47.016N	17.385E	10	1.8	-	Gyepükaján
21	9:30:52.8	48.567N	20.782E	0	1.3	-	Tornanádaska (exp)
21	11:00:51.4	47.062N	18.062E	0	1.3	-	Papkeszi (exp)
21	11:34:48.3	47.182N	18.323E	0	0.5	-	Székesfehérvár (exp)
22	10:09:25.0	47.116N	17.966E	0	1.0	-	Kádárta (exp)
22	11:09:00.9	47.213N	18.267E	0	1.0	-	Iszcasztgyörgy (exp)
23	8:13:38.2	47.368N	18.452E	0	0.8	-	Csákvár (exp)
23	22:45:03.6	47.882N	16.385E	18	1.0	-	Austria
24	7:35:27.8	46.245N	18.438E	0	1.1	-	Váralja
24	11:06:05.9	48.399N	19.117E	0	1.7	-	Slovakia (exp)
27	8:14:57.8	45.617N	17.263E	12	1.3	-	Croatia
28	4:39:36.7	46.249N	16.122E	10	1.9	-	Croatia
28	6:34:32.4	47.280N	18.360E	0	0.7	-	Magyaralmás (exp)
28	11:03:31.8	48.637N	20.770E	0	1.4	-	Slovakia (exp)
29	10:01:23.0	47.235N	18.266E	0	0.8	-	Iszcasztgyörgy (exp)
30	12:04:35.4	45.577N	17.750E	3	1.8	-	Croatia

ÁPRILIS / APRIL, 2017

02	0:00:55.7	45.871N	17.035E	10	1.6	-	Croatia
04	6:45:03.9	47.371N	18.413E	0	1.1	-	Gánt (exp)
04	8:28:07.4	47.214N	18.311E	0	0.7	-	Moha (exp)
04	8:49:58.0	46.045N	18.120E	0	1.0	-	Pellérd (exp)
05	0:14:14.6	47.339N	18.198E	9	-0.2	-	Bodajk
05	10:10:04.4	48.660N	20.364E	0	1.6	-	Slovakia (exp)
05	23:28:04.4	47.393N	18.239E	11	0.0	-	Mór
07	9:11:49.8	47.220N	18.283E	0	0.6	-	Iszcasztgyörgy (exp)
07	9:44:35.2	45.666N	17.315E	14	1.1	-	Croatia
10	9:38:56.0	45.598N	17.260E	10	1.9	-	Croatia
10	10:21:02.3	47.387N	18.772E	0	1.5	-	Pusztazámor (exp)
13	1:42:36.9	47.370N	18.170E	4	-0.6	-	Nagyveleg
15	4:23:44.8	48.696N	19.222E	2	1.5	-	Slovakia
18	1:09:43.6	47.313N	17.621E	2	0.4	-	Homokbödöge
18	3:08:51.7	47.353N	17.611E	6	1.2	-	Csót
18	9:30:05.5	46.177N	18.279E	14	0.7	-	Zobákpuszta
18	9:32:13.7	47.175N	18.307E	0	0.6	-	Sárkeszi (exp)
19	8:03:31.4	46.258N	18.442E	0	0.6	-	Váralja (exp)
19	8:03:58.6	48.632N	20.737E	0	1.1	-	Slovakia (exp)
20	10:13:17.4	47.450N	18.444E	0	1.0	-	Várgesztes (exp)
21	8:59:17.1	48.599N	20.758E	0	1.4	-	Slovakia (exp)
21	10:17:39.1	47.901N	19.406E	0	1.6	-	Bercel (exp)

Földrengés paraméterek

Hypocenter Parameters

23	16:49:46.0	47.339N	18.281E	10	0.0	-	Csákerény
24	7:33:21.5	47.712N	18.499E	12	1.6	-	Lábatlan
25	6:59:18.2	47.451N	18.392E	0	1.1	-	Várgesztes (exp)
25	8:57:35.8	48.289N	20.633E	0	1.0	-	Izsófalva (exp)
25	11:16:58.8	47.892N	19.167E	0	1.9	-	Felsőpetény (exp)
28	9:02:58.8	48.348N	19.845E	0	1.3	-	Slovakia (exp)
29	22:38:31.4	47.222N	17.565E	6	0.9	-	Döbrönte

MÁJUS / MAY, 2017

02	0:31:34.2	48.462N	21.218E	10	1.9	-	Hernádszurdok
02	9:06:19.4	47.219N	18.287E	0	0.6	-	Iszcasztgyörgy (exp)
03	1:49:26.0	48.739N	22.187E	10	1.8	-	Slovakia
03	8:51:10.7	47.149N	18.339E	0	0.7	-	Sárszentmihály (exp)
03	9:13:32.0	48.585N	20.786E	0	1.0	-	Slovakia (exp)
03	20:14:46.5	45.640N	17.658E	17	1.9	-	Croatia
04	8:08:48.5	47.114N	18.237E	0	0.6	-	Jenő (exp)
09	8:01:15.6	47.453N	18.433E	0	1.0	-	Várgesztes (exp)
09	9:20:09.0	45.895N	18.367E	0	1.1	-	Palkonya (exp)
10	8:29:37.5	48.273N	20.580E	0	1.0	-	Sajóivánka (exp)
11	9:13:54.3	47.317N	18.689E	0	1.1	-	Kajászó (exp)
11	18:26:37.6	45.859N	17.756E	7	1.3	-	Markóc
12	7:17:51.0	47.205N	18.172E	0	0.6	-	Bakonykúti (exp)
12	9:55:29.2	45.515N	17.932E	1	1.6	-	Croatia
12	19:41:33.3	47.301N	18.296E	10	-0.2	-	Söréd
14	21:50:05.4	47.779N	18.120E	5	1.1	-	Slovakia
16	6:01:42.2	47.296N	18.367E	0	0.6	-	Zámoly (exp)
16	9:40:57.2	47.933N	20.040E	0	1.9	-	Bodony (exp)
17	8:58:24.8	47.891N	19.139E	0	1.6	-	Nőtincs (exp)
18	9:35:38.6	48.571N	20.785E	0	1.3	-	Tornanádaska (exp)
18	10:55:26.8	47.206N	18.295E	0	0.4	-	Székesfehérvár (exp)
18	14:00:55.6	47.078N	19.422E	0	1.1	-	Tatársztgyörgy (exp)
18	18:15:43.4	47.411N	18.192E	11	1.3	-	Pusztavám
19	3:15:09.3	46.151N	16.786E	7	1.8	-	Croatia
20	0:27:30.8	47.766N	19.012E	6	2.1	-	Dunabogdány
22	6:43:58.6	47.314N	17.646E	10	1.1	-	Homokbödöge
22	9:24:55.8	48.644N	20.774E	0	1.3	-	Slovakia (exp)
22	11:00:28.4	48.872N	20.926E	0	1.9	-	Slovakia
22	11:36:22.7	47.208N	18.290E	0	0.7	-	Iszcasztgyörgy (exp)
22	21:43:42.7	47.227N	20.184E	11	2.1	-	Szolnok
23	8:03:15.9	48.599N	20.732E	0	1.2	-	Slovakia (exp)
23	8:04:35.6	45.544N	17.824E	3	1.7	-	Croatia
23	9:03:23.4	47.178N	18.295E	0	0.5	-	Sárkeszi (exp)
23	11:37:50.3	47.460N	18.411E	0	1.4	-	Várgesztes (exp)
24	8:55:26.3	47.538N	18.551E	0	1.1	-	Nagyegyháza (exp)
25	6:26:40.8	47.311N	18.343E	0	0.6	-	Magyaralmás (exp)
25	8:30:33.9	46.051N	18.124E	0	0.9	-	Cserkút (exp)
27	4:47:13.4	46.201N	16.607E	9	1.6	-	Croatia
30	11:10:59.1	47.160N	18.307E	0	0.3	-	Sárkeszi (exp)

JÚNIUS / JUNE, 2017

01	11:27:22.9	47.121N	17.981E	10	1.1	-	Kádárta
02	7:53:30.6	48.297N	21.226E	0	2.0	-	Abaújalpár (exp)
02	9:36:02.5	46.049N	18.114E	0	1.0	-	Pellérd (exp)
05	10:46:20.5	47.352N	18.167E	6	1.1	-	Nagyveleg
07	11:44:43.9	46.858N	17.402E	7	1.5	-	Raposka
09	10:30:52.8	48.235N	21.205E	0	1.9	-	Golop (exp)
09	11:52:21.5	48.246N	21.221E	0	1.8	-	Tállya (exp)
11	16:22:32.6	47.351N	17.597E	12	2.0	-	Béb
11	17:37:17.3	47.350N	17.593E	10	1.3	-	Béb
12	8:25:07.3	46.253N	18.454E	0	1.1	-	Kismányok (exp)

Hypocenter Parameters

Földrengés paraméterek

12	8:58:10.6	46.170N	18.294E	0	0.6	-	Zobákpuszta (exp)
15	8:56:31.9	48.619N	20.779E	0	1.5	-	Slovakia (exp)
15	10:30:43.7	45.880N	18.381E	0	0.7	-	Kisharsány (exp)
15	21:45:22.8	45.618N	18.551E	10	1.6	-	Croatia
16	6:14:42.0	47.268N	18.374E	0	0.7	-	Sárkeresztes (exp)
16	9:30:21.2	47.871N	19.119E	0	1.7	-	Szendehely (exp)
19	23:40:41.2	47.762N	16.185E	10	1.4	-	Austria
20	8:18:06.5	48.591N	20.779E	0	1.5	-	Slovakia (exp)
21	12:38:12.0	48.140N	20.847E	7	1.4	-	Sajópálfala
22	4:03:12.3	46.393N	17.039E	9	2.0	-	Pogányszentpéter
22	7:06:29.2	47.362N	18.438E	0	0.9	-	Gánt (exp)
22	11:21:40.0	47.930N	20.057E	0	2.2	-	Bodony (exp)
23	7:09:33.3	46.072N	18.061E	7	0.7	-	Boda
23	7:37:04.2	47.382N	18.291E	15	0.9	-	Csókakő
25	16:18:43.5	48.036N	20.296E	2	1.8	-	Mikófalva
27	9:26:40.9	48.620N	20.779E	0	1.4	-	Slovakia (exp)
27	9:31:28.5	46.185N	18.281E	0	0.4	-	Zobákpuszta (exp)
29	10:34:32.4	48.231N	21.228E	0	2.1	-	Tállya (exp)

JÚLIUS / JULY, 2017

03	8:21:31.2	47.314N	17.605E	0	1.4	-	Ugod (exp)
05	0:43:41.0	47.492N	18.396E	0	0.8	-	Várgesztes
06	6:50:32.6	47.061N	17.721E	7	0.6	-	Úrkút
06	10:46:15.5	48.185N	19.781E	0	1.3	-	Somoskő (exp)
07	7:00:42.0	47.506N	18.602E	0	0.9	-	Óbarok (exp)
07	7:51:50.5	47.125N	18.306E	0	0.4	-	Úrhida (exp)
07	7:51:57.9	46.043N	18.000E	0	1.3	-	Szentlőrinc (exp)
07	7:52:00.5	47.836N	19.126E	0	1.3	-	Szendehely (exp)
07	9:12:20.0	46.001N	18.371E	0	0.6	-	Birján (exp)
07	10:53:23.4	47.099N	18.027E	0	1.1	-	Királyszttistván (exp)
07	11:11:15.3	47.183N	17.979E	0	1.0	-	Gyulafirátót (exp)
08	18:50:49.7	47.349N	16.071E	1	2.0	-	Austria
11	7:11:32.8	47.215N	18.196E	0	0.8	-	Bakonykúti (exp)
12	11:54:59.0	47.206N	18.307E	0	0.6	-	Székesfehérvár (exp)
13	6:13:03.7	47.298N	18.334E	0	0.4	-	Magyaralmás (exp)
14	9:01:01.9	47.507N	18.561E	0	1.1	-	Nagyegyháza (exp)
15	1:19:03.5	47.386N	18.260E	10	-0.2	-	Mór
18	12:46:11.2	46.252N	18.456E	0	0.7	-	Kismányok (exp)
19	9:11:44.4	47.188N	18.290E	10	0.6	-	Sárkeszi
19	12:44:51.0	48.604N	20.757E	0	1.6	-	Slovakia (exp)
23	1:44:13.3	45.511N	18.065E	1	0.8	-	Croatia
24	7:50:40.7	46.026N	18.042E	0	1.2	-	Bicsérd (exp)
26	9:42:06.6	47.210N	18.294E	8	0.2	-	Moha
27	5:40:40.6	47.448N	18.219E	7	0.9	-	Pusztavám
27	5:47:46.6	47.238N	18.197E	10	0.4	-	Bakonykúti
27	5:51:20.8	47.272N	18.137E	15	0.8	-	Isztimér
28	7:05:10.8	47.950N	19.871E	0	1.7	-	Dorogháza (exp)
28	9:45:12.6	47.081N	17.952E	16	0.9	-	Veszprém
29	23:22:14.9	47.838N	16.196E	0	1.9	-	Austria
31	1:49:03.8	46.135N	16.111E	12	1.3	-	Croatia
31	6:24:15.9	47.972N	20.031E	0	1.5	-	Mátraballa (exp)

AUGUSZTUS / AUGUST, 2017

02	6:25:45.5	47.554N	16.362E	0	0.9	-	Austria
02	9:06:29.6	47.181N	18.292E	0	0.6	-	Sárkeszi (exp)
02	10:09:43.6	47.788N	16.128E	1	1.6	-	Austria
04	8:13:38.1	47.228N	18.257E	0	0.9	-	Iszcasztgyörgy (exp)
06	1:54:03.4	47.323N	18.262E	5	0.7	-	Söréd
06	2:55:20.3	47.326N	18.260E	0	-0.5	-	Söréd
06	8:46:30.9	47.426N	18.194E	10	0.7	-	Pusztavám

Földrengés paraméterek

Hypocenter Parameters

07	9:20:55.6	45.888N	18.409E	0	1.2	-	Villánykövesd (exp)
07	10:08:16.2	48.369N	19.830E	0	1.6	-	Slovakia (exp)
08	8:32:30.5	48.621N	18.086E	0	1.8	-	Slovakia (exp)
08	11:35:10.6	47.169N	18.327E	0	0.3	-	Sárszentmihály (exp)
09	10:44:14.5	47.207N	18.290E	0	0.5	-	Iszcasztgyörgy (exp)
09	17:58:47.4	47.418N	18.824E	9	2.0	-	Sóskút
10	5:58:26.5	47.347N	18.449E	0	0.9	-	Gánt (exp)
10	6:01:01.2	47.286N	18.343E	0	1.0	-	Magyaralmás (exp)
10	7:55:32.6	48.660N	19.142E	0	1.6	-	Slovakia (exp)
11	10:01:30.1	48.134N	16.907E	0	1.2	-	Austria (exp)
11	10:19:43.5	46.014N	18.054E	5	1.1	-	Bicsérd
14	6:30:01.2	47.090N	18.207E	0	0.7	-	Küngös (exp)
14	9:26:40.6	45.541N	17.902E	5	1.8	-	Croatia
14	9:31:42.0	46.243N	18.251E	1	0.6	-	Kisbattyán
14	20:44:47.8	46.324N	20.763E	7	1.6	-	Ambrózfalva
15	6:06:29.9	47.277N	18.345E	0	0.9	-	Magyaralmás (exp)
15	7:17:06.9	46.042N	16.327E	8	1.8	-	Croatia
15	8:05:42.7	48.553N	20.846E	0	1.1	-	Hidvégardó (exp)
15	8:47:23.6	47.363N	18.494E	0	1.0	-	Csákvár (exp)
16	10:02:37.6	46.214N	18.271E	0	0.7	-	Kisbattyán (exp)
17	8:16:21.4	47.202N	18.294E	0	0.5	-	Székesfehérvár (exp)
17	8:44:56.3	48.654N	20.792E	0	1.2	-	Slovakia (exp)
17	10:51:00.9	46.151N	16.666E	10	2.1	-	Croatia
18	6:50:13.1	47.897N	19.395E	0	1.4	-	Bercel (exp)
21	9:23:55.1	48.541N	18.554E	0	1.4	-	Slovakia (exp)
22	8:13:40.7	48.622N	20.732E	0	1.1	-	Slovakia (exp)
23	7:10:32.3	48.425N	19.527E	0	1.6	-	Slovakia (exp)
23	9:54:32.9	47.893N	19.177E	0	1.2	-	Felsőpetény (exp)
24	6:26:40.8	47.289N	18.336E	0	0.5	-	Magyaralmás (exp)
24	7:00:40.8	47.354N	18.498E	0	0.8	-	Lovasberény (exp)
24	7:45:44.1	47.283N	18.359E	0	0.8	-	Magyaralmás
24	9:13:07.4	48.624N	20.750E	0	1.3	-	Slovakia (exp)
25	11:02:28.3	48.251N	21.200E	0	1.9	-	Abaújszántó (exp)
29	9:03:10.5	46.036N	18.070E	0	1.2	-	Bicsérd (exp)
30	7:20:24.0	47.965N	20.009E	0	1.6	-	Mátraballa (exp)
30	12:23:02.6	47.177N	18.301E	0	0.4	-	Sárkeszi (exp)
31	15:20:51.6	47.255N	18.168E	15	0.7	-	Isztimér
31	15:33:45.1	47.171N	19.101E	0	1.3	-	Apaj (exp)

SZEPTEMBER / SEPTEMBER, 2017

01	11:40:38.0	47.092N	19.409E	0	1.4	-	Tatársztgyörgy (exp)
02	8:49:45.4	48.063N	19.576E	0	1.3	-	Nagylóc (exp)
03	2:26:48.0	47.286N	18.081E	6	1.2	-	Tés
04	15:30:12.3	48.641N	22.050E	13	1.9	-	Slovakia
05	12:38:34.7	47.939N	18.910E	0	1.8	-	Nagybörzsöny (exp)
06	11:08:17.8	48.715N	21.514E	0	1.0	-	Slovakia (exp)
07	8:22:14.2	47.348N	18.450E	0	1.3	-	Gánt (exp)
07	9:34:53.4	47.854N	19.109E	0	1.4	-	Szendehely (exp)
07	23:30:04.0	47.228N	18.420E	10	0.3	-	Csala
08	8:58:49.9	46.024N	18.112E	0	0.8	-	Zók (exp)
08	9:28:28.5	48.833N	21.162E	0	1.6	-	Slovakia (exp)
09	0:04:21.7	46.135N	16.471E	7	1.4	-	Croatia
09	14:59:35.3	47.845N	19.202E	7	1.4	-	Ősagárd
12	10:03:41.7	47.195N	18.284E	0	0.7	-	Sárkeszi (exp)
13	7:49:56.0	47.432N	18.414E	0	0.8	-	Várgesztes (exp)
13	8:20:47.6	48.542N	20.833E	2	1.0	-	Hidvégardó
13	8:31:10.3	48.606N	20.757E	0	1.3	-	Slovakia (exp)
13	9:20:58.3	47.145N	17.907E	13	1.3	-	Gyulafirátót
13	10:51:57.9	48.667N	19.929E	0	1.3	-	Slovakia (exp)
13	15:18:10.0	48.614N	20.840E	0	1.0	-	Slovakia (exp)

Hypocenter Parameters

Földrengés paraméterek

14	6:16:06.5	47.290N	18.344E	0	0.9	-	Magyaralmás (exp)
14	9:12:22.1	48.595N	20.771E	0	1.6	-	Slovakia (exp)
15	7:28:33.6	47.507N	16.327E	2	0.7	-	Austria
16	10:34:54.4	46.211N	16.757E	7	3.1	-	Croatia
16	14:27:21.5	46.224N	16.756E	1	1.6	-	Croatia
18	4:40:12.9	47.501N	16.139E	0	1.4	-	Austria
18	11:11:09.3	48.672N	21.387E	13	1.3	-	Slovakia
20	7:17:30.1	47.166N	18.227E	0	0.3	-	Ősi (exp)
20	10:11:29.9	48.632N	21.472E	1	1.4	-	Slovakia
21	0:31:13.4	46.256N	16.653E	10	1.5	-	Croatia
21	3:18:35.8	47.909N	16.842E	7	1.2	-	Austria
22	8:21:38.3	47.566N	18.508E	0	1.3	-	Tarján (exp)
22	9:23:02.0	48.617N	20.750E	0	1.5	-	Slovakia (exp)
22	10:24:26.0	48.902N	21.067E	0	1.1	-	Slovakia (exp)
22	10:47:31.8	47.110N	17.970E	0	1.4	-	Kádárta (exp)
22	11:41:35.4	46.981N	22.330E	1	1.7	-	Romania
22	13:39:07.2	46.231N	16.824E	6	2.2	-	Croatia
22	14:37:18.9	48.579N	20.817E	0	1.1	-	Tornanádaska (exp)
23	1:23:39.7	45.819N	18.911E	2	1.8	-	Croatia
23	11:20:52.8	48.675N	22.445E	1	2.0	-	Ukraine
23	22:24:01.6	45.819N	18.895E	10	1.5	-	Croatia
24	11:14:53.1	47.414N	18.216E	1	0.5	-	Pusztavám
25	7:54:20.8	46.022N	18.090E	0	1.3	-	Zók (exp)
25	11:15:16.8	45.869N	18.422E	0	0.9	-	Villány (exp)
25	13:56:59.1	47.116N	19.333E	0	1.6	-	Örkény (exp)
26	8:56:52.4	48.631N	20.789E	0	1.1	-	Slovakia (exp)
26	10:12:18.1	47.203N	18.301E	0	0.4	-	Székesfehérvár (exp)
26	13:58:07.2	47.130N	19.357E	0	1.1	-	Örkény (exp)
27	8:33:06.2	47.362N	18.464E	0	1.5	-	Csákvár (exp)
27	8:38:25.8	47.356N	18.408E	0	1.1	-	Gánt (exp)
27	10:21:04.1	48.576N	20.788E	0	1.1	-	Tornanádaska (exp)
27	14:15:27.4	47.085N	19.406E	0	1.2	-	Tatársztgyörgy (exp)
27	14:44:25.4	48.440N	17.180E	0	1.5	-	Slovakia (exp)
28	7:21:31.9	47.344N	18.288E	10	0.9	-	Csákberény
28	7:43:19.1	48.618N	20.789E	0	1.1	-	Slovakia (exp)
28	9:06:16.7	46.022N	18.116E	1	0.8	-	Zók
28	9:36:07.1	47.789N	19.938E	0	1.7	-	Gyöngyös (exp)
28	10:11:34.5	47.191N	18.305E	0	0.5	-	Székesfehérvár (exp)
28	10:48:41.3	47.305N	18.319E	0	0.8	-	Magyaralmás (exp)
29	7:39:35.8	47.091N	17.958E	0	1.0	-	Kádárta (exp)
30	10:31:33.0	48.047N	19.594E	0	1.2	-	Nagylóc (exp)

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01	21:18:57.9	48.102N	20.153E	4	1.7	-	Bükkszenterzsébet
02	8:32:25.3	47.103N	18.005E	14	1.3	-	Litér
03	8:02:50.7	47.988N	20.033E	0	1.5	-	Mátraballa (exp)
03	8:51:57.2	48.587N	20.771E	0	1.3	-	Slovakia (exp)
03	8:54:28.5	47.862N	19.103E	0	1.4	-	Szendehely (exp)
03	9:48:22.9	47.191N	18.300E	0	0.9	-	Székesfehérvár (exp)
04	7:25:41.3	48.536N	19.341E	0	1.5	-	Slovakia (exp)
04	8:40:36.8	47.092N	17.771E	0	1.4	-	Szentgál (exp)
05	8:10:43.0	46.148N	18.045E	0	0.9	-	Hetvehely (exp)
05	8:58:09.8	48.650N	20.726E	0	1.7	-	Slovakia (exp)
05	9:23:55.4	46.166N	18.308E	0	0.9	-	Zobákpuszta (exp)
05	9:35:58.0	47.210N	17.706E	0	1.6	-	Csehbánya (exp)
05	11:00:26.1	48.794N	20.081E	0	1.7	-	Slovakia (exp)
05	11:00:52.2	47.178N	18.325E	0	0.5	-	Székesfehérvár (exp)
05	11:12:21.0	45.513N	17.736E	10	1.8	-	Croatia
06	0:26:48.5	47.377N	18.210E	3	-0.1	-	Mór
06	7:51:11.5	48.454N	17.449E	0	2.3	-	Slovakia (exp)

Földrengés paraméterek

Hypocenter Parameters

06	7:54:27.4	48.555N	19.367E	0	1.7	-	Slovakia (exp)
06	10:05:17.4	48.875N	20.531E	0	1.7	-	Slovakia (exp)
06	11:22:09.4	48.359N	19.848E	0	1.5	-	Slovakia (exp)
07	21:22:08.2	47.288N	18.204E	9	-0.2	-	Balinka
08	0:11:30.4	47.288N	17.288E	11	1.7	-	Nemesszalók
08	1:08:29.7	47.245N	18.462E	0	-0.4	-	Csala
09	9:56:29.5	48.480N	17.495E	0	2.9	-	Slovakia (exp)
09	11:50:05.5	47.877N	16.090E	5	1.7	-	Austria
10	8:40:15.4	47.891N	19.213E	1	1.4	-	Felsőpetény
10	9:32:03.4	47.549N	18.472E	10	1.2	-	Tatabánya
11	0:13:16.7	47.413N	18.226E	10	0.3	-	Pusztavám
11	6:26:07.1	47.266N	18.414E	0	1.1	-	Sárkeresztes (exp)
11	9:55:45.7	48.615N	20.478E	0	1.5	-	Slovakia (exp)
11	11:06:29.9	48.597N	20.764E	0	1.6	-	Slovakia (exp)
12	1:31:22.4	47.362N	18.226E	6	-0.2	-	Mór
12	9:44:58.2	45.888N	18.385E	0	1.5	-	Palkonya (exp)
12	11:12:27.7	46.147N	18.019E	0	1.0	-	Hetvehely (exp)
13	8:33:47.8	47.844N	19.136E	4	1.4	-	Szendehegy
14	9:21:48.6	46.190N	18.281E	0	1.1	-	Komló (exp)
15	17:33:20.7	47.331N	18.294E	10	-0.4	-	Söréd
16	5:21:51.6	47.352N	18.187E	10	1.0	-	Mór
16	5:25:43.8	47.349N	18.190E	6	1.0	-	Bodajk
16	9:45:27.4	47.095N	17.834E	0	1.4	-	Márkó (exp)
16	20:36:33.6	47.340N	18.323E	3	0.5	-	Csákberény
17	7:30:19.2	47.296N	18.486E	0	1.4	-	Pátka (exp)
17	11:04:02.4	48.698N	19.929E	0	1.5	-	Slovakia (exp)
18	9:57:03.9	47.773N	16.072E	10	1.9	-	Austria
18	11:03:52.1	47.197N	18.292E	0	1.0	-	Székesfehérvár (exp)
19	9:32:47.8	46.187N	18.292E	0	0.7	-	Zobákpuszt (exp)
20	6:34:33.7	47.371N	18.518E	0	1.3	-	Csákvár (exp)
20	7:11:29.8	46.238N	18.467E	0	1.4	-	Mecseknádasd (exp)
20	11:44:30.0	47.757N	16.070E	0	1.9	-	Austria
20	11:58:06.3	47.563N	18.457E	0	1.2	-	Tatabánya (exp)
21	7:32:24.0	48.015N	19.633E	0	1.4	-	Lucfalva (exp)
23	1:04:09.6	48.966N	20.303E	6	1.7	-	Slovakia
23	8:02:06.4	48.555N	20.794E	7	1.3	-	Tornanádaska
23	8:51:05.2	48.889N	21.107E	2	1.9	-	Slovakia
23	23:35:12.6	48.033N	16.451E	2	2.0	-	Austria
24	8:50:31.9	48.774N	20.803E	0	2.1	-	Slovakia (exp)
25	10:01:10.5	47.169N	18.309E	0	0.9	-	Sárkeszi (exp)
26	10:04:06.1	45.627N	17.315E	10	1.6	-	Croatia
29	11:42:05.2	47.111N	18.395E	3	0.8	-	Tác
29	18:01:18.5	47.400N	18.376E	5	0.9	-	Gánt
30	9:25:35.0	48.603N	20.785E	4	1.7	-	Slovakia
30	13:41:41.9	47.371N	18.260E	11	0.8	-	Mór
31	0:36:42.9	47.379N	18.259E	11	-0.2	-	Mór
31	10:10:12.4	46.229N	18.237E	0	1.0	-	Komló (exp)
31	11:45:33.1	48.205N	21.252E	0	1.9	-	Mád (exp)

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01	3:48:47.7	47.306N	18.275E	10	-0.4	-	Fehérvárcsurgó
01	11:13:36.2	48.533N	20.874E	0	1.6	-	Tornaszentjakab (exp)
02	10:37:13.6	46.132N	18.033E	6	0.9	-	Hetvehely
02	11:31:53.8	46.147N	18.036E	0	1.1	-	Hetvehely (exp)
02	19:58:14.6	45.895N	21.352E	13	1.4	-	Romania
03	10:11:20.6	48.570N	20.788E	0	1.5	-	Tornanádaska (exp)
04	17:12:47.6	47.272N	17.899E	10	1.3	-	Nagyesztergár
06	10:03:46.3	47.827N	19.934E	0	1.8	-	Mátrafüred (exp)
07	9:58:17.7	47.329N	18.451E	0	1.5	-	Zámoly (exp)
08	13:39:19.3	47.968N	19.403E	10	1.2	-	Cserháthaláp

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08	18:36:27.2	48.075N	16.146E	10	3.0	-	Austria
09	6:59:23.1	48.313N	19.823E	4	1.7	-	Slovakia
09	8:51:23.3	48.592N	20.772E	4	1.7	-	Slovakia
09	10:46:22.9	45.576N	17.343E	13	2.0	-	Croatia
10	8:30:09.1	47.340N	18.434E	0	1.6	-	Zámoly (exp)
10	9:32:46.2	47.817N	16.021E	10	2.1	-	Austria
10	10:27:23.5	47.565N	18.457E	0	1.4	-	Tatabánya (exp)
10	12:00:44.7	46.105N	18.117E	0	1.1	-	Kővágótóttós (exp)
10	12:02:02.4	46.128N	18.101E	0	1.1	-	Abaliget (exp)
10	12:08:18.7	46.129N	18.044E	0	1.3	-	Hetvehely (exp)
10	16:40:43.8	47.708N	16.163E	9	3.3	-	Austria
13	9:17:59.1	48.567N	20.791E	0	1.6	-	Tornanádaska (exp)
13	11:28:39.2	48.503N	20.803E	0	1.5	-	Tornabarakony (exp)
14	7:15:37.9	47.504N	18.409E	0	1.4	-	Várgesztes (exp)
14	8:55:49.1	48.599N	20.789E	0	1.6	-	Slovakia (exp)
14	12:02:32.4	48.416N	17.220E	0	2.2	-	Slovakia (exp)
14	12:37:03.0	46.783N	17.266E	8	1.5	-	Gyenesdiás
15	7:41:19.5	47.151N	18.163E	10	0.9	-	Pétfürdő
15	8:22:59.8	48.597N	20.762E	0	1.2	-	Slovakia (exp)
15	9:54:44.5	47.214N	18.296E	0	0.3	-	Moha (exp)
15	13:51:51.4	47.911N	20.089E	0	1.9	-	Recsk (exp)
16	9:54:21.8	47.411N	18.400E	0	1.6	-	Gánt (exp)
17	10:42:16.5	46.252N	18.227E	0	1.3	-	Kisvaszar (exp)
17	13:02:19.6	45.926N	16.234E	12	2.3	-	Croatia
20	11:20:15.5	48.601N	20.777E	0	1.3	-	Slovakia (exp)
20	11:27:45.9	47.883N	19.371E	0	1.8	-	Nógrádkövesd (exp)
20	11:30:20.6	48.124N	18.983E	0	1.2	-	Slovakia (exp)
20	12:38:08.5	48.351N	19.843E	0	1.5	-	Slovakia (exp)
21	9:40:05.7	47.080N	17.131E	0	1.8	-	Keléd (exp)
22	7:26:34.0	47.966N	20.121E	0	1.3	-	Szajla (exp)
22	8:58:45.5	47.528N	18.371E	0	1.8	-	Vértessomló (exp)
22	9:33:21.4	47.105N	17.923E	0	1.3	-	Kádárta (exp)
22	9:41:15.4	47.501N	18.006E	0	1.3	-	Kisbér (exp)
22	10:23:19.3	45.860N	18.392E	0	1.4	-	Kisharsány (exp)
22	22:55:00.4	47.327N	18.326E	0	-0.4	-	Söréd
23	7:13:22.1	47.223N	18.190E	0	0.9	-	Bakonykúti (exp)
23	7:17:05.8	47.271N	18.176E	0	0.6	-	Isztimér (exp)
23	10:13:15.7	48.580N	20.769E	0	1.6	-	Tornanádaska (exp)
23	10:47:53.4	47.083N	18.038E	0	1.5	-	Királyszttistván (exp)
24	9:52:35.3	47.720N	18.523E	10	1.9	-	Lábatlan
24	10:48:02.0	48.594N	20.764E	0	1.6	-	Slovakia (exp)
27	8:54:49.0	48.039N	21.349E	0	1.8	-	Csobaj (exp)
27	10:03:38.9	48.561N	20.820E	0	1.4	-	Hidvégardó (exp)
28	8:24:50.4	47.340N	18.450E	0	0.9	-	Zámoly (exp)
28	12:26:40.6	48.353N	19.847E	0	1.4	-	Slovakia (exp)
29	7:01:38.9	47.216N	18.229E	0	1.0	-	Csór (exp)
29	9:44:33.6	48.588N	20.782E	0	1.5	-	Slovakia (exp)
30	10:07:21.8	46.163N	18.299E	0	0.9	-	Zobákpuszt (exp)
30	10:41:06.2	47.116N	18.051E	0	1.3	-	Vilonya (exp)
30	11:27:55.7	45.853N	18.405E	0	1.2	-	Nagyharsány (exp)

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01	8:24:59.0	47.352N	18.418E	0	1.6	-	Gánt (exp)
01	9:14:34.5	46.980N	17.767E	0	1.1	-	Barnag (exp)
01	10:19:38.4	45.528N	17.871E	0	2.0	-	Croatia
04	7:04:31.8	47.337N	18.404E	0	1.7	-	Zámoly (exp)
04	9:30:52.0	48.585N	20.804E	0	1.4	-	Tornanádaska (exp)
04	10:22:54.3	47.859N	19.149E	4	1.7	-	Nótincs
04	10:57:56.6	48.525N	17.646E	0	2.8	-	Slovakia (exp)
04	11:17:22.1	47.761N	20.046E	8	1.6	-	Halmajugra

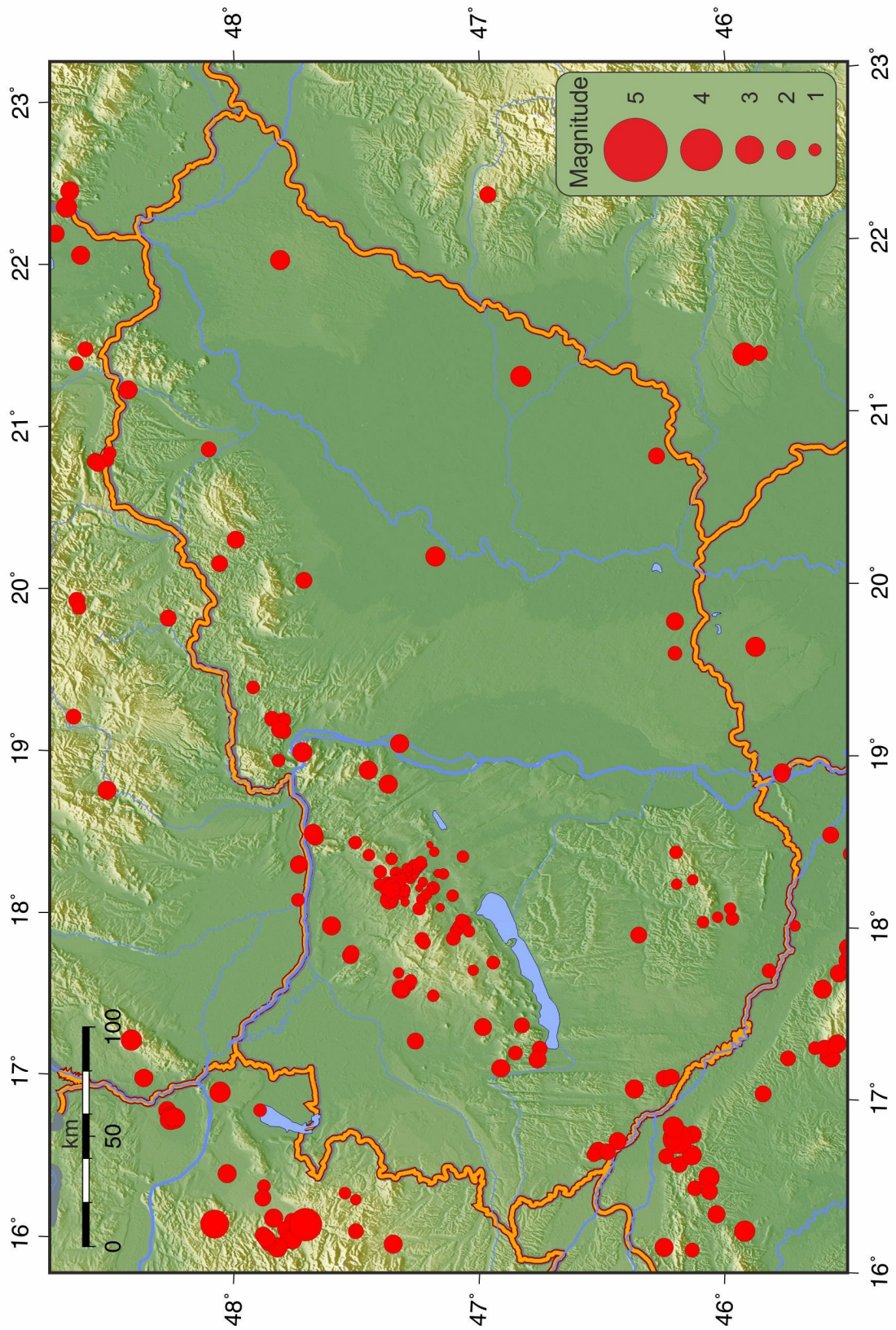
Földrengés paraméterek

Hypocenter Parameters

05	4:56:33.8	46.393N	17.948E	10	1.7	-	Fonó
05	9:24:26.5	45.777N	18.491E	0	1.1	-	Croatia (exp)
05	10:17:18.1	45.500N	17.842E	0	1.5	-	Croatia (exp)
05	11:35:45.0	48.675N	19.891E	10	1.3	-	Slovakia
05	12:40:08.8	47.778N	19.066E	0	1.5	-	Dunabogdány (exp)
05	22:44:37.9	46.256N	19.790E	8	1.8	-	Ruzsa
06	1:32:37.1	47.263N	17.879E	3	1.0	-	Zirc
06	9:53:42.0	48.859N	20.485E	1	2.1	-	Slovakia
06	10:05:32.1	47.110N	18.015E	10	1.2	-	Királyszentistván
07	9:10:19.1	46.118N	18.044E	0	1.4	-	Bükkösd (exp)
08	9:34:56.7	46.183N	18.289E	0	0.6	-	Zobákpusztá (exp)
08	10:50:19.9	45.515N	17.944E	0	1.7	-	Croatia (exp)
08	13:46:10.2	47.894N	20.072E	0	1.4	-	Parád (exp)
11	10:57:50.1	48.802N	21.168E	0	1.1	-	Slovakia (exp)
11	11:00:29.9	48.073N	16.943E	10	2.3	-	Austria
11	12:00:48.9	48.804N	21.601E	0	1.9	-	Slovakia (exp)
11	12:03:58.3	48.270N	21.243E	0	1.9	-	Tállya (exp)
12	0:17:22.5	47.379N	18.218E	10	1.6	-	Mór
12	6:53:26.0	48.665N	17.912E	0	1.8	-	Slovakia (exp)
12	8:55:41.2	48.624N	20.736E	0	1.8	-	Slovakia (exp)
12	9:54:31.3	47.104N	18.017E	0	1.2	-	Királyszentistván (exp)
12	10:01:05.1	47.583N	18.430E	0	1.2	-	Tatabánya (exp)
12	10:04:07.6	47.273N	18.240E	9	0.5	-	Kincsesbánya
12	16:28:31.1	47.776N	18.334E	8	1.8	-	Slovakia
12	23:05:34.6	47.778N	18.329E	4	1.7	-	Slovakia
13	9:38:29.1	48.609N	20.770E	0	1.5	-	Slovakia (exp)
13	10:20:32.4	47.900N	19.399E	0	1.4	-	Becske (exp)
13	11:31:23.8	45.883N	18.418E	0	1.6	-	Villánykövesd (exp)
14	9:15:16.3	48.667N	20.352E	0	1.3	-	Slovakia (exp)
14	11:01:07.3	47.111N	17.970E	0	1.4	-	Kádárta (exp)
15	9:52:43.0	48.597N	20.773E	0	1.5	-	Slovakia (exp)
15	11:32:20.6	48.559N	18.772E	7	1.9	-	Slovakia
17	5:00:14.7	47.885N	16.313E	10	1.7	-	Austria
17	19:43:16.4	48.690N	22.347E	5	2.2	-	Ukraine
18	10:39:57.1	48.635N	20.711E	0	1.4	-	Slovakia (exp)
18	11:51:04.0	46.939N	17.141E	13	2.0	-	Kisgörbő
18	11:54:08.0	46.880N	17.236E	8	1.3	-	Zalaszántó
19	4:27:28.4	46.074N	16.457E	5	1.6	-	Croatia
19	9:31:01.0	48.570N	20.802E	0	1.3	-	Tornanádaska (exp)
19	10:17:44.6	48.541N	20.791E	0	1.8	-	Bódvalenke (exp)
19	10:39:36.4	46.244N	18.464E	0	1.2	-	Kismányok (exp)
19	11:36:35.2	48.578N	20.785E	0	1.2	-	Tornanádaska (exp)
19	13:02:04.5	47.856N	16.044E	10	1.4	-	Austria
19	13:05:03.7	47.057N	18.024E	0	1.0	-	Balatonfűzfő (exp)
19	19:27:49.9	46.532N	16.670E	9	1.8	-	Lispezsentadorján
19	19:28:40.6	46.455N	16.733E	10	1.8	-	Becsehely
19	19:30:50.7	46.533N	16.678E	10	1.5	-	Lispezsentadorján
19	19:42:37.0	46.550N	16.648E	10	1.3	-	Maróc
19	19:49:42.7	46.495N	16.665E	8	1.6	-	Szentmargitfalva
20	8:01:17.0	47.086N	17.968E	0	1.3	-	Litér (exp)
20	9:09:30.7	47.361N	18.255E	9	0.8	-	Csókakő
20	10:35:55.3	48.578N	20.766E	0	1.8	-	Tornanádaska (exp)
20	11:36:07.7	46.121N	18.087E	0	0.8	-	Abaliget (exp)
20	11:39:30.6	45.773N	17.251E	10	1.5	-	Croatia
20	12:21:50.5	46.789N	17.203E	9	1.8	-	Cserszegtomaj
20	14:00:58.5	48.442N	17.248E	6	2.2	-	Slovakia
21	13:04:31.1	47.862N	16.071E	5	1.8	-	Austria
22	10:44:27.5	48.386N	17.016E	2	1.9	-	Slovakia
22	22:06:53.4	48.269N	16.776E	4	2.0	-	Austria
22	22:49:25.4	48.286N	16.822E	10	1.8	-	Austria

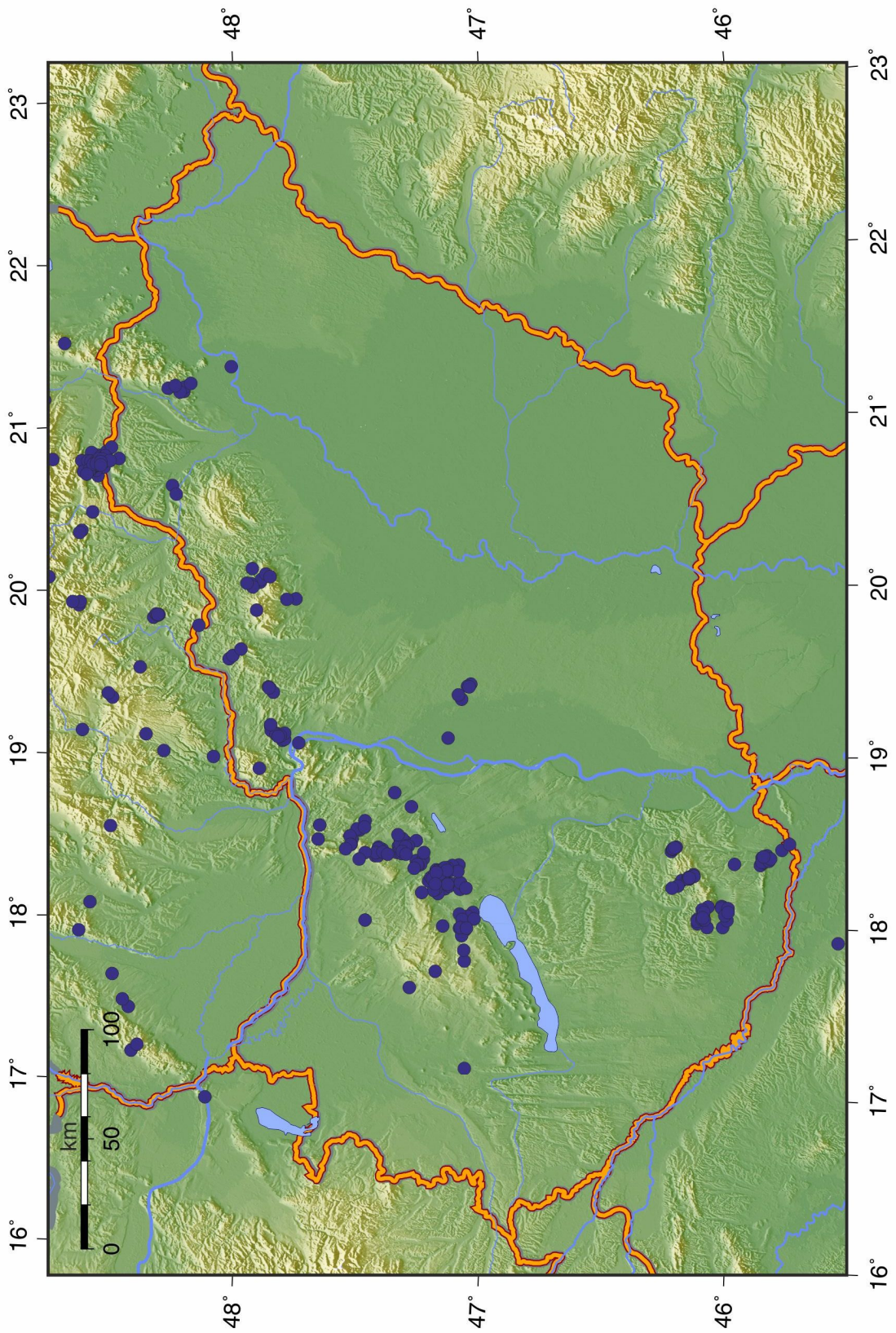
Hypocenter Parameters**Földrengés paraméterek**

22	22:55:21.9	48.271N	16.783E	7	2.2	-	Austria
23	0:46:03.0	48.268N	16.780E	9	2.1	-	Austria
23	1:02:59.8	48.271N	16.768E	4	2.3	-	Austria
23	1:27:19.4	48.255N	16.774E	6	2.2	-	Austria
23	1:44:14.4	47.499N	18.906E	9	1.9	-	Budakeszi
23	2:19:17.0	47.389N	18.251E	2	0.3	-	Mór
24	0:33:43.9	48.262N	16.779E	8	1.8	-	Austria
25	17:57:09.4	47.364N	18.232E	4	0.0	-	Mór
26	12:07:51.3	47.399N	18.203E	5	1.9	-	Mór
28	9:40:24.5	46.126N	18.055E	0	1.5	-	Hetvehely (exp)
28	19:03:42.2	47.381N	18.212E	4	0.1	-	Mór
30	22:26:20.2	47.390N	18.115E	1	0.1	-	Nagyveleg



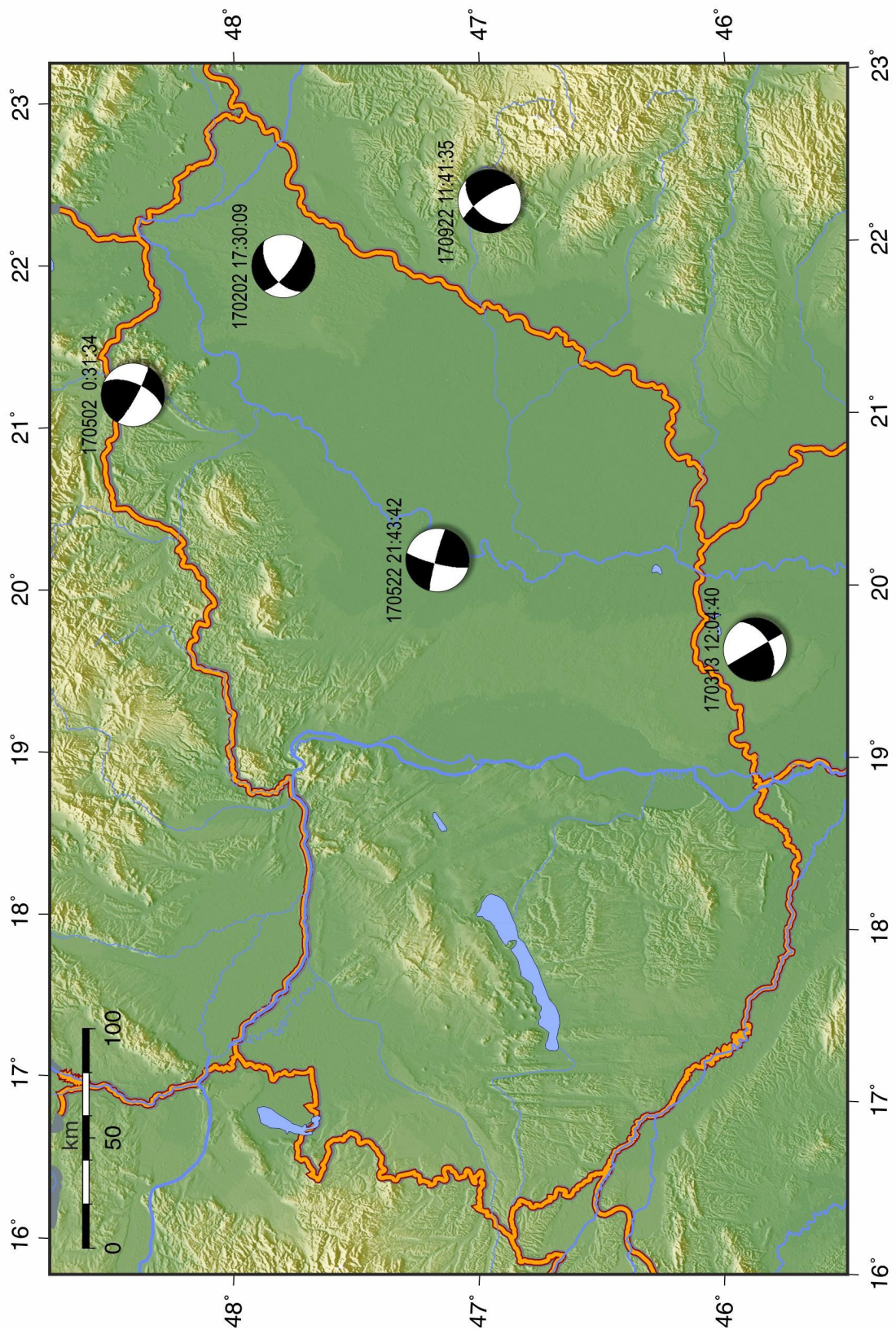
3.1. ábra A 2017-ben regisztrált földrengések epicentrumai

Figure 3.1. Epicenters of 2017 earthquakes



3.2. ábra A 2017-ben regisztrált robbantások epicentrumai

Figure 3.2. Epicenters of 2017 explosions








3.3. ábra A 2017-ben regisztrált földrengések fészekmechanizmusai

Figure 3.3. Fault plane solutions of 2017 earthquakes

A 2017-ben regisztrált földrengések fészekmechanizmusai

Fault plane solutions of 2017 earthquakes

No	Date	Time	Epicentre		1st nodal plane			P axis		T axis		
			Lat	Lon	Strike	Dip	Rake	Azim	Plunge	Azim	Plunge	
1.	2017.02.02	17:30:09	47.83	21.98	130	70	-40	87	42	187	11	
2.	2017.03.13	12:04:40	45.92	19.64	60	50	0	23	27	277	27	
3.	2017.05.02	0:31:34	48.46	21.21	25	60	170	249	14	347	27	
4.	2017.05.22	21:43:42	47.22	20.18	285	85	10	59	3	150	11	
5.	2017.09.22	11:41:35	46.98	22.33	225	50	-20	195	40	91	16	

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.

 2017-01-01 time: 16:08:54.14 UTC ML= 0.2
 lat: 47.342N lon: 18.118E h= 7.5 km
 erh= 7.2km erz= 3.7km
 nr= 6 gap=221 rms=0.12
 Locality: Bakonycsérnye
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	11.0	78	ePgD	16:08:56.54	0.01
			eSg	08:58.35	-0.04
PKST	11.2	214	ePgD	16:08:56.71	0.16
			eSg	08:58.29	-0.14
PKSG	21.3	75	ePg	16:08:58.02	-0.16
			eSg	09:01.42	0.08

2.

 2017-01-01 time: 20:27:47.52 UTC ML= 1.2
 lat: 47.864N lon: 18.962E h= 2.4 km
 erh= 1.4km erz= 2.1km
 nr= 18 gap= 93 rms=0.51
 Locality: Kóspallag
 Comments:

sta	dist	azm	phase	hr mn sec	res
PENC	25.3	109	ePg	20:27:52.34	0.29
			eSg	27:55.81	0.22
BUD	42.5	174	eSg	20:28:00.87	-0.18
SRO	48.9	263	eSg	20:28:04.00	0.92
PKSG	67.8	219	ePg	20:27:59.59	-0.05
			eSg	28:08.47	-0.61
PSZ	70.0	85	ePg	20:28:00.59	0.56
			eSg	28:09.24	-0.54
VYHS	70.7	352	ePg	20:28:00.30	0.14
			eSg	28:08.80	-1.21
CSKK	76.7	223	ePg	20:28:01.36	0.14
			eSg	28:11.93	0.03
PKST	96.9	226	ePg	20:28:04.09	-0.74
			eSg	28:18.30	-0.04
PKB1	120.7	186	ePg	20:28:08.59	-0.49
			eSg	28:22.88	-3.01*
EGYH	132.2	248	eSn	20:28:28.84	0.00
PKB4	154.4	190	ePn	20:28:14.26	0.75
			eSn	28:32.80	-0.98

3.

 2017-01-02 time: 23:27:51.62 UTC ML= 2.2
 lat: 46.869N lon: 21.247E h= 6.5 km
 erh= 4.4km erz= 3.3km
 nr= 21 gap=180 rms=1.11
 Locality: Bélmegyer
 Comments:

sta	dist	azm	phase	hr mn sec	res
AMBH	70.1	215	eSg	23:28:12.20	-1.80
BSZH	88.5	303	ePg	23:28:07.46	-0.01
			eSg	28:20.11	0.29
PKS6	132.0	257	ePn	23:28:13.20	-1.09
PKB2	154.6	262	ePn	23:28:16.66	-0.45
			eSn	28:35.69	-1.30
PSZ	155.0	319	eSn	23:28:35.84	-1.24
ABAH	158.7	360	ePn	23:28:17.15	-0.47
			eSn	28:36.91	-0.98
PKS2	161.1	255	eSn	23:28:38.48	0.06
PKB3	164.7	253	ePn	23:28:18.19	-0.17
			eSn	28:39.16	-0.06
TRPA	170.8	35	ePn	23:28:19.51	0.39
			eSn	28:39.77	-0.80
PKB1	187.5	267	ePn	23:28:22.73	1.52
			eSn	28:45.50	1.22
PKB5	194.3	261	ePn	23:28:24.65	2.59
PKB4	206.4	258	ePn	23:28:25.48	1.92

			eSn	28:50.47	2.00
MORH	212.4	250	ePn	23:28:25.13	0.82
			eSn	28:51.99	2.18

4.

 2017-01-03 time: 20:34:57.77 UTC ML= 1.4
 lat: 45.536N lon: 18.442E h= 1.2 km
 erh= 2.5km erz= 2.0km
 nr= 16 gap=306 rms=0.36
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	41.8	339	ePg	20:35:05.08	-0.16
			eSg	35:11.58	0.51
KOVH	66.8	337	ePgD	20:35:09.23	-0.48
PKSM	76.6	12	ePgC	20:35:11.17	-0.29
			eSg	35:22.02	-0.12
MORH	77.1	12	ePg	20:35:11.13	-0.41
			eSg	35:22.16	-0.13
PKB4	107.4	7	ePgC	20:35:17.27	0.32
			eSg	35:31.68	-0.24
PKB3	114.6	31	eSg	20:35:34.35	0.15
PKS9	117.4	354	ePgC	20:35:19.24	0.50
			eSg	35:35.51	0.41
PKB5	119.8	11	ePgC	20:35:19.06	-0.11
			eSg	35:35.43	-0.43
PKB1	141.3	11	ePnC	20:35:22.77	0.50
			eSn	35:41.91	0.53

5.

 2017-01-08 time: 1:05:31.36 UTC ML= 1.2
 lat: 47.230N lon: 18.206E h= 10.0 km
 erh= 1.7km erz= 1.6km
 nr= 32 gap= 88 rms=0.80
 Locality: Bakonykúti
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	13.4	284	ePgC	1:05:33.89	-0.46
			eSg	05:36.03	-0.64
CSKK	15.4	16	ePg	1:05:34.03	-0.61
			eSg	05:36.37	-0.83
PKSG	22.8	38	ePgD	1:05:34.97	-0.84
			eSg	05:39.64	0.36
TIH	43.7	213	ePgD	1:05:39.07	-0.29
			eSg	05:44.97	-0.63
MPLH	50.9	263	ePg	1:05:40.96	0.33
			eSg	05:47.33	-0.53
PKB1	66.6	138	ePgD	1:05:43.43	0.04
			eSg	05:51.98	-0.80
EGYH	69.3	288	ePg	1:05:44.85	0.99
			eSg	05:53.57	-0.04
PKS9	71.7	176	ePg	1:05:44.54	0.26
			eSg	05:56.06	1.70
PKB5	81.3	150	ePg	1:05:47.11	1.12
			eSg	05:58.42	1.03
PKB4	87.0	160	ePg	1:05:47.83	0.83
PKB2	100.2	128	eSg	1:06:02.80	-0.55
PKB3	117.1	140	ePn	1:05:49.85	-1.87
			eSn	06:07.43	-0.17
MORH	117.6	163	ePn	1:05:52.29	0.51
			eSn	06:05.60	-2.10
PKSM	117.9	164	ePn	1:05:51.75	-0.07
			eSn	06:05.68	-2.10
KOVH	127.1	184	ePn	1:05:53.05	0.08
			eSn	06:08.22	-1.60
VYHS	148.3	19	ePn	1:05:56.90	1.29
			eSn	06:14.90	0.38
PSZ	148.3	59	ePn	1:05:56.27	0.66
			eSn	06:16.02	1.49

Hypocenter Parameters

Földrengés paraméterek

6.

2017-01-12 time: 10:42:52.63 UTC ML= 1.6
 lat: 48.567N lon: 20.795E h= 0.0 km
 erh= 1.5km erz= 1.9km
 nr= 9 gap=146 rms=0.73
 Locality: Tornanádaska
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	24.7	248	ePg	10:42:56.90			-0.14
			eSg		43:00.70		0.23
ABAH	44.7	132	ePg	10:43:01.54			0.93
			eSg		43:07.11		0.28
CRVS	61.6	53	ePg	10:43:04.10			0.47
			eSg		43:12.10		-0.11
TRPA	138.2	111	ePn	10:43:16.54			-0.35
			eSn		43:34.48		-1.34
VYHS	144.9	267	eSn	10:43:34.90			-2.41

7.

2017-01-16 time: 10:34:24.69 UTC ML= 1.1
 lat: 48.609N lon: 20.828E h= 0.0 km
 erh= 1.6km erz= 1.6km
 nr= 7 gap=234 rms=0.25
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	28.9	241	ePg	10:34:29.90			0.06
			eSg		34:34.20		0.33
ABAH	46.3	139	ePg	10:34:33.11			0.16
			eSg		34:38.99		-0.40
PSZ	103.4	222	ePg	10:34:43.23			0.07
			eSg		34:57.50		-0.07
VYHS	147.6	265	eSn	10:35:09.40			-0.56

8.

2017-01-16 time: 11:14:44.13 UTC ML= 1.4
 lat: 47.690N lon: 18.571E h= 0.0 km
 erh= 2.2km erz= 4.6km
 nr= 17 gap=158 rms=0.82
 Locality: Nagysáp
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
SRO	23.7	305	ePg	11:14:48.00			-0.35
			eSg		14:54.20		2.55
PKSG	35.8	202	eSg	11:14:56.04			0.53
CSKK	43.2	213	ePg	11:14:51.81			-0.03
			eSg		14:57.94		0.08
PKST	62.7	220	ePg	11:14:55.14			-0.18
			eSg		15:04.18		0.12
VYHS	91.5	12	ePg	11:15:01.60			1.13
			eSg		15:12.60		-0.62
MPLH	96.9	233	ePg	11:15:01.85			0.42
			eSg		15:14.26		-0.68
EGYH	98.1	252	eSg	11:15:15.60			0.30
PKB1	102.1	171	ePg	11:15:03.33			0.97
			eSg		15:17.51		0.93
MODS	122.8	308	ePg	11:15:04.60			-1.46
MORH	164.0	178	ePn	11:15:10.05			-1.56
PKSM	164.4	178	ePn	11:15:10.82			-0.84

9.

2017-01-17 time: 9:38:58.44 UTC ML= 0.3
 lat: 47.160N lon: 18.229E h= 0.0 km
 erh= 1.7km erz= 214km
 nr= 6 gap=281 rms=0.13
 Locality: Ósi
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	18.4	307	ePg	9:39:01.74			0.01
			eSg		39:04.34		0.05
CSKK	22.7	6	ePgD	9:39:02.46			-0.04
			eSg		39:05.36		-0.30
PKSG	28.5	25	ePg	9:39:03.55			0.01
			eSg		39:07.75		0.24

10.

2017-01-17 time: 9:42:50.77 UTC ML= 0.6
 lat: 47.149N lon: 18.227E h= 0.0 km
 erh= 3.0km erz= 376km
 nr= 6 gap=285 rms=0.22
 Locality: Ósi
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	19.1	310	ePgC	9:42:54.30			0.13
			eSg		42:56.85		0.02
CSKK	24.0	6	ePgD	9:42:54.98			-0.07
			eSg		42:57.89		-0.49
PKSG	29.7	25	ePg	9:42:55.99			-0.09
			eSg		43:00.65		0.44

11.

2017-01-17 time: 9:45:39.80 UTC ML= 0.3
 lat: 47.191N lon: 18.227E h= 0.0 km
 erh= 2.2km erz= 270km
 nr= 5 gap=268 rms=0.12
 Locality: Csór
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	16.5	297	ePg	9:45:42.59			-0.15
			eSg		45:45.18		0.15
CSKK	19.3	8	ePg	9:45:43.29			0.04
			eSg		45:45.79		-0.15
PKSG	25.5	29	ePg	9:45:44.47			0.11

12.

2017-01-19 time: 15:56:02.33 UTC ML= 0.6
 lat: 45.759N lon: 18.020E h= 14.1 km
 erh= 6.1km erz= 3.8km
 nr= 9 gap=318 rms=0.63
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKSV	23.1	51	ePg	15:56:07.81			0.64
			eSg		56:11.84		0.90
KOVH	37.1	10	ePgD	15:56:09.07			-0.36
			eSg		56:14.66		-0.30
PKSM	69.7	44	ePg	15:56:14.98			-0.05
			eSg		56:24.83		-0.10
MORH	70.2	44	ePg	15:56:14.36			-0.75
			eSg		56:24.49		-0.59
PKB4	93.6	29	eS*	15:56:33.43			1.43

13.

2017-01-20 time: 10:31:26.88 UTC ML= 1.5
 lat: 47.870N lon: 19.124E h= 0.0 km
 erh= 3.2km erz= 502km
 nr= 5 gap=216 rms=0.28
 Locality: Szendehely
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PENC	14.7	127	ePg	10:31:29.34			-0.17
			eSg		31:31.83		0.27

Földrengés paraméterek

PSZ 57.9 85 eSg 10:31:44.91 -0.36
 VYHS 72.6 343 ePg 10:31:40.20 0.35
 eSg 31:49.80 -0.17

14.

2017-01-20 time: 11:15:51.57 UTC ML= 1.4
 lat: 48.643N lon: 20.753E h= 0.0 km
 erh= 1.7km erz= 3.4km
 nr= 13 gap= 82 rms=0.51
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	26.5	228	ePg	11:15:55.90	-0.40
			eSg	15:59.80	-0.19
ABAH	52.7	137	ePg	11:16:00.75	-0.23
			eSg	16:06.39	-1.93
CRVS	59.5	61	ePg	11:16:02.70	0.50
			eSg	16:10.90	0.41
STHS	93.3	23	eSg	11:16:20.40	-0.82
PSZ	102.7	218	ePg	11:16:10.30	0.40
			eSg	16:23.69	-0.51
LANS	109.9	301	ePg	11:16:11.40	0.21
			eSg	16:27.20	0.71
VYHS	142.4	263	ePn	11:16:16.80	0.44
			eSn	16:34.50	-1.20

15.

2017-01-23 time: 9:13:40.94 UTC ML= 1.2
 lat: 47.334N lon: 18.467E h= 0.0 km
 erh= 1.1km erz= 238km
 nr= 7 gap=216 rms=0.16
 Locality: Lovasberény
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.7	318	ePgC	9:13:42.58	0.10
			eSg	13:43.32	-0.37
CSKK	16.0	282	ePg	9:13:43.84	0.05
			eSg	13:45.84	-0.17
PKST	33.8	256	eSg	9:13:51.83	0.15
MORH	125.0	174	eSg	9:14:20.55	-0.13
PKSM	125.4	174	eSg	9:14:20.96	0.15

16.

2017-01-23 time: 9:24:44.01 UTC ML= 1.1
 lat: 47.341N lon: 18.477E h= 0.0 km
 erh= 1.7km erz= 312km
 nr= 7 gap=223 rms=0.21
 Locality: Lovasberény
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.6	311	ePgC	9:24:45.68	0.13
			eSg	24:46.27	-0.49
CSKK	16.5	279	ePg	9:24:46.98	0.02
			eSg	24:49.07	-0.20
PKST	34.7	255	ePg	9:24:50.46	0.26
			eSg	24:55.07	0.04
PKSM	126.1	174	eSg	9:25:23.93	-0.16

17.

2017-01-23 time: 10:44:09.83 UTC ML= 1.4
 lat: 48.567N lon: 20.791E h= 0.0 km
 erh= 2.2km erz= 3.1km
 nr= 11 gap=115 rms=0.81
 Locality: Tornanádaska
 Comments: probably explosion

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
KECS	24.4	247	ePg	10:44:14.20	0.01
			eSg	44:18.20	0.62
ABAH	44.9	132	ePg	10:44:19.27	1.42
			eSg	44:23.85	-0.25
CRVS	61.8	53	ePg	10:44:21.00	0.13
			eSg	44:28.90	-0.58
STHS	100.1	19	ePg	10:44:28.40	0.69
LANS	116.7	304	ePg	10:44:30.10	-0.58
TRPA	138.4	111	eSn	10:44:51.43	-1.64
VYHS	144.6	267	ePn	10:44:34.90	0.01
			eSn	44:52.70	-1.74

18.

2017-01-24 time: 11:05:24.80 UTC ML= 1.4
 lat: 48.585N lon: 20.795E h= 0.0 km
 erh= 2.0km erz= 4.0km
 nr= 9 gap=136 rms=0.61
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.5	244	ePg	11:05:29.20	-0.16
			eSg	05:33.10	0.19
ABAH	46.0	134	ePg	11:05:33.52	0.51
			eSg	05:39.27	-0.14
CRVS	60.4	54	ePg	11:05:36.30	0.72
			eSg	05:44.40	0.41
STHS	98.1	20	ePg	11:05:42.20	-0.12
			eSg	05:54.60	-1.39
TRPA	138.8	111	eSn	11:06:06.93	-1.19

19.

2017-01-24 time: 12:18:16.53 UTC ML= 2.0
 lat: 47.373N lon: 19.066E h= 5.8 km
 erh= 1.5km erz= 1.9km
 nr= 32 gap= 73 rms=0.72
 Locality: Dunaharaszti
 Comments: felt 4 EMS

sta	dist	azm	phase	hr mn sec	res
BUD	12.7	345	ePg	12:18:18.77	-0.26
			eSg	18:20.37	-0.61
PENC	49.2	19	ePg	12:18:25.09	-0.28
			eSg	18:31.35	-0.92
PKSG	51.1	272	ePg	12:18:25.72	0.01
			eSg	18:32.82	-0.05
CSKK	60.9	269	ePg	12:18:27.70	0.25
PKB1	68.7	198	ePg	12:18:28.30	-0.53
			eSg	18:38.62	0.19
PKB2	78.8	170	ePg	12:18:31.16	0.52
			eSg	18:41.16	-0.48
PKSN	80.6	131	ePg	12:18:31.70	0.75
			eSg	18:43.79	1.59
PSZ	86.9	46	ePg	12:18:32.01	-0.07
			eSg	18:41.93	-2.28
PKB5	90.1	196	ePg	12:18:33.06	0.42
			eSg	18:44.61	-0.61
TIH	103.4	239	ePg	12:18:35.22	0.20
			eSg	18:49.88	0.44
PKB4	103.6	200	ePg	12:18:35.25	0.19
			eSg	18:47.76	-1.76
PKB3	106.0	175	ePg	12:18:35.64	0.16
			eSg	18:48.24	-2.02
MPLH	117.7	259	ePn	12:18:37.76	0.27
			eSn	18:53.36	-0.49
VYHS	125.8	352	ePn	12:18:38.70	0.20
			eSn	18:52.50	-3.15*
KOVH	160.8	207	ePn	12:18:41.41	-1.45
			eSn	18:59.57	-3.83*
MODS	174.1	310	ePn	12:18:45.20	0.68
			eSn	19:04.60	-1.75
ABAH	192.4	58	ePn	12:18:48.57	1.77

Hypocenter Parameters

Földrengés paraméterek

eSn 19:11.80 1.39

20.

2017-01-24 time: 12:55:46.72 UTC ML= 0.2
 lat: 47.337N lon: 18.287E h= 0.0 km
 erh= 8.5km erz= 771km
 nr= 6 gap=193 rms=0.18
 Locality: Csákberény
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	3.5	326	ePg	12:55:47.27	-0.08
			eSg	55:47.94	0.10
PKSG	9.9	52	ePgD	12:55:48.50	0.00
			eSg	55:49.88	-0.01
PKST	21.0	246	ePg	12:55:50.28	-0.19
			eSg	55:53.98	0.60

21.

2017-01-26 time: 10:16:08.92 UTC ML= 1.6
 lat: 48.626N lon: 20.733E h= 0.0 km
 erh= 4.8km erz= 7.0km
 nr= 8 gap=156 rms=0.84
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.2	229	ePg	10:16:13.10	-0.14
			eSg	16:17.00	0.38
ABAH	52.4	134	ePg	10:16:19.47	1.19
			eSg	16:24.33	-1.25
CRVS	61.7	60	ePg	10:16:20.00	0.06
			eSg	16:27.50	-1.03
VYHS	140.8	264	ePn	10:16:34.40	0.89
			eSn	16:51.60	-1.09

22.

2017-01-27 time: 1:24:42.17 UTC ML= 1.0
 lat: 47.447N lon: 18.299E h= 8.8 km
 erh= 1.6km erz= 1.1km
 nr= 24 gap=112 rms=0.52
 Locality: Oroszlány
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	9.2	131	ePgC	1:24:44.16	-0.29
			eSg	24:46.04	-0.19
CSKK	9.7	197	ePgC	1:24:44.29	-0.23
			eSg	24:46.17	-0.18
PKST	28.9	224	ePgD	1:24:47.28	-0.29
			eSg	24:51.64	-0.14
MPLH	65.1	242	ePgD	1:24:53.99	0.08
			eSg	25:03.94	0.88
TIH	68.1	207	eSg	1:25:04.01	0.00
EGYH	73.0	267	eSg	1:25:05.23	-0.32
PKB1	82.6	153	ePg	1:24:57.95	0.94
			eSg	25:09.25	0.67
PKB5	100.4	161	ePg	1:25:00.54	0.38
			eSg	25:12.75	-1.44
PKB4	108.2	168	eP*	1:25:02.13	0.58
			eS*	25:15.36	-1.31
VYHS	123.2	19	ePn	1:25:03.30	-0.13
			eSn	25:17.80	-2.22
MODS	128.3	323	ePn	1:25:04.80	0.73
PKB3	132.6	149	eSn	1:25:21.98	-0.14
MORH	139.4	169	ePn	1:25:05.32	-0.13
			eSn	25:21.01	-2.61*
PKSM	139.8	169	ePn	1:25:05.22	-0.28
			eSn	25:21.33	-2.37*

23.

2017-01-28 time: 4:37:54.43 UTC ML=-0.2
 lat: 47.279N lon: 18.333E h= 2.0 km
 erh= 1.0km erz= 6.1km
 nr= 6 gap=245 rms=0.02
 Locality: Magyaralmás
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	10.8	329	ePg	4:37:56.41	0.01
			eSg	37:57.93	0.00
PKSG	13.2	19	ePg	4:37:56.80	-0.02
			eSg	37:58.70	0.01
PKST	22.7	264	ePg	4:37:58.54	0.03
			eSg	38:01.66	-0.03

24.

2017-01-29 time: 21:52:53.99 UTC ML=-0.3
 lat: 47.376N lon: 18.291E h= 0.1 km
 erh= 0.4km erz= 1.7km
 nr= 5 gap=198 rms=0.19
 Locality: Csókakő
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	2.7	238	ePg	21:52:54.23	-0.24
			eSg	52:54.89	0.05
PKSG	7.8	77	ePg	21:52:55.26	-0.11
			eSg	52:56.69	0.24
PKST	23.3	236	eSg	21:53:01.66	0.25

25.

2017-01-30 time: 8:54:35.08 UTC ML= 0.9
 lat: 47.438N lon: 18.414E h= 0.0 km
 erh= 3.7km erz= 366km
 nr= 5 gap=324 rms=0.17
 Locality: Várgesztes
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	5.4	199	ePgC	8:54:36.09	0.04
			eSg	54:36.63	-0.18
CSKK	14.3	234	ePgC	8:54:37.42	-0.21
			eSg	54:39.82	0.21
PKST	34.9	235	ePg	8:54:41.52	0.21

26.

2017-01-30 time: 8:58:21.54 UTC ML= 1.0
 lat: 48.568N lon: 20.767E h= 0.0 km
 erh= 2.3km erz= 4.2km
 nr= 7 gap=147 rms=0.55
 Locality: Tornanádaska
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.8	246	ePg	8:58:25.60	-0.01
			eSg	58:29.70	0.91
ABAH	46.3	131	ePg	8:58:29.88	0.07
			eSg	58:36.06	-0.19
CRVS	63.2	54	ePg	8:58:32.40	-0.43
			eSg	58:42.30	0.67
VYHS	142.8	267	eSn	8:59:04.50	-1.26

Földrengés paraméterek

Hypocenter Parameters

27.

2017-02-02 time: 9:44:57.84 UTC ML= 1.2
 lat: 48.573N lon: 20.791E h= 0.0 km
 erh= 1.9km erz= 2.4km
 nr= 9 gap=147 rms=0.63
 Locality: Tornanádaska
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.6	246	ePg	9:45:02.20	-0.04
			eSg	45:06.30	0.63
ABAH	45.3	133	ePg	9:45:06.34	0.42
			eSg	45:12.43	0.20
CRVS	61.4	53	ePg	9:45:09.10	0.29
			eSg	45:16.90	-0.47
TRPA	138.6	111	ePn	9:45:22.42	0.26
			eSn	45:39.08	-2.04
VYHS	144.6	267	eSn	9:45:41.10	-1.36

28.

2017-02-02 time: 12:14:03.45 UTC ML= 1.7
 lat: 47.845N lon: 19.082E h= 0.0 km
 erh= 5.3km erz= 462km
 nr= 5 gap=234 rms=0.21
 Locality: Szendehely
 Comments: probably explosion

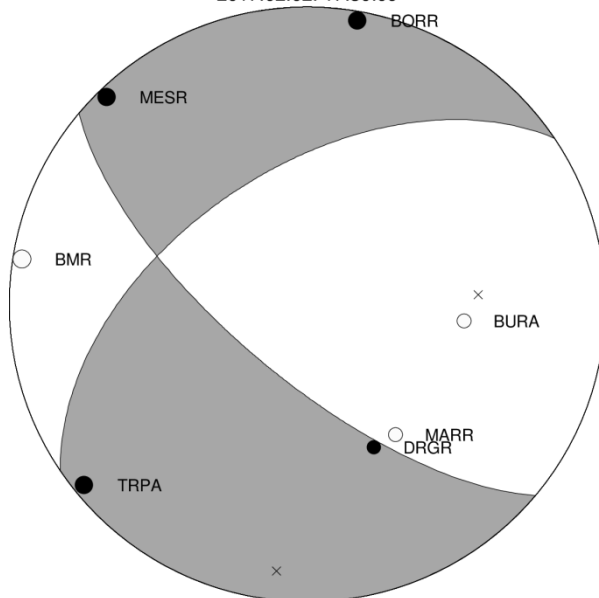
sta	dist	azm	phase	hr mn sec	res
PENC	16.2	112	ePg	12:14:06.13	-0.20
			eSg	14:08.64	0.06
VYHS	74.4	346	ePg	12:14:17.00	0.26
			eSg	14:26.80	-0.30
KECS	126.3	56	ePg	12:14:26.10	0.11

29.

2017-02-02 time: 17:30:09.72 UTC ML= 2.1
 lat: 47.833N lon: 21.982E h= 3.8 km
 erh= 2.4km erz= 2.5km
 nr= 20 gap= 79 rms=0.88
 Locality: Kisléta
 Comments:

sta	dist	azm	phase	hr mn sec	res
TRPA	53.2	51	PgC	17:30:20.16	0.92
			Sg	30:26.80	0.14
ABAH	75.6	313	ePg	17:30:23.77	0.53
			eSg	30:32.80	-0.99
BORR	83.9	190	PgC	17:30:24.11	-0.60
MESR	105.2	136	PgC	17:30:28.70	0.18
			Sg	30:41.90	-1.29
BMR	115.0	99	PgD	17:30:30.40	0.14
			Sg	30:45.20	-1.08
CRVS	125.0	342	ePn	17:30:31.50	-0.35
			eSn	30:47.10	-2.02
DRGR	128.2	155	PnC	17:30:32.08	-0.17
			Sn	30:49.20	-0.62
KECS	132.8	303	ePn	17:30:32.50	-0.32
			eSn	30:48.70	-2.14
MARR	154.7	146	PnD	17:30:37.17	1.62
STHS	184.4	343	Sn	30:56.20	0.49
			eSn	17:31:03.80	1.51
PENC	202.3	269	eSn	17:31:09.34	3.07
BURA	243.9	96	PnD	17:30:48.26	1.59

2017.02.02. 17:30:09



30.

2017-02-03 time: 10:22:05.49 UTC ML= 0.9
 lat: 48.584N lon: 20.786E h= 0.0 km
 erh= 2.6km erz= 4.7km
 nr= 10 gap=114 rms=0.75
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.8	243	ePg	10:22:09.80	-0.13
			eSg	22:13.90	0.51
ABAH	46.4	134	ePg	10:22:14.14	0.36
			eSg	22:20.15	-0.09
CRVS	61.0	55	ePg	10:22:16.60	0.21
			eSg	22:24.50	-0.38
STHS	98.5	20	ePg	10:22:24.30	1.22
			eSg	22:35.00	-1.80
VYHS	144.3	266	ePn	10:22:30.40	-0.12
			eSn	22:48.60	-1.45

31.

2017-02-06 time: 9:28:42.84 UTC ML= 0.3
 lat: 47.187N lon: 18.227E h= 0.0 km
 erh= 1.2km erz= 151km
 nr= 6 gap=270 rms=0.09
 Locality: Csór
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	16.6	299	ePg	9:28:45.78	-0.03
			eSg	28:48.12	-0.01
CSKK	19.7	7	ePg	9:28:46.39	0.03
			eSg	28:49.16	0.05
PKSG	25.9	29	ePg	9:28:47.58	0.11
			eSg	28:50.88	-0.19

32.

2017-02-06 time: 9:30:03.58 UTC ML= 1.4
 lat: 48.591N lon: 20.795E h= 0.0 km
 erh= 1.9km erz= 3.2km
 nr= 11 gap=114 rms=0.74
 Locality: Slovakia
 Comments: probably explosion

Hypocenter Parameters

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
KECS	25.8	242	ePg	9:30:08.00	-0.18
			eSg	30:11.90	0.12
ABAH	46.5	135	ePg	9:30:12.45	0.57
			eSg	30:18.43	0.07
CRVS	60.0	55	ePg	9:30:15.00	0.71
			eSg	30:23.20	0.55
STHS	97.5	20	ePg	9:30:21.40	0.41
			eSg	30:33.20	-1.36
TRPA	139.1	112	eSn	9:30:45.54	-1.42
VYHS	145.0	266	ePn	9:30:28.50	-0.19
			eSn	30:44.60	-3.68

33.

2017-02-06 time: 9:32:46.23 UTC ML= 0.3
 lat: 47.147N lon: 18.229E h= 0.0 km
 erh= 4.2km erz= 548km
 nr= 6 gap=286 rms=0.33
 Locality: Ősi
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	19.3	310	ePg	9:32:49.76	0.09
			eSg	32:52.32	-0.03
CSKK	24.1	6	ePg	9:32:50.45	-0.08
			eSg	32:53.19	-0.70
PKSG	29.8	24	ePg	9:32:51.58	0.03
			eSg	32:56.37	0.67

34.

2017-02-06 time: 9:36:26.80 UTC ML= 0.2
 lat: 47.181N lon: 18.200E h= 0.0 km
 erh= 2.4km erz= 303km
 nr= 6 gap=273 rms=0.18
 Locality: Csőr
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	15.3	305	ePgD	9:36:29.59	0.06
			eSg	36:31.69	0.03
CSKK	20.8	13	ePgD	9:36:30.23	-0.28
			eSg	36:33.30	-0.10
PKSG	27.5	32	ePg	9:36:31.96	0.24
			eSg	36:35.68	0.13

35.

2017-02-06 time: 10:45:36.36 UTC ML= 1.3
 lat: 47.696N lon: 18.486E h= 0.0 km
 erh= 2.7km erz= 4.4km
 nr= 17 gap=151 rms=1.11
 Locality: Héreg
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
SRO	18.4	315	ePg	10:45:40.10	0.46
			eSg	45:43.50	1.30
PKSG	34.6	192	ePg	10:45:43.09	0.55
			eSg	45:48.07	0.71
CSKK	40.8	205	ePg	10:45:43.68	0.04
			eSg	45:48.73	-0.59
PKST	59.4	215	eSg	10:45:56.31	1.08
			VYHS	92.4	16
PKB1	104.0	167	eSg	46:03.60	-2.14
			ePg	10:45:55.51	0.58
MODS	117.5	310	eSg	46:09.35	-0.07
			ePg	10:45:57.20	-0.14
MORH	165.0	176	eSg	46:11.80	-1.90
			ePn	10:46:02.72	-1.25
PKSM	165.5	176	eSn	46:21.93	-3.58
			ePn	10:46:01.89	-2.13
			eSn	46:21.95	-3.65

36.

2017-02-07 time: 11:15:55.19 UTC ML= 1.6
 lat: 45.518N lon: 17.972E h= 1.9 km
 erh= 3.9km erz= 2.6km
 nr= 14 gap=264 rms=0.51
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	46.6	28	ePg	11:16:04.11	0.59
			eSg	16:08.90	-1.12
KOVH	64.1	9	ePgC	11:16:06.79	0.14
			eSg	16:15.82	0.23
PKSM	93.0	34	ePg	11:16:11.27	-0.53
			eSg	16:25.27	0.51
MORH	93.5	34	ePg	11:16:11.39	-0.50
			eSg	16:24.39	-0.52
PKB4	119.2	24	ePg	11:16:15.95	-0.54
			eSg	16:33.41	0.31
PKB3	138.3	43	ePn	11:16:19.41	0.18
PKB1	154.4	24	ePn	11:16:22.02	0.79
			eSn	16:42.47	0.93
KOGS	168.8	308	eSn	11:16:44.67	-0.07

37.

2017-02-07 time: 11:18:57.17 UTC ML= 1.4
 lat: 48.617N lon: 20.816E h= 0.0 km
 erh= 1.9km erz= 2.5km
 nr= 9 gap=198 rms=0.39
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	28.6	239	ePg	11:19:02.30	0.04
			eSg	19:06.50	0.26
ABAH	47.5	139	ePg	11:19:06.10	0.46
			eSg	19:11.69	-0.57
PSZ	103.5	221	eSg	11:19:30.12	0.06
LANS	115.3	301	ePg	11:19:17.70	-0.06
			eSg	19:33.50	-0.32
PENC	146.5	231	eSn	11:19:40.66	-1.53
VYHS	146.8	265	eSn	11:19:42.60	0.34

38.

2017-02-08 time: 9:27:40.89 UTC ML= 1.2
 lat: 48.587N lon: 20.824E h= 0.0 km
 erh= 2.0km erz= 2.4km
 nr= 10 gap=147 rms=0.70
 Locality: Tornanádaska
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	27.6	245	ePg	9:27:45.60	-0.21
			eSg	27:49.80	0.15
ABAH	44.6	137	ePg	9:27:49.59	0.74
			eSg	27:55.41	0.34
CRVS	58.5	53	ePg	9:27:52.20	0.86
			eSg	27:59.00	-0.48
TRPA	136.8	112	ePn	9:28:04.76	-0.22
			eSn	28:22.44	-1.34
VYHS	147.2	266	ePn	9:28:06.30	0.02
			eSn	28:24.00	-2.08

39.

2017-02-09 time: 8:44:11.20 UTC ML= 1.6
 lat: 47.461N lon: 18.390E h= 0.0 km
 erh= 3.3km erz= 409km
 nr= 6 gap=310 rms=0.25
 Locality: Várgesztes
 Comments: probably explosion

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
PKSG	7.7	180	ePg	8:44:12.66	0.08
			eSg	44:13.65	-0.01
CSKK	14.7	222	ePg	8:44:13.92	0.10
			eSg	44:16.13	0.26
PKST	35.1	230	ePg	8:44:17.42	-0.05
			eSg	44:21.57	-0.78

40.

2017-02-10 time: 8:46:52.59 UTC ML= 1.9
 lat: 47.407N lon: 18.131E h= 10.0 km
 erh= 1.6km erz= 1.3km
 nr= 41 gap= 48 rms=0.86
 Locality: Felsődobos
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	10.9	116	ePgC	8:46:54.81	-0.43
			eSg	46:56.21	-1.09
PKST	18.0	204	ePgD	8:46:56.18	-0.09
PKSG	19.7	95	ePgD	8:46:55.92	-0.61
SRO	47.2	17	ePg	8:47:02.20	0.99
			eSg	47:09.00	1.07
MPLH	51.9	240	ePg	8:47:02.79	0.76
			eSg	47:10.82	1.43
EGYH	60.3	271	ePg	8:47:02.28	-1.23
			eSg	47:11.68	-0.34
BUD	67.9	83	eSg	8:47:13.64	-0.76
			ePg	8:47:07.79	-0.18
PKB1	85.5	144	ePg	8:47:07.79	-0.18
			eSg	47:19.40	-0.56
PKS7	87.7	117	ePg	8:47:09.00	0.66
			eSg	47:20.90	0.27
PKS9	91.9	173	ePg	8:47:10.99	1.90
			eSg	47:21.54	-0.42
PENC	96.5	64	ePg	8:47:09.48	-0.43
			eSg	47:23.26	-0.16
PKB5	101.3	153	ePg	8:47:11.60	0.83
			eSg	47:23.79	-1.16
PKB4	107.5	160	ePn	8:47:12.81	1.07
			eSn	47:25.45	-1.23
ZST	116.8	319	eSn	8:47:27.00	-1.75
PKB2	117.3	134	ePn	8:47:13.77	0.80
			eSn	47:28.23	-0.64
MODS	125.0	329	ePn	8:47:13.90	-0.03
			eSn	47:28.80	-1.78
VYHS	131.8	24	ePn	8:47:15.10	0.32
			eSn	47:31.70	-0.40
PKB3	136.1	143	eSn	8:47:32.20	-0.84
			ePn	8:47:15.60	0.04
MORH	138.1	164	eSn	47:31.31	-2.17
			ePn	8:47:15.59	-0.02
PKSM	138.5	164	eSn	47:31.31	-2.26
			Pn	8:47:17.50	1.47
RONA	141.9	283	Sn	47:33.76	-0.56
			ePn	8:47:16.68	0.36
PSZ	144.2	67	eSn	47:35.01	0.18
			Pn	8:47:20.46	-0.33
CONA	180.0	289	Pn	8:47:20.46	-0.33
			Sn	47:39.33	-3.46*

41.

2017-02-10 time: 10:04:02.20 UTC ML= 1.1
 lat: 48.591N lon: 20.733E h= 0.0 km
 erh= 2.8km erz= 4.7km
 nr= 11 gap=113 rms=0.78
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	21.8	237	ePg	10:04:06.20	0.10
			eSg	04:10.40	1.26
ABAH	49.8	131	ePg	10:04:12.27	1.18
			eSg	04:17.06	-0.97

Hypocenter Parameters

CRVS	63.8	57	ePg	10:04:13.10	-0.49
PSZ	97.3	220	ePg	10:04:20.12	0.54
			eSg	04:31.82	-1.31
LANS	111.7	304	ePg	10:04:22.00	-0.15
			eSg	04:37.70	-0.02
VYHS	140.5	266	ePn	10:04:27.00	0.25
			eSn	04:44.60	-1.30

42.

2017-02-10 time: 10:33:24.55 UTC ML= 0.9
 lat: 47.528N lon: 18.547E h= 0.0 km
 erh= 3.8km erz= 658km
 nr= 9 gap=206 rms=0.49
 Locality: Nagygyháza
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	19.2	218	ePg	10:33:28.10	0.13
			eSg	33:30.92	0.28
CSKK	28.3	230	ePg	10:33:29.19	-0.42
			eSg	33:33.28	-0.27
SRO	36.2	331	eSg	10:33:36.60	0.53
PKST	48.9	232	ePg	10:33:33.84	0.56
			eSg	33:39.31	-0.78
VYHS	109.6	11	ePg	10:33:44.50	0.38
			eSg	33:58.50	-0.88

43.

2017-02-10 time: 19:54:49.12 UTC ML= 2.5
 lat: 45.959N lon: 21.348E h= 8.6 km
 erh= 1.4km erz= 1.4km
 nr= 50 gap= 72 rms=0.89
 Locality: Romania
 Comments:

sta	dist	azm	phase	hr mn sec	res
TIM	26.6	202	PgC	19:54:54.15	0.04
			Sg	54:58.70	0.69
SIRR	41.9	35	PgC	19:54:56.86	0.11
			Sg	55:02.00	-0.71
BZS	43.4	151	PgC	19:54:56.76	-0.27
			Sg	55:02.10	-1.09
SURR	64.5	111	PgC	19:55:00.33	-0.41
			Sg	55:08.00	-1.80
AMBH	64.8	312	ePgC	19:55:01.45	0.67
			eSg	55:10.42	0.54
BANR	66.2	194	PgC	19:55:01.22	0.18
			Sg	55:10.60	0.26
GZR	127.9	119	PnC	19:55:10.73	-0.26
			Sn	55:26.80	-1.26
DRGR	139.9	49	PnC	19:55:12.80	0.31
			Sn	55:29.70	-1.02
PKS6	154.8	297	ePnD	19:55:14.70	0.35
			eSn	55:32.71	-1.32
MARR	158.0	60	PnD	19:55:15.35	0.61
PKB3	174.0	287	ePn	19:55:16.63	-0.12
			eSn	55:37.30	-1.00
PKS2	175.0	290	ePn	19:55:16.88	0.01
			eSn	55:40.07	1.56
RMGR	178.6	144	PnC	19:55:18.28	0.97
PKB2	180.6	296	ePn	19:55:15.42	-2.15
CJR	192.5	64	PnC	19:55:20.18	1.13
			Sn	55:44.10	1.70
LOT	197.0	107	PnC	19:55:21.59	1.98
			Sn	55:44.80	1.40
PKS7	206.9	306	ePn	19:55:21.83	0.99
			eSn	55:49.48	3.89*
MORH	211.0	278	ePn	19:55:20.55	-0.81
			eSn	55:43.13	-3.38*
PKSM	211.2	278	ePn	19:55:20.63	-0.75
			eSn	55:43.15	-3.40*
PKB5	213.4	289	ePn	19:55:21.66	0.01
			eSn	55:44.69	-2.34

Hypocenter Parameters

Földrengés paraméterek

PKB1 217.0 295 ePn 19:55:22.50 0.40
 eSn 55:46.40 -1.43
 PKB4 219.9 286 ePn 19:55:22.05 -0.42
 eSn 55:44.93 -3.56*
 PSZ 244.3 333 ePn 19:55:25.65 0.14
 eSn 55:51.47 -2.42
 BMR 251.4 41 Sn 19:55:57.20 1.73
 KOVH 251.9 273 ePn 19:55:25.48 -0.98
 PENC 257.4 322 ePn 19:55:27.45 0.31
 TRPA 257.8 21 Sn 19:55:58.90 2.01
 ARR 264.4 104 Sn 19:55:59.90 1.54
 VOIR 294.1 101 PnD 19:55:32.88 1.16
 Sn 56:06.70 1.75*
 VYHS 340.0 326 ePn 19:55:38.00 0.56*
 eSn 56:14.80 -0.33*
 BUR4 348.1 58 PnC 19:55:40.01 1.56*
 Sn 56:18.10 1.17*
 MODS 409.0 311 eSn 19:56:27.20 -3.25*

44.

2017-02-12 time: 7:45:30.31 UTC ML= 0.4
 lat: 47.383N lon: 18.236E h= 10.1 km
 erh= 1.5km erz= 0.4km
 nr= 6 gap=217 rms=0.03
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	2.9	140	ePgC	7:45:32.15	-0.03
			eSg	45:33.65	0.01
PKSG	11.7	85	ePg	7:45:33.07	0.00
			eSg	45:35.22	0.00
PKST	20.5	228	ePg	7:45:34.44	0.05
			eSg	45:37.55	-0.03

45.

2017-02-12 time: 7:57:42.99 UTC ML=-0.1
 lat: 47.302N lon: 18.297E h= 0.2 km
 erh= 0.7km erz=36.9km
 nr= 5 gap=221 rms=0.14
 Locality: Söréd
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	7.3	338	ePg	7:57:44.13	-0.16
			eSg	57:45.33	0.02
PKSG	12.2	35	ePg	7:57:45.09	-0.08
			eSg	57:47.10	0.23
PKST	20.4	256	eSg	7:57:49.62	0.14

46.

2017-02-12 time: 20:17:04.51 UTC ML= 2.3
 lat: 46.078N lon: 16.539E h= 10.0 km
 erh= 1.9km erz= 1.5km
 nr= 61 gap=147 rms=0.88
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOGS	46.8	332	ePg	20:17:13.05	-0.01
			eSg	17:18.88	-0.85
BEHE	47.3	23	ePg	20:17:13.42	0.28
			eSg	17:20.20	0.33
PTJ	49.2	246	ePg	20:17:13.59	0.12
			eSg	17:20.20	-0.26
GOLS	71.2	264	iPg	20:17:17.62	0.27
GCIS	74.4	252	iPg	20:17:18.33	0.41
DOBS	83.1	276	iPg	20:17:19.19	-0.27
CRÉS	88.4	252	iPg	20:17:20.44	0.03
GROS	90.6	298	iPgD	20:17:20.23	-0.56
			eSg	17:31.04	-2.44
LEGS	95.7	261	iPg	20:17:21.52	-0.17

eSg 17:34.64 -0.45
 PDKS 119.3 269 iPn 20:17:25.19 0.05
 PERS 125.8 300 ePn 20:17:25.61 -0.35
 SOKA 133.7 300 Pn 20:17:27.48 0.54
 Sn 17:43.12 -1.32
 PKSV 134.4 99 ePn 20:17:26.45 -0.57
 eSn 17:42.28 -2.31
 VISS 135.3 257 iPn 20:17:27.62 0.48
 TIH 138.4 49 ePn 20:17:27.24 -0.29
 eSn 17:46.02 0.54
 VNDS 142.2 271 iPn 20:17:28.37 0.38
 PKS9 145.4 67 ePn 20:17:27.65 -0.75
 eSn 17:49.16 2.13
 ARSA 151.8 329 Pn 20:17:29.56 0.37
 Sn 17:48.46 0.01
 OBKA 160.7 287 Pn 20:17:30.82 0.52
 Sn 17:50.33 -0.09
 EGYH 160.8 22 ePn 20:17:30.25 -0.06
 eSn 17:51.28 0.85
 PKSM 163.1 85 ePnC 20:17:29.45 -1.15
 eSn 17:52.86 1.90
 MORH 163.4 85 ePnC 20:17:29.50 -1.14
 eSn 17:47.89 -3.12
 PKB4 165.8 74 ePn 20:17:33.73 2.79
 eSn 17:53.41 1.86
 PKST 174.2 41 ePnD 20:17:31.45 -0.53
 eSn 17:55.95 2.54
 SOP 178.5 0 ePn 20:17:33.29 0.77
 eSn 17:51.95 -2.42
 PKB5 178.6 71 ePn 20:17:36.27 3.73
 eSn 17:57.68 3.28
 RONA 181.3 354 Pn 20:17:33.34 0.47
 PKB1 190.2 66 ePn 20:17:32.93 -1.05
 eSn 18:00.45 3.49
 PKSG 203.4 44 ePn 20:17:34.97 -0.66
 PKB3 208.4 79 ePn 20:17:35.21 -1.04
 CONA 212.1 346 Pn 20:17:37.52 0.81
 PKB2 218.3 72 ePn 20:17:43.19 5.71*
 MYKA 231.3 285 Pn 20:17:40.32 1.21
 SRO 235.5 35 ePn 20:17:40.30 0.67
 eSn 18:06.50 -0.53
 ZST 239.4 10 ePn 20:17:40.10 -0.01
 eSn 18:05.50 -2.38
 MODS 261.3 12 ePn 20:17:42.50 -0.35
 eSn 18:09.80 -2.95
 MOA 262.2 319 Pn 20:17:44.56 1.61
 Sn 18:12.83 -0.11
 KBA 269.0 294 Pn 20:17:44.55 0.75
 BIOA 284.7 309 Pn 20:17:47.27 1.50
 ABTA 318.4 284 Pn 20:17:50.93 0.96*
 Sn 18:40.70 15.27*
 VYHS 320.0 33 ePn 20:17:49.70 -0.46*
 eSn 18:22.40 -3.37*
 WTTA 397.7 289 Pn 20:18:01.91 2.06*
 KHC 406.0 327 ePn 20:18:02.40 1.51*
 eSn 18:43.10 -1.76*
 KRLC 444.9 2 ePn 20:18:05.40 -0.34*
 eSn 18:49.60 -3.89*
 DPC 475.4 358 ePn 20:18:10.00 0.46*
 eSn 19:17.30 17.04*
 NKC 553.3 327 ePn 20:18:19.20 -0.06*

47.

2017-02-13 time: 8:11:01.10 UTC ML= 0.5
 lat: 47.168N lon: 18.219E h= 0.0 km
 erh= 5.2km erz= 511km
 nr= 5 gap=278 rms=0.24
 Locality: Ősi
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	17.2	306	ePg	8:11:04.07	-0.11
			eSg	11:06.58	0.00
CSKK	21.9	8	ePg	8:11:04.74	-0.28

Földrengés paraméterek

PKSG 28.1 28 ePg 8:11:06.54 0.42
eSg 11:10.03 0.00

48.

2017-02-13 time: 8:14:06.80 UTC ML= 0.2
lat: 47.177N lon: 18.200E h= 0.0 km
erh= 4.5km erz= 545km
nr= 5 gap=275 rms=0.26

Locality: Ósi
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	15.5	306	ePg	8:14:09.56	-0.02
			eSg	14:12.05	0.31
CSKK	21.2	12	ePg	8:14:10.18	-0.41
			eSg	14:13.47	-0.07
PKSG	27.9	31	ePg	8:14:12.03	0.25

49.

2017-02-13 time: 11:29:34.74 UTC ML= 1.5
lat: 48.621N lon: 20.799E h= 0.0 km
erh= 1.9km erz= 2.9km
nr= 14 gap=116 rms=0.58

Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	27.8	236	ePg	11:29:39.60	-0.10
			eSg	29:43.90	0.34
ABAH	48.7	138	ePg	11:29:43.11	-0.32
			eSg	29:48.88	-1.33
CRVS	57.9	57	ePg	11:29:45.30	0.23
			eSg	29:53.50	0.36
PSZ	103.0	221	ePg	11:29:53.98	0.84
			eSg	30:07.15	-0.34
LANS	114.0	301	ePg	11:29:55.10	0.00
			eSg	30:09.80	-1.18
TRPA	140.0	113	ePn	11:29:59.91	0.68
			eSn	30:15.99	-2.34*
VYHS	145.6	264	ePn	11:29:59.20	-0.73
			eSn	30:19.80	0.23

50.

2017-02-14 time: 9:56:53.26 UTC ML= 1.5
lat: 48.612N lon: 20.782E h= 0.0 km
erh= 1.9km erz= 2.8km
nr= 14 gap=115 rms=0.63

Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	26.2	237	ePg	9:56:57.70	-0.24
			eSg	57:01.80	0.21
ABAH	48.8	136	ePg	9:57:01.89	-0.08
			eSg	57:08.32	-0.45
CRVS	59.4	57	ePg	9:57:04.50	0.63
			eSg	57:12.40	0.26
PSZ	101.5	221	ePg	9:57:12.71	1.33
			eSg	57:24.77	-0.75
LANS	113.5	302	ePg	9:57:13.40	-0.12
			eSg	57:28.60	-0.73
TRPA	140.8	112	ePn	9:57:17.31	-0.53
			eSn	57:35.79	-1.23
VYHS	144.3	265	ePn	9:57:18.40	0.12
			eSn	57:36.00	-1.80

Hypocenter Parameters

51.

2017-02-14 time: 11:15:28.94 UTC ML= 1.1
lat: 45.807N lon: 18.457E h= 0.0 km
erh= 7.9km erz= 832km
nr= 8 gap=282 rms=0.59

Locality: Beremend
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	18.3	300	ePg	11:15:31.94	-0.27
PKSM	47.2	18	ePgC	11:15:37.41	0.03
			eSg	15:43.57	-0.38
MORH	47.7	18	ePg	11:15:37.44	-0.02
PKS9	87.8	351	ePg	11:15:44.53	-0.09
			eSg	16:00.34	3.49
PKB1	111.7	13	ePg	11:15:49.48	0.59
			eSg	16:03.79	-0.65

52.

2017-02-14 time: 11:24:38.86 UTC ML= 0.8
lat: 47.156N lon: 18.326E h= 0.0 km
erh= 4.6km erz= 625km
nr= 6 gap=287 rms=0.37

Locality: Sárszentmihály
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	23.6	348	ePg	11:24:42.46	-0.61
			eSg	24:46.61	0.26
PKST	24.9	297	ePg	11:24:43.45	0.15
			eSg	24:46.49	-0.28
PKSG	26.7	11	ePg	11:24:44.11	0.49
			eSg	24:47.26	-0.08

53.

2017-02-15 time: 10:11:59.29 UTC ML= 1.4
lat: 47.835N lon: 19.090E h= 0.0 km
erh= 5.6km erz= 730km
nr= 6 gap=237 rms=0.44

Locality: Szendehely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	15.2	109	ePg	10:12:01.77	-0.23
			eSg	12:03.96	-0.16
PSZ	60.9	81	ePg	10:12:10.49	0.32
			eSg	12:18.55	-0.10
VYHS	75.7	346	ePg	10:12:13.40	0.60
			eSg	12:22.50	-0.84

54.

2017-02-15 time: 10:36:13.59 UTC ML= 1.5
lat: 48.618N lon: 20.742E h= 0.0 km
erh= 1.3km erz= 2.3km
nr= 15 gap= 85 rms=0.47

Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.1	232	ePg	10:36:17.80	-0.09
			eSg	36:21.50	0.26
ABAH	51.3	134	ePg	10:36:22.93	0.18
			eSg	36:28.14	-1.76
CRVS	61.7	59	ePg	10:36:24.80	0.20
			eSg	36:32.80	-0.39
STHS	96.2	22	ePg	10:36:30.80	0.04
			eSg	36:43.10	-1.06
PSZ	100.0	219	ePg	10:36:31.68	0.24
			eSg	36:44.82	-0.55
LANS	110.6	302	ePg	10:36:33.30	-0.04

Hypocenter Parameters

eSg 36:47.80 -0.96
 VYHS 141.3 264 ePn 10:36:38.40 0.16
 eSn 36:57.50 0.02
 TRPA 143.8 112 ePn 10:36:39.35 0.80
 eSn 36:54.57 -3.45*

55.

2017-02-15 time: 10:55:47.76 UTC ML= 0.5
 lat: 47.214N lon: 18.288E h= 0.0 km
 erh= 0.9km erz= 275km
 nr= 9 gap=145 rms=0.21
 Locality: Iszkaszentgyörgy
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	16.7	353	ePgC	10:55:50.82			0.08
			eSg	55:53.11			0.04
PKST	19.8	285	ePg	10:55:51.03			-0.28
			eSg	55:54.09			0.02
PKSG	21.2	21	ePgC	10:55:51.48			-0.07
			eSg	55:54.55			0.04
MORH	114.3	166	ePg	10:56:08.45			0.28
PKSM	114.6	166	ePg	10:56:08.27			0.04
			eSg	56:22.41			-1.79

56.

2017-02-16 time: 8:10:21.07 UTC ML= 1.7
 lat: 47.561N lon: 17.792E h= 10.0 km
 erh= 1.8km erz= 1.6km
 nr= 35 gap= 51 rms=0.95
 Locality: Pázmándfalu
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
EGYH	38.2	245	ePg	8:10:29.29			1.17
			eSg	10:35.01			1.39
PKST	38.3	151	ePgC	8:10:27.87			-0.26
			eSg	10:32.73			-0.91
CSKK	41.7	122	ePg	8:10:28.28			-0.44
			eSg	10:33.75			-0.93
MPLH	47.5	204	ePg	8:10:29.68			-0.05
SRO	48.1	54	ePg	8:10:30.10			0.25
			eSg	10:37.00			0.30
PKSG	48.9	113	ePg	8:10:29.72			-0.26
			eSg	10:36.28			-0.66
TIH	73.9	174	ePg	8:10:34.35			-0.04
			eSg	10:43.25			-1.53
ZST	87.4	324	ePg	8:10:37.00			0.22
			eSg	10:47.50			-1.53
SOP	93.7	278	eSg	8:10:49.09			-1.93
MODS	98.1	337	ePg	8:10:39.30			0.61
			eSg	10:51.80			-0.63
SMOL	109.3	346	eSn	8:10:53.80			-1.77
RONA	113.4	278	Pn	8:10:41.51			0.54
			Sn	10:54.82			-1.67
PKB1	115.0	139	ePn	8:10:41.19			0.03
			eSn	10:55.66			-1.17
VYHS	129.7	37	ePn	8:10:43.50			0.50
			eSn	10:59.70			-0.40
PKB4	133.5	152	ePn	8:10:44.73			1.26
			eSn	11:01.23			0.28
CONA	150.4	286	Pn	8:10:47.84			2.26
			Sn	11:03.70			-0.99
PSZ	162.6	76	ePn	8:10:50.34			3.24
MORH	163.1	157	ePn	8:10:46.73			-0.43
			eSn	11:07.91			0.40
PKSM	163.4	157	ePn	8:10:46.87			-0.33
			eSn	11:08.10			0.52
ARSA	174.7	259	Sn	8:11:11.92			1.84

57.

2017-02-16 time: 9:06:45.12 UTC ML= 1.4
 lat: 48.605N lon: 20.773E h= 0.0 km
 erh= 2.2km erz= 3.9km
 nr= 11 gap=116 rms=0.55
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	25.2	237	ePg	9:06:49.30			-0.31
			eSg	06:54.00			0.88
ABAH	48.7	135	ePg	9:06:53.55			-0.27
			eSg	06:59.45			-1.15
CRVS	60.5	57	ePg	9:06:56.20			0.28
			eSg	07:04.40			0.06
STHS	96.6	21	eSg	9:07:15.60			-0.23
PSZ	100.4	220	ePg	9:07:03.97			0.92
			eSg	07:16.03			-1.01
VYHS	143.5	265	ePn	9:07:10.20			0.15
			eSn	07:28.70			-0.79

58.

2017-02-16 time: 21:53:46.13 UTC ML= 1.5
 lat: 47.556N lon: 17.809E h= 10.0 km
 erh= 1.5km erz= 1.3km
 nr= 37 gap= 60 rms=0.75
 Locality: Pázmándfalu
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKST	37.1	153	ePgC	21:53:52.85			-0.14
			eSg	53:57.67			-0.68
EGYH	39.2	247	ePgD	21:53:54.18			0.83
			eSg	53:59.05			0.07
CSKK	40.2	122	ePg	21:53:53.21			-0.32
			eSg	53:59.31			0.01
SRO	47.4	53	ePg	21:53:55.20			0.42
			eSg	54:01.90			0.37
PKSG	47.5	113	ePg	21:53:54.56			-0.23
			eSg	54:01.33			-0.22
MPLH	47.5	205	ePg	21:53:54.65			-0.15
			eSg	54:01.76			0.20
TIH	73.2	175	ePgD	21:53:59.35			0.03
			eSg	54:08.70			-0.92
ZST	88.7	323	ePg	21:54:02.50			0.44
			eSg	54:13.00			-1.49
SOP	95.1	279	ePg	21:54:02.83			-0.37
			eSg	54:15.18			-1.34
MODS	99.2	336	ePg	21:54:04.40			0.47
			eSg	54:16.90			-0.92
SMOL	110.2	345	eSn	21:54:19.30			-1.53
PKS9	113.5	162	ePn	21:54:05.36			-0.67
			eSn	54:21.91			0.35
PKB1	113.6	139	ePn	21:54:06.10			0.05
			eSn	54:20.74			-0.85
PKS7	116.8	119	ePn	21:54:07.05			0.60
PKB5	127.9	147	ePn	21:54:07.86			0.03
			eSn	54:24.80			0.04
VYHS	129.4	36	ePn	21:54:08.60			0.59
			eSn	54:24.90			-0.19
PKB4	132.4	153	eSn	21:54:25.43			-0.33
PKB2	146.4	132	eSn	21:54:30.65			1.79
MORH	162.0	157	ePn	21:54:11.79			-0.29
			eSn	54:32.88			0.55
PKSM	162.3	157	ePn	21:54:11.79			-0.33
			eSn	54:33.21			0.81
OKC	254.9	6	ePn	21:54:57.40			33.73*
			eSn	55:02.40			9.45
KRLC	290.1	345	ePn	21:55:14.00			45.94*
			eSn	55:31.20			30.43*
DPC	329.3	341	ePn	21:55:21.10			48.16*
			eSn	55:42.40			32.95*

Földrengés paraméterek

Hypocenter Parameters

59.

 2017-02-17 time: 2:02:52.68 UTC ML= 1.3
 lat: 46.257N lon: 19.605E h= 13.0 km
 erh= 2.6km erz= 1.6km
 nr= 21 gap=271 rms=0.48
 Locality: Öttömös
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKB3	36.6	301	ePgD	2:02:59.77	0.15
			eSg	03:05.06	0.02
PKS6	38.3	355	ePgD	2:02:59.18	-0.72
			eSg	03:04.54	-0.99
PKS2	39.9	311	ePgD	2:03:00.37	0.19
			eSg	03:06.52	0.50
PKB2	54.2	329	ePg	2:03:02.95	0.32
MORH	74.2	267	ePg	2:03:06.10	-0.04
			eSg	03:16.87	0.24
PKSM	74.5	266	ePg	2:03:06.01	-0.17
			eSg	03:16.05	-0.66
PKB5	76.7	299	ePg	2:03:06.46	-0.11
			eSg	03:16.93	-0.47
PKB4	81.5	289	ePg	2:03:07.45	0.03
			eSg	03:18.02	-0.89
PKB1	85.6	313	ePg	2:03:09.10	0.96
			eSg	03:19.99	-0.22
PKS7	94.2	339	eP*	2:03:10.38	0.84
			eS*	03:22.14	-0.56
PKS9	108.3	290	ePn	2:03:11.14	-0.42
			eSn	03:26.74	0.46

60.

 2017-02-17 time: 11:39:35.75 UTC ML= 1.5
 lat: 45.509N lon: 18.050E h= 1.9 km
 erh= 3.4km erz= 1.8km
 nr= 12 gap=333 rms=0.31
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	45.0	20	ePgD	11:39:44.23	0.43
KOVH	64.5	3	ePgD	11:39:46.82	-0.46
			eSg	39:56.66	0.38
PKSM	90.6	30	ePgD	11:39:51.86	-0.08
			eSg	40:04.57	0.00
MORH	91.1	30	ePgD	11:39:51.94	-0.09
			eSg	40:04.61	-0.11
PKB4	117.8	21	eSg	11:40:13.33	0.11
PKB5	131.9	24	ePn	11:39:59.27	0.28
			eSn	40:15.62	-1.49*
PKB1	152.9	22	ePn	11:40:01.30	-0.31
			eSn	40:22.33	0.55

61.

 2017-02-17 time: 20:39:33.92 UTC ML= 1.9
 lat: 47.640N lon: 17.967E h= 10.0 km
 erh= 1.7km erz= 1.5km
 nr= 45 gap= 51 rms=1.00
 Locality: Bábolna
 Comments: felt 4 EMS

sta	dist	azm	phase	hr mn sec	res
SRO	32.3	53	ePg	20:39:40.00	0.03
			eSg	39:44.40	-0.28
CSKK	37.9	144	ePg	20:39:40.54	-0.39
			eSg	39:44.01	-2.38
PKSG	42.2	131	ePgD	20:39:41.05	-0.62
			eSg	39:47.38	-0.33
PKST	42.7	173	ePg	20:39:41.09	-0.66
			eSg	39:48.13	0.27
EGYH	53.9	243	ePgc	20:39:44.73	1.02
			eSg	39:52.43	1.09

MPLH	61.4	212	ePg	20:39:45.06	0.03
			eSg	39:52.81	-0.89
TIH	82.5	184	ePg	20:39:48.90	0.14
			eSg	40:00.22	-0.12
ZST	89.4	314	ePg	20:39:51.00	1.01
			eSg	40:02.80	0.28
MODS	96.4	328	ePg	20:39:52.00	0.77
			eSg	40:04.60	-0.13
PENC	100.1	80	ePg	20:39:51.84	-0.04
			eSg	40:05.12	-0.77
SMOL	105.1	338	eS*	20:40:06.20	-1.18
PKB1	113.9	147	ePn	20:39:54.13	0.25
			eSn	40:08.86	-0.58
VYHS	114.9	34	ePn	20:39:53.20	-0.81
			eSn	40:06.90	-2.78
RONA	125.6	273	Pn	20:39:55.74	0.40
			Sn	40:10.21	-1.84
PKB5	130.0	153	ePn	20:39:57.56	1.67
			eSn	40:11.57	-1.46
PKB4	136.1	159	ePn	20:39:58.12	1.48
			eSn	40:13.05	-1.32
PKB2	144.5	138	eSn	20:40:19.63	3.39
PKS2	158.9	143	eSn	20:40:21.66	2.22
CONA	161.0	281	Pn	20:40:00.05	0.30
			Sn	40:18.54	-1.35
PKB3	164.3	145	eSn	20:40:22.23	1.59
MORH	166.6	162	ePn	20:40:00.22	-0.22
			eSn	40:19.09	-2.04
PKSM	166.9	162	ePn	20:40:00.23	-0.26
			eSn	40:18.95	-2.26
ARSA	189.3	257	Pn	20:40:02.91	-0.38
			Sn	40:25.14	-1.05
LANS	201.4	34	ePn	20:40:08.40	3.61
			eSn	40:27.90	-0.96
KRLC	284.4	342	eSn	20:40:47.80	0.51
KHC	364.9	297	ePn	20:40:26.50	1.32*
			eSn	41:04.60	-0.55*

62.

 2017-02-20 time: 8:23:00.43 UTC ML= 1.0
 lat: 47.414N lon: 18.232E h= 7.9 km
 erh= 1.5km erz= 0.6km
 nr= 10 gap=219 rms=0.19
 Locality: Pusztavám
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	6.0	159	ePgC	8:23:02.25	0.04
			eSg	23:03.57	-0.03
PKSG	12.2	101	ePgC	8:23:03.05	0.02
			eSg	23:05.03	-0.04
PKST	22.8	221	ePgD	8:23:04.41	-0.32
			eSg	23:08.08	-0.01
MPLH	59.0	243	ePg	8:23:11.18	0.13
			eSg	23:20.15	0.81
MORH	136.8	167	eSn	8:23:41.51	0.01
PKSM	137.2	167	eSn	8:23:41.79	0.20

63.

 2017-02-20 time: 8:25:10.91 UTC ML= 0.7
 lat: 47.422N lon: 18.213E h= 7.6 km
 erh= 1.2km erz= 0.4km
 nr= 9 gap=247 rms=0.12
 Locality: Pusztavám
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	7.5	151	ePg	8:25:12.94	0.13
			eSg	25:14.30	0.00
PKSG	13.9	104	ePg	8:25:13.71	-0.02
			eSg	25:15.76	-0.17
PKST	22.6	217	ePgD	8:25:15.08	-0.09
			eSg	25:18.53	0.05

Hypocenter Parameters

MORH 138.1 166 eSn 8:25:52.24 -0.10
 PKSM 138.5 166 ePn 8:25:34.51 0.28
 eSn 25:52.35 -0.08

64.

2017-02-20 time: 8:54:24.38 UTC ML= 0.3
 lat: 47.346N lon: 18.263E h= 9.2 km
 erh= 2.8km erz= 0.9km
 nr= 6 gap=178 rms=0.05
 Locality: Csókakő
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	1.9	353	ePgC	8:54:26.08			0.02
			eSg	54:27.31			-0.05
PKSG	10.9	62	ePgD	8:54:26.95			0.03
			eSg	54:28.89			-0.01
PKST	19.9	241	ePg	8:54:28.21			-0.08
			eSg	54:31.42			0.08

65.

2017-02-20 time: 8:55:56.72 UTC ML=-0.6
 lat: 47.356N lon: 18.254E h= 9.7 km
 erh= 2.8km erz= 0.6km
 nr= 6 gap=168 rms=0.05
 Locality: Csókakő
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	0.9	31	ePg	8:55:58.47			0.01
			eSg	55:59.79			-0.03
PKSG	11.0	69	ePg	8:55:59.37			0.03
			eSg	56:01.37			-0.02
PKST	19.9	237	ePg	8:56:00.59			-0.08
			eSg	56:03.85			0.10

66.

2017-02-20 time: 9:09:15.36 UTC ML= 0.1
 lat: 47.340N lon: 18.277E h= 10.0 km
 erh= 3.8km erz= 1.6km
 nr= 6 gap=188 rms=0.10
 Locality: Csákberény
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	2.9	334	ePg	9:09:17.17			-0.05
			eSg	09:18.52			-0.15
PKSG	10.3	56	ePgD	9:09:17.99			0.06
			eSg	09:20.01			0.08
PKST	20.4	244	ePg	9:09:19.33			-0.10
			eSg	09:22.79			0.19

67.

2017-02-20 time: 9:27:54.92 UTC ML= 0.3
 lat: 47.331N lon: 18.287E h= 10.0 km
 erh= 5.0km erz= 2.6km
 nr= 6 gap=198 rms=0.16
 Locality: Söréd
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	4.1	331	ePgC	9:27:56.76			-0.09
			eSg	27:58.12			-0.23
PKSG	10.4	49	ePg	9:27:57.60			0.11
			eSg	27:59.61			0.11
PKST	20.7	247	ePg	9:27:58.93			-0.09
			eSg	28:02.54			0.32

Földrengés paraméterek

68.

2017-02-20 time: 9:53:18.77 UTC ML=-0.1
 lat: 47.333N lon: 18.285E h= 10.0 km
 erh= 6.1km erz= 3.1km
 nr= 6 gap=196 rms=0.19
 Locality: Söréd
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	3.8	332	ePg	9:53:20.60			-0.08
			eSg	53:21.90			-0.27
PKSG	10.4	51	ePg	9:53:21.40			0.06
			eSg	53:23.54			0.19
PKST	20.6	247	ePg	9:53:22.72			-0.14
			eSg	53:26.42			0.37

69.

2017-02-20 time: 10:03:39.93 UTC ML= 1.3
 lat: 48.549N lon: 20.789E h= 0.0 km
 erh= 1.5km erz= 3.0km
 nr= 9 gap=127 rms=0.39
 Locality: Bódvalenke
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	23.6	252	ePg	10:03:44.00			-0.14
			eSg	03:48.00			0.57
ABAH	43.6	130	ePg	10:03:47.78			0.05
			eSg	03:54.28			0.47
CRVS	63.1	52	ePg	10:03:50.80			-0.41
PSZ	96.6	223	eSg	10:04:10.43			-0.22
STHS	102.0	19	ePg	10:03:58.50			0.35
TRPA	137.9	110	ePn	10:04:04.00			-0.16
			eSn	04:21.54			-1.51

70.

2017-02-20 time: 10:11:45.95 UTC ML= 0.1
 lat: 47.377N lon: 18.247E h= 9.5 km
 erh= 2.3km erz= 0.5km
 nr= 6 gap=211 rms=0.05
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	1.9	146	ePgC	10:11:47.74			0.06
			eSg	11:49.03			-0.01
PKSG	11.0	81	ePgD	10:11:48.58			0.03
			eSg	11:50.52			-0.06
PKST	20.7	231	ePg	10:11:49.95			-0.07
			eSg	11:53.21			0.01

71.

2017-02-20 time: 10:16:21.63 UTC ML=-0.3
 lat: 47.290N lon: 18.315E h= 0.1 km
 erh= 0.9km erz= 120km
 nr= 5 gap=234 rms=0.22
 Locality: Magyaralmás
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	9.1	333	ePg	10:16:22.97			-0.29
			eSg	16:24.45			-0.08
PKSG	12.7	27	ePg	10:16:23.85			-0.04
			eSg	16:25.93			0.27
PKST	21.5	261	eSg	10:16:28.77			0.30

Földrengés paraméterek

Hypocenter Parameters

72.

2017-02-20 time: 10:20:48.52 UTC ML= 0.0
 lat: 47.348N lon: 18.265E h= 10.0 km
 erh= 3.5km erz= 1.1km
 nr= 6 gap=177 rms=0.11
 Locality: Csókakő
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	1.7	348	ePgc	10:20:50.30	-0.04
			eSg	20:51.66	-0.09
PKSG	10.6	63	ePgc	10:20:51.07	-0.06
			eSg	20:53.37	0.20
PKST	20.1	240	ePgD	10:20:52.49	-0.04
			eSg	20:55.90	0.25

73.

2017-02-20 time: 10:23:49.51 UTC ML=-0.3
 lat: 47.376N lon: 18.245E h= 10.0 km
 erh= 4.8km erz= 1.0km
 nr= 6 gap=210 rms=0.10
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	1.8	140	ePg	10:23:51.38	0.06
			eSg	23:52.59	-0.14
PKSG	11.2	81	ePg	10:23:52.14	-0.05
			eSg	23:54.33	0.06
PKST	20.5	231	ePg	10:23:53.52	-0.07
			eSg	23:56.96	0.19

74.

2017-02-20 time: 10:39:19.14 UTC ML=-0.1
 lat: 47.309N lon: 18.301E h= 7.7 km
 erh= 5.6km erz= 5.6km
 nr= 6 gap=218 rms=0.18
 Locality: Söréd
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	6.7	333	ePgc	10:39:20.85	-0.12
			eSg	39:22.19	-0.21
PKSG	11.4	36	ePgc	10:39:21.69	0.09
			eSg	39:23.70	0.18
PKST	20.9	255	ePg	10:39:22.99	-0.14
			eSg	39:26.65	0.41

75.

2017-02-20 time: 10:48:46.63 UTC ML= 1.2
 lat: 47.558N lon: 18.489E h= 0.0 km
 erh= 4.1km erz= 887km
 nr= 11 gap=188 rms=0.72
 Locality: Tatabánya
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	19.9	202	ePg	10:48:50.21	0.02
			eSg	48:53.46	0.50
CSKK	27.7	218	ePg	10:48:51.33	-0.24
			eSg	48:54.59	-0.84
SRO	31.3	335	ePg	10:48:51.50	-0.72
			eSg	48:57.40	0.83
PKST	47.8	226	ePg	10:48:55.30	0.14
			eSg	48:59.72	-2.09
MPLH	83.7	239	eSg	10:49:14.41	1.18
			ePg	10:49:06.40	0.62
VYHS	107.2	14	ePg	49:20.50	-0.22
			eSg		

76.

2017-02-20 time: 12:10:55.41 UTC ML=-0.2
 lat: 47.368N lon: 18.251E h= 10.4 km
 erh= 4.7km erz= 0.8km
 nr= 6 gap=202 rms=0.08
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	0.9	124	ePgc	12:10:57.28	0.02
			eSg	10:58.61	-0.10
PKSG	10.9	76	ePgD	12:10:58.11	0.02
			eSg	11:00.21	0.03
PKST	20.3	234	ePgD	12:10:59.41	-0.07
			eSg	11:02.93	0.27

77.

2017-02-21 time: 9:52:56.30 UTC ML= 0.7
 lat: 47.243N lon: 18.244E h= 0.0 km
 erh= 1.6km erz= 621km
 nr= 13 gap=107 rms=0.52
 Locality: Iszkaszentgyörgy
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	13.4	5	ePg	9:52:58.34	-0.36
			eSg	53:00.83	0.26
PKST	15.9	276	ePg	9:52:59.00	-0.15
			eSg	53:01.91	0.54
PKSG	19.9	34	ePg	9:52:59.72	-0.14
			eSg	53:02.60	-0.04
TIH	46.5	215	ePg	9:53:04.29	-0.31
			eSg	53:12.42	1.34
PKB1	65.9	141	ePg	9:53:08.86	0.80
			eSg	53:16.47	-0.76
PKB5	81.2	153	ePg	9:53:11.32	0.52
			eSg	53:21.98	-0.12
PKB4	87.4	162	eSg	9:53:23.20	-0.88

78.

2017-02-22 time: 5:43:33.56 UTC ML= 1.8
 lat: 46.273N lon: 17.110E h= 10.0 km
 erh= 3.2km erz= 2.5km
 nr= 19 gap=129 rms=0.91
 Locality: Csurgó
 Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	33.7	310	ePg	5:43:40.28	0.43
			eSg	43:44.96	0.21
KOGS	68.9	286	ePg	5:43:45.80	-0.20
			eSg	43:54.70	-1.00
KOVH	79.2	105	ePg	5:43:48.64	0.83
			eSg	43:57.40	-1.53
TIH	92.0	41	ePg	5:43:57.65	7.57*
			ePg	5:43:51.10	0.23
PKS9	96.4	69	eSg	44:03.54	-0.83
			ePg	5:43:51.96	0.77
PKSV	98.2	116	eSg	44:04.19	-0.75
			ePg	5:43:51.50	0.30
PTJ	98.3	245	eSg	44:03.30	-1.65
			eSn	5:44:09.18	-0.73
PKB4	117.6	78	eSn	5:44:09.18	-0.73
			ePn	5:43:54.28	0.21
PKSM	118.3	93	ePn	5:43:54.28	0.21
			eSn	5:44:07.70	-2.41
MORH	118.5	93	eSn	5:44:07.70	-2.41
			eSn	5:44:12.71	0.05
PKB5	130.0	74	eSn	5:44:12.71	0.05
			eSn	5:44:12.63	-0.11
PKST	130.4	33	eSn	5:44:12.63	-0.11
			eSn	5:44:15.13	0.02
PKB1	141.1	66	eSn	5:44:15.13	0.02
			eSn	5:44:23.95	2.47
PKB2	169.7	75	eSn	5:44:23.95	2.47
			Pnc	5:44:59.27	0.77*
BURA	635.0	76	Pnc	5:44:59.27	0.77*

Hypocenter Parameters

Földrengés paraméterek

79.

2017-02-22 time: 9:26:02.29 UTC ML= 1.4
 lat: 48.607N lon: 20.782E h= 0.0 km
 erh= 1.0km erz= 1.5km
 nr= 12 gap=115 rms=0.56
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	25.9	238	ePg	9:26:06.90			-0.02
			eSg		26:10.80		0.28
ABAH	48.4	136	ePg	9:26:11.37			0.44
			eSg		26:18.05		0.38
CRVS	59.7	57	ePg	9:26:13.60			0.64
			eSg		26:21.70		0.43
LANS	113.8	302	ePg	9:26:22.40			-0.21
			eSg		26:38.30		-0.16
TRPA	140.6	112	ePn	9:26:26.10			-0.75
			eSn		26:44.70		-1.31
VYHS	144.2	265	ePn	9:26:27.40			0.09
			eSn		26:45.20		-1.63

80.

2017-02-22 time: 10:17:44.24 UTC ML= 0.8
 lat: 47.171N lon: 18.299E h= 0.0 km
 erh= 7.7km erz= 924km
 nr= 5 gap=280 rms=0.43
 Locality: Sárkeszi
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	21.6	352	ePg	10:17:47.57			-0.53
			eSg		17:50.62		-0.49
PKST	22.3	296	eSg	10:17:51.69			0.35
PKSG	25.6	16	ePg	10:17:49.22			0.42
			eSg		17:52.64		0.28

81.

2017-02-22 time: 11:21:37.43 UTC ML= 1.7
 lat: 46.245N lon: 17.120E h= 13.1 km
 erh= 5.6km erz= 3.2km
 nr= 17 gap=199 rms=0.78
 Locality: Csurgó
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
BEHE	36.4	313	ePg	11:21:44.02			-0.32
			eSg		21:48.81		-0.92
KOVH	77.7	103	ePg	11:21:51.52			0.02
			eSg		22:00.63		-1.84
PKSV	96.2	114	eP*	11:21:55.63			1.05
			eS*		22:08.26		0.30
PKS9	96.9	67	eP*	11:21:55.11			0.42
			eS*		22:07.63		-0.52
PKSM	117.4	92	ePn	11:21:56.67			-0.76
			eSn		22:11.50		-1.54
PKB4	117.6	76	ePn	11:21:58.14			0.69
			eSn		22:12.76		-0.30
MORH	117.6	92	ePn	11:21:56.85			-0.61
			eSn		22:11.34		-1.74
PKB5	130.2	73	eSn	11:22:16.07			0.21
PKB1	141.6	65	ePn	11:22:01.45			1.00
			eSn		22:19.54		1.13

82.

2017-02-24 time: 9:38:48.86 UTC ML= 1.0
 lat: 48.584N lon: 20.788E h= 0.0 km
 erh= 1.7km erz= 434km
 nr= 6 gap=171 rms=0.25
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	25.0	243	ePg	9:38:52.90			-0.42
			eSg		38:57.20		0.40
ABAH	46.3	134	ePg	9:38:57.22			0.09
			eSg		39:03.51		-0.07
CRVS	60.9	55	ePg	9:38:59.90			0.17
			eSg		39:08.10		-0.11

83.

2017-02-26 time: 15:22:47.77 UTC ML= 0.1
 lat: 47.339N lon: 18.315E h= 0.1 km
 erh= 9.0km erz= 879km
 nr= 5 gap=203 rms=0.28
 Locality: Csákberény
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	4.9	304	ePgD	15:22:48.51			-0.15
			eSg		22:49.10		-0.24
PKSG	8.2	44	ePg	15:22:49.11			-0.13
PKST	23.0	247	eSg	15:22:50.99			0.60
			eSg	15:22:55.36			0.27

84.

2017-02-27 time: 5:00:15.04 UTC ML= 0.6
 lat: 47.363N lon: 17.693E h= 0.8 km
 erh= 0.8km erz= 1.2km
 nr= 9 gap=164 rms=0.18
 Locality: Bakonyszűcs
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
MPLH	24.4	208	ePg	5:00:19.18			-0.22
			eSg		00:22.73		-0.06
EGYH	27.9	282	ePg	5:00:20.05			0.02
			eSg		00:23.89		-0.03
PKST	28.3	114	ePg	5:00:20.22			0.12
			eSg		00:24.34		0.30
CSKK	42.9	90	eSg	5:00:28.33			-0.35
PKSG	52.8	87	eSg	5:00:31.88			0.05
MORH	146.8	150	eSn	5:01:00.18			0.24

85.

2017-02-27 time: 10:27:52.62 UTC ML= 1.6
 lat: 45.573N lon: 17.919E h= 0.0 km
 erh= 6.4km erz= 480km
 nr= 8 gap=336 rms=0.34
 Locality: Croatia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	59.0	14	ePg	10:28:02.59			-0.57
PKSM	90.5	38	ePg	10:28:08.72			-0.06
			eSg		28:21.16		-0.23
MORH	91.0	38	ePg	10:28:08.77			-0.10
			eSg		28:21.80		0.26
PKS9	116.1	14	ePg	10:28:13.91			0.55
PKB5	130.0	29	ePg	10:28:16.06			0.22
			eSg		28:34.01		0.06

Földrengés paraméterek

Hypocenter Parameters

86.

2017-02-28 time: 7:14:07.64 UTC ML= 0.3
 lat: 47.160N lon: 18.216E h= 0.0 km
 erh= 2.4km erz= 297km
 nr= 5 gap=282 rms=0.13
 Locality: Ősi
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	17.6	309	ePg	7:14:10.83	0.04
			eSg	14:13.24	0.00
CSKK	22.8	9	ePg	7:14:11.49	-0.23
			eSg	14:14.91	0.01
PKSG	29.0	27	ePg	7:14:12.98	0.17

87.

2017-02-28 time: 7:17:40.59 UTC ML= 0.5
 lat: 47.115N lon: 18.200E h= 0.0 km
 erh= 2.3km erz= 294km
 nr= 6 gap=297 rms=0.17
 Locality: Ősi
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	20.3	322	ePg	7:17:44.34	0.11
			eSg	17:47.05	-0.01
CSKK	27.9	9	ePg	7:17:45.46	-0.12
			eSg	17:49.20	-0.28
PKSG	34.0	25	ePg	7:17:46.65	-0.01
			eSg	17:51.74	0.35

88.

2017-02-28 time: 10:40:56.05 UTC ML= 0.9
 lat: 46.124N lon: 18.067E h= 0.0 km
 erh= 1.9km erz= 342km
 nr= 11 gap=253 rms=0.27
 Locality: Abaliget
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	4.7	148	ePg	10:40:56.86	-0.03
			eSg	40:58.17	0.62
PKSV	29.9	151	ePg	10:41:01.30	-0.08
PKSM	45.4	78	ePg	10:41:04.27	0.12
			eSg	41:10.01	-0.46
MORH	45.7	77	ePg	10:41:04.14	-0.06
			eSg	41:10.36	-0.21
PKB4	58.5	45	ePg	10:41:06.22	-0.26
			eSg	41:15.50	0.87
PKB5	73.4	45	ePg	10:41:09.29	0.14
			eSg	41:21.07	1.71*

89.

2017-02-28 time: 17:58:35.71 UTC ML= 0.1
 lat: 47.200N lon: 18.092E h= 6.6 km
 erh= 4.8km erz= 5.8km
 nr= 5 gap=280 rms=0.16
 Locality: Várpalota
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	7.9	326	ePg	17:58:37.52	-0.02
			eSg	58:38.96	0.00
CSKK	22.2	35	ePg	17:58:39.82	-0.02
			eSg	58:42.82	-0.24
PKSG	31.1	47	eSg	17:58:46.16	0.36

90.

2017-03-01 time: 12:36:27.04 UTC ML= 2.1
 lat: 48.857N lon: 22.030E h= 0.0 km
 erh= 2.8km erz= 5.1km
 nr= 10 gap=198 rms=0.61
 Locality: Ukraine
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
STHS	84.7	317	ePg	12:36:41.80	-0.36
			eSg	36:54.30	0.35
ABAH	85.4	223	ePg	12:36:43.30	1.00
			eSg	36:54.48	0.29
TRPA	89.2	155	ePg	12:36:42.86	-0.10
			eSg	36:54.93	-0.45
KECS	121.1	250	ePg	12:36:48.70	0.03
			eSg	37:03.40	-2.14
VYHS	238.7	260	ePn	12:37:02.90	-0.93
			eSn	37:31.60	-0.93

91.

2017-03-03 time: 6:31:41.43 UTC ML= 0.2
 lat: 47.284N lon: 18.329E h= 0.2 km
 erh= 3.6km erz= 195km
 nr= 6 gap=242 rms=0.13
 Locality: Magyaralmás
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	10.2	330	ePg	6:31:43.38	0.12
			eSg	31:44.34	-0.34
PKSG	12.9	21	ePg	6:31:43.72	-0.01
			eSg	31:45.44	-0.08
PKST	22.5	263	ePg	6:31:45.56	0.12
			eSg	31:48.54	-0.03

92.

2017-03-03 time: 10:00:42.23 UTC ML= 0.4
 lat: 46.176N lon: 18.290E h= 0.0 km
 erh= 1.4km erz= 257km
 nr= 7 gap=204 rms=0.17
 Locality: Zobákpuszta
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.6	237	ePg	10:00:45.23	-0.15
			eSg	00:47.98	0.14
PKSM	27.4	82	ePg	10:00:47.25	0.13
			eSg	00:51.07	0.14
MORH	27.7	81	ePg	10:00:46.84	-0.33
			eSg	00:51.14	0.12
PKSV	32.1	185	eSg	10:00:52.47	0.05

93.

2017-03-06 time: 8:09:19.69 UTC ML= 1.1
 lat: 47.360N lon: 18.412E h= 0.0 km
 erh= 0.9km erz= 114km
 nr= 5 gap=273 rms=0.06
 Locality: Gánt
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	3.9	336	ePgC	8:09:20.41	0.02
			eSg	09:20.89	-0.05
CSKK	11.4	272	ePg	8:09:21.80	0.06
			eSg	09:23.40	0.07
PKST	30.7	249	ePgC	8:09:25.10	-0.07

Hypocenter Parameters

Földrengés paraméterek

94.

2017-03-07 time: 9:41:42.10 UTC ML= 1.7
 lat: 48.327N lon: 19.016E h= 0.0 km
 erh= 1.5km erz= 2.7km
 nr= 13 gap=123 rms=0.48
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
VYHS	22.9	324	ePg	9:41:46.60			0.41
			eSg	41:49.70			0.32
LANS	97.4	20	ePg	9:41:59.60			0.10
			eSg	42:13.10			0.03
KECS	110.2	81	ePg	9:42:01.60			-0.18
			eSg	42:16.40			-0.72
PKSG	114.0	204	ePg	9:42:03.23			0.77
			eSg	42:17.92			-0.43
CSKK	121.2	208	ePg	9:42:04.06			0.32
			eSg	42:20.03			-0.59
MODS	129.0	272	ePg	9:42:04.50			-0.64
			eSg	42:20.80			-2.31*
PKST	139.7	212	eSn	9:42:25.02			-0.61

95.

2017-03-07 time: 11:46:41.53 UTC ML= 0.5
 lat: 47.169N lon: 18.311E h= 0.0 km
 erh= 1.4km erz= 184km
 nr= 6 gap=282 rms=0.11
 Locality: Sárkeszi
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	21.9	350	ePg	11:46:45.30			-0.14
			eSg	46:48.30			-0.20
PKST	23.2	296	ePg	11:46:45.72			0.05
			eSg	46:48.98			0.07
PKSG	25.5	14	ePg	11:46:46.18			0.10
			eSg	46:49.73			0.10

96.

2017-03-09 time: 6:31:34.20 UTC ML= 0.5
 lat: 47.291N lon: 18.340E h= 0.0 km
 erh= 0.3km erz=52.8km
 nr= 6 gap=242 rms=0.03
 Locality: Magyaralmás
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	10.0	323	ePg	6:31:35.92			-0.06
			eSg	31:37.38			0.01
PKSG	11.8	19	ePg	6:31:36.33			0.02
			eSg	31:37.99			0.03
PKST	23.4	261	ePg	6:31:38.39			0.02
			eSg	31:41.63			0.00

97.

2017-03-09 time: 9:28:19.94 UTC ML= 1.4
 lat: 48.590N lon: 20.697E h= 0.0 km
 erh= 3.1km erz= 5.5km
 nr= 11 gap=106 rms=0.91
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	19.7	233	ePg	9:28:24.30			0.85
ABAH	51.8	129	ePg	9:28:29.35			0.17
			eSg	28:34.37			-2.02
PSZ	95.6	219	ePg	9:28:37.00			-0.01
			eSg	28:50.14			-0.18
STHS	100.2	24	ePg	9:28:39.10			1.27

			eSg	28:50.50			-1.29
LANS	109.6	305	ePg	9:28:40.10			0.59
			eSg	28:54.00			-0.78
VYHS	137.9	266	ePn	9:28:44.60			0.44
			eSn	29:01.70			-1.35

98.

2017-03-09 time: 9:44:18.75 UTC ML= 0.5
 lat: 46.184N lon: 18.282E h= 0.0 km
 erh= 0.8km erz= 146km
 nr= 7 gap=210 rms=0.10
 Locality: Zobákpuszta
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	17.6	233	ePg	9:44:21.81			-0.08
			eSg	44:24.71			0.36
PKSM	27.9	84	ePg	9:44:23.71			-0.03
			eSg	44:27.65			0.02
MORH	28.2	83	ePg	9:44:23.81			0.03
			eSg	44:27.72			0.01
PKSV	32.9	184	eSg	9:44:29.13			-0.07

99.

2017-03-09 time: 10:57:58.78 UTC ML= 1.1
 lat: 47.132N lon: 17.953E h= 13.8 km
 erh= 3.0km erz= 2.2km
 nr= 20 gap=106 rms=0.90
 Locality: Gyulafirátót
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKST	15.3	24	ePg	10:58:01.54			-0.92
			eSg	58:04.84			-0.50
TIH	26.3	190	ePg	10:58:03.14			-0.93
			eSg	58:08.03			-0.17
MPLH	31.7	278	ePg	10:58:05.19			0.24
			eSg	58:10.07			0.31
CSKK	34.6	42	ePg	10:58:05.38			-0.05
			eSg	58:11.43			0.81
PKS9	65.5	158	ePg	10:58:12.68			1.95
PKB1	74.7	121	ePg	10:58:14.34			2.01
PKB5	84.4	135	ePg	10:58:11.39			-2.66
			eSg	58:26.29			0.32
PKB4	86.4	145	eP*	10:58:13.91			-0.46
			eS*	58:26.87			0.33
MORH	114.8	153	ePn	10:58:18.58			0.22
			eSn	58:32.70			-0.93
PKSM	115.1	153	ePn	10:58:18.35			-0.05
			eSn	58:33.05			-0.65
KOVH	116.6	174	ePn	10:58:18.91			0.32
			eSn	58:33.91			-0.13

100.

2017-03-12 time: 0:08:42.10 UTC ML= 1.6
 lat: 48.682N lon: 19.933E h= 10.0 km
 erh= 3.3km erz= 4.6km
 nr= 8 gap=147 rms=0.60
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
KECS	46.4	119	ePg	0:08:50.50			-0.08
			eSg	08:56.80			-0.38
LANS	62.2	327	ePg	0:08:53.90			0.54
			eSg	09:01.50			-0.64
VYHS	83.6	255	ePg	0:08:57.40			0.26
			eSg	09:08.20			-0.67
ABAH	105.7	114	eP*	0:09:02.01			1.02
			eS*	09:14.93			-0.79

Földrengés paraméterek

Hypocenter Parameters

101.

2017-03-12 time: 22:42:25.67 UTC ML=-0.3
 lat: 47.330N lon: 18.287E h= 10.0 km
 erh= 4.7km erz= 2.5km
 nr= 6 gap=199 rms=0.12
 Locality: Söréd
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	4.2	332	ePg	22:42:27.59	-0.02
			eSg	42:28.98	-0.14
PKSG	10.4	49	ePg	22:42:28.31	0.06
			eSg	42:30.35	0.08
PKST	20.7	248	ePg	22:42:29.65	-0.13
			eSg	42:33.20	0.22

102.

2017-03-13 time: 8:34:56.07 UTC ML= 1.2
 lat: 47.356N lon: 18.468E h= 0.0 km
 erh= 3.8km erz= 617km
 nr= 7 gap=230 rms=0.42
 Locality: Csákvár
 Comments: probably explosion

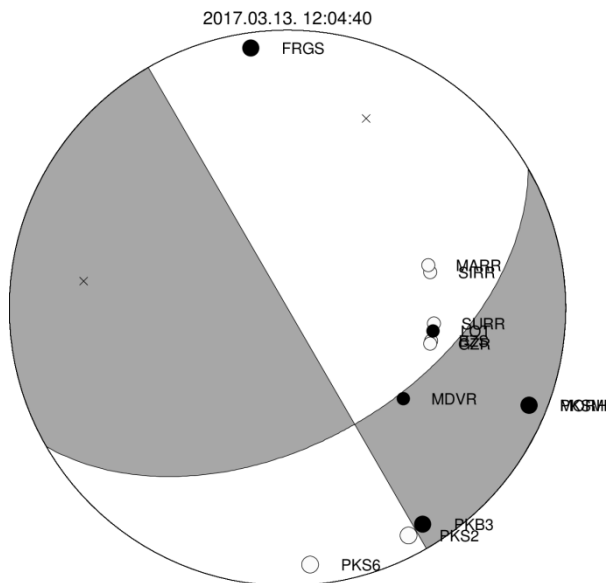
sta	dist	azm	phase	hr mn sec	res
PKSG	7.0	304	ePgC	8:34:57.42	0.10
			eSg	34:57.91	-0.39
CSKK	15.7	273	ePg	8:34:58.66	-0.21
			eSg	35:00.91	-0.14
PKST	34.5	252	ePgC	8:35:02.70	0.47
			eSg	35:07.27	0.23
PKSM	127.9	174	eSg	8:35:35.15	-1.59

103.

2017-03-13 time: 12:04:40.00 UTC ML= 2.1
 lat: 45.929N lon: 19.643E h= 10.0 km
 erh= 2.3km erz= 2.0km
 nr= 36 gap= 96 rms=0.91
 Locality: Serbia
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKB3	65.0	328	ePgC	12:04:51.97	0.23
			eSg	04:59.80	-1.11
PKS2	70.9	332	ePgD	12:04:53.18	0.40
			eSg	05:02.06	-0.68
PKS6	74.9	355	ePgD	12:04:54.80	1.32
			eSg	05:03.29	-0.71
MORH	83.6	292	ePgC	12:04:54.90	-0.13
			eSg	05:04.67	-2.09
PKSM	83.6	292	ePgC	12:04:54.89	-0.15
			eSg	05:04.69	-2.08
PKB2	88.5	340	ePg	12:04:56.79	0.90
			eSg	05:06.19	-2.10
FRGS	89.1	172	PgC	12:04:55.81	-0.20
			Sg	05:07.50	-1.00
PKB5	101.9	317	ePg	12:04:58.20	-0.08
			eSg	05:11.51	-1.03
PKB4	102.0	308	ePg	12:04:58.27	-0.04
			eSg	05:11.08	-1.51
PKSV	108.0	268	ePn	12:05:00.26	1.04
PKSN	109.0	9	eSn	12:05:13.28	-1.16
PKB1	115.5	325	ePn	12:05:01.03	0.88
			eSn	05:14.20	-1.67
KOVH	120.8	278	ePn	12:05:02.55	1.73
			eSn	05:15.04	-2.02
PKS7	129.8	343	eSn	12:05:19.41	0.37
BZS	157.4	103	PnD	12:05:06.24	0.87
			Sn	05:24.50	-0.67
SIRR	160.4	76	PnD	12:05:05.83	0.08
			Sn	05:24.20	-1.65
SURR	193.8	96	PnD	12:05:10.36	0.45

		Sn	05:32.20	-1.05	
MDVR	206.3	128	PnC	12:05:11.21	-0.26
		Sn	05:36.90	0.87	
GZR	251.4	104	PnD	12:05:17.10	0.01
		Sn	05:44.10	-1.93	
MARR	280.4	73	PnD	12:05:20.08	-0.63
LOT	325.9	99	PnC	12:05:26.46	0.08*



104.

2017-03-14 time: 8:37:50.25 UTC ML= 0.9
 lat: 47.434N lon: 18.429E h= 0.0 km
 erh= 3.6km erz= 351km
 nr= 6 gap=334 rms=0.21
 Locality: Várgesztes
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	5.5	212	ePgC	8:37:51.25	0.02
			eSg	37:51.79	-0.21
CSKK	15.0	238	ePg	8:37:52.62	-0.31
			eSg	37:55.00	-0.01
PKST	35.6	237	ePg	8:37:56.94	0.33
			eSg	38:01.73	0.16

105.

2017-03-14 time: 9:19:52.30 UTC ML= 0.9
 lat: 47.092N lon: 17.964E h= 0.0 km
 erh= 3.6km erz= ***km
 nr= 12 gap= 91 rms=1.12
 Locality: Kádárta
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	19.3	16	ePg	9:19:54.95	-0.79
TIH	22.1	194	ePg	9:19:56.25	0.01
			eSg	19:59.87	0.56
MPLH	33.3	285	ePg	9:19:59.77	1.52
			eSg	20:01.27	-1.62
CSKK	37.6	37	ePg	9:19:59.20	0.19
			eSg	20:03.73	-0.51
PKB1	71.8	118	ePg	9:20:06.99	1.87
			eSg	20:17.59	2.47
MORH	110.5	152	ePg	9:20:11.70	-0.33
			eSg	20:24.91	-2.51
PKSM	110.8	152	ePg	9:20:11.95	-0.13

Hypocenter Parameters

Földrengés paraméterek

106.

2017-03-14 time: 10:19:02.72 UTC ML= 1.1
 lat: 47.120N lon: 18.344E h= 0.0 km
 erh= 5.5km erz= 887km
 nr= 8 gap=268 rms=0.67
 Locality: Szabadbattyán
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	27.7	347	ePg	10:19:07.79	0.12
			eSg	19:10.67	-0.86
PKST	28.1	303	ePg	10:19:08.14	0.41
			eSg	19:11.13	-0.51
PKSG	30.4	7	ePg	10:19:08.91	0.76
			eSg	19:11.96	-0.42
MPLH	61.3	275	ePg	10:19:12.86	-0.80
			eSg	19:23.35	1.15

107.

2017-03-15 time: 5:29:31.76 UTC ML=-0.2
 lat: 47.361N lon: 18.254E h= 10.0 km
 erh= 2.9km erz= 0.6km
 nr= 6 gap=191 rms=0.42
 Locality: Csókakő
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	0.5	67	ePg	5:29:33.19	-0.36
			eSg	29:33.86	-1.08
PKSG	10.8	72	ePg	5:29:34.83	0.44
			eSg	29:36.67	0.22
PKST	20.1	236	ePgD	5:29:35.94	0.17
			eSg	29:38.97	0.06

108.

2017-03-15 time: 10:17:32.26 UTC ML= 1.9
 lat: 48.673N lon: 19.907E h= 0.0 km
 erh= 6.0km erz= ***km
 nr= 8 gap=144 rms=1.11
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	47.6	116	ePg	10:17:40.00	-0.76
			eSg	17:46.50	-0.89
LANS	62.1	329	ePg	10:17:43.70	0.34
			eSg	17:51.20	-0.81
VYHS	81.5	256	ePg	10:17:48.60	1.78
			eSg	17:56.30	-1.87
ABAH	107.0	113	ePg	10:17:52.54	1.17
			eSg	18:06.18	-0.10

109.

2017-03-15 time: 10:25:28.83 UTC ML= 1.4
 lat: 48.565N lon: 20.750E h= 0.0 km
 erh= 3.0km erz= 5.6km
 nr= 11 gap=109 rms=0.85
 Locality: Komjáti
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	21.6	245	ePg	10:25:32.90	0.22
			eSg	25:36.80	1.11
ABAH	47.0	130	ePg	10:25:36.87	-0.34
			eSg	25:43.19	-0.56
PSZ	96.0	221	eSg	10:25:59.77	0.43
			ePg	10:25:48.30	1.38
STHS	101.3	21	eSg	25:58.40	-2.64
			ePg	10:25:48.60	-0.66
LANS	114.4	305	ePg	26:04.10	-1.10
			eSg		

VYHS 141.6 267 ePn 10:25:53.60 0.08
 eSn 26:11.10 -1.68

110.

2017-03-16 time: 1:09:36.07 UTC ML= 0.5
 lat: 47.388N lon: 18.246E h= 10.7 km
 erh= 2.6km erz= 0.7km
 nr= 6 gap=220 rms=0.04
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	3.0	158	ePg	1:09:38.09	0.04
			eSg	09:39.55	-0.04
PKSG	11.0	88	ePg	1:09:38.81	0.01
			eSg	09:40.92	-0.01
PKST	21.5	228	ePgD	1:09:40.30	-0.05
			eSg	09:43.77	0.08

111.

2017-03-16 time: 2:10:01.71 UTC ML=-0.5
 lat: 47.337N lon: 18.299E h= 10.0 km
 erh=10.0km erz= 5.1km
 nr= 6 gap=198 rms=0.28
 Locality: Csákberény
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	4.1	315	ePgD	2:10:03.58	-0.06
			eSg	10:04.75	-0.40
PKSG	9.3	49	ePg	2:10:04.19	0.05
			eSg	10:06.33	0.29
PKST	21.8	247	ePg	2:10:05.77	-0.22
			eSg	10:09.93	0.60

112.

2017-03-16 time: 2:11:07.31 UTC ML=-0.6
 lat: 47.324N lon: 18.302E h= 10.0 km
 erh= 5.9km erz= 3.7km
 nr= 6 gap=209 rms=0.20
 Locality: Söréd
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	5.4	324	ePg	2:11:09.20	-0.14
			eSg	11:10.64	-0.28
PKSG	10.1	42	ePg	2:11:09.97	0.12
			eSg	11:11.98	0.15
PKST	21.5	250	ePg	2:11:11.43	-0.11
			eSg	11:15.24	0.39

113.

2017-03-16 time: 2:12:28.62 UTC ML=-0.8
 lat: 47.360N lon: 18.270E h= 10.0 km
 erh= 4.2km erz= 1.0km
 nr= 6 gap=169 rms=0.09
 Locality: Csókakő
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	0.8	298	ePg	2:12:30.46	0.05
			eSg	12:31.58	-0.23
PKSG	9.8	69	ePg	2:12:31.15	0.03
			eSg	12:33.12	0.05
PKST	21.0	238	ePg	2:12:32.71	-0.07
			eSg	12:36.12	0.10

Földrengés paraméterek

Hypocenter Parameters

114.

2017-03-16 time: 11:04:09.43 UTC ML= 0.4
 lat: 47.383N lon: 18.245E h= 9.2 km
 erh= 7.5km erz= 2.0km
 nr= 6 gap=216 rms=0.13
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	2.5	153	ePg	11:04:11.25	0.12
			eSg	04:12.32	-0.14
PKSG	11.0	85	ePg	11:04:12.00	0.01
			eSg	04:13.99	0.00
PKST	21.1	229	ePg	11:04:13.37	-0.18
			eSg	04:16.99	0.24

115.

2017-03-16 time: 13:01:10.70 UTC ML= 0.2
 lat: 47.300N lon: 18.309E h= 7.9 km
 erh= 3.6km erz= 4.0km
 nr= 6 gap=227 rms=0.18
 Locality: Söréd
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	7.9	332	ePg	13:01:12.52	-0.19
			eSg	01:14.07	-0.20
PKSG	11.9	31	ePgC	13:01:13.32	0.06
			eSg	01:15.44	0.19
PKST	21.3	258	ePg	13:01:14.68	-0.09
			eSg	01:18.28	0.35

116.

2017-03-16 time: 16:34:07.84 UTC ML=-0.1
 lat: 47.335N lon: 18.283E h= 10.0 km
 erh= 2.7km erz= 1.3km
 nr= 6 gap=193 rms=0.08
 Locality: Csákberény
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	3.5	331	ePg	16:34:09.70	-0.03
			eSg	34:11.10	-0.11
PKSG	10.3	52	ePg	16:34:10.44	0.04
			eSg	34:12.45	0.06
PKST	20.6	246	ePg	16:34:11.86	-0.07
			eSg	34:15.26	0.13

117.

2017-03-16 time: 17:35:38.50 UTC ML=-0.2
 lat: 47.270N lon: 18.344E h= 0.1 km
 erh= 1.9km erz= 220km
 nr= 5 gap=252 rms=0.29
 Locality: Sárkeresztes
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	12.1	329	ePg	17:35:40.36	-0.29
			eSg	35:42.00	-0.34
PKSG	14.0	15	ePg	17:35:41.04	0.05
			eSg	35:43.39	0.45
PKST	23.4	267	eSg	17:35:46.22	0.27

118.

2017-03-17 time: 22:58:42.22 UTC ML= 0.0
 lat: 47.382N lon: 18.250E h= 10.8 km
 erh= 2.9km erz= 0.7km
 nr= 6 gap=214 rms=0.05
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	2.2	159	ePgC	22:58:44.23	0.04
			eSg	58:45.66	-0.07
PKSG	10.7	84	ePgC	22:58:44.95	0.02
			eSg	58:47.02	-0.03
PKST	21.3	230	ePg	22:58:46.41	-0.07
			eSg	58:49.88	0.07

119.

2017-03-18 time: 13:17:43.85 UTC ML= 0.1
 lat: 47.336N lon: 18.282E h= 10.0 km
 erh= 1.6km erz= 0.7km
 nr= 6 gap=192 rms=0.07
 Locality: Csákberény
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	3.4	331	ePg	13:17:45.69	-0.04
			eSg	17:47.09	-0.11
PKSG	10.3	53	ePgC	13:17:46.42	0.02
			eSg	17:48.50	0.10
PKST	20.6	245	ePg	13:17:47.90	-0.04
			eSg	17:51.22	0.09

120.

2017-03-19 time: 0:26:58.30 UTC ML= 0.2
 lat: 47.328N lon: 18.285E h= 10.0 km
 erh= 2.5km erz= 1.3km
 nr= 6 gap=200 rms=0.09
 Locality: Söréd
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	4.3	335	ePgC	0:27:00.15	-0.10
			eSg	27:01.71	-0.05
PKSG	10.7	48	ePg	0:27:01.00	0.08
			eSg	27:03.02	0.07
PKST	20.4	248	ePgD	0:27:02.32	-0.05
			eSg	27:05.68	0.14

121.

2017-03-19 time: 10:32:39.99 UTC ML= 0.2
 lat: 47.356N lon: 18.271E h= 10.4 km
 erh= 5.0km erz= 1.2km
 nr= 6 gap=173 rms=0.10
 Locality: Csókakő
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	1.1	316	ePg	10:32:41.85	-0.01
			eSg	32:43.23	-0.08
PKSG	9.9	66	ePgC	10:32:42.58	0.03
			eSg	32:44.58	0.03
PKST	20.9	239	ePg	10:32:44.04	-0.11
			eSg	32:47.68	0.28

Hypocenter Parameters

Földrengés paraméterek

122.

2017-03-19 time: 20:09:33.76 UTC ML=-0.1
 lat: 47.325N lon: 18.289E h= 10.0 km
 erh= 1.8km erz= 1.1km
 nr= 6 gap=204 rms=0.07
 Locality: Sóréd
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	4.8	333	ePg	20:09:35.69	-0.05
			eSg	09:37.20	-0.08
PKSG	10.7	46	ePgC	20:09:36.34	-0.03
			eSg	09:38.56	0.15
PKST	20.6	249	ePg	20:09:37.86	0.01
			eSg	09:41.10	0.05

123.

2017-03-20 time: 9:23:12.29 UTC ML= 1.1
 lat: 46.107N lon: 17.999E h= 0.0 km
 erh= 2.8km erz= 620km
 nr= 14 gap=258 rms=0.53
 Locality: Bükkösd
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	8.1	105	ePgC	9:23:13.73	0.00
			eSg	23:15.21	0.36
PKSV	31.2	141	ePg	9:23:18.14	0.28
			eSg	23:22.66	0.45
PKSM	51.0	77	ePg	9:23:21.04	-0.35
			eSg	23:27.60	-0.89
MORH	51.3	76	ePg	9:23:20.89	-0.56
			eSg	23:28.70	0.11
PKB4	63.6	47	ePg	9:23:23.72	0.07
			eSg	23:35.03	2.53*
PKB5	78.5	46	ePg	9:23:26.93	0.63
			eSg	23:38.19	0.96
PKB1	96.9	39	ePg	9:23:28.63	-0.96
			eSg	23:43.23	0.15

124.

2017-03-20 time: 15:13:18.25 UTC ML= 1.8
 lat: 47.016N lon: 17.385E h= 10.0 km
 erh= 1.6km erz= 1.4km
 nr= 31 gap= 66 rms=0.66
 Locality: Gyepükaján
 Comments:

sta	dist	azm	phase	hr mn sec	res
MPLH	20.8	34	ePgD	15:13:21.60	-0.77
			eSg	13:24.99	-0.59
TIH	40.7	108	ePg	15:13:25.97	0.23
			eSg	13:31.68	0.10
EGYH	44.8	355	ePg	15:13:26.60	0.15
			eSg	13:33.34	0.49
PKST	56.2	61	ePg	15:13:28.15	-0.29
			eSg	13:37.03	0.64
BEHE	76.5	218	ePg	15:13:32.45	0.42
			eSg	13:42.94	0.09
CSKK	76.7	60	ePg	15:13:31.89	-0.18
			eSg	13:42.94	0.09
PKSG	86.9	61	ePg	15:13:33.78	-0.09
			eSg	13:47.77	1.72
KOGS	107.3	234	eP*	15:13:37.00	-0.38
			eS*	13:51.86	-0.45
PKB4	109.5	122	ePn	15:13:38.52	0.85
			eSn	13:52.11	-0.70
PKB1	110.2	103	ePn	15:13:38.57	0.82
			eSn	13:52.58	-0.38
RONA	112.0	313	Pn	15:13:38.06	0.08
			Sn	13:52.01	-1.35
PKB5	113.2	114	eSn	15:13:53.05	-0.57
			ePn	15:13:39.59	1.02

			eSn	13:54.38	-0.03
MORH	131.2	133	ePn	15:13:40.06	-0.30
			eSn	13:55.89	-1.72
PKSM	131.3	133	ePn	15:13:40.23	-0.15
			eSn	13:56.51	-1.13
ARSA	143.7	280	Sn	15:13:58.77	-1.62
CONA	153.3	311	Pn	15:13:43.98	0.86
			Sn	14:03.66	1.15

125.

2017-03-21 time: 9:30:52.80 UTC ML= 1.3
 lat: 48.567N lon: 20.782E h= 0.0 km
 erh= 3.1km erz= 4.2km
 nr= 10 gap=113 rms=1.03
 Locality: Tornanádaska
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.8	247	ePg	9:30:57.10	0.05
			eSg	31:01.10	0.75
ABAH	45.3	132	ePg	9:31:01.51	0.61
			eSg	31:07.45	0.24
PSZ	97.7	222	eSg	9:31:23.73	-0.12
STHS	100.4	20	ePg	9:31:12.20	1.47
			eSg	31:22.40	-2.31
TRPA	139.0	110	eSn	9:31:34.45	-1.73
VYHS	143.9	267	ePn	9:31:17.80	0.02
			eSn	31:36.00	-1.27

126.

2017-03-21 time: 11:00:51.39 UTC ML= 1.3
 lat: 47.062N lon: 18.062E h= 0.0 km
 erh= 3.1km erz= 636km
 nr= 6 gap=191 rms=0.39
 Locality: Papkeszi
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	22.0	354	ePg	11:00:54.94	-0.37
			eSg	00:57.86	-0.51
TIH	22.2	216	ePg	11:00:55.46	0.12
CSKK	36.7	24	eSg	11:01:03.93	0.89
MPLH	41.5	287	ePg	11:00:58.87	0.08
			eSg	01:04.64	0.08

127.

2017-03-21 time: 11:34:48.32 UTC ML= 0.5
 lat: 47.182N lon: 18.323E h= 0.0 km
 erh= 6.1km erz= 829km
 nr= 6 gap=279 rms=0.49
 Locality: Székesfehérvár
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	20.7	347	ePg	11:34:51.09	-0.92
			eSg	34:54.51	-0.38
PKST	23.5	291	ePg	11:34:52.76	0.24
			eSg	34:56.02	0.23
PKSG	23.9	12	ePg	11:34:53.00	0.42
			eSg	34:56.25	0.34

128.

2017-03-22 time: 10:09:25.03 UTC ML= 1.0
 lat: 47.116N lon: 17.966E h= 0.0 km
 erh= 2.1km erz= 642km
 nr= 10 gap=147 rms=0.50
 Locality: Kádárta
 Comments: probably explosion

Földrengés paraméterek

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
PKST	16.7	18	ePg	10:09:27.52	-0.50
			eSg	09:31.09	0.74
TIH	24.6	193	ePg	10:09:29.12	-0.31
			eSg	09:33.42	0.56
MPLH	32.9	281	ePg	10:09:31.38	0.47
			eSg	09:35.00	-0.50
CSKK	35.4	39	ePg	10:09:30.52	-0.83
			eSg	09:36.46	0.18
PKSG	44.4	46	ePg	10:09:33.24	0.28
			eSg	09:39.41	0.26

129.

2017-03-22 time: 11:09:00.93 UTC ML= 1.0
 lat: 47.213N lon: 18.267E h= 0.0 km
 erh= 2.5km erz= 967km
 nr= 15 gap=127 rms=0.83
 Locality: Iszkaszentgyörgy
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	16.7	358	ePg	11:09:03.23	-0.69
			eSg	09:06.64	0.40
PKST	18.4	286	ePg	11:09:03.90	-0.31
			eSg	09:06.83	0.06
PKSG	22.0	25	ePg	11:09:04.30	-0.56
			eSg	09:07.88	-0.03
MPLH	55.4	265	ePg	11:09:11.54	0.72
PKB5	77.4	153	ePg	11:09:16.47	1.71
			eSg	09:27.45	1.91
MORH	114.5	165	ePg	11:09:21.04	-0.35
			eSg	09:35.51	-1.83
PKSM	114.9	166	ePg	11:09:21.04	-0.41
			eSg	09:35.58	-1.88
KOVH	125.7	186	ePg	11:09:24.00	0.62
			eSg	09:39.77	-1.11

130.

2017-03-23 time: 8:13:38.22 UTC ML= 0.8
 lat: 47.368N lon: 18.452E h= 0.0 km
 erh= 3.7km erz= 579km
 nr= 7 gap=234 rms=0.39
 Locality: Csákvár
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	5.3	300	ePgC	8:13:39.34	0.17
			eSg	13:39.80	-0.11
CSKK	14.5	268	ePgC	8:13:40.66	-0.14
			eSg	13:42.42	-0.40
PKST	33.8	249	ePg	8:13:44.73	0.47
			eSg	13:49.16	0.19
PKSM	129.3	174	eSg	8:14:17.64	-1.69

131.

2017-03-23 time: 22:45:03.56 UTC ML= 1.0
 lat: 47.882N lon: 16.385E h= 17.8 km
 erh= 2.8km erz= 1.5km
 nr= 8 gap=208 rms=0.38
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr mn sec	res
RONA	21.3	198	Pg	22:45:08.93	0.41
			Sg	45:12.22	-0.17
SOP	25.6	150	ePgD	22:45:09.51	0.38
			eSg	45:13.16	-0.31
CONA	39.5	278	Pg	22:45:11.13	-0.17
			Sg	45:17.00	-0.34
EGYH	87.9	126	eS*	22:45:30.26	-0.80
ARSA	95.6	223	S*	22:45:33.49	0.35

132.

2017-03-24 time: 7:35:27.78 UTC ML= 1.1
 lat: 46.245N lon: 18.438E h= 0.4 km
 erh= 1.5km erz= 110km
 nr= 12 gap=106 rms=0.49
 Locality: Váralja
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSM	16.1	103	ePg	7:35:30.43	-0.23
			eSg	35:32.76	-0.14
MORH	16.2	102	ePgD	7:35:30.46	-0.22
			eSg	35:32.63	-0.30
PKB4	30.7	25	eSg	7:35:37.57	0.04
KOVH	31.4	236	ePg	7:35:33.63	0.23
			eSg	35:38.45	0.67
PKS9	39.9	342	eSg	7:35:39.96	-0.51
PKSV	42.2	200	eSg	7:35:40.89	-0.31
PKB5	45.1	30	eSg	7:35:41.68	-0.43
PKB1	65.8	24	eSg	7:35:50.27	1.58
PKB2	78.0	52	eSg	7:35:53.46	0.89

133.

2017-03-24 time: 11:06:05.89 UTC ML= 1.7
 lat: 48.399N lon: 19.117E h= 0.0 km
 erh= 1.6km erz= 424km
 nr= 6 gap=148 rms=0.26
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	23.3	297	ePg	11:06:10.00	-0.05
			eSg	06:13.20	-0.09
PENC	68.8	170	eSg	11:06:27.94	0.19
PSZ	78.8	133	eSg	11:06:30.85	-0.08
KECS	101.7	85	ePg	11:06:24.40	0.34
			eSg	06:37.70	-0.53

134.

2017-03-27 time: 8:14:57.77 UTC ML= 1.3
 lat: 45.617N lon: 17.263E h= 12.2 km
 erh= 3.2km erz= 1.1km
 nr= 9 gap=219 rms=0.23
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	82.7	69	ePg	8:15:12.59	-0.11
			eSg	15:23.95	-0.39
KOVH	83.5	51	ePg	8:15:12.94	0.10
			eSg	15:24.71	0.12
PTJ	106.3	287	eSn	8:15:31.01	-0.10
PKSM	125.7	58	ePn	8:15:19.18	0.25
			eSn	15:35.52	0.09
MORH	126.1	58	ePn	8:15:19.18	0.20
			eSn	15:34.88	-0.64

135.

2017-03-28 time: 4:39:36.69 UTC ML= 1.9
 lat: 46.249N lon: 16.122E h= 10.0 km
 erh= 2.7km erz= 2.1km
 nr= 31 gap=101 rms=1.14
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOGS	24.2	24	ePg	4:39:41.50	0.13
			eSg	39:44.90	-0.12
PTJ	40.8	198	ePg	4:39:44.90	0.70
			eSg	39:49.74	-0.31

Hypocenter Parameters

BEHE	56.0	64	ePg	4:39:47.66	0.82
			eSg	39:54.86	0.10
SOKA	96.3	300	Pg	4:39:53.20	-0.78
			Sg	40:04.91	-2.56
ARSA	120.4	338	Pn	4:39:56.84	-0.61
			Sn	40:11.80	-1.85
OBKA	124.5	283	Pn	4:39:58.12	0.16
			Sn	40:13.69	-0.87
MPLH	149.1	47	ePn	4:40:00.91	-0.13
KOVH	153.8	97	ePn	4:40:01.11	-0.51
			eSn	40:18.74	-2.33
RONA	161.8	5	Pn	4:40:04.35	1.73
			Sn	40:24.77	1.92
PKST	184.3	52	ePn	4:40:05.13	-0.29
CONA	187.7	354	Pn	4:40:08.85	3.00
			Sn	40:29.21	0.61
PKSM	194.4	91	ePn	4:40:06.05	-0.63
			eSn	40:27.70	-2.38
MORH	194.6	91	ePn	4:40:06.13	-0.58
			eSn	40:27.34	-2.78
MOA	227.0	322	Pn	4:40:12.19	1.43
			Sn	40:37.64	0.31
KBA	231.7	293	Pn	4:40:13.00	1.66
			Sn	40:39.19	0.83
BIOA	247.9	310	Pn	4:40:14.48	1.13
ABTA	282.6	281	Pn	4:40:19.36	1.68
			Sn	40:50.06	0.40
KHC	373.0	329	ePn	4:40:30.00	1.04*
			eSn	41:10.20	0.47*

136.

2017-03-28 time: 6:34:32.41 UTC ML= 0.7
 lat: 47.280N lon: 18.360E h= 0.0 km
 erh= 2.4km erz= 372km
 nr= 6 gap=254 rms=0.22
 Locality: Magyaralmás
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	11.9	321	ePg	6:34:34.27	-0.26
			eSg	34:36.00	-0.19
PKSG	12.6	11	ePgC	6:34:34.63	-0.03
			eSg	34:36.86	0.44
PKST	24.8	264	ePgC	6:34:36.83	-0.01
			eSg	34:40.58	0.30

137.

2017-03-28 time: 11:03:31.83 UTC ML= 1.4
 lat: 48.637N lon: 20.770E h= 0.0 km
 erh= 2.1km erz= 3.3km
 nr= 12 gap= 91 rms=0.72
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	27.1	231	ePg	11:03:36.40	-0.27
ABAH	51.5	138	ePg	11:03:41.84	0.82
			eSg	03:47.57	-0.62
STHS	93.4	22	ePg	11:03:48.80	0.29
			eSg	04:01.70	0.19
PSZ	103.0	219	ePg	11:03:50.45	0.22
			eSg	04:04.02	-0.55
LANS	111.2	301	ePg	11:03:52.20	0.51
			eSg	04:05.80	-1.38
TRPA	142.7	113	eSn	11:04:13.68	-2.35
VYHS	143.6	264	ePn	11:03:56.90	0.13
			eSn	04:14.20	-2.02

Földrengés paraméterek

138.

2017-03-29 time: 10:01:22.95 UTC ML= 0.8
 lat: 47.235N lon: 18.266E h= 0.0 km
 erh= 3.0km erz= 452km
 nr= 7 gap=234 rms=0.30
 Locality: Iszkaszentgyörgy
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	14.2	358	ePg	10:01:25.21	-0.28
			eSg	01:27.49	0.01
PKST	17.7	279	ePg	10:01:25.64	-0.48
			eSg	01:28.68	0.09
PKSG	19.8	28	ePg	10:01:26.54	0.05
			eSg	01:29.51	0.26
MPLH	55.5	263	ePg	10:01:33.31	0.45

139.

2017-03-30 time: 12:04:35.40 UTC ML= 1.8
 lat: 45.577N lon: 17.750E h= 3.2 km
 erh= 8.1km erz= 4.1km
 nr= 9 gap=278 rms=0.73
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	63.0	26	ePg	12:04:47.40	0.73
			eSg	04:56.01	0.55
PKSM	98.9	44	ePg	12:04:52.75	-0.31
			eSg	05:05.61	-1.23
MORH	99.3	44	ePg	12:04:52.82	-0.33
			eSg	05:07.10	0.11
BEHE	124.7	323	eSn	12:05:14.05	-0.83
PKB5	136.5	34	eSn	12:05:17.77	0.28
PKB1	156.5	31	eSn	12:05:23.95	2.01

140.

2017-04-02 time: 0:00:55.65 UTC ML= 1.6
 lat: 45.871N lon: 17.035E h= 10.0 km
 erh= 3.4km erz= 2.3km
 nr= 26 gap=183 rms=0.87
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	69.6	343	ePg	0:01:09.01	0.81
			eSg	01:18.27	0.28
PTJ	83.7	272	ePg	0:01:11.03	0.33
			eSg	01:22.04	-0.39
KOVH	86.0	74	ePg	0:01:11.31	0.20
			eSg	01:22.33	-0.84
KOGS	88.3	317	ePg	0:01:11.01	-0.50
			eSg	01:22.30	-1.58
PKSV	94.5	89	ePg	0:01:12.78	0.16
			eSg	01:24.39	-1.47
PKS9	124.7	50	ePn	0:01:16.89	-0.06
PKSM	130.0	73	ePn	0:01:16.58	-1.04
			eSn	01:32.58	-2.17
MORH	130.3	73	ePn	0:01:16.59	-1.07
			eSn	01:33.36	-1.46
PKB4	139.7	60	ePn	0:01:19.44	0.62
			eSn	01:35.67	-1.22
MPLH	149.5	15	ePn	0:01:20.53	0.48
			eSn	01:38.54	-0.54
PKB5	153.9	58	ePn	0:01:21.76	1.16
			eSn	01:39.69	-0.37
PKB1	169.2	53	ePn	0:01:23.40	0.90
			eSn	01:42.94	-0.50
PKST	172.3	26	ePn	0:01:23.61	0.72
PKB2	192.1	62	ePn	0:01:28.04	2.68
			eSn	01:51.48	2.94

Földrengés paraméterek

Hypocenter Parameters

141.

2017-04-04 time: 6:45:03.87 UTC ML= 1.1
 lat: 47.371N lon: 18.413E h= 0.0 km
 erh= 3.3km erz= 415km
 nr= 6 gap=282 rms=0.24
 Locality: Gánt
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	2.8	324	ePgc	6:45:04.43	0.06
			eSg	45:04.76	0.00
CSKK	11.5	265	ePgc	6:45:05.73	-0.19
			eSg	45:07.86	0.33
PKST	31.2	246	ePg	6:45:09.68	0.24
			eSg	45:13.26	-0.53

142.

2017-04-04 time: 8:28:07.42 UTC ML= 0.7
 lat: 47.214N lon: 18.311E h= 0.0 km
 erh= 4.3km erz= 686km
 nr= 8 gap=248 rms=0.52
 Locality: Moha
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	17.0	347	ePg	8:28:10.00	-0.46
			eSg	28:12.32	-0.51
PKSG	20.7	17	ePg	8:28:11.25	0.14
			eSg	28:14.67	0.68
PKST	21.5	283	ePg	8:28:10.76	-0.51
			eSg	28:13.92	-0.35
MPLH	58.7	265	ePg	8:28:18.29	0.39
			eSg	28:27.06	0.99

143.

2017-04-04 time: 8:49:57.98 UTC ML= 1.0
 lat: 46.045N lon: 18.120E h= 0.0 km
 erh= 3.6km erz= 637km
 nr= 11 gap=277 rms=0.52
 Locality: Pellérd
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	5.1	342	ePg	8:49:58.57	-0.32
			eSg	49:59.63	0.02
PKSM	44.4	65	ePg	8:50:05.84	-0.06
			eSg	50:11.55	-0.53
MORH	44.7	65	ePg	8:50:05.89	-0.08
			eSg	50:11.49	-0.71
PKB4	62.5	37	ePg	8:50:10.14	0.99
			eSg	50:19.86	2.00
PKB5	77.4	38	ePg	8:50:12.01	0.21
			eSg	50:22.68	0.10
PKB1	97.1	32	eSg	8:50:28.17	-0.68

144.

2017-04-05 time: 0:14:14.58 UTC ML=-0.2
 lat: 47.339N lon: 18.198E h= 9.2 km
 erh= 3.5km erz= 0.8km
 nr= 6 gap=186 rms=0.06
 Locality: Bodajk
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	5.5	60	ePg	0:14:16.42	-0.08
			eSg	14:18.05	0.05
PKST	15.2	234	ePg	0:14:17.84	0.08
			eSg	14:20.18	-0.05
PKSG	15.7	68	ePg	0:14:17.83	-0.01
			eSg	14:20.41	0.02

145.

2017-04-05 time: 10:10:04.44 UTC ML= 1.6
 lat: 48.660N lon: 20.364E h= 0.0 km
 erh= 2.8km erz= ***km
 nr= 12 gap= 88 rms=0.86
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	21.6	155	ePg	10:10:08.30	0.00
			eSg	10:11.40	0.10
ABAH	76.3	122	ePg	10:10:16.31	-1.76
			eSg	10:28.34	-0.36
LANS	85.4	310	ePg	10:10:20.10	0.41
			eSg	10:30.10	-1.48
PSZ	89.5	203	ePg	10:10:20.90	0.48
			eSg	10:33.77	0.88
STHS	105.9	37	ePg	10:10:24.00	0.65
			eSg	10:38.80	0.69
VYHS	114.2	261	ePg	10:10:25.30	0.46
			eSg	10:38.60	-2.15

146.

2017-04-05 time: 23:28:04.42 UTC ML= 0.0
 lat: 47.393N lon: 18.239E h= 11.0 km
 erh= 3.6km erz= 1.2km
 nr= 6 gap=225 rms=0.07
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	3.7	154	ePgd	23:28:06.57	0.07
			eSg	28:07.95	-0.16
PKSG	11.5	91	ePgd	23:28:07.24	-0.02
			eSg	28:09.49	0.02
PKST	21.5	226	ePg	23:28:08.73	0.00
			eSg	28:12.15	0.05

147.

2017-04-07 time: 9:11:49.75 UTC ML= 0.6
 lat: 47.220N lon: 18.283E h= 0.0 km
 erh= 2.2km erz= 3.5km
 nr= 8 gap=241 rms=0.30
 Locality: Iszkaszentgyörgy
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	16.0	354	ePg	9:11:52.26	-0.36
			eSg	11:54.80	-0.05
PKST	19.3	283	ePg	9:11:52.97	-0.24
			eSg	11:55.94	0.04
PKSG	20.8	23	ePg	9:11:53.21	-0.26
			eSg	11:56.82	0.46
MPLH	56.6	264	ePg	9:12:00.08	0.22
VYHS	147.6	16	ePn	9:12:15.70	0.51

148.

2017-04-07 time: 9:44:35.20 UTC ML= 1.1
 lat: 45.666N lon: 17.315E h= 13.5 km
 erh= 9.2km erz= 1.6km
 nr= 7 gap=341 rms=0.30
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	76.9	52	ePg	9:44:48.90	-0.25
			eSg	45:00.26	0.24
PKSV	76.9	71	ePg	9:44:49.07	-0.08
PKSM	119.4	59	ePn	9:44:55.48	0.09

Hypocenter Parameters

Földrengés paraméterek

MORH 119.8 59 eSn 45:11.71 0.57
 ePn 9:44:55.56 0.11
 eSn 45:10.59 -0.64

149.

2017-04-10 time: 9:38:55.98 UTC ML= 1.9
 lat: 45.598N lon: 17.260E h= 10.0 km
 erh= 5.6km erz= 3.3km
 nr= 17 gap=221 rms=0.90
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKSV	83.7	67	ePg	9:39:11.26			0.23
			eSg		39:22.49		-0.28
KOVH	85.0	50	ePg	9:39:10.39			-0.87
			eSg		39:22.82		-0.36
BEHE	103.9	339	eP*	9:39:15.78			1.18
			eS*		39:29.50		0.39
PTJ	106.7	288	eP*	9:39:14.38			-0.64
			eS*		39:28.69		-1.19
KOGS	122.6	320	eSn	9:39:33.29			-0.14
PKSM	127.0	58	ePn	9:39:17.29			-0.29
			eSn		39:32.68		-1.75
MORH	127.5	57	ePn	9:39:17.29			-0.34
			eSn		39:33.10		-1.42
PKB4	144.2	46	ePn	9:39:20.64			0.93
			eSn		39:39.42		1.20
PKB5	159.0	46	ePn	9:39:23.49			1.92
PKB1	177.1	42	eSn	9:39:41.72			-3.82*

150.

2017-04-10 time: 10:21:02.29 UTC ML= 1.5
 lat: 47.387N lon: 18.772E h= 0.0 km
 erh= 7.8km erz= 786km
 nr= 8 gap=253 rms=0.56
 Locality: Pusztazámor
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	28.8	271	ePg	10:21:08.48			1.04
			eSg		21:11.32		-0.13
CSKK	38.7	266	ePg	10:21:09.50			0.29
			eSg		21:14.55		-0.05
PKST	57.6	256	ePg	10:21:12.25			-0.32
			eSg		21:19.61		-0.98
MPLH	96.3	256	eSg	10:21:33.11			0.20
VYHS	123.2	2	ePg	10:21:23.90			-0.39
			eSg		21:37.00		-4.45*

151.

2017-04-13 time: 1:42:36.90 UTC ML=-0.6
 lat: 47.370N lon: 18.170E h= 4.1 km
 erh= 8.2km erz= 6.9km
 nr= 6 gap=222 rms=0.14
 Locality: Nagyveleg
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	6.9	96	ePg	1:42:38.40			0.07
			eSg		42:39.38		-0.06
PKST	16.0	220	ePg	1:42:39.71			-0.15
			eSg		42:42.29		0.13
PKSG	16.8	82	ePg	1:42:40.16			0.17
			eSg		42:42.19		-0.22

152.

2017-04-15 time: 4:23:44.83 UTC ML= 1.5
 lat: 48.696N lon: 19.222E h= 1.6 km
 erh= 2.6km erz= 3.5km
 nr= 19 gap= 85 rms=1.15
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
VYHS	36.3	232	ePg	4:23:51.70			0.38
			eSg		23:56.40		0.02
LANS	53.6	20	ePg	4:23:53.80			-0.61
			eSg		24:00.00		-1.88
KECS	96.2	104	ePg	4:24:01.70			-0.30
			eSg		24:13.40		-2.00
PSZ	99.9	150	ePg	4:24:03.30			0.64
			eSg		24:16.59		0.02
PENC	100.8	177	eSg	4:24:16.97			0.09
SRO	119.1	215	ePg	4:24:04.00			-2.11
			eSg		24:21.50		-1.20
MODS	148.1	256	ePn	4:24:09.50			-0.62
OKC	149.1	328	ePn	4:24:10.30			0.05
ABAH	155.6	107	ePn	4:24:12.72			1.66
			eSn		24:32.44		0.92
PKSG	157.7	203	ePn	4:24:13.75			2.42
			eSn		24:32.62		0.63
KRLC	234.4	311	ePn	4:24:22.20			1.32
			eSn		24:52.20		3.20

153.

2017-04-18 time: 1:09:43.56 UTC ML= 0.4
 lat: 47.313N lon: 17.621E h= 1.6 km
 erh= 2.4km erz=47.4km
 nr= 9 gap=143 rms=0.38
 Locality: Homokbödöge
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
MPLH	17.0	201	ePgc	1:09:46.47			-0.15
			eSg		09:49.26		0.26
EGYH	24.7	298	ePgc	1:09:47.85			-0.13
			eSg		09:51.38		-0.06
PKST	31.8	101	ePgc	1:09:48.95			-0.30
			eSg		09:53.30		-0.40
CSKK	48.7	83	ePgc	1:09:53.02			0.77
			eSg		09:58.50		-0.54
PKSG	58.8	81	eSg	1:10:02.53			0.27

154.

2017-04-18 time: 3:08:51.66 UTC ML= 1.2
 lat: 47.353N lon: 17.611E h= 5.5 km
 erh= 1.5km erz= 1.7km
 nr= 27 gap= 71 rms=0.71
 Locality: Csót
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
MPLH	21.0	195	ePgD	3:08:54.93			-0.61
			eSg		08:57.93		-0.63
EGYH	22.3	289	ePg	3:08:56.25			0.48
			eSg		08:59.95		0.98
PKST	33.6	108	ePgD	3:08:57.38			-0.37
			eSg		09:01.88		-0.61
CSKK	49.1	89	ePg	3:09:00.52			0.04
			eSg		09:06.83		-0.52
TIH	54.7	157	ePg	3:09:01.90			0.43
PKSG	59.0	86	ePg	3:09:02.03			-0.22
			eSg		09:10.14		-0.36
SRO	73.6	46	eSg	3:09:16.20			1.09
SOP	87.4	295	ePg	3:09:07.94			0.63
ZST	101.3	338	eSg	3:09:21.20			-2.70
RONA	106.3	291	Pg	3:09:10.55			-0.12

Földrengés paraméterek

		Sg	09:24.38	-1.11
MODS 116.3	348	ePg	3:09:11.90	-0.55
		eSg	09:24.90	-3.76*
KOVH 145.4	165	ePn	3:09:16.73	0.61
		eSn	09:34.10	-1.10
CONA 146.2	296	Pn	3:09:18.82	2.60
		Sn	09:34.88	-0.50
MORH 149.0	148	ePn	3:09:17.58	1.02
		eSn	09:34.48	-1.50
PKSM 149.2	148	ePn	3:09:17.20	0.61
VYHS 156.5	36	ePn	3:09:17.60	0.10
		eSn	09:37.30	-0.36
ARSA 158.3	266	Sn	3:09:37.58	-0.49

155.

2017-04-18 time: 9:30:05.52 UTC ML= 0.7
 lat: 46.177N lon: 18.279E h= 14.2 km
 erh= 1.1km erz= 2.0km
 nr= 7 gap=207 rms=0.12
 Locality: Zobákpuszta
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	17.0	235	ePg	9:30:09.49	0.02
			eSg	30:12.49	-0.07
PKSM	28.2	82	ePg	9:30:11.31	0.15
			eSg	30:15.61	0.04
MORH	28.5	81	ePg	9:30:10.95	-0.26
			eSg	30:15.73	0.08
PKSV	32.1	184	eSg	9:30:16.71	0.03

156.

2017-04-18 time: 9:32:13.72 UTC ML= 0.6
 lat: 47.175N lon: 18.307E h= 0.0 km
 erh= 2.7km erz= 335km
 nr= 6 gap=255 rms=0.21
 Locality: Sárkeszi
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	21.2	350	ePg	9:32:17.71	0.21
			eSg	32:20.33	-0.12
PKST	22.7	294	ePg	9:32:17.73	-0.04
			eSg	32:20.80	-0.12
PKSG	24.9	15	eSg	9:32:21.53	-0.09
MPLH	58.2	269	eSg	9:32:34.55	2.33*

157.

2017-04-19 time: 8:03:31.37 UTC ML= 0.6
 lat: 46.258N lon: 18.442E h= 0.0 km
 erh= 1.9km erz= 499km
 nr= 7 gap=157 rms=0.33
 Locality: Váralja
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSM	16.2	109	ePg	8:03:34.13	-0.15
			eSg	03:36.76	0.22
MORH	16.3	107	ePg	8:03:34.16	-0.13
			eSg	03:36.64	0.08
KOVH	32.5	234	ePg	8:03:36.72	-0.45
			eSg	03:42.46	0.77
PKB5	43.7	31	eSg	8:03:45.47	0.20

Hypocenter Parameters

158.

2017-04-19 time: 8:03:58.60 UTC ML= 1.1
 lat: 48.632N lon: 20.737E h= 0.0 km
 erh= 3.4km erz= 6.2km
 nr= 10 gap=119 rms=0.86
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.9	228	ePg	8:04:03.40	0.35
			eSg	04:06.70	0.18
ABAH	52.7	135	ePg	8:04:07.57	-0.44
			eSg	04:14.17	-1.19
STHS	94.8	23	ePg	8:04:15.50	-0.02
			eSg	04:27.80	-0.92
KOLS	117.7	73	ePg	8:04:21.40	1.78
			eSg	04:36.50	0.48
VYHS	141.2	264	ePn	8:04:23.80	0.56
			eSn	04:40.90	-1.55

159.

2017-04-20 time: 10:13:17.40 UTC ML= 1.0
 lat: 47.450N lon: 18.444E h= 0.0 km
 erh= 4.8km erz= 418km
 nr= 5 gap=336 rms=0.19
 Locality: Várgesztes
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	7.6	212	ePgc	10:13:18.92	0.15
			eSg	13:19.55	-0.28
CSKK	16.9	235	ePg	10:13:20.27	-0.15
			eSg	13:22.71	-0.07
PKST	37.6	236	eSg	10:13:29.63	0.29

160.

2017-04-21 time: 8:59:17.09 UTC ML= 1.4
 lat: 48.599N lon: 20.758E h= 0.0 km
 erh= 7.1km erz= 7.3km
 nr= 8 gap=228 rms=0.91
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.9	237	ePg	8:59:21.10	-0.26
			eSg	59:25.00	0.31
ABAH	49.0	133	ePg	8:59:26.19	0.34
			eSg	59:31.55	-1.13
PSZ	99.2	220	ePg	8:59:36.33	1.52
			eSg	59:47.91	-0.72
VYHS	142.4	265	ePn	8:59:42.30	0.42
			eSn	59:59.40	-1.82

161.

2017-04-21 time: 10:17:39.11 UTC ML= 1.6
 lat: 47.901N lon: 19.406E h= 0.0 km
 erh= 3.3km erz= ***km
 nr= 8 gap=130 rms=0.74
 Locality: Bercel
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	15.4	217	ePgD	10:17:41.32	-0.54
			eSg	17:44.70	0.69
PSZ	36.6	87	ePg	10:17:45.43	-0.21
			eSg	17:50.80	0.07
VYHS	78.3	327	ePg	10:17:54.70	1.61
			eSg	18:02.90	-1.11
KECS	103.1	51	ePg	10:17:57.70	0.18
			eSg	18:11.40	-0.48

Hypocenter Parameters

Földrengés paraméterek

162.

2017-04-23 time: 16:49:46.01 UTC ML= 0.0
 lat: 47.339N lon: 18.281E h= 10.0 km
 erh= 2.3km erz= 1.0km
 nr= 6 gap=190 rms=0.08
 Locality: Csákberény
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	3.1	331	ePg	16:49:47.84			-0.04
			eSg	49:49.21			-0.13
PKSG	10.2	55	ePg	16:49:48.58			0.02
			eSg	49:50.66			0.11
PKST	20.6	245	ePg	16:49:50.04			-0.06
			eSg	49:53.42			0.13

163.

2017-04-24 time: 7:33:21.49 UTC ML= 1.6
 lat: 47.712N lon: 18.499E h= 12.3 km
 erh= 3.1km erz= 1.9km
 nr= 10 gap=177 rms=0.58
 Locality: Lábatlan
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
SRO	17.9	309	ePg	7:33:25.10			-0.27
			eSg	33:28.50			0.10
PKSG	36.5	193	ePg	7:33:34.22			0.49
CSKK	42.7	205	eSg	7:33:34.76			-0.86
VYHS	90.5	16	ePg	7:33:38.30			0.49
			eSg	33:48.60			-1.93
EGYH	93.7	250	eS*	7:33:52.31			0.82
MPLH	94.1	230	eS*	7:33:51.00			-0.60
MODS	117.1	309	ePn	7:33:41.80			0.25
			eSn	33:56.50			-0.70

164.

2017-04-25 time: 6:59:18.24 UTC ML= 1.1
 lat: 47.451N lon: 18.392E h= 0.0 km
 erh= 1.3km erz= 153km
 nr= 5 gap=309 rms=0.07
 Locality: Várgesztes
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	6.6	181	ePg	6:59:19.49			0.07
			eSg	59:20.30			-0.04
CSKK	13.9	225	ePg	6:59:20.62			-0.11
			eSg	59:22.71			0.04
PKST	34.4	232	eSg	6:59:29.23			0.05

165.

2017-04-25 time: 8:57:35.80 UTC ML= 1.0
 lat: 48.289N lon: 20.633E h= 0.0 km
 erh= 6.0km erz= 6.6km
 nr= 6 gap=191 rms=0.33
 Locality: Izsófalva
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	24.3	333	ePg	8:57:39.50			-0.63
			eSg	57:43.80			0.29
ABAH	45.0	89	ePg	8:57:43.89			0.06
			eSg	57:50.12			0.02
VYHS	135.1	280	ePn	8:58:00.00			0.33
			eSn	58:18.30			0.01

166.

2017-04-25 time: 11:16:58.82 UTC ML= 1.9
 lat: 47.892N lon: 19.167E h= 0.0 km
 erh= 5.0km erz= ***km
 nr= 6 gap=197 rms=0.65
 Locality: Felsőpetény
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PENC	14.2	143	ePg	11:17:00.68			-0.67
			eSg	17:04.00			0.67
VYHS	71.3	340	ePg	11:17:12.10			0.55
			eSg	17:20.80			-0.67
KECS	118.0	56	ePg	11:17:20.50			0.61
			eSg	17:35.60			-0.73

167.

2017-04-28 time: 9:02:58.85 UTC ML= 1.3
 lat: 48.348N lon: 19.845E h= 0.0 km
 erh= 2.8km erz= 630km
 nr= 8 gap=189 rms=0.45
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	49.7	72	ePg	9:03:07.90			0.17
			eSg	03:14.80			0.14
VYHS	76.4	282	ePg	9:03:12.80			0.30
			eSg	03:22.40			-0.74
LANS	93.4	343	ePg	9:03:16.20			0.67
			eSg	03:27.90			-0.64
ABAH	103.6	93	ePg	9:03:17.32			-0.03
			eSg	03:31.28			-0.49

168.

2017-04-29 time: 22:38:31.36 UTC ML= 0.9
 lat: 47.222N lon: 17.565E h= 5.9 km
 erh= 1.6km erz= 1.4km
 nr= 14 gap=122 rms=0.46
 Locality: Döbrönte
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
MPLH	6.0	199	ePgD	22:38:32.40			-0.46
			eSg	38:33.80			-0.23
EGYH	28.0	321	ePgD	22:38:36.45			-0.02
			eSg	38:40.84			0.39
PKST	35.8	83	ePgD	22:38:37.64			-0.19
			eSg	38:42.66			-0.22
TIH	43.6	145	ePg	22:38:39.80			0.59
			eSg	38:45.98			0.65
PKSG	65.2	73	ePg	22:38:42.94			-0.11
			eSg	38:52.62			0.44
KOVH	132.4	162	ePn	22:38:55.13			0.97
			eSn	39:11.80			-0.14
MORH	138.9	144	eSn	22:39:12.38			-1.00
PKSM	139.2	144	eSn	22:39:13.24			-0.19

169.

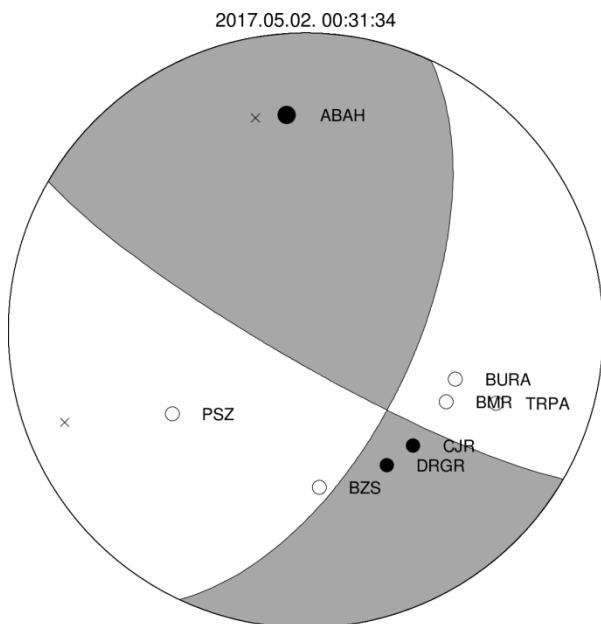
2017-05-02 time: 0:31:34.22 UTC ML= 1.9
 lat: 48.462N lon: 21.218E h= 10.0 km
 erh= 2.4km erz= 2.0km
 nr= 24 gap=60 rms=0.97
 Locality: Hernádszurdok
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
ABAH	18.5	175	ePgC	0:31:38.24			0.27
			eSg	31:40.77			-0.13
KECS	54.2	273	ePg	0:31:43.50			-0.56

Földrengés paraméterek

Hypocenter Parameters

	eSg	31:50.00	-1.73
KOLS 93.7 56	ePg	0:31:52.00	0.94
	eSg	32:04.40	0.21
TRPA 104.8 111	eP*D	0:31:52.93	-0.04
	eS*	32:05.65	-1.94
STHS 106.2 1	eP*	0:31:52.50	-0.69
	eS*	32:05.90	-2.08
PSZ 115.4 238	PnD	0:31:55.25	0.88
	Sn	32:09.30	-0.79
BSZH 147.5 209	ePn	0:32:00.54	2.18
	eSn	32:19.57	2.37
LANS 149.6 301	ePn	0:31:59.50	0.87
	eSn	32:16.60	-1.07
VYHS 176.1 271	ePn	0:32:02.50	0.57
	eSn	32:24.30	0.75
BMR 191.2 117	PnD	0:32:04.95	1.13
	Sn	32:25.30	-1.60
DRGR 217.0 149	PnC	0:32:06.82	-0.21
	Sn	32:30.80	-1.82
MARR 244.7 144	Sn	0:32:37.50	-1.28
CJR 264.3 137	PnC	0:32:13.87	0.94
BURA 312.8 108	PnD	0:32:19.00	0.03*
BZS 317.7 175	PnD	0:32:20.14	0.55*
	Sn	32:52.80	-2.18*



170.

2017-05-02 time: 9:06:19.44 UTC ML= 0.6
 lat: 47.219N lon: 18.287E h= 0.0 km
 erh= 1.3km erz= 342km
 nr= 8 gap=144 rms=0.24
 Locality: Iszkaszentgyörgy
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	16.1	353	ePg	9:06:22.10	-0.22
			eSg	06:24.86	0.29
PKST	19.6	283	ePg	9:06:22.61	-0.33
			eSg	06:25.59	-0.08
PKSG	20.7	22	ePg	9:06:23.04	-0.11
			eSg	06:26.13	0.09
MPLH	56.9	265	ePg	9:06:30.01	0.41
PKSM	115.2	166	ePg	9:06:40.09	0.07
			eSg	06:54.39	-1.68*

171.

2017-05-03 time: 1:49:25.98 UTC ML= 1.8
 lat: 48.739N lon: 22.187E h= 10.0 km
 erh= 3.0km erz= 3.8km
 nr= 10 gap=143 rms=0.62
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOLS	22.5	16	ePg	1:49:30.70	0.33
			eSg	49:34.50	0.70
TRPA	72.5	159	ePg	1:49:38.54	-0.52
			eSg	49:48.09	-1.16
ABAH	85.6	235	ePg	1:49:41.69	0.31
			eSg	49:53.91	0.52
STHS	102.1	318	ePg	1:49:43.90	-0.41
			eSg	49:57.80	-0.80
KECS	128.7	257	ePn	1:49:48.70	0.92
			eSn	50:03.70	-1.09

172.

2017-05-03 time: 8:51:10.72 UTC ML= 0.7
 lat: 47.149N lon: 18.339E h= 0.0 km
 erh= 1.7km erz= 233km
 nr= 6 gap=290 rms=0.14
 Locality: Sárszentmihály
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	24.6	346	ePg	8:51:15.03	-0.07
			eSg	51:18.45	-0.07
PKST	26.1	298	ePg	8:51:15.26	-0.12
			eSg	51:19.17	0.15
PKSG	27.3	8	ePg	8:51:15.82	0.23
			eSg	51:19.31	-0.09

173.

2017-05-03 time: 9:13:32.05 UTC ML= 1.0
 lat: 48.585N lon: 20.786E h= 0.0 km
 erh= 4.3km erz= 7.3km
 nr= 8 gap=114 rms=1.01
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.9	243	ePg	9:13:36.20	-0.30
			eSg	13:40.40	0.43
ABAH	46.4	134	ePg	9:13:40.89	0.55
			eSg	13:46.54	-0.27
STHS	98.3	20	ePg	9:13:51.10	1.49
			eSg	14:01.40	-1.90
VYHS	144.4	266	ePn	9:13:57.30	0.22
			eSn	14:14.80	-1.81

174.

2017-05-03 time: 20:14:46.51 UTC ML= 1.9
 lat: 45.640N lon: 17.658E h= 16.6 km
 erh= 7.3km erz= 2.7km
 nr= 21 gap=223 rms=1.08
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	53.8	59	ePgD	20:14:57.47	0.90
			eSg	15:05.57	1.15
KOVH	60.5	35	ePgD	20:14:56.30	-1.41
			eSg	15:06.55	0.10
PKSM	99.3	50	ePn	20:15:02.73	-1.07
			eSn	15:15.94	-1.35
MORH	99.7	50	ePn	20:15:02.85	-1.01

Hypocenter Parameters

Földrengés paraméterek

eSn 15:15.96 -1.43
 PKS9 115.7 25 ePn 20:15:06.16 0.31
 eSn 15:21.87 0.94
 PKB4 120.0 38 ePn 20:15:06.39 0.00
 eSn 15:22.67 0.77
 PKB5 134.9 38 ePn 20:15:09.41 1.16
 eSn 15:26.38 1.18
 PTJ 135.4 282 eSn 20:15:23.73 -1.57
 TIH 141.2 7 ePn 20:15:09.55 0.52
 eSn 15:27.23 0.63
 KOGS 141.2 309 ePn 20:15:10.01 0.98
 PKB1 154.4 35 ePn 20:15:12.55 1.87
 eSn 15:31.30 1.78
 PKST 182.3 9 ePn 20:15:13.16 -0.99

175.

2017-05-04 time: 8:08:48.46 UTC ML= 0.6
 lat: 47.114N lon: 18.237E h= 0.0 km
 erh= 5.3km erz= 478km
 nr= 5 gap=296 rms=0.24
 Locality: Jenő
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	22.2	316	ePg	8:08:52.50	0.07
CSKK	27.7	4	ePg	8:08:53.52	0.11
			eSg	08:56.69	-0.58
PKSG	33.0	21	ePg	8:08:54.28	-0.07
			eSg	08:59.21	0.27

176.

2017-05-09 time: 8:01:15.56 UTC ML= 1.0
 lat: 47.453N lon: 18.433E h= 0.0 km
 erh= 3.9km erz= 351km
 nr= 6 gap=331 rms=0.21
 Locality: Várgesztes
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	7.5	205	ePgC	8:01:17.06	0.16
			eSg	01:17.52	-0.42
CSKK	16.4	233	ePg	8:01:18.39	-0.09
			eSg	01:20.42	-0.34
PKST	37.0	234	ePg	8:01:22.16	-0.01
			eSg	01:27.86	0.54

177.

2017-05-09 time: 9:20:08.96 UTC ML= 1.1
 lat: 45.895N lon: 18.367E h= 0.0 km
 erh= 2.6km erz= 575km
 nr= 13 gap=235 rms=0.50
 Locality: Palkonya
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	8.9	266	ePg	9:20:10.48	-0.07
			eSg	20:11.38	-0.41
KOVH	29.9	316	ePg	9:20:13.90	-0.39
			eSg	20:19.40	0.95
PKSM	41.2	31	ePgC	9:20:16.17	-0.14
			eSg	20:21.23	-0.82
MORH	41.7	31	ePgC	9:20:16.23	-0.17
			eSg	20:22.24	0.04
PKB4	69.4	15	ePgC	9:20:23.26	1.92
PKS9	77.3	355	ePgC	9:20:24.30	1.54
			eSg	20:33.20	-0.32
PKB1	104.2	18	ePgC	9:20:28.06	0.50
			eSg	20:42.31	0.23

178.

2017-05-10 time: 8:29:37.51 UTC ML= 1.0
 lat: 48.273N lon: 20.580E h= 0.0 km
 erh= 6.0km erz= 7.5km
 nr= 6 gap=194 rms=0.51
 Locality: Sajóivánka
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.4	343	ePg	8:29:41.30	-0.57
			eSg	29:45.70	0.43
ABAH	49.0	87	ePg	8:29:45.68	-0.59
			eSg	29:53.78	0.69
VYHS	131.5	281	ePn	8:30:01.30	0.36
			eSn	30:19.40	0.19

179.

2017-05-11 time: 9:13:54.32 UTC ML= 1.1
 lat: 47.317N lon: 18.689E h= 0.0 km
 erh= 6.5km erz= 547km
 nr= 5 gap=332 rms=0.24
 Locality: Kajászó
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	24.0	290	ePg	9:13:58.86	0.25
			eSg	14:02.05	0.09
CSKK	32.8	279	ePg	9:13:59.93	-0.25
			eSg	14:04.40	-0.34
PKST	49.9	263	eSg	9:14:10.43	0.23

180.

2017-05-11 time: 18:26:37.56 UTC ML= 1.3
 lat: 45.859N lon: 17.756E h= 6.8 km
 erh= 6.1km erz= 3.7km
 nr= 11 gap=313 rms=0.58
 Locality: Markóc
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	36.9	46	ePgD	18:26:44.49	0.23
			eSg	26:50.22	0.75
PKSV	38.7	85	ePg	18:26:45.38	0.81
			eSg	26:50.42	0.38
PKSM	79.0	60	ePg	18:26:50.98	-0.74
			eSg	27:01.91	-0.84
MORH	79.4	60	ePgD	18:26:51.27	-0.52
			eSg	27:01.91	-0.97
PKB4	96.4	43	ePgD	18:26:54.81	-0.02
			eSg	27:09.43	1.14
PKB1	130.2	38	eSn	18:27:17.80	0.37

181.

2017-05-12 time: 7:17:51.03 UTC ML= 0.6
 lat: 47.205N lon: 18.172E h= 0.0 km
 erh= 2.9km erz= ***km
 nr= 11 gap=138 rms=0.84
 Locality: Bakonykúti
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	12.1	300	ePgD	7:17:53.37	0.18
			eSg	17:55.64	0.77
CSKK	18.8	21	ePgD	7:17:54.02	-0.37
			eSg	17:56.93	-0.08
PKSG	26.5	38	ePgD	7:17:55.16	-0.61
			eSg	17:59.30	-0.17
PKB1	66.4	135	ePg	7:18:04.39	1.50
			eSg	18:14.47	2.33
MORH	115.7	162	eSg	7:18:27.41	-0.41

Földrengés paraméterek

Hypocenter Parameters

PKSM 116.1 162 ePg 7:18:11.12 -0.64
eSg 18:26.71 -1.22

182.

2017-05-12 time: 9:55:29.19 UTC ML= 1.6
lat: 45.515N lon: 17.932E h= 1.3 km
erh= 5.0km erz= 2.1km
nr= 11 gap=336 rms=0.40
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	48.5	31	ePg	9:55:38.20	0.35
KOVH	65.1	12	ePgD	9:55:40.68	-0.14
			eSg	55:49.80	-0.09
PKSM	95.1	35	ePg	9:55:45.94	-0.24
			eSg	56:00.05	0.63
MORH	95.6	35	ePgD	9:55:45.99	-0.27
			eSg	56:00.05	0.47
PKB4	120.9	26	eSg	9:56:07.29	-0.34
PKB5	135.2	27	eSn	9:56:10.92	-0.52
PKB1	156.0	25	ePn	9:55:56.26	0.74
			eSn	56:17.21	1.16

183.

2017-05-12 time: 19:41:33.25 UTC ML=-0.2
lat: 47.301N lon: 18.296E h= 10.0 km
erh= 3.1km erz= 2.6km
nr= 6 gap=221 rms=0.11
Locality: Söréd
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	7.4	339	ePgC	19:41:35.37	-0.10
			eSg	41:37.15	-0.06
PKSG	12.4	35	ePg	19:41:36.17	0.08
			eSg	41:38.41	0.10
PKST	20.3	257	ePg	19:41:37.21	-0.08
			eSg	41:40.66	0.21

184.

2017-05-14 time: 21:50:05.41 UTC ML= 1.1
lat: 47.779N lon: 18.120E h= 5.4 km
erh= 1.2km erz= 1.3km
nr= 21 gap=104 rms=0.42
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	15.0	75	ePg	21:50:08.50	0.25
			eSg	50:10.90	0.43
CSKK	47.4	167	ePg	21:50:14.05	0.12
			eSg	50:20.43	-0.14
PKSG	47.6	155	ePg	21:50:14.04	0.08
			eSg	50:20.51	-0.12
PKST	58.1	186	ePg	21:50:15.48	-0.36
			eSg	50:23.58	-0.39
MPLH	80.6	213	ePg	21:50:19.65	-0.18
			eSg	50:33.25	2.17*
MODS	91.2	316	ePg	21:50:22.40	0.67
			eSg	50:34.30	-0.16
VYHS	95.7	34	ePg	21:50:22.10	-0.44
			eSg	50:33.50	-2.39*
SMOL	96.6	328	ePg	21:50:22.40	-0.29
			eSg	50:36.40	0.24
PKB1	121.7	155	ePn	21:50:27.16	0.24
			eSn	50:42.95	-0.75
MORH	178.3	167	eSn	21:50:57.06	0.80
PKSM	178.6	167	ePn	21:50:33.47	-0.56
			eSn	50:57.64	1.29

185.

2017-05-16 time: 6:01:42.22 UTC ML= 0.6
lat: 47.296N lon: 18.367E h= 0.0 km
erh= 2.2km erz= 657km
nr= 8 gap=161 rms=0.47
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	10.8	10	ePg	6:01:44.21	0.06
			eSg	01:45.59	-0.06
CSKK	11.0	313	ePg	6:01:43.89	-0.29
			eSg	01:45.66	-0.04
PKST	25.5	261	ePg	6:01:46.21	-0.56
			eSg	01:51.07	0.74
PKSM	122.4	170	ePg	6:02:04.89	0.82
			eSg	02:20.65	-0.46

186.

2017-05-16 time: 9:40:57.18 UTC ML= 1.9
lat: 47.933N lon: 20.040E h= 0.0 km
erh= 2.3km erz= 1.9km
nr= 19 gap=138 rms=0.75
Locality: Bodony
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	11.0	261	ePgC	9:40:59.41	0.27
			eSg	41:01.85	1.18
PENC	58.9	254	ePg	9:41:07.50	-0.20
			eSg	41:15.75	-0.16
KECS	69.5	28	eSg	9:41:20.10	0.81
BUD	91.2	237	eSg	9:41:27.22	1.06
ABAH	98.0	66	ePg	9:41:13.89	-0.80
			eSg	41:26.66	-1.68
VYHS	109.0	305	ePg	9:41:16.40	-0.25
			eSg	41:30.10	-1.74
PKS7	118.7	214	eSg	9:41:34.11	-0.81
PKSG	137.7	244	eSn	9:41:39.98	-0.29
LANS	141.8	343	ePn	9:41:22.80	0.91
			eSn	41:41.40	0.23
CSKK	148.0	245	eSn	9:41:41.46	-1.08
PKB2	152.4	203	eSn	9:41:43.81	0.27
PKST	168.4	244	eSn	9:41:47.11	0.02
PKB5	178.6	214	eSn	9:41:49.21	-0.12
STHS	187.3	28	eSn	9:41:53.00	1.73

187.

2017-05-17 time: 8:58:24.81 UTC ML= 1.6
lat: 47.891N lon: 19.139E h= 0.0 km
erh= 2.1km erz= 4.2km
nr= 11 gap=105 rms=0.66
Locality: Nőtincs
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	15.4	136	ePg	8:58:27.29	-0.28
			eSg	58:29.58	-0.14
PSZ	56.5	87	eSg	8:58:43.08	0.30
VYHS	70.8	341	ePg	8:58:37.60	0.15
			eSg	58:47.20	-0.11
PKSG	79.0	225	eSg	8:58:49.86	-0.07
CSKK	88.4	228	eSg	8:58:54.20	1.30
PKST	108.9	230	eSg	8:58:58.07	-1.34
KECS	119.8	57	ePg	8:58:46.90	0.69
			eSg	59:01.70	-1.20
MPLH	144.7	236	eSn	8:59:08.99	-0.46

Hypocenter Parameters

Földrengés paraméterek

188.

2017-05-18 time: 9:35:38.64 UTC ML= 1.3
 lat: 48.571N lon: 20.785E h= 0.0 km
 erh= 2.7km erz= 3.1km
 nr= 10 gap=163 rms=0.66
 Locality: Tornanádaska
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	24.2	246	ePg	9:35:42.60			-0.36
			eSg		35:46.70		0.37
ABAH	45.4	132	ePg	9:35:47.37			0.62
			eSg		35:53.13		0.05
PSZ	98.2	222	ePg	9:35:57.00			0.82
			eSg		36:09.13		-0.72
KOLS	116.6	70	eSg	9:36:16.10			0.40
TRPA	138.9	111	eSn	9:36:19.57			-2.42
VYHS	144.2	267	ePn	9:36:03.20			-0.46
			eSn		36:22.50		-0.67

189.

2017-05-18 time: 10:55:26.83 UTC ML= 0.4
 lat: 47.206N lon: 18.295E h= 0.0 km
 erh= 1.5km erz= 201km
 nr= 6 gap=268 rms=0.12
 Locality: Székesfehérvár
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	17.7	352	ePg	10:55:29.83			-0.17
			eSg		55:32.45		-0.02
PKST	20.6	287	ePg	10:55:30.47			-0.05
			eSg		55:33.42		0.03
PKSG	21.9	19	ePg	10:55:30.97			0.22
			eSg		55:33.80		-0.01

190.

2017-05-18 time: 14:00:55.61 UTC ML= 1.1
 lat: 47.078N lon: 19.422E h= 0.0 km
 erh= 7.5km erz= 960km
 nr= 8 gap=312 rms=0.68
 Locality: Tatárszentgyörgy
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKS7	20.2	260	ePg	14:00:58.74			-0.46
			eSg		01:01.98		-0.03
PKB1	58.1	236	ePg	14:01:05.72			-0.25
PKB5	75.0	224	ePg	14:01:09.99			0.99
			eSg		01:20.39		0.93
MORH	112.9	212	ePg	14:01:15.84			0.08
PKSM	113.4	212	ePg	14:01:15.68			-0.17
			eSg		01:29.86		-1.78

191.

2017-05-18 time: 18:15:43.44 UTC ML= 1.3
 lat: 47.411N lon: 18.192E h= 10.9 km
 erh= 1.5km erz= 0.9km
 nr= 26 gap= 86 rms=0.54
 Locality: Pusztavám
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	7.4	136	ePgC	18:15:45.58			-0.20
			eSg		15:47.35		-0.26
PKSG	15.1	98	ePgC	18:15:46.30			-0.46
			eSg		15:48.89		-0.47
PKST	20.7	215	ePgC	18:15:47.51			-0.10
			eSg		15:50.54		-0.32
SRO	45.7	11	ePg	18:15:52.80			0.98

			eSg	15:58.20			-0.16
MPLH	56.2	242	ePg	18:15:53.80			0.15
			eSg		16:02.03		0.41
PKB1	83.2	147	ePg	18:15:58.90			0.48
			eSg		16:10.06		-0.05
PKB5	99.7	156	eP*	18:16:01.77			0.45
			eS*		16:14.23		-1.05
PKB4	106.4	163	ePn	18:16:02.73			0.39
			eSn		16:16.04		-1.05
PKB2	114.3	136	ePn	18:16:04.02			0.69
			eSn		16:18.88		0.03
MODS	127.1	327	ePn	18:16:04.00			-0.92
			eSn		16:18.90		-2.78*
VYHS	129.7	22	ePn	18:16:05.50			0.25
			eSn		16:20.50		-1.77
MORH	137.2	165	ePn	18:16:05.92			-0.27
			eSn		16:21.36		-2.58*
PKSM	137.6	166	ePn	18:16:06.01			-0.23
KOVH	147.2	183	eSn	18:16:26.78			0.63

192.

2017-05-19 time: 3:15:09.32 UTC ML= 1.8
 lat: 46.151N lon: 16.786E h= 6.8 km
 erh= 3.0km erz= 2.4km
 nr= 26 gap=142 rms=1.01
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
BEHE	35.5	359	ePgD	3:15:15.43			-0.34
			eSg		15:19.95		-0.84
PTJ	69.9	246	ePg	3:15:21.70			-0.16
			eSg		15:31.58		-0.07
KOVH	101.8	94	ePg	3:15:27.76			0.22
			eSg		15:40.79		-0.96
PKSV	117.2	104	ePn	3:15:29.94			-0.17
			eSn		15:44.08		-2.24
MPLH	127.1	27	ePn	3:15:31.16			-0.18
PKSM	143.4	87	ePn	3:15:32.55			-0.82
			eSn		15:53.91		1.78
MORH	143.6	87	ePn	3:15:32.66			-0.74
			eSn		15:52.55		0.37
PKB4	145.2	75	eSn	3:15:53.12			0.60
SOKA	147.0	293	Pn	3:15:34.48			0.66
			Sn		15:50.14		-2.78
ARSA	155.8	322	Pn	3:15:35.36			0.45
			Sn		15:52.52		-2.35
PKST	155.8	38	ePn	3:15:33.81			-1.11
			eSn		15:53.84		-1.05
PKB1	169.4	65	ePn	3:15:38.38			1.77
			eSn		16:00.21		2.31
RONA	176.1	348	Pn	3:15:38.53			1.08
OBKA	176.8	283	Pn	3:15:38.78			1.25
			Sn		16:00.71		1.17
PKSG	184.5	42	ePn	3:15:39.78			1.28

193.

2017-05-20 time: 0:27:30.80 UTC ML= 2.1
 lat: 47.766N lon: 19.012E h= 5.5 km
 erh= 1.1km erz= 1.0km
 nr= 58 gap= 53 rms=0.68
 Locality: Dunabogdány
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PENC	20.4	82	ePg	0:27:34.54			-0.03
			eSg		27:38.03		0.51
BUD	31.4	178	ePg	0:27:37.75			1.25
			eSg		27:40.78		-0.16
SRO	52.6	276	ePg	0:27:40.40			0.16
			eSg		27:48.50		0.89
PKSG	62.6	228	ePgD	0:27:41.88			-0.14
			eSg		27:50.83		0.06

Földrengés paraméterek

PSZ	68.2	76	ePg	0:27:42.29	-0.72
			eSg	27:52.38	-0.17
CSKK	72.2	232	ePg	0:27:43.44	-0.28
			eSg	27:53.03	-0.77
PKS7	80.7	172	ePg	0:27:45.63	0.38
			eSg	27:56.38	-0.14
VYHS	82.0	351	ePg	0:27:45.10	-0.37
			eSg	27:55.60	-1.31
PKST	92.8	233	ePg	0:27:46.89	-0.50
			eSg	27:59.82	-0.51
BSZH	107.8	119	ePg	0:27:50.36	0.28
			eSg	28:04.85	-0.26
PKB1	110.4	189	ePg	0:27:50.53	-0.01
			eSg	28:04.32	-1.62
PKSN	116.3	146	ePg	0:27:51.59	0.01
			eSg	28:08.11	0.31
PKB2	122.6	172	ePn	0:27:52.02	-0.40
			eSn	28:08.16	-1.12
TIH	128.2	221	ePn	0:27:50.75	-2.35
			eSn	28:12.98	2.48
MPLH	129.3	239	ePn	0:27:53.36	0.12
			eSn	28:11.65	0.90
PKB5	131.9	189	ePn	0:27:53.51	-0.06
			eSn	28:10.00	-1.33
EGYH	132.2	253	ePn	0:27:54.55	0.94
			eSn	28:12.25	0.85
KECS	135.6	54	eSn	0:28:11.30	-0.86
PKS6	136.3	162	ePn	0:27:55.40	1.28
			eSn	28:12.29	-0.01
PKS9	142.4	203	ePn	0:27:56.37	1.49
			eSn	28:13.49	-0.17
PKS2	142.5	174	ePn	0:27:54.41	-0.48
			eSn	28:14.27	0.59
PKB4	144.5	192	ePn	0:27:55.09	-0.06
			eSn	28:13.52	-0.62
MODS	145.8	298	ePn	0:27:55.30	-0.01
			eSn	28:12.90	-1.53
PKB3	149.9	175	ePn	0:27:55.71	-0.10
			eSn	28:15.58	0.25
LANS	157.6	12	ePn	0:27:57.40	0.63
			eSn	28:16.50	-0.53
MORH	174.6	189	ePn	0:27:58.31	-0.59
			eSn	28:17.54	-3.27*
PKSM	175.1	189	ePn	0:27:58.39	-0.57
			eSn	28:17.37	-3.55*
ABAH	176.3	70	ePn	0:28:00.11	1.01
KOVH	199.1	200	ePn	0:28:01.89	-0.05
RONA	203.8	268	Pn	0:28:03.45	0.91
			Sn	28:27.72	0.42
CONA	236.5	274	Pn	0:28:06.92	0.31
			Sn	28:33.89	-0.65
KRLC	304.4	328	ePn	0:28:16.50	1.42*
DPC	348.2	326	ePn	0:28:20.90	0.37*
KHC	429.7	291	ePn	0:28:30.40	-0.30*

194.

2017-05-22 time: 6:43:58.63 UTC ML= 1.1
 lat: 47.314N lon: 17.646E h= 10.0 km
 erh= 2.1km erz= 2.1km
 nr= 16 gap=105 rms=0.57
 Locality: Homokbödöge
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
MPLH	18.0	207	ePg	6:44:01.72			-0.58
			eSg	44:05.46			0.30
EGYH	26.4	296	ePg	6:44:03.37			-0.30
			eSg	44:08.44			0.85
PKST	30.0	102	ePg	6:44:04.05			-0.22
			eSg	44:08.34			-0.33
CSKK	46.7	83	ePg	6:44:07.61			0.45
			eSg	44:14.88			1.06
PKSG	56.9	81	ePg	6:44:09.08			0.14
			eSg	44:16.27			-0.72

Hypocenter Parameters

SRO	74.8	42	ePg	6:44:12.00	-0.11
			eSg	44:22.20	-0.42
MODS	121.0	347	ePn	6:44:19.00	-0.47
			eSn	44:35.00	-0.73
VYHS	158.5	34	ePn	6:44:25.30	1.15
			eSn	44:45.00	0.95

195.

2017-05-22 time: 9:24:55.85 UTC ML= 1.3
 lat: 48.644N lon: 20.774E h= 0.0 km
 erh= 3.4km erz= 5.7km
 nr= 10 gap=118 rms=0.80
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	27.8	230	ePg	9:25:00.90			0.09
			eSg	25:05.00			0.32
ABAH	51.8	138	ePg	9:25:05.87			0.77
			eSg	25:11.17			-1.14
STHS	92.6	22	eSg	9:25:24.40			-0.87
PSZ	103.8	219	ePg	9:25:14.96			0.58
			eSg	25:27.73			-1.11
KOLS	114.8	74	eSg	9:25:32.60			0.27
VYHS	144.0	263	ePn	9:25:21.90			1.06
			eSn	25:39.00			-1.33

196.

2017-05-22 time: 11:00:28.38 UTC ML= 1.9
 lat: 48.872N lon: 20.926E h= 0.1 km
 erh= 2.2km erz= 3.6km
 nr= 11 gap=126 rms=0.54
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
KECS	54.0	217	ePg	11:00:38.50			0.47
			eSg	00:45.10			-0.45
STHS	64.9	21	eSg	11:00:47.80			-1.20
ABAH	68.1	160	ePg	11:00:40.63			0.10
			eSg	00:49.61			-0.41
KOLS	99.0	86	ePg	11:00:46.60			0.54
			eSg	00:59.70			-0.15
PSZ	130.7	216	ePn	11:00:52.12			0.43
			eSn	01:08.89			-0.99
VYHS	159.5	255	ePn	11:00:55.60			0.31
			eSn	01:13.60			-2.68*

197.

2017-05-22 time: 11:36:22.74 UTC ML= 0.7
 lat: 47.208N lon: 18.290E h= 0.0 km
 erh= 1.4km erz= 195km
 nr= 6 gap=266 rms=0.12
 Locality: Iszcaszentgyörgy
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	17.4	353	ePg	11:36:25.67			-0.17
			eSg	36:28.18			-0.08
PKST	20.2	286	ePg	11:36:26.29			-0.05
			eSg	36:29.19			0.05
PKSG	21.8	20	ePg	11:36:26.82			0.19
			eSg	36:29.73			0.07

Hypocenter Parameters

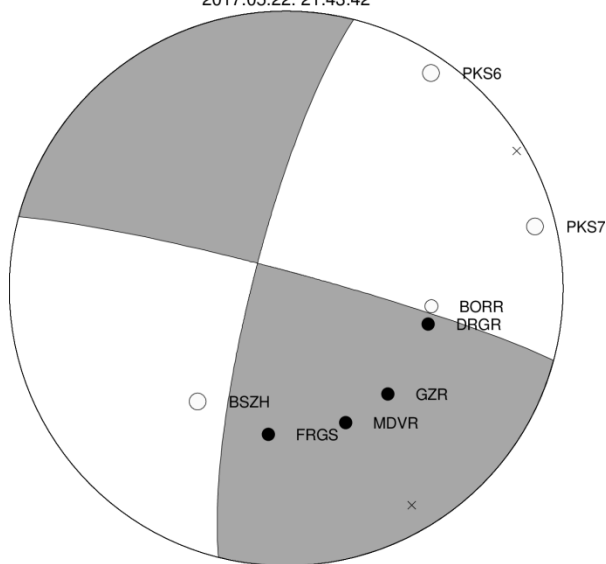
Földrengés paraméterek

198.

2017-05-22 time: 21:43:42.71 UTC ML= 2.1
 lat: 47.227N lon: 20.184E h= 10.9 km
 erh= 1.5km erz= 1.1km
 nr= 46 gap= 60 rms=0.75
 Locality: Szolnok
 Comments:

sta	dist	azm	phase	hr mn sec	res
BSZH	10.2	38	ePgD	21:43:45.39	0.02
			eSg	43:47.12	-0.34
PKSN	43.8	213	ePg	21:43:51.25	0.48
			eSg	43:58.92	1.85
PSZ	79.9	344	ePg	21:43:56.57	-0.54
			eSg	44:08.21	-0.14
PKS7	80.2	256	ePgD	21:43:57.04	-0.11
			eSg	44:08.75	0.33
PKS6	84.2	214	ePgD	21:43:58.01	0.15
			eSg	44:10.37	0.68
PENC	92.5	313	ePg	21:43:59.38	0.04
			eSg	44:12.49	0.18
PKB2	94.5	229	ePg	21:43:59.13	-0.55
			eSg	44:13.58	0.65
AMBH	105.8	157	eP*	21:44:02.23	0.69
			eS*	44:16.60	0.38
PKS2	110.3	222	ePn	21:44:01.19	-0.91
PKB1	116.8	245	ePn	21:44:02.04	-0.87
			eSn	44:17.64	-1.02
PKB3	116.9	220	ePn	21:44:03.02	0.09
			eSn	44:17.92	-0.78
BORR	122.4	97	PnD	21:44:03.92	0.31
			Sn	44:19.10	-0.81
PKB5	130.8	238	eSn	21:44:23.09	1.30
PKSG	136.9	278	ePn	21:44:05.92	0.50
			eSn	44:22.80	-0.33
KECS	141.5	9	ePn	21:44:06.40	0.41
			eSn	44:24.80	0.64
ABAH	142.8	34	ePn	21:44:06.86	0.71
			eSn	44:24.69	0.25
PKB4	145.3	236	ePn	21:44:05.64	-0.83
CSKK	146.3	276	ePn	21:44:07.52	0.93
			eSn	44:25.45	0.23
PKS9	161.7	244	ePn	21:44:11.00	2.49
			eSn	44:32.43	3.80*
MORH	162.8	226	ePn	21:44:07.06	-1.58
			eSn	44:31.27	2.39
PKSM	163.2	226	ePn	21:44:07.13	-1.57
			eSn	44:31.12	2.14
VYHS	173.3	324	ePn	21:44:10.00	0.04
			eSn	44:33.00	1.79
DRGR	198.1	104	PnC	21:44:12.42	-0.63
PKSV	210.0	225	ePn	21:44:13.28	-1.25
FRGS	234.3	187	PnC	21:44:17.79	0.23
			Sn	44:45.00	0.26
GZR	285.3	136	PnC	21:44:24.28	0.36
MDVR	296.5	156	PnC	21:44:25.17	-0.14

2017.05.22. 21:43:42



199.

2017-05-23 time: 8:03:15.86 UTC ML= 1.2
 lat: 48.599N lon: 20.732E h= 0.0 km
 erh= 3.1km erz= 5.3km
 nr= 12 gap=117 rms=0.81
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.3	235	ePg	8:03:19.80	-0.04
			eSg	03:23.70	0.75
ABAH	50.5	132	ePg	8:03:23.99	-0.88
			eSg	03:31.45	-0.45
PSZ	98.0	219	ePg	8:03:33.24	-0.11
			eSg	03:47.16	0.16
STHS	98.3	22	ePg	8:03:33.90	0.49
			eSg	03:44.50	-2.61
KOLS	119.2	72	ePg	8:03:38.90	1.75
			eSg	03:53.10	-0.66
VYHS	140.5	265	ePn	8:03:40.20	-0.21
			eSn	03:58.70	-0.86

200.

2017-05-23 time: 8:04:35.58 UTC ML= 1.7
 lat: 45.544N lon: 17.824E h= 2.7 km
 erh= 6.8km erz= 6.1km
 nr= 13 gap=245 rms=0.80
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	64.2	19	ePg	8:04:47.32	0.27
			eSg	04:56.71	0.71
PKSM	97.6	41	ePg	8:04:52.72	-0.30
			eSg	05:05.46	-1.17
MORH	98.1	40	ePg	8:04:52.72	-0.39
			eSg	05:05.31	-1.47
PKB4	121.9	30	eSg	8:05:15.16	0.84
BEHE	131.2	322	ePn	8:04:58.11	-0.52
			eSn	05:15.91	-0.69
PKB5	136.4	31	ePn	8:04:59.80	0.51
PTJ	150.6	285	ePn	8:05:01.02	-0.03
PKB1	156.8	28	ePn	8:05:03.71	1.88
MPLH	182.1	353	ePn	8:05:05.90	0.92

Földrengés paraméterek

Hypocenter Parameters

201.

2017-05-23 time: 9:03:23.35 UTC ML= 0.5
 lat: 47.178N lon: 18.295E h= 0.0 km
 erh= 1.2km erz= 164km
 nr= 6 gap=278 rms=0.10
 Locality: Sárkeszi
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	20.7	353	ePg	9:03:26.95	-0.10
			eSg	03:29.94	0.00
PKST	21.7	295	ePg	9:03:27.16	-0.06
			eSg	03:30.28	0.04
PKSG	24.8	17	ePg	9:03:27.97	0.19
			eSg	03:31.20	-0.05

202.

2017-05-23 time: 11:37:50.29 UTC ML= 1.4
 lat: 47.460N lon: 18.411E h= 0.0 km
 erh= 1.5km erz= 162km
 nr= 5 gap=319 rms=0.07
 Locality: Várgesztes
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	7.7	191	ePgC	11:37:51.73	0.06
			eSg	37:52.66	-0.08
CSKK	15.6	227	ePg	11:37:52.98	-0.10
			eSg	37:55.28	0.03
PKST	36.1	232	eSg	11:38:01.85	0.07

203.

2017-05-24 time: 8:55:26.25 UTC ML= 1.1
 lat: 47.538N lon: 18.551E h= 0.0 km
 erh= 3.6km erz= 658km
 nr= 9 gap=205 rms=0.49
 Locality: Nagygyháza
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	20.2	217	ePg	8:55:29.51	-0.35
			eSg	55:32.96	0.28
CSKK	29.3	228	ePg	8:55:31.03	-0.45
			eSg	55:35.52	-0.03
SRO	35.5	330	eSg	8:55:37.10	-0.43
PKST	49.8	232	ePg	8:55:35.03	-0.12
			eSg	55:41.85	-0.24
MPLH	86.7	242	eSg	8:55:55.12	1.32
VYHS	108.4	11	e g	8:55:46.30	0.69

204.

2017-05-25 time: 6:26:40.78 UTC ML= 0.6
 lat: 47.311N lon: 18.343E h= 0.0 km
 erh= 4.6km erz= 4.4km
 nr= 6 gap=235 rms=0.14
 Locality: Magyaralmás
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	8.6	313	ePg	6:26:42.97	-0.02
			eSg	26:44.41	-0.31
PKSG	9.7	22	ePg	6:26:43.14	0.00
			eSg	26:45.16	0.18
PKST	24.1	256	ePg	6:26:45.30	-0.06
			eSg	26:49.13	0.19

205.

2017-05-25 time: 8:30:33.90 UTC ML= 0.9
 lat: 46.051N lon: 18.124E h= 0.0 km
 erh= 3.0km erz= 542km
 nr= 10 gap=270 rms=0.43
 Locality: Cserkút
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	4.6	336	ePgC	8:30:34.68	-0.04
			eSg	30:35.86	0.51
PKSM	43.8	66	ePg	8:30:41.94	0.22
			eSg	30:47.58	-0.25
MORH	44.2	65	ePg	8:30:41.96	0.17
			eSg	30:48.04	0.09
PKB5	76.7	38	ePg	8:30:48.02	0.43
			eSg	30:58.44	0.16
PKB1	96.4	32	ePg	8:30:49.96	-1.15
			eSg	31:03.97	-0.57

206.

2017-05-27 time: 4:47:13.43 UTC ML= 1.6
 lat: 46.201N lon: 16.607E h= 8.7 km
 erh= 2.1km erz= 1.6km
 nr= 23 gap=158 rms=0.68
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	32.6	23	ePgD	4:47:19.43	-0.03
			eSg	47:23.61	-0.56
KOGS	38.9	315	iPg	4:47:20.72	0.18
			iSg	47:25.93	-0.16
GOLS	78.9	254	iPg	4:47:27.93	0.33
			iSg	47:39.29	0.64
DOBS	88.1	266	iPg	4:47:28.86	-0.37
			iSg	47:40.94	-0.62
KOVH	116.0	96	ePn	4:47:33.45	-0.36
			eSn	47:47.86	-1.85
SOKA	132.1	294	Pn	4:47:36.70	0.88
			Sn	47:52.87	-0.42
PKS9	135.6	72	eSn	4:47:55.20	1.15
ARSA	143.1	325	Pn	4:47:37.95	0.76
			Sn	47:54.80	-0.93
PKSM	157.0	90	ePn	4:47:37.63	-1.29
PKB4	157.2	78	eSn	4:48:00.07	1.22
MORH	157.2	89	ePn	4:47:37.64	-1.31
			eSn	48:01.27	2.41*
OBKA	162.1	282	Pn	4:47:40.18	0.62
			Sn	48:00.09	0.15
RONA	168.3	352	Pn	4:47:40.92	0.59
			Sn	48:00.86	-0.46

207.

2017-05-30 time: 11:10:59.11 UTC ML= 0.3
 lat: 47.160N lon: 18.307E h= 0.0 km
 erh= 1.2km erz= 159km
 nr= 6 gap=284 rms=0.09
 Locality: Sárkeszi
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	22.9	351	ePg	11:11:03.22	0.03
			eSg	11:06.13	-0.25
PKST	23.4	298	ePg	11:11:03.30	0.01
			eSg	11:06.59	0.04
PKSG	26.5	14	ePg	11:11:03.81	-0.04
			eSg	11:07.68	0.13

Hypocenter Parameters

Földrengés paraméterek

208.

2017-06-01 time: 11:27:22.87 UTC ML= 1.1
 lat: 47.121N lon: 17.981E h= 10.0 km
 erh= 2.4km erz= 3.0km
 nr= 13 gap= 96 rms=0.69
 Locality: Kádárta
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	15.8	15	ePg	11:27:25.42	-0.79
			eSg	27:28.62	-0.20
TIH	25.5	195	ePg	11:27:26.78	-0.99
			eSg	27:30.85	-0.73
MPLH	33.9	279	ePg	11:27:30.23	1.05
			eSg	27:34.37	0.26
CSKK	34.2	38	ePg	11:27:29.25	0.01
			eSg	27:34.07	-0.13
PKB1	72.3	121	eSg	11:27:46.13	0.07
PKB5	82.1	135	ePg	11:27:38.71	1.07
			eSg	27:49.74	0.58
KOVH	115.2	175	ePn	11:27:42.89	-0.10
			eSn	27:58.18	-0.51

209.

2017-06-02 time: 7:53:30.56 UTC ML= 2.0
 lat: 48.297N lon: 21.226E h= 0.0 km
 erh= 2.3km erz= 506km
 nr= 7 gap=148 rms=0.34
 Locality: Abaújalpár
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	1.0	99	ePgC	7:53:30.88	0.14
KECS	58.6	291	ePg	7:53:40.70	-0.33
			eSg	53:49.20	0.01
KOLS	104.7	48	ePg	7:53:49.40	0.15
			eSg	54:03.90	0.07
PSZ	107.8	247	ePg	7:53:49.35	-0.45
			eSg	54:05.79	0.97

210.

2017-06-02 time: 9:36:02.55 UTC ML= 1.0
 lat: 46.049N lon: 18.114E h= 0.0 km
 erh= 3.3km erz= 574km
 nr= 10 gap=280 rms=0.45
 Locality: Pellérd
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	4.4	346	ePgC	9:36:02.94	-0.41
			eSg	36:04.24	0.28
PKSM	44.6	66	ePg	9:36:10.20	-0.31
			eSg	36:17.15	0.43
MORH	45.0	66	ePg	9:36:10.28	-0.30
			eSg	36:16.97	0.13
PKS9	61.1	12	ePg	9:36:14.12	0.66
PKB5	77.3	38	ePg	9:36:16.74	0.39
			eSg	36:27.22	0.11
PKB1	96.9	33	eSg	9:36:32.29	-1.06

211.

2017-06-05 time: 10:46:20.51 UTC ML= 1.1
 lat: 47.352N lon: 18.167E h= 5.7 km
 erh= 3.0km erz= 5.2km
 nr= 10 gap=211 rms=0.54
 Locality: Nagyveleg
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	7.2	80	ePgC	10:46:22.14	-0.01

			eSg	46:23.52	0.09
PKST	14.4	224	ePgD	10:46:22.97	-0.30
			eSg	46:24.96	-0.46
PKSG	17.5	75	ePg	10:46:23.82	0.02
			eSg	46:26.65	0.29
TIH	54.3	202	eSg	10:46:38.81	0.94
PKB1	79.0	143	ePg	10:46:35.55	0.90
			eSg	46:44.56	-1.12
PKB5	94.6	153	eSg	10:46:50.10	-0.54

212.

2017-06-07 time: 11:44:43.94 UTC ML= 1.5
 lat: 46.858N lon: 17.402E h= 7.1 km
 erh= 2.6km erz= 4.4km
 nr= 15 gap=134 rms=0.77
 Locality: Raposka
 Comments:

sta	dist	azm	phase	hr mn sec	res
MPLH	36.3	17	ePg	11:44:49.56	-0.98
			eSg	44:56.56	0.87
TIH	37.8	83	ePg	11:44:50.96	0.16
			eSg	44:55.38	-0.77
BEHE	64.4	228	ePg	11:44:55.49	-0.03
			eSg	45:05.92	1.37
PKST	65.6	47	ePg	11:44:55.20	-0.52
			eSg	45:05.10	0.19
PKSG	95.7	52	eSg	11:45:15.33	0.89
KOGS	99.2	243	ePg	11:45:01.70	0.00
			eSg	45:14.01	-1.54
KOVH	101.0	148	ePg	11:45:02.30	0.29
			eSg	45:15.23	-0.88
MORH	119.1	127	ePn	11:45:06.18	1.26
			eSn	45:19.52	-1.76

213.

2017-06-09 time: 10:30:52.76 UTC ML= 1.9
 lat: 48.235N lon: 21.205E h= 0.0 km
 erh= 3.1km erz= 5.1km
 nr= 7 gap=205 rms=0.61
 Locality: Golop
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	7.3	21	ePgC	10:30:53.70	-0.36
KECS	60.0	297	ePg	10:31:03.60	0.12
			eSg	31:11.70	-0.14
PSZ	103.8	250	ePgC	10:31:11.88	0.59
			eSg	31:25.25	-0.50
KOLS	110.7	45	eSg	10:31:27.20	-0.73
STHS	131.5	1	eSn	10:31:36.70	2.24

214.

2017-06-09 time: 11:52:21.47 UTC ML= 1.8
 lat: 48.246N lon: 21.221E h= 0.0 km
 erh= 3.4km erz= 677km
 nr= 8 gap=204 rms=0.49
 Locality: Tállya
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	5.7	14	ePgC	11:52:22.38	-0.11
			eSg	52:23.54	0.26
KECS	60.5	296	ePg	11:52:32.30	0.02
			eSg	52:40.40	-0.31
PSZ	105.4	250	ePg	11:52:41.11	0.82
			eSg	52:54.15	-0.82
KOLS	108.9	45	ePg	11:52:41.30	0.38
			eSg	52:55.30	-0.78

Földrengés paraméterek

Hypocenter Parameters

215.

2017-06-11 time: 16:22:32.56 UTC ML= 2.0
 lat: 47.351N lon: 17.597E h= 11.8 km
 erh= 1.4km erz= 1.0km
 nr= 50 gap= 42 rms=0.80
 Locality: Béb
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
MPLH	20.6	192	ePgD	16:22:36.52			-0.27
			eSg		22:39.47		-0.63
EGYH	21.3	290	ePgc	16:22:37.75			0.84
			eSg		22:41.57		1.27
PKST	34.6	107	ePg	16:22:38.89			-0.20
			eSg		22:43.46		-0.72
CSKK	50.1	88	ePg	16:22:41.70			-0.05
			eSg		22:47.11		-1.82
TIH	54.9	156	ePg	16:22:42.49			-0.10
			eSg		22:48.43		-1.99
PKSG	60.1	86	ePg	16:22:42.79			-0.70
			eSg		22:51.72		-0.30
SRO	74.5	46	ePg	16:22:46.10			0.08
			eSg		22:56.40		-0.12
SOP	86.5	295	ePg	16:22:48.20			0.05
			eSg		23:00.22		-0.10
PKS9	99.5	149	eP*	16:22:51.18			0.84
			eS*		23:04.18		-0.04
ZST	101.0	338	eP*	16:22:50.60			0.03
			eS*		23:02.60		-2.02
RONA	105.4	292	Pn	16:22:51.10			-0.12
			Sn		23:04.35		-1.43
BUD	108.7	82	eSn	16:23:05.93			-0.59
PKB1	110.5	125	ePn	16:22:51.94			0.08
			eSn		23:05.89		-1.03
MODS	116.2	348	ePn	16:22:52.80			0.23
			eSn		23:06.30		-1.89
BEHE	116.2	213	ePn	16:22:53.13			0.55
			eSn		23:07.55		-0.65
PKB5	120.7	134	ePn	16:22:53.90			0.76
			eSn		23:08.55		-0.64
PKB4	122.1	141	ePn	16:22:53.97			0.66
			eSn		23:08.95		-0.55
SMOL	129.9	354	eSn	16:23:10.40			-0.83
PENC	135.8	69	ePn	16:22:56.41			1.39
			eSn		23:16.43		3.88*
CONA	145.4	296	Pn	16:22:56.22			0.01
			Sn		23:14.49		-0.17
MORH	149.4	148	ePn	16:22:57.47			0.75
			eSn		23:15.29		-0.27
VYHS	157.2	36	ePn	16:22:58.90			1.21
			eSn		23:15.80		-1.50
ARSA	157.3	266	Pn	16:22:58.04			0.34
			Sn		23:15.73		-1.57
PSZ	183.8	70	ePn	16:23:03.86			2.85
			eSn		23:27.46		4.27*
SOKA	208.9	249	Pn	16:23:07.49			3.36
			Sn		23:28.23		-0.53
OBKA	250.3	248	Pn	16:23:08.88			-0.42
			Sn		23:36.93		-1.03
MOA	256.6	282	Pn	16:23:39.45			0.11
DPC	346.4	344	ePn	16:23:22.60			1.32*
			eSn		23:56.10		-3.18*

216.

2017-06-11 time: 17:37:17.25 UTC ML= 1.3
 lat: 47.350N lon: 17.593E h= 10.0 km
 erh= 2.4km erz= 1.9km
 nr= 27 gap= 74 rms=1.02
 Locality: Béb
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
MPLH	20.4	191	ePgD	17:37:21.09			-0.22

			eSg			37:24.02	-0.45
EGYH	21.1	291	ePg	17:37:22.40			0.98
			eSg			37:26.05	1.38
PKST	34.9	107	ePg	17:37:23.46			-0.27
			eSg			37:27.97	-0.81
PKSG	60.4	86	ePg	17:37:27.76			-0.43
			eSg			37:35.45	-1.27
SRO	74.8	46	ePg	17:37:30.90			0.18
			eSg			37:41.40	0.17
SOP	86.3	295	ePg	17:37:32.59			-0.18
			eSg			37:44.09	-0.78
RONA	105.1	292	P*	17:37:36.11			0.06
			S*			37:49.11	-1.61
PKB1	110.7	125	ePn	17:37:36.47			-0.34
			eSn			37:49.68	-2.38
MODS	116.3	348	ePn	17:37:37.10			-0.40
			eSn			37:50.90	-2.40
CONA	145.1	296	Pn	17:37:43.46			2.36
			Sn			37:59.13	-0.58
KOVH	145.5	165	ePn	17:37:42.72			1.57
			eSn			37:59.00	-0.79
MORH	149.4	148	ePn	17:37:42.91			1.27
PKSM	149.7	148	ePn	17:37:42.98			1.31
ARSA	156.9	266	Sn	17:38:00.46			-1.87
VYHS	157.5	36	ePn	17:37:43.60			0.95
			eSn			38:00.40	-2.06

217.

2017-06-12 time: 8:25:07.35 UTC ML= 1.1
 lat: 46.253N lon: 18.454E h= 0.0 km
 erh= 1.2km erz= 403km
 nr= 9 gap=147 rms=0.30
 Locality: Kismányok
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
MORH	15.2	106	ePg	8:25:09.90			-0.17
			eSg			25:12.28	0.10
PKB4	29.4	23	ePg	8:25:12.50			-0.10
			eSg			25:16.92	0.22
KOVH	32.9	236	ePg	8:25:13.20			-0.03
			eSg			25:17.83	0.02
PKSV	43.4	201	eSg	8:25:21.22			0.07
PKB5	43.8	30	eSg	8:25:20.89			-0.37
PKB1	64.5	24	eSg	8:25:29.47			1.61

218.

2017-06-12 time: 8:58:10.65 UTC ML= 0.6
 lat: 46.170N lon: 18.294E h= 0.0 km
 erh= 1.0km erz= 202km
 nr= 8 gap=200 rms=0.14
 Locality: Zobákpuszta
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	17.5	239	ePgC	8:58:13.62			-0.16
			eSg			58:16.52	0.30
PKSM	27.2	80	ePg	8:58:15.54			0.03
			eSg			58:19.46	0.16
MORH	27.5	79	ePg	8:58:15.43			-0.13
			eSg			58:19.48	0.08
PKSV	31.4	186	ePgC	8:58:16.34			0.08
			eSg			58:20.46	-0.18

219.

2017-06-15 time: 8:56:31.93 UTC ML= 1.5
 lat: 48.619N lon: 20.779E h= 0.0 km
 erh= 3.1km erz= 931km
 nr= 7 gap=146 rms=0.62
 Locality: Slovakia
 Comments: probably explosion

Hypocenter Parameters

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
KECS	26.4	235	ePg	8:56:36.50	-0.14
			eSg	56:40.00	-0.33
ABAH	49.5	137	ePg	8:56:41.64	0.87
			eSg	56:46.51	-1.15
STHS	95.0	21	ePg	8:56:49.50	0.62
			eSg	57:01.60	-0.51
PSZ	101.9	220	eSg	8:57:04.23	-0.09

220.

2017-06-15 time: 10:30:43.65 UTC ML= 0.7
 lat: 45.880N lon: 18.381E h= 0.0 km
 erh= 3.8km erz= 789km
 nr= 14 gap=247 rms=0.68
 Locality: Kisharsány
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	10.1	275	ePg	10:30:45.04	-0.41
			eSg	30:46.22	-0.63
KOVH	31.8	317	ePg	10:30:49.59	0.27
			eSg	30:53.64	-0.11
PKSM	42.0	29	ePg	10:30:50.86	-0.28
			eSg	30:56.04	-0.95
MORH	42.5	29	ePg	10:30:50.84	-0.39
			eSg	30:57.29	0.14
PKB4	70.6	14	ePg	10:30:56.10	-0.15
			eSg	31:05.94	-0.15
PKS9	78.9	354	ePg	10:30:59.32	1.57
			eSg	31:10.89	2.15
PKB1	105.3	17	ePg	10:31:02.96	0.50
			eSg	31:16.62	-0.51

221.

2017-06-15 time: 21:45:22.77 UTC ML= 1.6
 lat: 45.618N lon: 18.551E h= 10.0 km
 erh= 3.1km erz= 1.6km
 nr= 13 gap=297 rms=0.44
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	62.9	326	ePg	21:45:34.26	0.12
			eSg	45:42.63	-0.38
PKSM	66.3	6	ePg	21:45:34.82	0.07
			eSg	45:43.64	-0.46
MORH	66.8	6	ePg	21:45:34.86	0.03
			eSg	45:43.56	-0.68
PKB4	97.7	2	ePg	21:45:41.02	0.72
			eSg	45:54.37	0.39
PKB3	102.5	29	ePg	21:45:40.56	-0.60
			eSg	45:56.01	0.51
PKB5	109.5	8	eSn	21:45:57.22	-0.10
			ePn	21:45:41.92	-0.28
PKS9	109.7	349	ePn	21:45:41.92	-0.28
			eSn	45:58.08	0.72

222.

2017-06-16 time: 6:14:41.98 UTC ML= 0.7
 lat: 47.268N lon: 18.374E h= 0.0 km
 erh= 4.7km erz= 683km
 nr= 6 gap=263 rms=0.41
 Locality: Sárkeresztos
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	13.7	321	ePg	6:14:44.13	-0.28
			eSg	14:45.57	-0.75
PKSG	13.8	5	ePg	6:14:44.47	0.02
			eSg	14:46.89	0.51
PKST	25.7	268	ePg	6:14:46.55	-0.02
			eSg	14:50.80	0.64

223.

2017-06-16 time: 9:30:21.20 UTC ML= 1.7
 lat: 47.871N lon: 19.119E h= 0.0 km
 erh= 1.2km erz= 1.5km
 nr= 12 gap=102 rms=0.39
 Locality: Szendehely
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	15.1	126	ePg	9:30:23.95	0.05
			eSg	30:26.13	0.13
PSZ	58.2	85	eSg	9:30:39.98	0.27
VYHS	72.4	343	ePg	9:30:36.00	1.87
			eSg	30:43.50	-0.72
PKSG	76.4	226	ePg	9:30:35.36	0.52
			eSg	30:45.65	0.18
CSKK	85.7	229	eSg	9:30:48.41	-0.04
PKB1	123.3	192	eSg	9:30:59.58	-0.81
MPLH	142.2	237	eSn	9:31:05.23	-0.05
PKB5	144.8	192	eSn	9:31:05.60	-0.25
MODS	148.1	292	eSn	9:31:06.70	0.12

224.

2017-06-19 time: 23:40:41.17 UTC ML= 1.4
 lat: 47.762N lon: 16.185E h= 10.0 km
 erh= 1.7km erz= 1.2km
 nr= 40 gap= 65 rms=0.83
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr mn sec	res
RONA	10.9	130	Pg	23:40:44.16	0.36
			Sg	40:46.12	0.26
SOP	29.3	107	ePgC	23:40:47.00	0.30
			eSg	40:51.36	0.34
CONA	30.5	307	Pg	23:40:46.47	-0.42
			Sg	40:50.87	-0.49
ARSA	75.7	221	Pg	23:40:53.83	-0.96
			Sg	41:02.50	-2.92
ZST	83.8	55	ePg	23:40:55.90	-0.34
			eSg	41:06.60	-1.39
EGYH	94.4	114	ePgD	23:40:58.61	0.49
			eSg	41:11.60	0.26
MODS	106.1	50	eP*	23:40:59.60	-0.51
			eS*	41:13.60	-1.29
MPLH	121.5	123	ePnD	23:41:02.05	-0.02
			eSn	41:18.02	-0.36
SMOL	124.7	48	ePn	23:41:03.20	0.73
			Pn	23:41:05.09	0.20
MOA	144.1	274	Sg	41:23.22	-0.17
			ePn	23:41:07.00	1.85
KOGS	146.2	178	eSn	41:24.23	0.38
			Pn	23:41:05.98	0.50
SOKA	148.8	216	Sg	41:22.65	-1.79
			ePn	23:41:05.68	0.04
PKST	150.1	112	eSn	41:24.10	-0.63
			ePn	23:41:06.90	0.08
SRO	159.6	88	eSn	41:24.80	-2.03
			ePn	23:41:10.50	1.37
TREC	178.1	343	eSn	41:30.10	-0.83
			Pn	23:41:12.73	1.96
BIOA	191.2	268	Sg	41:35.16	1.31
			ePn	23:41:13.00	-0.54
VYHS	213.5	68	eSn	41:43.30	4.51*
			ePn	23:41:14.89	-0.12
PKB1	225.2	119	ePn	23:41:15.91	0.15
			eSn	41:40.33	-2.41
PKB4	231.3	127	ePn	23:41:16.47	0.07
			eSn	41:42.38	-1.50
KOVH	236.4	142	ePn	23:41:18.36	-0.24
			eSn	41:44.13	-3.67*
MORH	254.1	133	ePn	23:41:18.39	-0.23
			eSn	41:43.43	-4.40*
PKSM	254.2	133	ePn	23:41:18.39	-0.23
			eSn	41:43.43	-4.40*

Földrengés paraméterek

Hypocenter Parameters

225.

2017-06-20 time: 8:18:06.54 UTC ML= 1.5
 lat: 48.591N lon: 20.779E h= 0.0 km
 erh= 1.0km erz= 2.6km
 nr= 10 gap=115 rms=0.25
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	24.7	241	ePg	8:18:10.80			-0.16
			eSg	18:14.60			0.20
ABAH	47.3	134	ePg	8:18:15.19			0.21
			eSg	18:21.33			-0.24
STHS	97.9	20	ePg	8:18:24.10			0.08
PSZ	99.5	221	ePg	8:18:24.64			0.33
			eSg	18:37.88			-0.29
KOLS	116.3	71	eSg	8:18:43.20			-0.30
VYHS	143.9	266	ePn	8:18:31.50			-0.01
			eSn	18:48.30			-2.69*

226.

2017-06-21 time: 12:38:11.98 UTC ML= 1.4
 lat: 48.140N lon: 20.847E h= 7.0 km
 erh= 3.0km erz= 2.3km
 nr= 11 gap=192 rms=0.62
 Locality: Sajópálfala
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
ABAH	33.9	59	ePgD	12:38:17.89			-0.27
			eSg	38:22.63			-0.36
KECS	46.6	325	ePg	12:38:20.50			0.10
			eSg	38:26.70			-0.26
PSZ	75.2	251	ePgD	12:38:25.93			0.46
			eSg	38:34.85			-1.15
STHS	144.9	12	ePn	12:38:38.50			2.32
			eSn	38:54.50			-0.56
LANS	151.5	318	ePn	12:38:37.50			0.50
			eSn	38:56.40			-0.12
VYHS	154.3	285	eSn	12:38:57.30			0.17

227.

2017-06-22 time: 4:03:12.33 UTC ML= 2.0
 lat: 46.393N lon: 17.039E h= 8.6 km
 erh= 1.7km erz= 1.3km
 nr= 43 gap=116 rms=0.81
 Locality: Pogányzentpéter
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
BEHE	22.0	293	ePgC	4:03:16.93			0.38
			eSg	03:20.42			0.58
TIH	86.3	49	ePg	4:03:28.46			0.65
			eSg	03:39.61			-0.28
KOVH	88.5	113	ePg	4:03:28.84			0.63
			eSg	03:39.04			-1.57
MPLH	94.4	24	ePg	4:03:28.39			-0.87
			eSg	03:41.62			-0.85
PKS9	97.6	77	ePg	4:03:30.42			0.60
			eSg	03:42.92			-0.55
PTJ	99.9	237	ePg	4:03:30.01			-0.23
			eSg	03:43.40			-0.81
PKSV	109.2	121	ePn	4:03:32.16			0.28
			eSn	03:47.20			0.06
EGYH	116.0	11	ePn	4:03:32.80			0.07
			eSn	03:46.24			-2.40
PKB4	120.8	85	ePn	4:03:33.58			0.26
			eSn	03:49.28			-0.42
PKST	122.6	38	ePn	4:03:33.00			-0.55
			eSn	03:50.40			0.30
PKSM	125.1	99	ePn	4:03:33.37			-0.49

			eSn	03:50.18			-0.47
MORH	125.2	99	ePn	4:03:33.23			-0.65
			eSn	03:50.29			-0.39
PKB5	132.2	80	ePn	4:03:33.63			-1.11
			eSn	03:52.65			0.42
PKB1	141.2	72	ePn	4:03:37.31			1.44
			eSn	03:55.16			0.93
SOP	148.0	346	eSn	4:03:54.75			-0.99
ARSA	149.9	309	Pn	4:03:36.48			-0.47
			Sn	03:56.80			0.64
PKSG	151.4	43	ePn	4:03:39.13			1.98
RONA	155.8	339	Pn	4:03:37.30			-0.39
			Sn	03:58.28			0.80
SOKA	157.2	282	Pn	4:03:36.94			-0.92
			Sn	03:58.38			0.61
PKB2	171.8	80	ePn	4:03:43.32			3.63
OBKA	191.8	274	Pn	4:03:41.43			-0.75
			Sn	04:08.41			2.95
CONA	192.6	332	Pn	4:03:42.03			-0.25
			Sn	04:07.94			2.30
MOA	265.5	308	Pn	4:03:50.62			-0.75
			Sn	04:22.45			0.63

228.

2017-06-22 time: 7:06:29.16 UTC ML= 0.9
 lat: 47.362N lon: 18.438E h= 0.0 km
 erh= 1.6km erz= 185km
 nr= 5 gap=297 rms=0.08
 Locality: Gánt
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	4.8	313	ePgC	7:06:30.09			0.07
			eSg	06:30.68			-0.02
CSKK	13.4	270	ePg	7:06:31.42			-0.13
			eSg	06:33.40			-0.02
PKST	32.6	249	eSg	7:06:39.62			0.10

229.

2017-06-22 time: 11:21:39.97 UTC ML= 2.2
 lat: 47.930N lon: 20.057E h= 0.0 km
 erh= 3.3km erz= 3.5km
 nr= 21 gap=122 rms=1.21
 Locality: Bodony
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	12.2	264	ePgC	11:21:42.27			0.12
			eSg	21:44.41			0.55
PENC	60.0	255	ePg	11:21:50.32			-0.38
			eSg	21:58.94			-0.12
KECS	69.3	27	ePg	11:21:53.80			1.45
			eSg	22:04.10			2.10
BUD	92.0	237	eSg	11:22:10.64			1.41
ABAH	97.0	65	ePg	11:21:55.96			-1.34
			eSg	22:08.32			-2.49
VYHS	110.3	305	ePg	11:21:59.70			0.03
			eSg	22:12.50			-2.54
PKSN	115.7	187	eSg	11:22:15.81			-0.93
PKSG	138.7	244	eSn	11:22:21.68			-1.60
PKB2	152.6	204	eSn	11:22:26.09			-0.27
PKB1	159.2	217	eSn	11:22:26.82			-1.01
PKB5	178.9	214	eSn	11:22:33.43			1.22
STHS	187.0	28	ePn	11:22:13.70			3.37
			eSn	22:37.40			3.39
MPLH	207.5	246	ePn	11:22:13.05			0.17
MORH	218.7	209	eSn	11:22:41.34			0.31
PKSM	219.2	209	eSn	11:22:43.13			1.99

Hypocenter Parameters

Földrengés paraméterek

230.
 2017-06-23 time: 7:09:33.35 UTC ML= 0.7
 lat: 46.072N lon: 18.061E h= 7.2 km
 erh= 0.9km erz= 0.6km
 nr= 7 gap=324 rms=0.09
 Locality: Boda
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	3.5	59	ePgC	7:09:34.73	-0.05
			eSg	09:35.91	0.01
PKSM	47.5	71	ePg	7:09:42.02	0.10
			eSg	09:48.40	-0.21
MORH	47.8	70	ePg	7:09:42.05	0.07
			eSg	09:48.65	-0.07
PKB1	97.1	35	eSg	7:10:04.37	0.07

231.
 2017-06-23 time: 7:37:04.16 UTC ML= 0.9
 lat: 47.382N lon: 18.291E h= 14.6 km
 erh= 4.7km erz= 2.0km
 nr= 8 gap=207 rms=0.30
 Locality: Csókakő
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	3.1	228	ePg	7:37:06.91	0.09
			eSg	37:08.28	-0.61
PKSG	7.6	82	ePg	7:37:07.20	0.11
			eSg	37:09.49	0.11
PKST	23.7	235	ePg	7:37:09.23	0.10
			eSg	37:12.94	-0.07
MORH	132.4	168	eSn	7:37:42.23	-0.52
PKSM	132.8	168	eSn	7:37:43.40	0.56

232.
 2017-06-25 time: 16:18:43.45 UTC ML= 1.8
 lat: 48.036N lon: 20.296E h= 2.0 km
 erh= 3.6km erz= 4.2km
 nr= 17 gap=119 rms=1.13
 Locality: Mikófalva
 Comments:

sta	dist	azm	phase	hr mn sec	res
PSZ	32.7	246	ePg	16:18:49.50	0.21
			eSg	18:54.89	1.04
KECS	51.7	16	ePg	16:18:53.10	0.42
			eSg	19:00.20	0.31
ABAH	75.9	68	ePg	16:18:55.97	-1.04
			eSg	19:06.55	-1.04
PENC	80.6	250	ePg	16:18:58.17	0.33
			eSg	19:08.52	-0.54
VYHS	119.7	295	ePg	16:19:04.30	-0.53
			eSg	19:19.30	-2.21
LANS	138.2	334	ePn	16:19:08.20	0.75
			eSn	19:25.00	-1.18
KOLS	177.0	56	ePn	16:19:15.30	3.00
			eSn	19:37.70	2.90
DRGR	228.8	127	PnD	16:19:16.61	-2.15
			Sn	19:47.50	1.20
MARR	261.4	125	PnD	16:19:21.38	-1.45

233.
 2017-06-27 time: 9:26:40.90 UTC ML= 1.4
 lat: 48.620N lon: 20.779E h= 0.0 km
 erh= 2.9km erz= 3.8km
 nr= 10 gap=195 rms=0.60
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	26.5	235	ePg	9:26:45.90	0.28
			eSg	26:49.70	0.39
ABAH	49.5	137	ePg	9:26:48.99	-0.76
			eSg	26:56.89	0.24
PSZ	102.0	220	ePg	9:26:59.64	0.53
			eSg	27:12.10	-1.21
LANS	112.8	302	ePg	9:27:01.70	0.65
			eSg	27:16.00	-0.77
VYHS	144.1	264	ePn	9:27:06.20	0.30
			eSn	27:25.00	-0.40

234.
 2017-06-27 time: 9:31:28.46 UTC ML= 0.4
 lat: 46.185N lon: 18.281E h= 0.0 km
 erh= 1.1km erz= 194km
 nr= 7 gap=211 rms=0.13
 Locality: Zobákpuszta
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.7	233	ePg	9:31:31.77	0.16
			eSg	31:33.93	-0.14
PKSM	28.0	84	ePg	9:31:33.54	0.09
			eSg	31:37.15	-0.19
MORH	28.2	83	ePg	9:31:33.38	-0.12
			eSg	31:37.55	0.12
PKSV	33.0	184	eSg	9:31:38.95	-0.01

235.
 2017-06-29 time: 10:34:32.37 UTC ML= 2.1
 lat: 48.231N lon: 21.228E h= 0.0 km
 erh= 2.6km erz= 1.8km
 nr= 7 gap=252 rms=0.25
 Locality: Tállya
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	7.2	7	ePgC	10:34:33.58	-0.09
			eSg	34:34.82	0.14
KECS	61.8	297	ePg	10:34:43.50	0.10
			eSg	34:51.70	-0.30
KOLS	109.7	45	eSg	10:35:07.00	-0.25
STHS	131.8	0	ePn	10:34:56.40	0.55
			eSn	35:14.00	-0.15

236.
 2017-07-03 time: 8:21:31.22 UTC ML= 1.4
 lat: 47.314N lon: 17.605E h= 0.0 km
 erh= 2.2km erz= 3.0km
 nr= 12 gap=102 rms=0.74
 Locality: Ugod
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	16.7	197	ePg	8:21:34.15	-0.06
			eSg	21:36.19	-0.35
EGYH	23.6	299	ePg	8:21:35.74	0.30
			eSg	21:38.97	0.24
CSKK	49.8	84	ePg	8:21:40.91	0.79
			eSg	21:49.15	2.09
PKSG	60.0	82	ePg	8:21:41.04	-0.89
			eSg	21:50.71	0.42
KOVH	141.4	164	ePn	8:21:56.11	0.22
			eSn	22:14.69	-0.44
VYHS	160.3	35	ePn	8:21:57.50	-0.74
			eSn	22:17.70	-1.61

Földrengés paraméterek

Hypocenter Parameters

237.

 2017-07-05 time: 0:43:40.99 UTC ML= 0.8
 lat: 47.492N lon: 18.396E h= 0.3 km
 erh= 1.9km erz= 112km
 nr= 12 gap=130 rms=0.46
 Locality: Várgesztes
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKSG	11.2	182	ePgC	0:43:43.12			0.14
			eSg		43:44.60		0.06
CSKK	17.6	215	ePgD	0:43:43.90			-0.24
			eSg		43:46.21		-0.38
PKST	37.7	227	ePg	0:43:47.24			-0.48
			eSg		43:52.23		-0.73
A338	58.2	357	ePg	0:43:52.10			0.71
EGYH	80.7	264	eSg	0:44:07.02			0.38
PKB1	84.2	159	eSg	0:44:08.07			0.30
A336	93.9	29	eSg	0:44:10.00			-0.85
VYHS	116.1	16	ePg	0:44:01.90			0.17
			eSg		44:15.90		-2.01*

238.

 2017-07-06 time: 6:50:32.59 UTC ML= 0.6
 lat: 47.061N lon: 17.721E h= 7.4 km
 erh= 3.6km erz=17.4km
 nr= 5 gap=168 rms=0.31
 Locality: Úrkút
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
MPLH	18.3	311	ePg	6:50:35.79			-0.32
			eSg		50:38.96		0.10
TIH	22.2	144	ePg	6:50:36.85			0.08
PKST	32.4	47	ePg	6:50:38.96			0.44
			eSg		50:42.75		-0.39

239.

 2017-07-06 time: 10:46:15.46 UTC ML= 1.3
 lat: 48.185N lon: 19.781E h= 0.0 km
 erh= 3.3km erz= ***km
 nr= 10 gap=122 rms=0.91
 Locality: Somoskő
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	30.9	164	ePg	10:46:20.88			-0.09
			eSg		46:23.13		-2.14
PENC	57.6	220	ePg	10:46:26.14			0.40
			eSg		46:34.18		0.43
A336	58.3	275	ePg	10:46:26.10			0.22
			eSg		46:34.00		0.00
KECS	61.9	58	ePg	10:46:27.90			1.39
			eSg		46:33.90		-1.24
VYHS	78.0	296	ePg	10:46:29.90			0.52
			eSg		46:38.90		-1.34

240.

 2017-07-07 time: 7:00:41.99 UTC ML= 0.9
 lat: 47.506N lon: 18.602E h= 0.0 km
 erh= 9.0km erz= 729km
 nr= 8 gap=222 rms=0.57
 Locality: Óbarok
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	20.4	231	ePg	7:00:46.21			0.57
			eSg		00:49.77		1.29
CSKK	30.3	238	ePg	7:00:47.18			-0.22
			eSg		00:51.27		-0.35

PKST 50.9 237 ePg 7:00:50.56 -0.53
 eSg 00:57.62 -0.56
 VYHS 111.2 9 ePg 7:01:02.30 0.45
 eSg 01:16.90 -0.44

241.

 2017-07-07 time: 7:51:50.53 UTC ML= 0.4
 lat: 47.125N lon: 18.306E h= 0.0 km
 erh= 2.2km erz= 4.3km
 nr= 6 gap=291 rms=0.30
 Locality: Úrhida
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	25.4	306	ePg	7:51:55.14			0.08
			eSg		51:58.67		0.07
CSKK	26.7	353	eSg	7:51:58.60			-0.40
PKSG	30.3	12	ePg	7:51:56.12			0.18
			eSg		52:00.45		0.29
VYHS	157.3	15	ePn	7:52:16.40			-0.77

242.

 2017-07-07 time: 7:51:57.87 UTC ML= 1.3
 lat: 46.043N lon: 18.000E h= 0.0 km
 erh= 3.6km erz= 452km
 nr= 9 gap=311 rms=0.35
 Locality: Szentlőrinc
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	9.2	57	ePgC	7:51:59.90			0.38
			eSg		52:00.95		0.14
MORH	53.4	69	ePg	7:52:07.18			-0.23
			eSg		52:12.89		-1.95*
PKS9	64.2	20	ePg	7:52:09.01			-0.33
			eSg		52:18.45		0.17
PKB4	68.6	43	ePg	7:52:10.32			0.19
			eSg		52:20.15		0.46
PKB1	102.5	36	eSg	7:52:29.94			-0.52

243.

 2017-07-07 time: 7:52:00.51 UTC ML= 1.3
 lat: 47.836N lon: 19.126E h= 0.0 km
 erh= 4.7km erz= ***km
 nr= 7 gap=115 rms=0.96
 Locality: Szendehely
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PENC	12.7	113	ePg	7:52:02.55			-0.23
			eSg		52:04.50		-0.06
PSZ	58.2	81	ePg	7:52:11.71			0.80
			eSg		52:18.10		-0.92
PKSG	74.1	228	eSg	7:52:23.63			-0.44
VYHS	76.3	344	ePg	7:52:16.40			2.27
			eSg		52:23.60		-1.15

244.

 2017-07-07 time: 9:12:19.95 UTC ML= 0.6
 lat: 46.001N lon: 18.371E h= 0.0 km
 erh= 4.2km erz= 406km
 nr= 6 gap=253 rms=0.26
 Locality: Birján
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	23.2	295	ePg	9:12:24.22			0.14
			eSg		12:27.12		-0.19
PKSM	31.4	42	ePg	9:12:26.00			0.44
			eSg		12:29.93		0.00

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MORH 31.9 41 ePg 9:12:25.35 -0.29
eSg 12:29.91 -0.17

245.

2017-07-07 time: 10:53:23.37 UTC ML= 1.1
lat: 47.099N lon: 18.027E h= 0.0 km
erh= 4.1km erz= 572km
nr= 7 gap=242 rms=0.39
Locality: Királyszentistván
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	17.8	2	ePg	10:53:26.04	-0.52
			eSg	53:28.54	-0.50
CSKK	34.3	31	ePg	10:53:29.82	0.32
			eSg	53:34.73	0.45
MPLH	37.8	282	ePg	10:53:29.97	-0.16
			eSg	53:35.92	0.52
PKSG	42.7	40	eSg	10:53:36.98	0.04

246.

2017-07-07 time: 11:11:15.25 UTC ML= 1.0
lat: 47.183N lon: 17.979E h= 0.0 km
erh= 1.8km erz= 429km
nr= 9 gap=138 rms=0.32
Locality: Gyulafirátót
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	9.4	26	ePg	11:11:16.60	-0.32
			eSg	11:18.30	0.08
CSKK	29.2	47	ePg	11:11:19.98	-0.48
			eSg	11:25.20	0.68
TIH	32.2	192	ePg	11:11:21.14	0.14
MPLH	33.4	267	ePg	11:11:21.14	-0.06
			eSg	11:26.11	0.26
PKSG	38.8	53	ePg	11:11:22.00	-0.17
			eSg	11:27.99	0.42

247.

2017-07-08 time: 18:50:49.73 UTC ML= 2.0
lat: 47.349N lon: 16.071E h= 0.9 km
erh= 1.5km erz= 1.8km
nr= 41 gap= 75 rms=0.86
Locality: Austria
Comments:

sta	dist	azm	phase	hr mn sec	res
RONA	42.5	24	Pg	18:50:57.75	0.43
			Sg	51:03.02	-0.23
ARSA	42.8	255	Pg	18:50:57.65	0.27
			Sg	51:02.63	-0.72
SOP	52.3	45	ePgD	18:50:59.36	0.30
			eSg	51:05.41	-0.93
CONA	66.3	346	Pg	18:51:01.41	-0.16
			Sg	51:10.11	-0.70
EGYH	95.5	85	ePg	18:51:07.38	0.60
			eSg	51:19.94	-0.15
SOKA	108.6	227	Pg	18:51:08.11	-1.01
BEHE	111.5	151	ePg	18:51:10.01	0.38
			eSg	51:24.59	-0.57
MPLH	112.9	100	ePg	18:51:10.01	0.12
			eSg	51:24.13	-1.49
ZST	121.9	39	ePg	18:51:11.10	-0.39
			eSg	51:27.20	-1.27
MODS	145.4	38	ePn	18:51:14.60	-0.17
			eSn	51:33.30	-1.00
MOA	146.7	292	Pn	18:51:15.12	0.19
			Sn	51:34.80	0.21
PKST	148.8	94	ePnD	18:51:15.01	-0.19
			eSn	51:33.09	-1.97
OBKA	148.8	231	Pn	18:51:14.93	-0.27

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			Sn	51:32.49	-2.58
SMOL	164.5	38	ePn	18:51:18.70	1.54
CSKK	165.4	89	ePn	18:51:17.31	0.04
SRO	176.4	73	ePn	18:51:21.30	2.66
			eSn	51:43.50	2.31
BIOA	187.1	282	Pn	18:51:21.64	1.67
			Sn	51:45.01	1.45
MYKA	201.4	247	Sn	18:51:46.10	-0.62
KBA	208.7	262	Pn	18:51:25.67	3.01
			Sn	51:48.01	-0.34
KOVH	209.0	132	ePn	18:51:22.76	0.05
			eSn	51:49.74	1.31
MORH	233.4	123	ePn	18:51:24.98	-0.76
PKSM	233.5	123	ePn	18:51:25.03	-0.72
VYHS	242.7	58	e n	18:51:25.80	-1.11
KHC	271.2	317	ePn	18:51:33.10	2.64
			eSn	52:05.80	3.57*

248.

2017-07-11 time: 7:11:32.76 UTC ML= 0.8
lat: 47.215N lon: 18.196E h= 0.0 km
erh= 4.2km erz= ***km
nr= 13 gap=100 rms=1.21
Locality: Bakonykúti
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	13.2	292	ePg	7:11:34.77	-0.34
			eSg	11:37.46	0.51
CSKK	17.2	16	ePg	7:11:35.35	-0.48
PKSG	24.6	37	ePg	7:11:36.60	-0.55
			eSg	11:41.30	0.73
MPLH	50.0	264	ePg	7:11:42.89	1.20
PKB1	65.9	137	ePg	7:11:46.01	1.48
			eSg	11:54.81	1.09
PKS9	70.1	175	ePg	7:11:47.11	1.83
			eSg	11:55.40	0.36
MORH	116.2	163	ePg	7:11:52.13	-1.38
PKSM	116.6	163	ePg	7:11:52.61	-0.97
KOVH	125.4	183	ePg	7:11:52.90	-2.26

249.

2017-07-12 time: 11:54:58.96 UTC ML= 0.6
lat: 47.206N lon: 18.307E h= 0.0 km
erh= 3.5km erz= 528km
nr= 7 gap=249 rms=0.36
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	17.8	349	ePg	11:55:01.54	-0.61
			eSg	55:04.65	0.01
PKST	21.5	286	ePnC	11:55:02.51	-0.29
			eSg	55:05.71	-0.07
PKSG	21.6	17	ePnC	11:55:02.99	0.16
			eSg	55:06.24	0.40
MPLH	58.3	266	ePg	11:55:09.89	0.52

250.

2017-07-13 time: 6:13:03.74 UTC ML= 0.4
lat: 47.298N lon: 18.334E h= 0.0 km
erh= 1.8km erz= 3.3km
nr= 5 gap=237 rms=0.10
Locality: Magyaralmás
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	9.2	323	eSg	6:13:07.20	0.10
PKSG	11.3	22	ePg	6:13:06.02	0.05
			eSg	13:07.51	-0.20
PKST	23.1	259	ePg	6:13:08.01	0.05
			eSg	13:11.18	-0.08

Földrengés paraméterek

Hypocenter Parameters

251.

2017-07-14 time: 9:01:01.94 UTC ML= 1.1
 lat: 47.507N lon: 18.561E h= 0.0 km
 erh= 2.3km erz= 2.5km
 nr= 10 gap=167 rms=0.32
 Locality: Nagyegyháza
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	18.1	225	ePg	9:01:05.43			0.25
			eSg		01:08.25		0.54
CSKK	27.7	235	ePg	9:01:06.54			-0.36
			eSg		01:10.62		-0.14
SRO	38.8	331	eSg	9:01:14.80			0.51
PKST	48.4	235	ePg	9:01:10.31			-0.27
			eSg		01:17.04		-0.28
VYHS	111.7	11	ePg	9:01:21.70			-0.18
			eSg		01:33.40		-4.04*
MORH	143.7	177	eSn	9:01:46.30			-0.05
PKSM	144.1	178	eSn	9:01:46.76			0.32

252.

2017-07-15 time: 1:19:03.52 UTC ML=-0.2
 lat: 47.386N lon: 18.260E h= 10.3 km
 erh= 4.3km erz= 1.0km
 nr= 6 gap=216 rms=0.08
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	2.6	178	ePg	1:19:05.35			-0.07
			eSg		19:06.87		-0.03
PKSG	9.9	86	ePg	1:19:06.02			-0.06
			eSg		19:08.17		0.10
PKST	22.1	230	ePg	1:19:08.01			0.13
			eSg		19:11.22		-0.06

253.

2017-07-18 time: 12:46:11.19 UTC ML= 0.7
 lat: 46.252N lon: 18.456E h= 0.0 km
 erh= 0.9km erz= 310km
 nr= 8 gap=129 rms=0.22
 Locality: Kismányok
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSM	15.0	107	ePg	12:46:13.65			-0.22
			eSg		46:16.14		0.19
MORH	15.1	105	ePg	12:46:13.62			-0.26
			eSg		46:16.13		0.15
PKB4	29.5	23	ePg	12:46:16.25			-0.21
			eSg		46:20.90		0.34
KOVH	32.9	237	eSg	12:46:21.93			0.27
PKS9	39.7	340	eSg	12:46:23.90			0.10

254.

2017-07-19 time: 9:11:44.43 UTC ML= 0.6
 lat: 47.188N lon: 18.290E h= 10.0 km
 erh= 2.4km erz= 4.3km
 nr= 6 gap=273 rms=0.13
 Locality: Sárkeszi
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	19.5	353	ePg	9:11:48.48			0.13
			eSg		11:51.56		0.15
PKST	20.9	292	ePg	9:11:48.58			0.01
			eSg		11:51.63		-0.17
PKSG	23.9	19	ePg	9:11:49.07			0.02

eSg 11:52.40 -0.25

255.

2017-07-19 time: 12:44:50.95 UTC ML= 1.6
 lat: 48.604N lon: 20.757E h= 0.0 km
 erh= 2.2km erz= 4.7km
 nr= 12 gap= 86 rms=0.68
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
ABAH	49.4	134	ePg	12:44:59.81			0.04
			eSg		45:05.56		-1.09
STHS	97.2	21	ePg	12:45:08.90			0.60
			eSg		45:20.90		-0.94
PSZ	99.5	220	ePg	12:45:09.20			0.48
			eSg		45:22.28		-0.30
LANS	112.5	303	ePg	12:45:11.30			0.27
			eSg		45:25.50		-1.19
KOLS	117.3	72	ePg	12:45:14.30			2.41
			eSg		45:28.10		-0.13
VYHS	142.4	265	ePn	12:45:16.00			0.27
			eSn		45:33.20		-1.86

256.

2017-07-23 time: 1:44:13.31 UTC ML= 0.8
 lat: 45.511N lon: 18.065E h= 0.8 km
 erh= 3.4km erz= 4.0km
 nr= 8 gap=333 rms=0.40
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
KOVH	64.2	2	ePg	1:44:24.79			0.02
			eSg		44:33.51		-0.21
PKSM	89.8	30	ePg	1:44:29.01			-0.34
			eSg		44:42.37		0.52
MORH	90.3	30	ePg	1:44:29.00			-0.43
			eSg		44:41.89		-0.12
PKB4	117.2	21	ePg	1:44:34.36			0.13
PKB1	152.2	22	ePn	1:44:40.24			1.01

257.

2017-07-24 time: 7:50:40.72 UTC ML= 1.2
 lat: 46.026N lon: 18.042E h= 0.0 km
 erh= 4.6km erz= 6.7km
 nr= 13 gap=294 rms=0.66
 Locality: Bicsérd
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	8.3	33	ePgC	7:50:42.61			0.42
			eSg		50:43.91		0.56
PKSM	50.8	66	ePgD	7:50:49.88			0.10
			eSg		50:56.20		-0.65
MORH	51.1	66	ePgD	7:50:49.93			0.08
			eSg		50:56.17		-0.80
PKS9	65.0	16	ePg	7:50:51.85			-0.47
PKB4	67.9	40	eSg	7:51:03.31			1.00
PKB5	82.8	40	ePg	7:50:56.29			0.78
			eSg		51:07.29		0.24
PKB1	102.2	34	eSg	7:51:11.70			-1.49
PKST	137.1	360	ePn	7:51:04.10			-0.74
			eSn		51:20.70		-2.96*

Hypocenter Parameters

Földrengés paraméterek

258.
 2017-07-26 time: 9:42:06.55 UTC ML= 0.2
 lat: 47.210N lon: 18.294E h= 8.2 km
 erh= 4.4km erz= 8.5km
 nr= 6 gap=265 rms=0.07
 Locality: Moha
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	17.2	352	ePg	9:42:09.96			0.01
			eSg		42:12.58		-0.02
PKST	20.4	285	ePg	9:42:10.41			-0.07
			eSg		42:13.64		0.10
PKSG	21.4	20	ePg	9:42:10.72			0.07
			eSg		42:13.76		-0.09

259.
 2017-07-27 time: 5:40:40.63 UTC ML= 0.9
 lat: 47.448N lon: 18.219E h= 6.5 km
 erh= 1.1km erz= 2.3km
 nr= 7 gap=209 rms=0.09
 Locality: Pusztavám
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	10.0	161	ePg	5:40:42.91			0.16
			eSg		40:44.35		-0.06
PKSG	14.4	116	ePg	5:40:43.32			-0.13
			eSg		40:45.70		0.04
PKST	25.2	214	ePgD	5:40:45.32			0.04
			eSg		40:48.83		-0.08
EGYH	67.0	267	eSg	5:41:02.01			-0.01

260.
 2017-07-27 time: 5:47:46.59 UTC ML= 0.4
 lat: 47.238N lon: 18.197E h= 10.0 km
 erh= 2.9km erz= 5.7km
 nr= 7 gap=142 rms=0.26
 Locality: Bakonykúti
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKST	12.5	281	ePg	5:47:49.19			-0.26
			eSg		47:51.75		0.06
CSKK	14.7	19	ePg	5:47:49.91			0.14
			eSg		47:52.84		0.60
PKSG	22.5	41	ePg	5:47:50.81			-0.18
			eSg		47:54.08		-0.34
PKB1	67.8	138	ePg	5:47:59.00			0.17

261.
 2017-07-27 time: 5:51:20.77 UTC ML= 0.8
 lat: 47.272N lon: 18.137E h= 15.2 km
 erh= 2.5km erz= 1.5km
 nr= 13 gap=143 rms=0.35
 Locality: Isztimér
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKST	7.9	259	ePgC	5:51:23.63			-0.20
			eSg		51:26.23		0.01
CSKK	13.8	43	ePgC	5:51:24.33			-0.10
			eSg		51:27.28		0.00
PKSG	23.3	55	ePgC	5:51:25.45			-0.29
			eSg		51:29.88		0.26
PKB1	73.6	137	ePg	5:51:35.05			0.86
PKB5	88.0	149	eS*	5:51:47.27			-1.46
PKB4	93.3	158	eP*	5:51:37.49			0.21
MORH	123.7	162	ePn	5:51:41.32			0.05
			eSn		51:56.69		-0.58

PKSM 124.0 162 ePn 5:51:41.36 0.04
 eSn 51:57.25 -0.10

262.
 2017-07-28 time: 7:05:10.79 UTC ML= 1.7
 lat: 47.950N lon: 19.871E h= 0.0 km
 erh= 3.4km erz= ***km
 nr= 8 gap=116 rms=0.82
 Locality: Dorogháza
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	4.0	154	ePgC	7:05:10.37			-1.13
			eSg		05:12.55		0.50
PENC	47.5	248	ePg	7:05:20.47			1.19
			eSg		05:25.63		-0.27
KECS	74.8	38	ePg	7:05:25.10			0.95
			eSg		05:34.20		-0.37
VYHS	97.8	308	ePg	7:05:28.30			0.04
			eSg		05:41.00		-0.89

263.
 2017-07-28 time: 9:45:12.59 UTC ML= 0.9
 lat: 47.081N lon: 17.952E h= 15.9 km
 erh= 2.1km erz= 1.3km
 nr= 12 gap=185 rms=0.41
 Locality: Veszprém
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
TIH	20.6	193	eSg	9:45:20.73			-0.13
PKST	20.7	18	ePg	9:45:17.18			-0.07
			eSg		45:20.84		-0.05
CSKK	39.1	37	ePg	9:45:20.20			0.07
			eSg		45:25.70		-0.31
PKB1	72.0	117	ePg	9:45:26.21			0.46
			eSg		45:35.52		-0.50
PKB5	80.6	132	eS*	9:45:39.11			0.67
MORH	109.8	151	ePn	9:45:31.93			0.64
			eSn		45:45.44		-0.44
PKSM	110.1	151	ePn	9:45:30.81			-0.52
			eSn		45:45.43		-0.51

264.
 2017-07-29 time: 23:22:14.92 UTC ML= 1.9
 lat: 47.838N lon: 16.196E h= 0.3 km
 erh= 1.4km erz= 1.6km
 nr= 47 gap= 69 rms=0.85
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
RONA	17.1	154	Pg	23:22:18.38			0.41
			Sg		22:20.55		0.20
CONA	27.0	292	Pg	23:22:19.92			0.18
			Sg		22:22.77		-0.73
SOP	32.1	122	ePgC	23:22:21.03			0.37
			eSg		22:24.95		-0.18
ZST	78.5	59	ePg	23:22:28.90			-0.04
			eSg		22:39.60		-0.27
ARSA	82.6	218	Pg	23:22:28.91			-0.77
			Sg		22:39.67		-1.52
EGYH	97.3	119	ePg	23:22:32.96			0.66
			eSg		22:46.31		0.46
MODS	100.2	53	ePg	23:22:32.60			-0.21
			eSg		22:47.40		0.64
SMOL	118.6	51	ePg	23:22:35.70			-0.39
			eSg		22:51.70		-0.91
MOA	144.5	271	Pn	23:22:39.80			-0.13
			Sn		22:57.53		-1.90
PKST	152.6	115	ePnD	23:22:40.38			-0.56
			eSn		22:59.08		-2.15

Földrengés paraméterek

KOGS	154.5	178	ePn	23:22:42.39	1.21
			eSn	23:01.20	-0.46
SOKA	156.1	214	Pn	23:22:42.24	0.86
			Sn	23:01.62	-0.40
SRO	158.5	91	ePn	23:22:43.10	1.42
			eSn	23:03.50	0.95
CSKK	163.9	109	ePn	23:22:41.46	-0.89
			eSn	23:03.80	0.05
TREC	170.3	342	ePn	23:22:43.40	0.26
			eSn	23:03.50	-1.66
PKSG	172.3	107	ePn	23:22:42.70	-0.69
			eSn	23:05.80	0.20
BIOA	192.5	265	Pn	23:22:47.37	1.46
			Sn	23:11.98	1.90
OBKA	193.4	220	Pn	23:22:46.52	0.49
VYHS	209.5	70	ePn	23:22:47.10	-0.93
PKB1	228.6	121	ePn	23:22:50.51	0.10
KBA	231.0	249	Pn	23:22:52.71	1.99
			Sn	23:20.15	1.51
PKB4	235.7	129	ePn	23:22:50.60	-0.70
			eSn	23:15.92	-3.76*
KHC	241.1	307	ePn	23:22:53.70	1.72
			eSn	23:23.30	2.42
KOVH	242.5	143	ePn	23:22:51.56	-0.59
			eSn	23:16.76	-4.43*
MORH	259.1	134	ePn	23:22:53.23	-0.99
			eSn	23:19.91	-4.96*
PKSM	259.3	134	ePn	23:22:53.39	-0.85
			eSn	23:19.84	-5.07*
LANS	282.5	59	ePn	23:22:56.00	-1.13

265.

2017-07-31 time: 1:49:03.81 UTC ML= 1.3
 lat: 46.135N lon: 16.111E h= 12.5 km
 erh= 1.6km erz= 1.3km
 nr= 31 gap=112 rms=0.59
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
PTJ	28.7	204	ePg	1:49:08.81	-0.59
			eSg	49:12.81	-0.95
KOGS	36.4	17	iPg	1:49:10.79	0.10
			iSg	49:16.08	0.03
GOLS	40.1	250	iPg	1:49:11.76	0.45
			iSg	49:17.75	0.59
DOBS	49.6	272	iPg	1:49:12.79	-0.16
			iSg	49:20.32	0.24
CESS	53.3	250	iPg	1:49:14.05	0.47
			iSg	49:21.81	0.60
CRES	61.2	236	iPg	1:49:14.79	-0.18
			iSg	49:22.70	-0.98
BEHE	63.3	54	ePg	1:49:15.37	0.03
			eSg	49:24.10	-0.22
LEGS	64.8	251	iPg	1:49:15.70	0.10
			iSg	49:25.45	0.66
PDKS	86.5	265	iPg	1:49:19.43	0.01
			iSg	49:30.68	-0.91
SOKA	102.6	306	P*	1:49:22.06	0.06
			S*	49:33.85	-2.33
OBKA	127.3	289	Pn	1:49:25.30	0.17
			Sn	49:41.78	0.03
ARSA	131.9	340	Pn	1:49:25.73	0.03
			Sn	49:41.65	-1.12
KOVH	153.8	92	eSn	1:49:49.31	1.67
PKS9	174.2	73	eSn	1:49:53.45	1.29
SOP	175.5	11	ePn	1:49:33.61	2.48
PKSM	195.6	87	ePn	1:49:32.86	-0.78
			eSn	49:55.05	-1.85
MORH	195.8	87	ePn	1:49:33.17	-0.50
			eSn	49:55.26	-1.69

Hypocenter Parameters

266.

2017-07-31 time: 6:24:15.85 UTC ML= 1.5
 lat: 47.972N lon: 20.031E h= 0.0 km
 erh= 4.3km erz= 829km
 nr= 6 gap=209 rms=0.49
 Locality: Mátraballa
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	11.8	240	ePgC	6:24:17.34	-0.62
			eSg	24:20.39	0.78
PENC	59.6	250	eSg	6:24:34.59	-0.20
KECS	66.1	31	eSg	6:24:37.00	0.13
VYHS	106.1	303	ePg	6:24:35.30	0.51
			eSg	24:49.40	-0.17

267.

2017-08-02 time: 6:25:45.55 UTC ML= 0.9
 lat: 47.554N lon: 16.362E h= 0.4 km
 erh= 1.7km erz= 1.9km
 nr= 9 gap=137 rms=0.40
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr mn sec	res
RONA	17.0	343	Pg	6:25:48.34	-0.25
			Sg	25:50.77	-0.18
SOP	20.6	46	ePg	6:25:49.35	0.11
			eSg	25:52.21	0.09
CONA	56.1	318	Pg	6:25:55.49	-0.08
ARSA	71.7	242	Sg	6:26:07.77	-0.58
PKST	130.4	105	eSn	6:26:26.90	-0.02
MOA	160.7	282	Pn	6:26:13.78	1.21
			Sn	26:34.09	0.45

268.

2017-08-02 time: 9:06:29.57 UTC ML= 0.6
 lat: 47.181N lon: 18.292E h= 0.0 km
 erh= 1.8km erz= 508km
 nr= 8 gap=148 rms=0.36
 Locality: Sárkeszi
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	20.4	353	ePg	9:06:33.26	0.05
			eSg	06:36.14	0.09
PKST	21.4	294	ePg	9:06:33.32	-0.06
			eSg	06:36.30	-0.05
PKSG	24.6	18	ePg	9:06:33.74	-0.22
			eSg	06:37.29	-0.10
MORH	110.6	166	ePg	9:06:50.20	0.88
KOVH	122.3	187	eSg	9:07:07.80	-0.65

269.

2017-08-02 time: 10:09:43.61 UTC ML= 1.6
 lat: 47.788N lon: 16.128E h= 1.5 km
 erh= 1.3km erz=11.7km
 nr= 7 gap=162 rms=0.16
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr mn sec	res
RONA	16.0	128	Pg	10:09:46.46	-0.01
			Sg	09:48.61	-0.10
CONA	25.4	308	Pg	10:09:48.26	0.11
			Sg	09:51.43	-0.26
SOP	34.3	110	ePg	10:09:49.99	0.25
			eSg	09:52.14	-2.38*
ARSA	75.1	217	Pg	10:09:57.08	0.05
EGYH	99.4	114	eSg	10:10:14.99	-0.23

Hypocenter Parameters

Földrengés paraméterek

270.

2017-08-04 time: 8:13:38.12 UTC ML= 0.9
 lat: 47.228N lon: 18.257E h= 0.0 km
 erh= 1.6km erz= 575km
 nr= 14 gap=116 rms=0.49
 Locality: Iszkaszentgyörgy
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	15.1	1	ePg	8:13:40.55			-0.26
			eSg	13:42.86			-0.04
PKST	17.2	282	ePg	8:13:40.98			-0.21
			eSg	13:44.02			0.43
PKSG	20.9	29	ePg	8:13:41.42			-0.42
			eSg	13:44.88			0.14
PKB1	63.9	140	ePg	8:13:49.68			0.15
			eSg	13:58.55			0.12
PKB5	79.2	153	ePg	8:13:53.37			1.11
			eSg	14:03.90			0.60
PKB4	85.5	162	ePg	8:13:53.40			0.02
			MORH	8:13:58.45			-0.44
MORH	116.3	165	ePg	8:13:58.45			-0.44
			eSg	14:13.02			-2.07
PKSM	116.7	165	ePg	8:13:58.50			-0.45
			eSg	14:12.05			-3.16*

271.

2017-08-06 time: 1:54:03.42 UTC ML= 0.7
 lat: 47.323N lon: 18.262E h= 4.5 km
 erh= 4.8km erz= 4.4km
 nr= 7 gap=115 rms=0.24
 Locality: Söréd
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	4.5	359	ePgC	1:54:04.35			-0.20
			eSg	54:04.88			-0.56
PKSG	12.4	52	ePgD	1:54:05.87			0.10
			eSg	54:07.85			0.25
PKST	18.6	248	ePgD	1:54:07.01			0.17
			eSg	54:09.75			0.24
MORH	126.5	167	eSn	1:54:42.74			-0.24

272.

2017-08-06 time: 2:55:20.31 UTC ML=-0.5
 lat: 47.326N lon: 18.260E h= 0.1 km
 erh= 3.1km erz= 258km
 nr= 5 gap=193 rms=0.10
 Locality: Söréd
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	4.1	1	ePg	2:55:20.97			-0.07
			eSg	55:21.50			-0.11
PKSG	12.3	54	ePg	2:55:22.46			-0.04
			eSg	55:24.38			0.17
PKST	18.6	246	eSg	2:55:26.35			0.12

273.

2017-08-06 time: 8:46:30.85 UTC ML= 0.7
 lat: 47.426N lon: 18.194E h= 10.0 km
 erh= 1.0km erz= 0.5km
 nr= 12 gap=169 rms=0.22
 Locality: Pusztavám
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	8.6	145	ePgC	8:46:33.43			0.22
			eSg	46:34.88			-0.17
PKSG	15.3	105	ePg	8:46:33.99			-0.12

			eSg	46:36.68			0.02
PKST	22.2	213	ePgD	8:46:35.23			0.03
			eSg	46:38.26			-0.33
PKB5	101.2	156	eSg	8:47:03.30			0.13
			PKB4	108.0	163	eSn	8:47:04.20
VYHS	128.0	22	ePn	8:46:52.50			-0.06
			eSn	47:09.20			-0.30
MORH	138.9	166	eSn	8:47:11.88			-0.04
PKSM	139.3	166	eSn	8:47:12.40			0.39

274.

2017-08-07 time: 9:20:55.63 UTC ML= 1.2
 lat: 45.888N lon: 18.409E h= 0.0 km
 erh= 2.6km erz= 393km
 nr= 9 gap=286 rms=0.29
 Locality: Villánykövesd
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	32.7	313	ePg	9:21:01.48			0.00
			eSg	21:05.89			-0.15
PKSM	40.2	27	ePg	9:21:02.52			-0.30
			eSg	21:08.55			0.13
MORH	40.7	27	ePg	9:21:02.62			-0.28
			eSg	21:08.46			-0.12
PKS9	78.4	353	ePg	9:21:11.31			1.69
PKB1	103.9	16	ePg	9:21:14.77			0.58
			eSg	21:28.78			0.12

275.

2017-08-07 time: 10:08:16.20 UTC ML= 1.6
 lat: 48.369N lon: 19.830E h= 0.0 km
 erh= 1.2km erz= 370km
 nr= 7 gap=155 rms=0.24
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	50.2	75	ePg	10:08:25.20			0.04
			eSg	08:32.00			-0.15
PSZ	50.4	174	ePg	10:08:25.18			-0.01
			eSg	08:31.99			-0.22
VYHS	74.8	281	ePg	10:08:29.90			0.34
			eSg	08:39.50			-0.48
PENC	76.2	212	eSg	10:08:40.68			0.26

276.

2017-08-08 time: 8:32:30.51 UTC ML= 1.8
 lat: 48.621N lon: 18.086E h= 0.0 km
 erh= 8.1km erz= 3.7km
 nr= 9 gap=219 rms=0.77
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
VYHS	57.1	104	ePg	8:32:41.40			0.69
			eSg	32:47.60			-1.07
MODS	65.8	245	ePg	8:32:42.80			0.54
			eSg	32:51.90			0.47
EGYH	145.2	203	eSn	8:33:16.13			0.87
			RONA	168.0	232	Pn	8:32:57.98
CONA	182.2	245	Sn	33:18.97			-1.35
			Pn	8:33:00.26			0.00
			Sn	33:22.25			-1.22

Földrengés paraméterek

Hypocenter Parameters

277.

2017-08-08 time: 11:35:10.58 UTC ML= 0.3
 lat: 47.169N lon: 18.327E h= 0.0 km
 erh= 2.9km erz= 337km
 nr= 5 gap=283 rms=0.15
 Locality: Sárszentmihály
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	22.1	347	ePg	11:35:14.37	-0.16
			eSg	35:17.71	0.09
PKST	24.3	294	ePg	11:35:15.13	0.21
			eSg	35:18.14	-0.17
PKSG	25.2	11	eSg	11:35:18.61	0.02

278.

2017-08-09 time: 10:44:14.54 UTC ML= 0.5
 lat: 47.207N lon: 18.290E h= 0.0 km
 erh= 2.7km erz= 817km
 nr= 8 gap=146 rms=0.58
 Locality: Iszkaaszentgyörgy
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	17.5	353	ePg	10:44:17.89	0.22
			eSg	44:20.61	0.50
PKST	20.2	287	ePg	10:44:17.68	-0.47
			eSg	44:20.80	-0.16
PKSG	21.9	20	ePg	10:44:18.11	-0.35
			eSg	44:21.39	-0.13
PKSM	113.8	166	ePg	10:44:36.21	1.34
			eSg	44:49.97	-0.76

279.

2017-08-09 time: 17:58:47.39 UTC ML= 2.0
 lat: 47.418N lon: 18.824E h= 9.1 km
 erh= 1.3km erz= 1.3km
 nr= 43 gap= 95 rms=0.74
 Locality: Sósikút
 Comments:

sta	dist	azm	phase	hr mn sec	res
BUD	16.7	64	ePgD	17:58:50.71	-0.08
			eSg	58:52.72	-0.72
PKSG	32.8	265	ePg	17:58:53.70	0.23
			eSg	58:58.15	-0.07
CSKK	43.0	262	ePg	17:58:55.32	0.09
			eSg	59:00.98	-0.37
PENC	53.8	40	ePgC	17:58:56.63	-0.51
			eSg	59:04.43	-0.31
PKST	62.3	253	ePg	17:58:58.71	0.09
			eSg	59:06.91	-0.47
PKB1	70.5	182	ePg	17:59:00.70	0.62
			eSg	59:10.23	0.25
PKB2	88.6	159	ePg	17:59:04.13	0.84
			eSg	59:16.07	0.38
TIH	91.1	231	ePg	17:59:03.05	-0.69
			eSg	59:16.67	0.17
PKB5	91.8	184	ePg	17:59:04.16	0.31
			eSg	59:16.09	-0.61
PSZ	97.8	55	ePg	17:59:04.11	-0.81
			eSg	59:16.22	-2.38
PKS9	101.3	204	ePg	17:59:05.73	0.18
			eSg	59:19.17	-0.54
PKB4	103.8	189	ePg	17:59:06.23	0.23
			eSg	59:19.20	-1.32
PKS2	107.1	164	eP*	17:59:07.20	0.62
			eS*	59:21.80	0.24
EGYH	112.6	270	ePn	17:59:07.55	0.25
			eSn	59:21.97	-0.87
PKB3	114.1	166	ePn	17:59:08.49	1.00
			eSn	59:22.48	-0.69

VYHS	119.6	0	ePn	17:59:07.70	-0.48
			eSn	59:22.40	-2.00
MORH	134.4	186	ePn	17:59:09.38	-0.64
			eSn	59:24.54	-3.13*
PKSM	134.8	186	ePn	17:59:09.46	-0.61
			eSn	59:24.84	-2.93
MODS	157.0	313	ePn	17:59:14.40	1.55
			eSn	59:33.40	0.70
KOVH	157.8	201	ePn	17:59:12.23	-0.71
			eSn	59:29.97	-2.91
KECS	171.6	46	ePn	17:59:16.60	1.95
			eSn	59:36.20	0.28
ABAH	205.4	62	ePn	17:59:20.66	1.78

280.

2017-08-10 time: 5:58:26.52 UTC ML= 0.9
 lat: 47.347N lon: 18.449E h= 0.0 km
 erh= 1.8km erz= 392km
 nr= 8 gap=215 rms=0.29
 Locality: Gánt
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	6.6	319	ePgC	5:58:27.74	0.04
			eSg	58:28.25	-0.37
CSKK	14.3	277	ePg	5:58:29.01	-0.07
			eSg	58:30.98	-0.09
PKST	32.8	253	ePg	5:58:32.69	0.31
			eSg	58:37.01	0.06
MORH	126.6	173	eSg	5:59:07.21	0.44
PKSM	127.1	173	eSg	5:59:06.11	-0.79

281.

2017-08-10 time: 6:01:01.20 UTC ML= 1.0
 lat: 47.286N lon: 18.343E h= 0.0 km
 erh= 2.7km erz= 879km
 nr= 9 gap=152 rms=0.66
 Locality: Magyaralmás
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	10.6	324	ePgC	6:01:02.77	-0.33
			eSg	01:03.81	-0.76
PKSG	12.3	17	ePgC	6:01:03.47	0.08
			eSg	01:05.15	0.04
PKST	23.6	263	ePg	6:01:05.78	0.37
			eSg	01:09.25	0.55
MORH	121.2	169	ePg	6:01:24.40	1.56
			eSg	01:38.90	-0.82
PKSM	121.6	169	eSg	6:01:39.00	-0.85

282.

2017-08-10 time: 7:55:32.63 UTC ML= 1.6
 lat: 48.660N lon: 19.142E h= 0.0 km
 erh= 3.5km erz= ***km
 nr= 8 gap=153 rms=0.80
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	29.2	231	ePg	7:55:37.60	-0.23
			eSg	55:41.40	-0.50
LANS	59.5	24	ePg	7:55:43.30	0.04
			eSg	55:51.30	-0.25
PSZ	99.6	146	ePg	7:55:52.29	1.87
			eSg	56:03.76	-0.54
KECS	101.1	101	ePg	7:55:51.10	0.41
			eSg	56:03.60	-1.17

Hypocenter Parameters

Földrengés paraméterek

283.

2017-08-11 time: 10:01:30.06 UTC ML= 1.2
 lat: 48.134N lon: 16.907E h= 0.0 km
 erh= 3.6km erz= 2.9km
 nr= 11 gap=152 rms=0.56
 Locality: Austria
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
MODS	38.3	46	ePg	10:01:36.50			-0.40
			eSg		01:41.90		-0.33
SOP	56.5	208	eSg	10:01:47.94			-0.07
RONA	66.4	223	Pg	10:01:42.40			0.47
			Sg		01:50.51		-0.67
CONA	81.3	254	Pg	10:01:44.95			0.38
			Sg		01:55.46		-0.43
ARSA	143.0	227	Pn	10:01:55.74			0.82
			Sn		02:13.54		-0.77
VYHS	148.6	74	ePn	10:01:56.20			0.58
			eSn		02:14.20		-1.36

284.

2017-08-11 time: 10:19:43.55 UTC ML= 1.1
 lat: 46.014N lon: 18.054E h= 4.9 km
 erh= 5.6km erz= 6.9km
 nr= 12 gap=319 rms=0.67
 Locality: Bicsérd
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
KOVH	9.0	23	ePgC	10:19:45.55			0.16
			eSg		19:47.02		0.20
PKSM	50.5	64	ePg	10:19:52.86			0.25
			eSg		19:58.82		-0.86
MORH	50.9	64	ePg	10:19:52.89			0.21
			eSg		19:59.23		-0.57
PKB4	68.4	38	ePg	10:19:55.83			0.03
			eSg		20:06.69		1.34
PKB5	83.3	39	eSg	10:20:10.64			0.57
PKB1	102.8	34	ePg	10:20:01.09			-0.84
			eSg		20:14.72		-1.54
PKB2	117.3	51	eSg	10:20:21.73			0.86

285.

2017-08-14 time: 6:30:01.19 UTC ML= 0.7
 lat: 47.090N lon: 18.207E h= 0.0 km
 erh= 6.3km erz= 648km
 nr= 5 gap=303 rms=0.31
 Locality: Küngös
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	22.8	325	ePgC	6:30:05.62			0.35
			eSg		30:08.14		-0.31
CSKK	30.6	8	ePgC	6:30:06.26			-0.39
PKSG	36.3	23	ePg	6:30:07.84			0.17
			eSg		30:12.83		0.11

286.

2017-08-14 time: 9:26:40.58 UTC ML= 1.8
 lat: 45.541N lon: 17.902E h= 4.9 km
 erh= 7.7km erz= 3.8km
 nr= 12 gap=282 rms=0.66
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
KOVH	62.7	14	ePgD	9:26:52.10			0.28
			eSg		27:01.21		0.62
PKSM	94.1	38	ePg	9:26:57.13			-0.28

			eSg		27:10.34		-0.19
MORH	94.6	38	ePg	9:26:57.19			-0.31
			eSg		27:09.86		-0.83
PKB4	119.3	27	ePn	9:27:01.80			-0.06
			eSn		27:17.54		-0.91
PKS9	119.9	14	ePn	9:27:02.48			0.55
PKB5	133.7	29	ePn	9:27:04.00			0.34
BEHE	135.2	320	ePn	9:27:02.40			-1.44
PKB1	154.4	26	ePn	9:27:07.64			1.41

287.

2017-08-14 time: 9:31:42.03 UTC ML= 0.6
 lat: 46.243N lon: 18.251E h= 1.0 km
 erh= 1.3km erz=39.7km
 nr= 7 gap=180 rms=0.22
 Locality: Kisbattyán
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
KOVH	20.7	214	ePgC	9:31:45.68			-0.06
			eSg		31:48.57		-0.06
PKSM	30.3	96	ePgC	9:31:47.65			0.21
			eSg		31:51.21		-0.46
MORH	30.5	96	ePgC	9:31:47.71			0.24
			eSg		31:51.37		-0.35
PKB1	73.2	35	eSg	9:32:05.30			0.01

288.

2017-08-14 time: 20:44:47.76 UTC ML= 1.6
 lat: 46.324N lon: 20.763E h= 7.0 km
 erh= 1.5km erz= 0.7km
 nr= 23 gap=126 rms=0.42
 Locality: Ambrózfalva
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
AMBH	4.1	315	ePg	20:44:48.91			-0.30
			eSg		44:50.45		0.11
SIRR	69.4	95	PgC	20:45:00.46			0.24
			Sg		45:09.50		-0.43
PKS6	97.0	288	ePg	20:45:05.39			0.25
			eSg		45:17.95		-0.74
BZS	102.8	140	PgC	20:45:06.32			0.16
			Sg		45:19.80		-0.71
PKB3	121.2	275	ePn	20:45:08.99			-0.02
			eSn		45:25.14		-0.44
SURR	123.0	121	PnD	20:45:09.54			0.30
			Sn		45:25.80		-0.19
PKB2	123.1	288	ePn	20:45:09.45			0.20
			eSn		45:24.92		-1.09
LTVH	146.4	36	ePn	20:45:11.90			-0.26
MORH	163.8	266	PnC	20:45:14.52			0.20
			Sn		45:34.40		-0.64
PKSM	164.0	266	eSn	20:45:35.50			0.41
PKB4	167.1	277	eSn	20:45:36.37			0.59
MARR	185.0	78	PnC	20:45:17.67			0.70
			Sn		45:39.00		-0.75
GZR	187.5	123	PnC	20:45:17.87			0.59
			Sn		45:42.30		1.99*

289.

2017-08-15 time: 6:06:29.91 UTC ML= 0.9
 lat: 47.277N lon: 18.345E h= 0.0 km
 erh= 2.7km erz= 903km
 nr= 11 gap=133 rms=0.75
 Locality: Magyaralmás
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	11.5	326	ePgC	6:06:31.67			-0.29
			eSg		06:33.14		-0.42
PKSG	13.2	15	ePgC	6:06:32.10			-0.17

Földrengés paraméterek

Hypocenter Parameters

		eSg	06:33.56	-0.55
PKST	23.6 265	ePg	6:06:34.15	0.03
		eSg	06:37.34	-0.07
PKB1	64.5 148	ePgC	6:06:43.28	1.85
MORH	120.2 169	ePg	6:06:52.07	0.69
		eSg	07:06.93	-1.19
PKSM	120.6 169	ePg	6:06:51.65	0.20
		eSg	07:07.32	-0.92

290.

2017-08-15 time: 7:17:06.89 UTC ML= 1.8
 lat: 46.042N lon: 16.327E h= 7.9 km
 erh= 2.5km erz= 1.9km
 nr= 24 gap=163 rms=0.81
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOGS	45.6	353	iPg	7:17:14.99	-0.16
			iSg	17:21.03	-0.56
GOLS	54.5	266	iPg	7:17:16.94	0.22
GCIS	57.6	250	iPgD	7:17:17.43	0.16
BEHE	58.9	36	ePg	7:17:17.56	0.07
			eSg	17:25.95	0.18
DOBS	67.4	280	iPg	7:17:18.95	-0.06
GROS	78.9	306	iPg	7:17:20.52	-0.52
SOKA	122.2	305	Pn	7:17:28.53	0.38
			Sn	17:41.85	-2.88
KOVH	137.3	88	ePn	7:17:29.44	-0.59
			eSn	17:43.97	-4.11*
OBKA	146.6	291	Pn	7:17:32.06	0.87
			Sn	17:50.17	0.02
ARSA	147.8	335	Pn	7:17:32.54	1.20
			Sn	17:49.74	-0.68
PKSM	179.9	84	ePnC	7:17:34.47	-0.87
			eSn	17:56.61	-0.92
MORH	180.1	84	ePnC	7:17:34.50	-0.87
			eSn	18:00.58	2.99
RONA	184.3	359	Pn	7:17:37.72	1.82
			Sn	18:00.83	2.30
MOA	255.0	322	Pn	7:17:46.18	1.47
			Sn	18:15.35	1.14
KHC	400.9	329	ePn	7:18:04.40	1.50*
			eSn	18:45.30	-1.30*

291.

2017-08-15 time: 8:05:42.70 UTC ML= 1.1
 lat: 48.553N lon: 20.846E h= 0.0 km
 erh= 4.6km erz= 8.5km
 nr= 10 gap=109 rms=1.24
 Locality: Hidvérgárdó
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	27.7	254	ePg	8:05:47.50	-0.15
			eSg	05:51.50	-0.01
ABAH	40.8	134	eSg	8:05:52.98	-2.69
PSZ	99.9	225	ePg	8:06:01.41	0.87
			eSg	06:15.14	0.69
STHS	100.4	17	ePg	8:06:01.10	0.48
			eSg	06:12.70	-1.90
KOLS	113.2	68	eSg	8:06:20.60	1.93
VYHS	148.6	267	ePn	8:06:08.20	-0.06
			eSn	06:25.90	-2.30

292.

2017-08-15 time: 8:47:23.63 UTC ML= 1.0
 lat: 47.363N lon: 18.494E h= 0.0 km
 erh= 3.3km erz= 530km
 nr= 7 gap=242 rms=0.35
 Locality: Csákvár
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.4	293	ePgC	8:47:25.31	0.17
			eSg	47:26.16	-0.15
CSKK	17.6	270	ePgC	8:47:26.68	-0.10
			eSg	47:28.29	-0.94
PKST	36.6	252	eSg	8:47:35.84	0.57
PKSM	128.4	175	ePg	8:47:46.78	0.22
			eSg	48:04.21	-0.24

293.

2017-08-16 time: 10:02:37.60 UTC ML= 0.7
 lat: 46.214N lon: 18.271E h= 0.0 km
 erh= 1.5km erz= 259km
 nr= 7 gap=176 rms=0.18
 Locality: Kisbattyán
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	19.2	224	ePgC	10:02:40.91	-0.12
			eSg	02:43.89	0.19
PKSM	28.6	90	ePg	10:02:42.89	0.19
			eSg	02:46.39	-0.29
MORH	28.8	89	ePg	10:02:42.89	0.15
			eSg	02:46.45	-0.30
PKB4	40.6	39	ePg	10:02:44.89	0.05

294.

2017-08-17 time: 8:16:21.36 UTC ML= 0.5
 lat: 47.202N lon: 18.294E h= 0.0 km
 erh= 1.9km erz= 566km
 nr= 8 gap=147 rms=0.41
 Locality: Székesfehérvár
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.1	352	ePg	8:16:24.65	0.06
			eSg	16:27.17	0.05
PKST	20.7	288	ePg	8:16:24.67	-0.38
			eSg	16:27.88	-0.05
PKSG	22.4	19	ePg	8:16:25.20	-0.15
			eSg	16:28.64	0.18
PKSM	113.2	166	ePg	8:16:42.57	1.00
			eSg	16:56.76	-0.58

295.

2017-08-17 time: 8:44:56.33 UTC ML= 1.2
 lat: 48.654N lon: 20.792E h= 0.0 km
 erh= 5.0km erz= 5.4km
 nr= 8 gap=237 rms=0.70
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	29.5	230	ePg	8:45:01.50	-0.10
			eSg	45:05.60	-0.11
ABAH	51.8	140	ePg	8:45:05.83	0.25
			eSg	45:12.23	-0.56
PSZ	105.5	219	ePg	8:45:16.68	1.51
			eSg	45:29.45	-0.41
VYHS	145.4	263	ePn	8:45:21.50	0.01
			eSn	45:39.80	-1.32

296.

2017-08-17 time: 10:51:00.92 UTC ML= 2.1
 lat: 46.151N lon: 16.666E h= 10.0 km
 erh= 1.8km erz= 1.4km
 nr= 38 gap=155 rms=0.75
 Locality: Croatia
 Comments:

Hypocenter Parameters

Földrengés paraméterek

sta	dist	azm	phase	hr	mn	sec	res	eSg	24:33.59	-0.08
BEHE	36.5	13	ePgD	10:51:07.83			0.16			
KOGS	46.0	316	iPg	10:51:09.52			0.19			
			iSg	51:15.23			-0.65			
GOLS	82.0	259	iPg	10:51:15.92			0.24			
			eSg	51:27.59			0.40			
GCIS	86.4	249	iPg	10:51:16.90			0.45			
			eSg	51:28.14			-0.43			
GROS	96.0	291	ePg	10:51:17.48			-0.69			
CRES	100.4	249	iPg	10:51:19.34			0.40			
			eSg	51:33.11			0.12			
LEGS	106.7	258	eP*	10:51:20.23			0.26			
			eS*	51:34.02			-0.81			
KOVH	111.1	94	ePn	10:51:19.99			-0.54			
			eSn	51:33.16			-2.66			
PKKS	129.3	266	ePn	10:51:23.24			0.43			
PERS	130.8	294	iPn	10:51:23.06			0.08			
			eSn	51:39.05			-1.14			
PKS9	133.3	69	eSn	10:51:40.08			-0.66			
SOKA	138.5	295	Pn	10:51:24.10			0.15			
			Sn	51:41.23			-0.69			
EGYH	149.7	20	ePn	10:51:26.05			0.71			
			eSn	51:45.09			0.71			
ARSA	150.2	324	Pn	10:51:25.64			0.23			
			Sn	51:42.80			-1.71			
PKSM	152.7	87	ePn	10:51:24.76			-0.96			
			eSn	51:45.66			0.60			
MORH	152.9	87	ePn	10:51:24.99			-0.76			
			eSn	51:46.10			0.99			
PKB4	154.1	76	ePn	10:51:27.05			1.15			
			eSn	51:46.20			0.83			
PKST	161.6	40	ePn	10:51:26.56			-0.27			
			eSn	51:48.13			1.09			
PKB5	166.7	73	eSn	10:51:49.69			1.51			
OBKA	167.8	284	Pn	10:51:29.21			1.61			
			Sn	51:51.42			3.01			
RONA	174.4	351	Pn	10:51:28.81			0.38			
			Sn	51:50.69			0.81			
PKB1	177.9	67	eSn	10:51:52.60			1.96			
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297.										
2017-08-18 time: 6:50:13.14 UTC ML= 1.4										
lat: 47.897N lon: 19.395E h= 0.0 km										
erh= 2.2km erz= 699km										
nr= 8 gap=129 rms=0.49										
Locality: Bercel										
Comments: probably explosion										
sta	dist	azm	phase	hr	mn	sec	res			
PENC	14.5	216	ePg	6:50:15.30			-0.43			
			eSg	50:18.45			0.70			
PSZ	37.4	86	ePg	6:50:19.43			-0.39			
			eSg	50:24.70			-0.34			
VYHS	78.3	328	ePg	6:50:27.60			0.48			
			eSg	50:37.30			-0.73			
KECS	104.1	51	ePg	6:50:31.90			0.18			
			eSg	50:46.90			0.68			
<hr/>										
298.										
2017-08-21 time: 9:23:55.12 UTC ML= 1.4										
lat: 48.541N lon: 18.554E h= 0.0 km										
erh= 7.5km erz= 723km										
nr= 6 gap=205 rms=0.44										
Locality: Slovakia										
Comments: probably explosion										
sta	dist	azm	phase	hr	mn	sec	res			
VYHS	21.5	104	ePg	9:23:58.70			-0.26			
			eSg	24:02.30			0.35			
MODS	96.2	259	ePg	9:24:11.80			-0.50			
			eSg	24:26.70			1.00			
PSZ	121.3	125	ePg	9:24:16.86			0.08			
<hr/>										
299.										
2017-08-22 time: 8:13:40.70 UTC ML= 1.1										
lat: 48.622N lon: 20.732E h= 0.0 km										
erh= 1.2km erz= 3.1km										
nr= 11 gap=131 rms=0.34										
Locality: Slovakia										
Comments: probably explosion										
sta	dist	azm	phase	hr	mn	sec	res			
KECS	23.9	230	ePg	8:13:44.80			-0.17			
			eSg	13:48.50			0.20			
ABAH	52.2	134	ePg	8:13:49.83			-0.19			
			eSg	13:57.75			0.46			
PSZ	100.0	218	ePg	8:13:58.72			0.17			
			eSg	14:11.98			-0.50			
LANS	109.8	302	ePg	8:14:00.60			0.30			
			eSg	14:15.40			-0.19			
KOLS	118.4	73	eSg	8:14:17.90			-0.43			
VYHS	140.7	264	ePn	8:14:05.60			0.32			
			eSn	14:22.20			-2.25*			
<hr/>										
300.										
2017-08-23 time: 7:10:32.32 UTC ML= 1.6										
lat: 48.425N lon: 19.527E h= 0.0 km										
erh= 1.2km erz= 3.1km										
nr= 12 gap= 84 rms=0.80										
Locality: Slovakia										
Comments: probably explosion										
sta	dist	azm	phase	hr	mn	sec	res			
VYHS	51.6	278	ePg	7:10:41.80			0.27			
			eSg	10:48.40			-0.32			
PSZ	62.7	154	ePg	7:10:43.94			0.43			
			eSg	10:52.36			0.12			
KECS	71.2	85	ePg	7:10:44.90			-0.14			
			eSg	10:54.30			-0.66			
PENC	72.9	194	eSg	7:10:55.06			-0.43			
LANS	80.7	357	eSg	7:10:57.00			-0.98			
ABAH	127.8	96	ePg	7:10:54.84			-0.29			
			eSg	11:12.38			-0.54			
STHS	167.3	49	ePn	7:11:02.90			2.69			
			eSn	11:24.20			2.23			
<hr/>										
301.										
2017-08-23 time: 9:54:32.92 UTC ML= 1.2										
lat: 47.893N lon: 19.177E h= 0.0 km										
erh= 3.6km erz= 902km										
nr= 8 gap=194 rms=0.65										
Locality: Felsőpetény										
Comments: probably explosion										
sta	dist	azm	phase	hr	mn	sec	res			
PENC	13.8	145	ePg	9:54:34.79			-0.59			
			eSg	54:37.05			-0.25			
PSZ	53.7	87	ePg	9:54:43.02			0.52			
			eSg	54:50.52			0.54			
VYHS	71.5	339	ePg	9:54:45.70			0.01			
			eSg	54:55.30			-0.35			
KECS	117.4	56	ePg	9:54:54.70			0.82			
			eSg	55:08.40			-1.83			
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302.										
2017-08-24 time: 6:26:40.81 UTC ML= 0.5										
lat: 47.289N lon: 18.336E h= 0.0 km										
erh= 1.9km erz= 310km										
nr= 6 gap=242 rms=0.19										
Locality: Magyaralmás										
Comments: probably explosion										

Földrengés paraméterek

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
CSKK	10.0	325	ePg	6:26:42.47	-0.14
			eSg	26:43.73	-0.27
PKSG	12.2	20	ePgC	6:26:42.92	-0.06
			eSg	26:45.01	0.33
PKST	23.1	262	ePg	6:26:44.95	0.02
			eSg	26:48.44	0.29

303.

2017-08-24 time: 7:00:40.78 UTC ML= 0.8
 lat: 47.354N lon: 18.498E h= 0.0 km
 erh= 4.9km erz= 763km
 nr= 6 gap=238 rms=0.44
 Locality: Lovasberény
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	9.2	297	ePgC	7:00:42.70	0.29
			eSg	00:43.06	-0.63
CSKK	18.0	273	ePgC	7:00:44.03	0.04
			eSg	00:46.04	-0.46
PKST	36.6	253	eSg	7:00:53.29	0.87
PKSM	127.4	175	eSg	7:01:20.89	-0.39

304.

2017-08-24 time: 7:45:44.13 UTC ML= 0.8
 lat: 47.283N lon: 18.359E h= 0.0 km
 erh= 1.3km erz= 370km
 nr= 8 gap=159 rms=0.27
 Locality: Magyaralmás
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	11.6	320	ePg	7:45:46.13	-0.08
			eSg	45:47.31	-0.53
PKSG	12.4	11	ePgC	7:45:46.58	0.24
			eSg	45:47.85	-0.22
PKST	24.7	264	ePg	7:45:48.59	0.05
			eSg	45:52.11	0.13
PKSM	121.0	170	ePg	7:46:06.09	0.36
			eSg	46:22.17	-0.41

305.

2017-08-24 time: 9:13:07.40 UTC ML= 1.3
 lat: 48.624N lon: 20.750E h= 0.0 km
 erh= 1.6km erz= 4.1km
 nr= 11 gap=113 rms=0.45
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.0	231	ePg	9:13:11.40	-0.47
			eSg	13:15.30	-0.05
ABAH	51.5	135	ePg	9:13:17.69	1.10
			eSg	13:23.09	-0.66
STHS	95.2	22	ePg	9:13:24.50	0.10
			eSg	13:37.60	-0.07
PSZ	101.0	219	ePg	9:13:25.52	0.09
			eSg	13:39.71	0.22
LANS	110.7	302	ePg	9:13:27.20	0.03
VYHS	142.0	264	ePn	9:13:31.90	-0.23
			eSn	13:49.70	-1.73

306.

2017-08-25 time: 11:02:28.26 UTC ML= 1.9
 lat: 48.251N lon: 21.200E h= 0.0 km
 erh= 2.3km erz= 434km
 nr= 8 gap=203 rms=0.31
 Locality: Abaújszántó
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	5.8	30	ePgC	11:02:28.89	-0.41
			eSg	02:30.32	0.20
KECS	58.9	296	ePg	11:02:38.80	0.03
			eSg	02:47.00	0.03
PSZ	104.0	249	ePg	11:02:47.23	0.39
			eSg	03:00.88	-0.44
KOLS	109.7	46	ePg	11:02:48.20	0.35
			eSg	03:03.00	-0.12

307.

2017-08-29 time: 9:03:10.46 UTC ML= 1.2
 lat: 46.036N lon: 18.070E h= 0.0 km
 erh= 3.7km erz= 673km
 nr= 14 gap=309 rms=0.57
 Locality: Bicsérd
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	6.3	22	ePg	9:03:11.74	0.15
			eSg	03:12.85	0.38
PKSM	48.3	66	ePg	9:03:19.03	-0.06
			eSg	03:25.90	0.07
MORH	48.7	66	ePg	9:03:19.03	-0.13
			eSg	03:25.21	-0.74
PKS9	63.4	15	ePg	9:03:21.91	0.13
			eSg	03:29.46	-1.15
PKB4	65.7	39	ePg	9:03:22.21	0.01
			eSg	03:32.31	0.96
PKB5	80.6	40	ePg	9:03:24.44	-0.42
			eSg	03:36.83	0.74
PKB1	100.1	34	ePg	9:03:29.04	0.71
			eSg	03:40.86	-1.41

308.

2017-08-30 time: 7:20:23.99 UTC ML= 1.6
 lat: 47.965N lon: 20.009E h= 0.0 km
 erh= 2.2km erz= 3.4km
 nr= 7 gap=183 rms=0.59
 Locality: Mátraballa
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	10.0	239	ePgC	7:20:25.92	0.15
			eSg	20:28.16	0.99
PENC	57.8	250	eSg	7:20:42.36	0.01
KECS	67.7	32	eSg	7:20:45.80	0.30
VYHS	105.2	304	ePg	7:20:42.80	0.03
			eSg	20:56.50	-0.92
PKB1	160.2	215	eSn	7:21:10.70	-1.37

309.

2017-08-30 time: 12:23:02.56 UTC ML= 0.4
 lat: 47.177N lon: 18.301E h= 0.0 km
 erh= 2.1km erz= 273km
 nr= 6 gap=278 rms=0.17
 Locality: Sárkeszi
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	20.9	352	ePg	12:23:06.13	-0.17
			eSg	23:08.90	-0.31

Hypocenter Parameters

Földrengés paraméterek

PKST 22.2 294 ePg 12:23:06.64 0.12
 eSg 23:09.67 0.06
 PKSG 24.8 16 ePg 12:23:07.04 0.04
 eSg 23:10.69 0.24

310.

2017-08-31 time: 15:20:51.60 UTC ML= 0.7
 lat: 47.255N lon: 18.168E h= 15.4 km
 erh= 2.9km erz= 2.0km
 nr= 12 gap=118 rms=0.55
 Locality: Isztimér
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKST	10.1	273	ePgC	15:20:54.90			0.01
			eSg	20:57.27			-0.18
CSKK	13.9	30	ePg	15:20:55.23			-0.08
			eSg	20:57.74			-0.46
PKSG	22.7	48	ePg	15:20:56.72			0.22
			eSg	21:00.44			0.12
PKB1	70.6	138	ePg	15:21:05.57			1.06
			eSg	21:14.10			-0.48
MORH	121.1	162	ePn	15:21:12.70			0.93
			eSn	21:26.38			-1.12
PKSM	121.5	163	ePn	15:21:11.41			-0.41
			eSn	21:27.15			-0.43

311.

2017-08-31 time: 15:33:45.09 UTC ML= 1.3
 lat: 47.171N lon: 19.101E h= 0.0 km
 erh= 5.8km erz= ***km
 nr= 10 gap=151 rms=0.85
 Locality: Apaj
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKS7	14.5	162	ePgC	15:33:47.16			-0.51
			eSg	33:50.33			0.65
PKB5	69.8	204	ePgC	15:33:58.52			0.97
			eSg	34:08.99			1.71
PENC	70.2	11	ePg	15:33:57.51			-0.12
PKB4	84.0	207	ePgC	15:34:00.44			0.35
PKS9	90.2	224	ePgC	15:34:01.78			0.58
MORH	111.8	198	ePgC	15:34:04.23			-0.82
			eSg	34:18.86			-1.75
PKSM	112.3	198	ePgC	15:34:04.15			-0.98

312.

2017-09-01 time: 11:40:38.00 UTC ML= 1.4
 lat: 47.092N lon: 19.409E h= 0.0 km
 erh= 4.6km erz= ***km
 nr= 11 gap=171 rms=0.93
 Locality: Tatárszentgyörgy
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKS7	19.5	255	ePgC	11:40:41.43			-0.05
			eSg	40:44.63			0.44
PKSN	41.1	122	ePg	11:40:50.75			5.41*
PKB1	58.1	234	ePg	11:40:49.10			0.73
PKS2	68.4	193	ePg	11:40:51.65			1.44
PKB3	76.1	192	ePg	11:40:51.60			0.02
PENC	78.2	353	ePg	11:40:53.17			1.20
PKSG	84.0	293	ePg	11:40:51.60			-1.39
PSZ	98.9	22	ePg	11:40:55.80			0.14
			eSg	41:08.32			-1.11
PKSM	114.1	211	ePg	11:40:57.47			-0.91
			eSg	41:12.92			-1.36

313.

2017-09-02 time: 8:49:45.39 UTC ML= 1.3
 lat: 48.063N lon: 19.576E h= 0.0 km
 erh= 4.3km erz= ***km
 nr= 8 gap=127 rms=1.03
 Locality: Nagylóc
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	28.7	124	ePgC	8:49:50.12			-0.40
			eSg	49:54.34			-0.18
PENC	37.5	216	ePg	8:49:52.48			0.40
			eSg	49:58.81			1.52
VYHS	72.8	311	ePg	8:49:59.90			1.50
			eSg	50:07.20			-1.34
PKSG	116.1	230	eSg	8:50:20.65			-1.64
ABAH	126.4	78	eSg	8:50:25.00			-0.57

314.

2017-09-03 time: 2:26:47.98 UTC ML= 1.2
 lat: 47.286N lon: 18.081E h= 6.1 km
 erh= 3.2km erz= 2.0km
 nr= 18 gap=153 rms=0.88
 Locality: Tés
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKST	4.6	230	ePg	2:26:48.72			-0.63
			eSg	26:49.67			-0.75
CSKK	16.1	58	ePg	2:26:50.47			-0.58
			eSg	26:53.15			-0.29
PKSG	26.2	63	ePg	2:26:52.19			-0.60
			eSg	26:55.63			-0.90
TIH	45.2	198	ePg	2:26:56.67			0.54
PKB1	77.6	136	ePg	2:27:03.11			1.22
			eSg	27:12.54			-0.20
PKB5	91.5	147	ePg	2:27:05.07			0.70
			eSg	27:16.73			-0.41
MORH	126.5	160	eSn	2:27:25.72			-1.46
PKSM	126.8	160	ePn	2:27:10.22			0.17
			eSn	27:25.03			-2.23
KOVH	133.1	179	ePn	2:27:11.40			0.57
			eSn	27:27.69			-0.97
VYHS	145.7	23	ePn	2:27:14.40			1.99
			eSn	27:31.00			-0.46

315.

2017-09-04 time: 15:30:12.34 UTC ML= 1.9
 lat: 48.641N lon: 22.050E h= 12.7 km
 erh= 1.4km erz= 1.2km
 nr= 12 gap=121 rms=0.34
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
KOLS	36.4	27	ePg	15:30:19.40			0.17
			eSg	30:25.10			0.50
CRVS	52.1	304	ePg	15:30:21.50			-0.42
			eSg	30:30.00			0.60
TRPA	67.3	147	ePg	15:30:24.40			-0.18
ABAH	71.2	237	ePg	15:30:25.50			0.25
			eSg	30:35.12			-0.20
STHS	104.5	326	ePn	15:30:30.50			-0.27
			eSn	30:44.50			-0.65
KECS	116.8	261	ePn	15:30:32.60			0.29
			eSn	30:48.10			0.22
PSZ	179.0	243	eSn	15:31:04.47			2.78*

Földrengés paraméterek

Hypocenter Parameters

316.

2017-09-05 time: 12:38:34.69 UTC ML= 1.8
 lat: 47.939N lon: 18.910E h= 0.0 km
 erh= 5.8km erz= 8.4km
 nr= 8 gap=171 rms=1.12
 Locality: Nagybörzsöny
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	32.3	121	ePg	12:38:41.08	0.62
			eSg	38:43.35	-1.61
VYHS	61.9	355	ePg	12:38:46.40	0.65
			eSg	38:52.80	-1.58
PSZ	73.6	92	ePg	12:38:49.18	1.35
			eSg	38:56.60	-1.48
PKB1	128.7	184	eSg	12:39:15.40	-0.20
KECS	131.8	63	eSn	12:39:17.30	0.84

317.

2017-09-06 time: 11:08:17.77 UTC ML= 1.0
 lat: 48.715N lon: 21.514E h= 0.0 km
 erh= 2.7km erz= 929km
 nr= 9 gap= 98 rms=0.70
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CRVS	21.1	349	ePg	11:08:21.50	-0.04
			eSg	08:24.40	-0.09
ABAH	50.9	204	ePg	11:08:27.06	0.20
			eSg	08:35.30	1.36
KOLS	60.7	67	ePg	11:08:29.80	1.18
KECS	80.2	251	ePg	11:08:31.70	-0.39
			eSg	08:42.40	-0.85
TRPA	99.9	131	ePg	11:08:35.16	-0.46
			eSg	08:48.69	-0.84

318.

2017-09-07 time: 8:22:14.21 UTC ML= 1.3
 lat: 47.348N lon: 18.450E h= 0.0 km
 erh= 1.0km erz= 2.0km
 nr= 8 gap=161 rms=0.23
 Locality: Gánt
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	6.6	317	ePgC	8:22:15.59	0.20
			eSg	22:16.13	-0.18
CSKK	14.4	277	ePg	8:22:16.85	0.07
			eSg	22:18.96	0.17
PKST	32.9	253	eSg	8:22:24.59	-0.09
MORH	126.7	173	eSg	8:22:54.66	0.17
PKSM	127.1	173	eSg	8:22:54.35	-0.27
VYHS	130.7	13	eSn	8:22:55.00	-0.73

319.

2017-09-07 time: 9:34:53.43 UTC ML= 1.4
 lat: 47.854N lon: 19.109E h= 0.0 km
 erh= 6.7km erz= 978km
 nr= 5 gap=225 rms=0.45
 Locality: Szendehely
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	14.8	119	ePg	9:34:55.68	-0.39
			eSg	34:58.57	0.45
PSZ	59.2	83	eSg	9:35:12.09	-0.16
VYHS	74.0	344	ePg	9:35:07.20	0.56
			eSg	35:16.40	-0.54

320.

2017-09-07 time: 23:30:04.01 UTC ML= 0.3
 lat: 47.228N lon: 18.420E h= 10.0 km
 erh= 2.4km erz= 4.4km
 nr= 6 gap=284 rms=0.24
 Locality: Csala
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	18.3	353	ePg	23:30:07.95	0.21
			eSg	30:10.94	0.29
CSKK	19.3	321	ePg	23:30:07.65	-0.24
			eSg	30:10.48	-0.43
PKST	29.4	277	ePg	23:30:09.56	0.00
			eSg	30:14.02	0.13

321.

2017-09-08 time: 8:58:49.94 UTC ML= 0.8
 lat: 46.024N lon: 18.112E h= 0.0 km
 erh= 3.4km erz= 425km
 nr= 9 gap=289 rms=0.32
 Locality: Zók
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	7.2	352	ePgC	8:58:50.94	-0.28
			eSg	58:52.46	0.23
PKSM	45.9	63	ePg	8:58:58.28	0.14
			eSg	59:04.41	-0.12
MORH	46.3	63	ePg	8:58:58.39	0.18
			eSg	59:04.56	-0.10
PKS9	63.9	12	ePg	8:59:01.56	0.22
PKB4	64.7	36	ePg	8:59:00.76	-0.74
PKB5	79.6	37	ePg	8:59:04.54	0.39

322.

2017-09-08 time: 9:28:28.50 UTC ML= 1.6
 lat: 48.833N lon: 21.162E h= 0.0 km
 erh= 2.1km erz= 3.7km
 nr= 12 gap=133 rms=0.62
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CRVS	23.3	71	ePg	9:28:32.60	-0.06
ABAH	59.9	175	ePg	9:28:39.44	0.23
			eSg	28:46.84	-0.72
KECS	63.2	232	ePg	9:28:39.90	0.11
			eSg	28:48.30	-0.30
STHS	65.2	5	ePg	9:28:39.80	-0.35
			eSg	28:48.50	-0.74
KOLS	82.2	82	ePg	9:28:45.00	1.81
TRPA	128.3	127	ePg	9:28:51.01	-0.40
			ePn	9:28:53.70	0.90
PSZ	138.4	223	eSn	29:11.85	0.11

323.

2017-09-09 time: 0:04:21.68 UTC ML= 1.4
 lat: 46.135N lon: 16.471E h= 7.2 km
 erh= 2.0km erz= 1.7km
 nr= 20 gap=144 rms=0.62
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOGS	38.8	334	iPgD	0:04:28.98	0.25
BEHE	44.1	32	iSg	04:34.30	0.08
			ePg	0:04:29.29	-0.36
			eSg	04:35.08	-0.79

Hypocenter Parameters

Földrengés paraméterek

PTJ 47.5 237 ePg 0:04:30.41 0.14
 eSg 04:36.80 -0.16
 DOBS 77.5 271 iPg 0:04:35.42 -0.15
 CRES 85.8 246 iPg 0:04:37.17 0.12
 LEGS 91.7 257 iPg 0:04:38.04 -0.06
 PERS 118.2 298 iPn 0:04:42.59 0.07
 KOVH 126.0 92 ePn 0:04:41.21 -2.29
 eSn 04:56.14 -4.38*
 SOKA 126.0 299 Pn 0:04:44.46 0.95
 Sn 04:59.59 -0.94
 ARSA 143.7 330 Pn 0:04:45.88 0.17
 Sn 05:03.36 -1.09
 MORH 168.0 87 ePn 0:04:49.43 0.69
 eSn 05:10.01 0.16
 PKB4 169.1 76 eSn 0:05:10.84 0.75
 PKST 173.0 44 ePn 0:04:49.70 0.34
 PKB1 192.4 68 eSn 0:05:16.46 1.21

324.

2017-09-09 time: 14:59:35.32 UTC ML= 1.4
 lat: 47.845N lon: 19.202E h= 7.4 km
 erh= 1.7km erz= 1.7km
 nr= 10 gap=109 rms=0.38
 Locality: Ósagárd
 Comments:

sta	dist	azm	phase	hr mn sec	res
PENC	8.5	136	ePgC	14:59:37.27	-0.06
			eSg	59:38.53	-0.36
PSZ	52.4	81	ePg	14:59:45.05	0.28
			eSg	59:52.35	0.21
VYHS	77.1	339	ePg	14:59:49.90	0.75
			eSg	59:59.10	-0.84
PKSG	79.1	230	ePg	14:59:49.34	-0.17
			eSg	15:00:00.52	-0.06
KECS	119.0	53	ePn	14:59:56.40	0.16
			eSn	15:00:12.10	-0.46

325.

2017-09-12 time: 10:03:41.70 UTC ML= 0.7
 lat: 47.195N lon: 18.284E h= 0.0 km
 erh= 2.7km erz= 338km
 nr= 6 gap=270 rms=0.21
 Locality: Sárkeszi
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.7	355	ePg	10:03:44.95	-0.10
			eSg	03:47.10	-0.56
PKST	20.2	291	ePg	10:03:45.34	0.03
			eSg	03:48.29	0.16
PKSG	23.3	20	ePg	10:03:45.89	0.03
			eSg	03:49.36	0.26

326.

2017-09-13 time: 7:49:55.97 UTC ML= 0.8
 lat: 47.432N lon: 18.414E h= 0.0 km
 erh= 3.5km erz= 383km
 nr= 5 gap=325 rms=0.17
 Locality: Várgesztes
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	4.8	201	ePg	7:49:56.97	0.14
			eSg	49:57.40	-0.11
CSKK	13.9	236	ePg	7:49:58.31	-0.14
			eSg	50:00.23	-0.16
PKST	34.6	236	eSg	7:50:07.25	0.30

327.

2017-09-13 time: 8:20:47.61 UTC ML= 1.0
 lat: 48.542N lon: 20.833E h= 1.5 km
 erh= 1.6km erz=37.4km
 nr= 8 gap=153 rms=0.36
 Locality: Hidvégárdó
 Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	26.5	256	ePg	8:20:51.90	-0.45
			eSg	20:56.10	0.06
ABAH	40.6	132	ePg	8:20:55.37	0.50
			eSg	21:00.22	-0.31
CRVS	61.2	49	ePg	8:20:58.70	0.16
			eSg	21:06.70	-0.36
PSZ	98.3	225	ePg	8:21:05.60	0.43
			eSg	21:18.54	-0.32

328.

2017-09-13 time: 8:31:10.34 UTC ML= 1.3
 lat: 48.606N lon: 20.757E h= 0.0 km
 erh= 1.6km erz= 390km
 nr= 8 gap=182 rms=0.29
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.2	236	ePg	8:31:14.40	-0.27
			eSg	31:18.30	0.25
ABAH	49.7	134	ePg	8:31:19.00	-0.21
			eSg	31:26.66	0.53
CRVS	61.4	58	ePg	8:31:21.50	0.20
			eSg	31:29.60	-0.25
PSZ	99.7	220	ePg	8:31:28.37	0.22
			eSg	31:41.68	-0.37

329.

2017-09-13 time: 9:20:58.32 UTC ML= 1.3
 lat: 47.145N lon: 17.907E h= 13.5 km
 erh= 4.0km erz= 2.7km
 nr= 11 gap=215 rms=0.59
 Locality: Gyulafirátót
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	15.9	37	ePg	9:21:01.52	-0.52
			eSg	21:05.18	0.23
TIH	27.3	182	ePg	9:21:03.30	-0.44
CSKK	36.1	48	ePg	9:21:05.20	0.00
			eSg	21:11.07	0.50
PKS9	68.2	155	ePg	9:21:12.51	1.78
PKB1	78.4	121	ePg	9:21:12.43	-0.09
			eSg	21:23.41	-0.20
PKB5	87.9	134	eS*	9:21:26.30	-0.25
MORH	117.7	151	ePn	9:21:18.56	0.26
			eSn	21:33.27	-0.62

330.

2017-09-13 time: 10:51:57.93 UTC ML= 1.3
 lat: 48.667N lon: 19.929E h= 0.0 km
 erh= 3.2km erz= 855km
 nr= 7 gap=146 rms=0.59
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	45.9	117	ePg	10:52:06.20	0.07
			eSg	52:11.90	-0.62
LANS	63.5	328	ePg	10:52:10.10	0.83
			eSg	52:17.20	-0.91

Földrengés paraméterek

Hypocenter Parameters

PSZ 83.3 182 ePg 10:52:13.39 0.57
 eSg 52:24.04 -0.38
 ABAH 105.3 113 eSg 10:52:31.13 -0.28

Sg 28:39.62 -0.83
 SOP 26.2 42 ePg 7:28:38.53 0.25
 eSg 28:41.34 -0.59
 CONA 58.4 323 Pg 7:28:45.04 1.01
 Sg 28:52.05 -0.12
 ARSA 67.1 245 Pg 7:28:44.89 -0.70
 Sg 28:55.42 0.48

331.

2017-09-13 time: 15:18:10.00 UTC ML= 1.0
 lat: 48.614N lon: 20.840E h= 0.0 km
 erh= 5.8km erz= 718km
 nr= 6 gap=259 rms=0.42
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	29.9	241	ePg	15:18:15.20	-0.14
			eSg	18:19.40	-0.12
ABAH	46.0	140	ePg	15:18:17.97	-0.25
			eSg	18:24.69	0.06
PSZ	104.4	222	ePg	15:18:29.54	0.89
			eSg	18:42.75	-0.45

332.

2017-09-14 time: 6:16:06.49 UTC ML= 0.9
 lat: 47.290N lon: 18.344E h= 0.0 km
 erh= 1.0km erz= 321km
 nr= 10 gap=152 rms=0.25
 Locality: Magyaralmás
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	10.3	322	ePg	6:16:08.20	-0.12
			eSg	16:08.94	-0.82
PKSG	11.8	17	ePgC	6:16:08.79	0.19
			eSg	16:10.27	0.03
PKST	23.7	262	ePg	6:16:10.84	0.12
			eSg	16:14.22	0.20
MORH	121.6	169	ePg	6:16:28.14	-0.06
			eSg	16:45.29	0.15
PKSM	122.0	169	ePg	6:16:28.38	0.11
			eSg	16:44.70	-0.57

333.

2017-09-14 time: 9:12:22.12 UTC ML= 1.6
 lat: 48.595N lon: 20.771E h= 0.0 km
 erh= 1.6km erz= 520km
 nr= 10 gap= 87 rms=0.41
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.4	239	ePg	9:12:26.50	0.02
			eSg	12:30.40	0.52
ABAH	48.0	134	ePg	9:12:30.72	0.03
			eSg	12:36.64	-0.74
CRVS	61.2	56	ePg	9:12:33.40	0.35
STHS	97.7	21	ePg	9:12:39.60	0.03
PSZ	99.5	221	ePg	9:12:40.20	0.32
			eSg	12:53.30	-0.43
LANS	113.8	303	ePg	9:12:42.30	-0.14
			eSg	12:55.80	-2.49

334.

2017-09-15 time: 7:28:33.60 UTC ML= 0.7
 lat: 47.507N lon: 16.327E h= 1.7 km
 erh= 3.3km erz=56.5km
 nr= 8 gap=203 rms=0.59
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr mn sec	res
RONA	21.5	354	Pg	7:28:37.44	-0.01

335.

2017-09-16 time: 10:34:54.37 UTC ML= 3.1
 lat: 46.211N lon: 16.757E h= 6.9 km
 erh= 2.4km erz= 2.0km
 nr= 57 gap=146 rms=1.16
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	28.8	3	ePgD	10:35:00.25	0.59
			eSg	35:04.85	1.06
KOGS	47.0	304	iPg	10:35:03.02	0.16
			eSg	35:09.22	-0.26
GCIS	95.4	246	iPg	10:35:10.65	-0.80
			iSg	35:24.51	-0.26
GROS	100.5	286	iPg	10:35:11.39	-0.97
TIH	116.0	49	ePn	10:35:14.17	-0.82
			eSn	35:30.48	-0.59
PKS9	124.3	70	ePn	10:35:14.88	-1.14
			eSn	35:32.24	-0.67
BOJS	140.8	236	iPn	10:35:18.91	0.83
SOKA	142.3	291	Pn	10:35:17.58	-0.68
			Sn	35:34.84	-2.05
PKSM	145.5	90	ePn	10:35:17.27	-1.39
			eSn	35:37.70	0.10
MORH	145.7	90	ePn	10:35:17.44	-1.24
PKB4	145.7	77	ePn	10:35:19.52	0.83
			eSn	35:37.71	0.06
ARSA	149.1	321	Pn	10:35:18.98	-0.13
			Sn	35:37.20	-1.21
PKST	152.0	40	ePnD	10:35:18.60	-0.87
			eSn	35:38.36	-0.69
PKB5	158.1	74	ePn	10:35:18.63	-1.60
			eSn	35:36.77	-3.63
SOP	164.3	355	ePn	10:35:22.45	1.44
			eSn	35:43.09	1.30
PKB1	168.8	68	ePn	10:35:23.18	1.62
			eSn	35:44.59	1.82
RONA	169.1	348	Pn	10:35:21.41	-0.20
			Sn	35:43.47	0.62
OBKA	173.1	281	Pn	10:35:23.23	1.13
			Sn	35:44.80	1.06
LJU	173.3	264	iPn	10:35:23.20	1.07
PKSG	181.1	44	ePn	10:35:22.04	-1.06
			eSn	35:46.08	0.57
PKB3	189.3	83	ePn	10:35:27.21	3.09
			eSn	35:43.88	-3.45
PKS2	191.7	81	ePn	10:35:27.34	2.92
			eSn	35:51.72	3.86
CRNS	193.3	266	iPn	10:35:26.60	1.97
PKB2	197.8	75	ePn	10:35:27.94	2.76
			eSn	35:53.17	3.95
CONA	202.6	340	Pn	10:35:26.11	0.32
			Sn	35:50.39	0.10
SRO	213.9	34	ePn	10:35:26.70	-0.49
ZST	222.2	7	ePn	10:35:27.40	-0.83
MODS	243.6	9	ePn	10:35:30.10	-0.80
MYKA	243.9	281	Pn	10:35:31.61	0.67
			Sn	35:59.00	-0.46
MOA	262.7	314	Pn	10:35:33.92	0.64
			Sn	36:02.56	-1.06
KBA	278.4	290	Pn	10:35:35.28	0.04
			Sn	36:07.55	0.44
BIOA	288.8	305	Pn	10:35:37.13	0.60
			Sn	36:08.91	-0.51
VYHS	298.5	32	ePn	10:35:36.90	-0.84

Hypocenter Parameters

eSn 36:07.70 -3.87*
 ABTA 331.3 280 Pn 10:35:42.49 0.66*
 Sn 36:18.40 -0.45*
 KECS 378.4 48 ePn 10:35:46.90 -0.81*
 KHC 402.9 324 ePn 10:35:51.90 1.14*
 eSn 36:32.70 -2.05*
 WTTA 408.5 287 Pn 10:35:53.32 1.87*
 PRU 451.2 339 ePn 10:35:57.60 0.82*
 STHS 489.9 43 ePn 10:36:01.30 -0.30*

336.

2017-09-16 time: 14:27:21.52 UTC ML= 1.6
 lat: 46.224N lon: 16.756E h= 1.4 km
 erh= 4.0km erz= 4.6km
 nr= 9 gap=141 rms=0.75
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
KOGS	46.2	303	ePg	14:27:29.90			0.13
			eSg	27:36.31			0.10
PTJ	71.5	240	ePg	14:27:35.02			0.74
			eSg	27:43.21			-1.03
KOVH	104.9	98	ePg	14:27:40.72			0.47
			eSg	27:52.91			-1.96
PKB4	145.4	78	eSn	14:28:05.27			-0.73
MORH	145.7	90	ePn	14:27:46.68			0.14
PKB1	168.3	68	eSn	14:28:11.89			0.82

337.

2017-09-18 time: 4:40:12.94 UTC ML= 1.4
 lat: 47.501N lon: 16.139E h= 0.2 km
 erh= 2.4km erz= 670km
 nr= 10 gap=143 rms=0.61
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
RONA	25.0	28	Pg	4:40:17.76			0.35
			Sg	40:20.83			-0.06
SOP	37.5	57	ePg	4:40:19.64			0.01
			eSg	40:23.88			-0.98
CONA	51.8	336	Pg	4:40:22.17			-0.02
			Sg	40:28.80			-0.61
ARSA	54.2	239	Pg	4:40:22.94			0.32
			Sg	40:29.67			-0.50
EGYH	90.5	96	ePg	4:40:30.61			1.52
			eSg	40:41.22			-0.47

338.

2017-09-18 time: 11:11:09.31 UTC ML= 1.3
 lat: 48.672N lon: 21.387E h= 12.6 km
 erh= 1.7km erz= 1.9km
 nr= 11 gap=100 rms=0.39
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CRVS	26.2	12	ePg	11:11:14.50			0.00
			eSg	11:19.00			0.46
ABAH	43.2	195	ePg	11:11:17.80			0.46
			eSg	11:23.12			-0.49
KECS	69.8	253	ePg	11:11:21.70			-0.27
KOLS	71.3	66	ePg	11:11:22.50			0.27
			eSg	11:31.80			-0.51
STHS	83.5	353	ePg	11:11:24.20			-0.19
TRPA	104.4	125	ePn	11:11:28.04			0.29
			eSn	11:39.91			-2.22
PSZ	138.9	233	ePn	11:11:32.03			-0.02

Földrengés paraméterek

339.

2017-09-20 time: 7:17:30.13 UTC ML= 0.3
 lat: 47.166N lon: 18.227E h= 0.0 km
 erh= 1.2km erz= 143km
 nr= 5 gap=279 rms=0.07
 Locality: Ósi
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	17.9	305	ePg	7:17:33.39			0.06
			eSg	17:35.72			-0.10
CSKK	22.1	7	ePg	7:17:34.01			-0.06
			eSg	17:37.23			0.08
PKSG	28.0	26	ePg	7:17:35.15			0.02

340.

2017-09-20 time: 10:11:29.94 UTC ML= 1.4
 lat: 48.632N lon: 21.472E h= 1.4 km
 erh= 1.9km erz= 3.4km
 nr= 15 gap= 84 rms=0.62
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CRVS	30.0	359	ePg	10:11:34.50			-0.80
			eSg	11:40.20			0.71
ABAH	41.1	205	ePg	10:11:37.50			0.21
			eSg	11:43.36			0.34
KOLS	67.8	60	ePg	10:11:42.30			0.26
			eSg	11:48.00			-3.48*
KECS	74.6	257	ePg	10:11:43.00			-0.27
			eSg	11:52.70			-0.96
STHS	88.8	349	ePg	10:11:45.70			-0.09
			eSg	11:58.80			0.64
TRPA	96.8	125	ePg	10:11:47.46			0.24
			eSg	12:00.46			-0.25
PSZ	141.4	236	ePn	10:11:53.74			-0.68
			eSn	12:14.15			0.62
VYHS	195.1	265	ePn	10:12:03.20			2.08

341.

2017-09-21 time: 0:31:13.43 UTC ML= 1.5
 lat: 46.256N lon: 16.653E h= 10.0 km
 erh= 1.9km erz= 1.8km
 nr= 11 gap=128 rms=0.42
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
BEHE	25.6	22	ePg	0:31:18.48			0.14
			eSg	31:21.70			-0.47
KOGS	37.6	305	ePg	0:31:20.40			0.02
			eSg	31:25.80			-0.01
ZAG	69.7	227	eSg	0:31:35.60			-0.20
CRES	104.2	243	eP*	0:31:32.40			0.31
			eS*	31:45.60			-1.05
KOVH	113.3	99	ePn	0:31:33.48			0.17
			eSn	31:47.19			-1.63
ARSA	140.3	322	eSn	0:31:54.50			-0.30
PKB4	152.5	80	eSn	0:31:59.00			1.48

342.

2017-09-21 time: 3:18:35.80 UTC ML= 1.2
 lat: 47.909N lon: 16.842E h= 6.8 km
 erh= 3.1km erz= 1.9km
 nr= 12 gap=234 rms=0.48
 Locality: Austria
 Comments:

Földrengés paraméterek

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
SOP	32.9	220	ePg	3:18:41.16	-0.64
			eSg	18:47.25	0.77
RONA	47.0	240	Pg	3:18:44.06	-0.23
			Sg	18:50.83	-0.08
EGYH	65.9	146	ePg	3:18:48.19	0.56
			eSg	18:56.98	0.12
CONA	73.3	272	Pg	3:18:48.93	-0.02
			Sg	18:59.31	0.10
ARSA	123.3	234	Pn	3:18:56.91	-0.43
			Sn	19:14.02	-0.11
MOA	192.8	268	Pn	3:19:09.18	3.18
			Sn	19:30.55	0.99

343.

2017-09-22 time: 8:21:38.29 UTC ML= 1.3
 lat: 47.566N lon: 18.508E h= 0.0 km
 erh= 2.8km erz= 4.7km
 nr= 10 gap=153 rms=0.69
 Locality: Tarján
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	21.3	205	ePg	8:21:42.31	0.22
			eSg	21:45.20	0.15
CSKK	29.3	220	ePg	8:21:43.39	-0.12
			eSg	21:47.36	-0.23
PKST	49.4	226	eSg	8:21:53.69	-0.31
PKB1	89.5	166	eSg	8:22:06.77	0.02
VYHS	106.0	13	ePg	8:21:58.60	1.38
			eSg	22:10.90	-1.10
PKB5	109.3	171	eSg	8:22:13.47	0.43
MORH	150.5	176	eSn	8:22:22.68	-1.52

344.

2017-09-22 time: 9:23:01.95 UTC ML= 1.5
 lat: 48.617N lon: 20.750E h= 0.0 km
 erh= 1.7km erz= 3.9km
 nr= 15 gap= 85 rms=0.64
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.5	233	ePg	9:23:06.40	0.07
			eSg	23:10.40	0.65
ABAH	50.8	135	ePgC	9:23:11.00	-0.03
			eSg	23:16.92	-1.19
CRVS	61.2	59	ePg	9:23:13.70	0.82
			eSg	23:21.70	0.30
STHS	96.0	22	ePg	9:23:19.60	0.50
			eSg	23:31.90	-0.57
PSZ	100.3	219	ePgC	9:23:20.22	0.35
			eSg	23:33.48	-0.36
LANS	111.2	302	ePg	9:23:22.30	0.49
			eSg	23:36.00	-1.30
KOLS	117.4	73	eSg	9:23:38.40	-0.86
VYHS	141.9	264	ePn	9:23:26.90	0.21
			eSn	23:44.50	-1.48

345.

2017-09-22 time: 10:24:26.05 UTC ML= 1.1
 lat: 48.902N lon: 21.067E h= 0.0 km
 erh= 2.3km erz= 4.3km
 nr= 12 gap=150 rms=0.64
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CRVS	28.9	90	ePg	10:24:31.10	-0.12
			eSg	24:34.80	-0.45
STHS	58.7	13	ePg	10:24:36.30	-0.23
			eSg	24:44.20	-0.51

KECS	63.2	223	ePg	10:24:37.80	0.46
			eSg	24:45.80	-0.34
ABAH	68.6	169	ePg	10:24:38.45	0.16
			eSg	24:47.01	-0.83
KOLS	88.5	88	ePg	10:24:43.00	1.15
			eSg	24:54.10	-0.08
TRPA	138.5	128	ePn	10:24:51.31	0.95
			eSn	25:07.74	-1.58

346.

2017-09-22 time: 10:47:31.77 UTC ML= 1.4
 lat: 47.110N lon: 17.970E h= 0.0 km
 erh= 2.5km erz= 784km
 nr= 17 gap=182 rms=0.69
 Locality: Kádárta
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	17.3	16	ePg	10:47:34.32	-0.53
			eSg	47:37.23	-0.03
TIH	24.1	194	ePg	10:47:36.13	0.06
			eSg	47:40.50	1.07
CSKK	35.7	38	ePg	10:47:38.36	0.21
			eSg	47:43.03	-0.10
PKSG	44.7	46	ePg	10:47:39.13	-0.62
			eSg	47:45.82	-0.15
PKB1	72.3	120	ePg	10:47:46.07	1.38
			eSg	47:56.01	1.24
PKB5	81.8	134	eSg	10:47:58.35	0.57
PKB4	83.7	145	ePg	10:47:46.99	0.28
			eSg	47:58.20	-0.17
MORH	112.0	153	ePg	10:47:51.34	-0.44
			eSg	48:05.70	-1.68
PKSM	112.3	153	ePg	10:47:51.56	-0.27
			eSg	48:06.29	-1.19

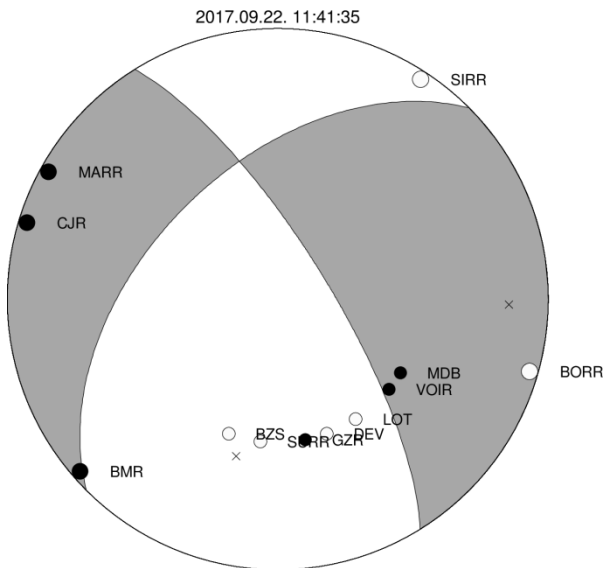
347.

2017-09-22 time: 11:41:35.42 UTC ML= 1.7
 lat: 46.981N lon: 22.330E h= 0.7 km
 erh= 1.8km erz= 2.3km
 nr= 28 gap= 58 rms=0.83
 Locality: Romania
 Comments:

sta	dist	azm	phase	hr mn sec	res
BORR	43.1	286	PgD	11:41:43.56	0.44
			Sg	41:49.70	0.57
LTVH	55.5	324	ePg	11:41:45.53	0.21
MARR	69.1	119	PgC	11:41:48.03	0.28
			Sg	41:57.30	-0.07
SIRR	94.5	213	PgD	11:41:52.19	-0.11
			Sg	42:03.60	-1.86
CJR	101.2	107	PgC	11:41:53.58	0.09
			Sg	42:06.40	-1.18
BMR	117.0	49	PgC	11:41:57.02	0.70
			Sg	42:11.80	-0.81
TRPA	128.7	7	ePg	11:41:57.19	-1.22
DEV	129.7	160	PnD	11:41:59.01	0.47
SURR	137.3	187	PnD	11:41:59.29	-0.20
			Sn	42:15.00	-3.27
BZS	161.3	200	PnD	11:42:01.87	-0.61
			Sn	42:23.60	0.01
GZR	179.8	169	PnC	11:42:05.53	0.74
			Sn	42:28.20	0.50
MDB	182.8	121	PnC	11:42:06.23	1.07
LOT	203.4	147	PnD	11:42:08.87	1.14
			Sn	42:34.20	1.26
PSZ	211.2	300	ePn	11:42:05.62	-3.08
			eSn	42:35.02	0.36
ARR	252.6	135	Sn	11:42:44.40	0.55
VOIR	271.1	129	Sn	11:42:48.70	0.74
VOIR	271.1	129	PnC	11:42:17.06	0.89
MORH	295.0	253	ePn	11:42:16.81	-2.34

Hypocenter Parameters

Földrengés paraméterek



349.

2017-09-22 time: 14:37:18.90 UTC ML= 1.1
 lat: 48.579N lon: 20.817E h= 0.0 km
 erh= 1.8km erz= 3.6km
 nr= 13 gap=112 rms=0.56
 Locality: Tornanádaska
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	26.7	247	ePg	14:37:23.70	0.04
			eSg	37:28.10	0.72
ABAH	44.3	135	ePg	14:37:27.52	0.71
			eSg	37:32.59	-0.39
CRVS	59.5	53	ePg	14:37:29.90	0.38
			eSg	37:37.90	0.09
STHS	98.3	19	ePg	14:37:35.90	-0.55
			eSg	37:49.30	-0.84
PSZ	100.4	223	ePg	14:37:36.86	0.03
			eSg	37:50.01	-0.81
KOLS	114.1	70	eSg	14:37:55.40	0.24
			ePn	14:37:44.90	0.69
			eSn	38:02.80	-1.16

350.

2017-09-23 time: 1:23:39.65 UTC ML= 1.8
 lat: 45.819N lon: 18.911E h= 1.6 km
 erh= 2.5km erz= 1.9km
 nr= 25 gap=226 rms=0.58
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSM	48.4	334	ePg	1:23:48.25	-0.05
			eSg	23:54.41	-0.63
MORH	48.7	335	ePg	1:23:48.30	-0.05
			eSg	23:54.46	-0.68
KOVH	69.6	295	ePg	1:23:51.93	-0.16
			eSg	24:00.25	-1.55
PKB3	70.7	18	ePg	1:23:51.95	-0.33
			eSg	24:03.48	1.35
PKS2	78.3	17	ePg	1:23:53.46	-0.18
			eSg	24:04.09	-0.65
PKB4	78.9	342	ePg	1:23:54.67	0.92
			eSg	24:04.09	-0.65
PKB5	87.3	351	ePg	1:23:55.59	0.35
			eSg	24:07.86	0.46
PKS9	98.3	330	ePg	1:23:57.60	0.39
			eSg	24:09.86	-1.04
PKS6	100.4	30	ePg	1:23:56.93	-0.64
			eSg	24:11.89	0.34
PKB1	107.7	355	ePg	1:23:58.73	-0.15
			eSg	24:12.46	-1.42
PKSN	140.6	32	ePn	1:24:04.77	0.76
AMBH	152.3	67	eSn	1:24:25.02	-0.58
PKST	173.6	337	ePn	1:24:08.56	0.43
			eSn	24:30.64	0.30
PKSG	179.3	347	eSn	1:24:32.24	0.64
BEHE	180.2	294	eSn	1:24:34.52	2.72*

351.

2017-09-23 time: 11:20:52.79 UTC ML= 2.0
 lat: 48.675N lon: 22.445E h= 0.8 km
 erh= 2.8km erz= 4.4km
 nr= 9 gap=197 rms=0.60
 Locality: Ukraine
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOLS	31.4	336	ePg	11:20:57.60	-0.80
			eSg	21:02.90	0.13
TRPA	60.9	173	ePg	11:21:03.63	-0.05
			eSg	21:12.71	0.54
CRVS	76.6	289	ePg	11:21:06.80	0.33

348.

2017-09-22 time: 13:39:07.23 UTC ML= 2.2
 lat: 46.231N lon: 16.824E h= 5.9 km
 erh= 3.3km erz= 2.6km
 nr= 38 gap=142 rms=1.36
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	26.8	352	ePg	13:39:12.26	0.13
			eSg	39:16.71	0.76
KOGS	50.3	299	ePg	13:39:16.41	0.13
			eSg	39:23.18	-0.16
PTJ	76.5	241	ePg	13:39:20.61	-0.32
			eSg	39:30.89	-0.72
KOVH	99.8	99	ePg	13:39:24.16	-0.92
			eSg	39:37.64	-1.36
PKS9	118.6	71	ePn	13:39:30.29	1.99
			eSn	39:43.50	-1.23
EGYH	137.4	16	ePn	13:39:31.05	0.41
			eSn	39:48.19	-0.71
PKB4	140.1	78	ePn	13:39:31.45	0.48
			eSn	39:48.32	-1.17
PKSM	140.2	91	ePn	13:39:29.18	-1.81
			eSn	39:49.45	-0.07
MORH	140.4	91	ePn	13:39:28.64	-2.37
			eSn	39:49.14	-0.43
SOKA	146.3	290	Pn	13:39:31.93	0.18
			Sn	39:49.29	-1.59
PKST	147.0	39	ePn	13:39:30.44	-1.39
			eSn	39:47.09	-3.93
ARSA	150.7	319	Pn	13:39:32.14	-0.16
			Sn	39:50.59	-1.27
PKB5	152.4	75	ePn	13:39:34.41	1.90
			eSn	39:51.61	-0.62
PKB1	163.1	68	ePn	13:39:35.07	1.23
			eSn	39:54.53	-0.07
RONA	168.1	346	Pn	13:39:34.86	0.39
			Sn	39:54.49	-1.23
OBKA	177.8	280	Pn	13:39:37.94	2.26
			Sn	40:00.57	2.70
PKB3	183.8	83	eSn	13:40:01.42	2.22
PKB2	192.2	75	eSn	13:40:03.47	2.42
CONA	202.3	339	Pn	13:39:42.27	3.54
			Sn	40:01.98	-1.33
MOA	264.9	313	Pn	13:39:46.48	-0.06
			Sn	40:16.29	-0.91

Földrengés paraméterek

Hypocenter Parameters

eSg 21:18.00 0.86
 ABAH 98.6 245 ePg 11:21:09.64 -0.76
 eSg 21:23.78 -0.36
 LTVH 149.1 196 eSn 11:21:39.27 1.05

352.

2017-09-23 time: 22:24:01.65 UTC ML= 1.5
 lat: 45.819N lon: 18.895E h= 10.0 km
 erh= 2.9km erz= 2.7km
 nr= 19 gap=265 rms=0.53
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKSM	47.9	336	ePgD	22:24:10.30			-0.08
			eSg	24:16.39			-0.80
MORH	48.2	336	ePgD	22:24:10.31			-0.13
			eSg	24:16.49			-0.80
KOVH	68.5	296	ePg	22:24:13.99			-0.03
			eSg	24:22.32			-1.35
PKB3	71.1	19	eSg	22:24:25.13			0.67
PKB4	78.5	343	ePg	22:24:16.44			0.65
			eSg	24:27.89			1.07
PKS2	78.7	18	ePg	22:24:15.49			-0.33
			eSg	24:27.00			0.13
PKB5	87.1	352	ePg	22:24:17.26			-0.05
			eSg	24:30.45			0.93
PKS9	97.7	331	ePg	22:24:19.83			0.64
			eSg	24:31.71			-1.16
PKS6	101.0	31	ePg	22:24:19.38			-0.39
			eSg	24:33.49			-0.41
PKB1	107.6	356	ePn	22:24:21.09			0.27
			eSn	24:34.45			-1.32

353.

2017-09-24 time: 11:14:53.12 UTC ML= 0.5
 lat: 47.414N lon: 18.216E h= 1.4 km
 erh= 4.5km erz=18.8km
 nr= 6 gap=242 rms=0.15
 Locality: Pusztavám
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	6.5	149	ePg	11:14:54.16			-0.15
			eSg	14:55.12			-0.13
PKSG	13.4	100	ePg	11:14:55.63			0.10
			eSg	14:57.57			0.16
PKST	22.0	219	ePg	11:14:56.93			-0.13
			eSg	15:00.38			0.25

354.

2017-09-25 time: 7:54:20.83 UTC ML= 1.3
 lat: 46.022N lon: 18.090E h= 0.0 km
 erh= 4.5km erz= 484km
 nr= 6 gap=302 rms=0.29
 Locality: Zók
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	7.4	6	ePgC	7:54:21.89			-0.25
			eSg	54:23.11			-0.06
PKSM	47.5	64	ePgC	7:54:29.21			-0.10
PKS9	64.4	13	ePgC	7:54:32.95			0.62
PKB5	80.8	38	ePgC	7:54:35.19			-0.06
			eSg	54:46.36			-0.14

355.

2017-09-25 time: 11:15:16.83 UTC ML= 0.9
 lat: 45.869N lon: 18.422E h= 0.0 km
 erh= 3.2km erz= 501km
 nr= 9 gap=290 rms=0.38
 Locality: Villány
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	34.9	314	ePgD	11:15:22.89			-0.17
			eSg	15:27.37			-0.54
PKSM	41.7	24	ePgC	11:15:24.19			-0.08
			eSg	15:30.13			0.05
MORH	42.2	24	ePgC	11:15:24.25			-0.11
			eSg	15:30.14			-0.10
PKB4	71.1	11	eSg	11:15:40.09			0.66
PKS9	80.5	352	ePg	11:15:32.10			0.89
PKB1	105.6	16	eSg	11:15:50.08			-0.32

356.

2017-09-25 time: 13:56:59.07 UTC ML= 1.6
 lat: 47.116N lon: 19.333E h= 0.0 km
 erh= 5.6km erz= ***km
 nr= 15 gap=117 rms=1.12
 Locality: Örkény
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKS7	15.1	240	ePg	13:57:01.85			0.08
			eSg	57:03.60			-0.28
PKB2	49.6	188	ePg	13:57:10.70			2.78
PKB1	55.3	228	ePg	13:57:08.97			0.03
BSZH	73.6	74	ePg	13:57:11.20			-1.02
PKB5	73.7	218	ePg	13:57:13.34			1.11
			eSg	57:22.96			0.47
PENC	75.1	357	ePg	13:57:13.60			1.11
PKB4	88.5	219	ePg	13:57:16.35			1.47
PSZ	98.8	25	ePg	13:57:16.33			-0.37
			eSg	57:28.84			-1.62
PKS9	99.6	234	ePg	13:57:16.01			-0.85
MORH	113.1	208	ePg	13:57:19.00			-0.26
PKSM	113.6	208	ePg	13:57:18.04			-1.31
			eSg	57:33.58			-1.59

357.

2017-09-26 time: 8:56:52.39 UTC ML= 1.1
 lat: 48.631N lon: 20.789E h= 0.0 km
 erh= 2.7km erz= 3.1km
 nr= 11 gap=172 rms=0.75
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	27.8	234	ePg	8:56:57.50			0.14
			eSg	57:01.60			0.37
ABAH	50.0	138	ePg	8:57:01.74			0.42
			eSg	57:07.55			-0.74
PSZ	103.4	220	ePg	8:57:12.21			1.35
			eSg	57:24.71			-0.55
LANS	112.8	301	ePg	8:57:13.20			0.66
			eSg	57:27.50			-0.75
TRPA	141.1	113	eSn	8:57:34.64			-1.59
VYHS	145.0	264	ePn	8:57:17.20			-0.30
			eSn	57:36.30			-0.79

Hypocenter Parameters

Földrengés paraméterek

358.

2017-09-26 time: 10:12:18.09 UTC ML= 0.4
 lat: 47.203N lon: 18.301E h= 0.0 km
 erh= 2.5km erz= 339km
 nr= 6 gap=269 rms=0.21
 Locality: Székesfehérvár
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.0	350	ePg	10:12:21.13	-0.17
			eSg	12:23.65	-0.16
PKST	21.1	287	ePg	10:12:22.21	0.36
			eSg	12:24.62	-0.17
PKSG	22.0	18	ePg	10:12:21.95	-0.07
			eSg	12:25.31	0.22

359.

2017-09-26 time: 13:58:07.16 UTC ML= 1.1
 lat: 47.130N lon: 19.357E h= 0.0 km
 erh= 8.5km erz= 869km
 nr= 6 gap=183 rms=0.51
 Locality: Örkény
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKS7	17.5	238	ePg	13:58:10.30	0.03
			eSg	58:12.07	-0.64
PKB5	76.0	219	ePg	13:58:21.30	0.57
			eSg	58:31.88	0.56
PSZ	96.6	25	ePg	13:58:24.53	0.13
MORH	115.3	208	ePg	13:58:26.96	-0.79

360.

2017-09-27 time: 8:33:06.18 UTC ML= 1.5
 lat: 47.362N lon: 18.464E h= 0.0 km
 erh= 2.7km erz= 335km
 nr= 6 gap=310 rms=0.21
 Locality: Csákvár
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	6.5	301	ePgC	8:33:07.39	0.06
			eSg	33:08.51	0.28
CSKK	15.4	271	ePg	8:33:08.71	-0.21
			eSg	33:10.65	-0.41
PKST	34.4	251	ePg	8:33:12.50	0.17
			eSg	33:17.13	0.01

361.

2017-09-27 time: 8:38:25.84 UTC ML= 1.1
 lat: 47.356N lon: 18.408E h= 0.0 km
 erh= 3.7km erz= 485km
 nr= 6 gap=267 rms=0.29
 Locality: Gánt
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	4.2	342	ePgC	8:38:26.50	-0.10
			eSg	38:26.95	-0.23
CSKK	11.1	274	ePg	8:38:27.79	-0.04
			eSg	38:29.77	0.39
PKST	30.2	249	ePgC	8:38:31.54	0.30
			eSg	38:34.83	-0.61

362.

2017-09-27 time: 10:21:04.10 UTC ML= 1.1
 lat: 48.576N lon: 20.788E h= 0.0 km
 erh= 1.7km erz= 3.4km
 nr= 9 gap=147 rms=0.32
 Locality: Tornanádaska
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.6	245	ePg	10:21:08.20	-0.29
			eSg	21:12.70	0.78
ABAH	45.7	133	ePg	10:21:12.27	0.02
			eSg	21:18.57	-0.04
CRVS	61.4	54	ePg	10:21:15.10	0.04
PSZ	98.8	222	ePg	10:21:21.57	-0.16
			eSg	21:35.42	-0.07
VYHS	144.5	266	ePn	10:21:29.30	0.16
			eSn	21:46.80	-1.88

363.

2017-09-27 time: 14:15:27.37 UTC ML= 1.2
 lat: 47.085N lon: 19.406E h= 0.0 km
 erh= 5.1km erz= 901km
 nr= 8 gap=171 rms=0.69
 Locality: Tatárszentgyörgy
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKS7	19.1	257	ePgC	14:15:30.68	-0.11
			eSg	15:32.32	-1.13
PKB3	75.3	192	ePg	14:15:42.10	1.28
PSZ	99.6	22	ePg	14:15:45.00	-0.17
PKS9	102.3	237	ePg	14:15:46.10	0.46
MORH	112.9	211	ePg	14:15:47.69	0.15
PKSM	113.4	211	ePg	14:15:46.48	-1.14
			eSg	16:03.20	-0.22

364.

2017-09-27 time: 14:44:25.37 UTC ML= 1.5
 lat: 48.440N lon: 17.180E h= 0.0 km
 erh= 3.3km erz= 3.4km
 nr= 18 gap=186 rms=0.93
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MODS	10.3	136	ePg	14:44:26.90	-0.31
			eSg	44:29.00	0.36
SMOL	20.1	66	ePg	14:44:29.00	0.04
			eSg	44:32.90	1.13
ZST	27.7	192	ePg	14:44:30.40	0.08
			eSg	44:34.40	0.22
SOP	96.1	209	ePg	14:44:43.12	0.60
			eSg	44:57.54	1.64
RONA	105.4	219	Pg	14:44:43.96	-0.23
			Sg	44:57.13	-1.75
CONA	113.4	240	Pg	14:44:45.76	0.15
			Sg	45:00.44	-0.96
VYHS	122.6	87	ePg	14:44:46.00	-1.26
PKST	146.1	154	eSn	14:45:08.67	-1.63
PKSG	147.6	142	ePn	14:44:50.23	-0.57
			eSn	45:10.32	-0.32
ARSA	181.3	223	Pn	14:44:57.00	1.99
			Sn	45:20.03	1.90

Földrengés paraméterek

Hypocenter Parameters

365.

2017-09-28 time: 7:21:31.87 UTC ML= 0.9
 lat: 47.344N lon: 18.288E h= 10.0 km
 erh= 5.3km erz= 3.3km
 nr= 9 gap=101 rms=0.46
 Locality: Csákberény
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	2.9	315	ePg	7:21:33.58	-0.16
			eSg	21:35.42	0.23
PKSG	9.4	56	ePg	7:21:34.15	-0.17
			eSg	21:35.47	-0.76
PKST	21.4	244	ePg	7:21:36.15	0.06
			eSg	21:39.67	0.29
PKS7	73.9	117	ePg	7:21:46.04	0.84
MORH	128.4	168	eSn	7:22:10.71	0.10
PKSM	128.8	168	eSn	7:22:09.84	-0.86

366.

2017-09-28 time: 7:43:19.12 UTC ML= 1.1
 lat: 48.618N lon: 20.789E h= 0.0 km
 erh= 4.2km erz= 4.7km
 nr= 9 gap=153 rms=0.58
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	26.9	236	ePg	7:43:23.50	-0.43
			eSg	43:28.20	0.52
ABAH	48.9	137	ePg	7:43:27.69	-0.15
CRVS	58.7	57	ePg	7:43:30.40	0.80
			eSg	43:37.00	-0.77
PSZ	102.3	221	ePg	7:43:38.07	0.69
			eSg	43:51.12	-0.50
VYHS	144.8	265	ePn	7:43:44.30	0.09
			eSn	44:02.90	-0.88

367.

2017-09-28 time: 9:06:16.73 UTC ML= 0.8
 lat: 46.022N lon: 18.116E h= 0.9 km
 erh= 2.6km erz=21.9km
 nr= 7 gap=288 rms=0.21
 Locality: Zók
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	7.5	350	ePgC	9:06:17.88	-0.19
			eSg	06:19.19	0.07
PKSM	45.8	63	ePg	9:06:25.09	0.19
			eSg	06:30.86	-0.42
MORH	46.2	62	ePg	9:06:25.11	0.14
			eSg	06:31.30	-0.10
PKB5	79.6	37	eSg	9:06:42.31	0.28

368.

2017-09-28 time: 9:36:07.08 UTC ML= 1.7
 lat: 47.789N lon: 19.938E h= 0.0 km
 erh= 4.0km erz= ***km
 nr= 9 gap=189 rms=0.76
 Locality: Gyöngyös
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	14.8	347	ePg	9:36:09.74	0.02
			eSg	36:11.93	0.15
KECS	87.3	28	ePg	9:36:24.20	1.52
			eSg	36:34.00	-0.84
ABAH	112.3	60	ePg	9:36:26.12	-1.01
			eSg	36:43.31	0.54

VYHS 113.5 314 ePg 9:36:27.40 0.06
 eSg 36:42.30 -0.84
 PKSG 124.4 249 eSg 9:36:46.96 0.33

369.

2017-09-28 time: 10:11:34.49 UTC ML= 0.5
 lat: 47.191N lon: 18.305E h= 0.0 km
 erh= 3.9km erz= 535km
 nr= 6 gap=274 rms=0.31
 Locality: Székesfehérvár
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	19.5	350	ePg	10:11:38.51	0.54
			eSg	11:40.79	0.11
PKST	21.9	290	ePg	10:11:38.17	-0.23
			eSg	11:41.39	-0.05
PKSG	23.3	16	ePg	10:11:38.66	0.01
			eSg	11:41.41	-0.48

370.

2017-09-28 time: 10:48:41.25 UTC ML= 0.8
 lat: 47.305N lon: 18.319E h= 0.0 km
 erh= 1.9km erz= 636km
 nr= 9 gap=139 rms=0.49
 Locality: Magyaralmás
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	7.9	326	ePg	10:48:42.40	-0.26
			eSg	48:43.51	-0.25
PKSG	11.1	29	ePgC	10:48:42.98	-0.25
			eSg	48:44.89	0.11
PKST	22.2	257	ePgC	10:48:45.38	0.17
			eSg	48:48.62	0.33
MORH	123.5	168	eSg	10:49:20.24	-0.28
PKSM	123.9	169	ePg	10:49:04.32	0.94
			eSg	49:18.71	-1.93

371.

2017-09-29 time: 7:39:35.80 UTC ML= 1.0
 lat: 47.091N lon: 17.958E h= 0.0 km
 erh= 5.0km erz= 732km
 nr= 10 gap=225 rms=0.57
 Locality: Kádárta
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	19.6	17	ePg	7:39:38.07	-1.23
			eSg	39:42.65	0.62
CSKK	38.0	37	ePg	7:39:42.66	0.07
			eSg	39:47.99	0.11
PKSG	46.8	44	ePg	7:39:44.03	-0.14
			eSg	39:50.78	0.09
MORH	110.6	152	ePg	7:39:56.06	0.51
			eSg	40:10.97	0.03
PKSM	110.8	152	ePg	7:39:56.17	0.57
			eSg	40:10.09	-0.95

372.

2017-09-30 time: 10:31:33.03 UTC ML= 1.2
 lat: 48.047N lon: 19.594E h= 0.0 km
 erh= 3.3km erz= ***km
 nr= 7 gap=102 rms=0.74
 Locality: Nagylóc
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	26.6	123	ePg	10:31:37.34	-0.44
			eSg	31:40.05	-1.44

Hypocenter Parameters

PENC 36.9 219 ePg 10:31:39.50 -0.11
 eSg 31:45.69 0.94
 VYHS 75.1 311 ePg 10:31:46.60 0.17
 eSg 31:56.60 -0.29
 KECS 82.0 54 eSg 10:32:00.40 1.29

373.

2017-10-01 time: 21:18:57.89 UTC ML= 1.7
 lat: 48.102N lon: 20.153E h= 3.7 km
 erh= 2.1km erz= 2.0km
 nr= 24 gap= 82 rms=0.86
 Locality: Bükkszenterzsébet
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PSZ	28.1	223	Pg	21:19:03.42		0.47	
			Sg	19:07.47		0.57	
KECS	49.1	30	Pg	21:19:07.53		0.85	
			Sg	19:14.10		0.57	
PENC	73.7	242	Pg	21:19:10.85		-0.23	
			Sg	19:20.57		-0.79	
ABAH	83.6	75	Pg	21:19:12.36		-0.47	
			Sg	19:22.91		-1.58	
A336	87.1	280	Pg	21:19:13.73		0.27	
			Sg	19:24.30		-1.30	
VYHS	107.0	294	Pg	21:19:17.00		-0.01	
			Sg	19:30.24		-1.69	
LANS	127.1	337	Pn	21:19:21.01		0.71	
			Sn	19:35.91		-1.87	
CRVS	131.4	47	Pn	21:19:21.19		0.35	
A338	134.6	266	Pn	21:19:21.93		0.70	
PKS7	139.0	212	Sn	21:19:39.52		-0.90	
NIE	146.9	5	Sn	21:19:41.32		-0.86	
LTVH	153.4	121	Sn	21:19:42.74		-0.88	
PKSG	154.0	239	Pn	21:19:24.59		0.94	
STHS	166.8	29	Pn	21:19:26.92		1.67	
PKB2	173.0	203	Sn	21:19:48.97		1.01	
TRPA	177.7	89	Sn	21:19:49.42		0.41	
PKB1	178.9	215	Sn	21:19:49.30		0.03	

374.

2017-10-02 time: 8:32:25.31 UTC ML= 1.3
 lat: 47.103N lon: 18.005E h= 13.9 km
 erh= 5.0km erz= 2.5km
 nr= 11 gap=167 rms=0.50
 Locality: Litér
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKST	17.5	7	Pg	8:32:28.83		-0.46	
			Sg	32:32.67		0.27	
TIH	24.1	201	Pg	8:32:30.10		-0.18	
			Sg	32:34.32		0.16	
CSKK	34.8	34	Sg	8:32:37.40		0.19	
PKSG	43.4	42	Sg	8:32:39.53		-0.26	
MORH	110.1	154	Pn	8:32:44.92		0.63	
			Sn	32:58.37		-0.73	
PKSM	110.4	154	Pn	8:32:44.96		0.63	
			Sn	32:58.10		-1.07	
KOVH	113.0	176	Sn	8:33:00.09		0.34	

375.

2017-10-03 time: 8:02:50.68 UTC ML= 1.5
 lat: 47.988N lon: 20.033E h= 0.0 km
 erh= 2.3km erz= 3.8km
 nr= 8 gap=291 rms=0.38
 Locality: Mátraballa
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	12.9	233	Pg	8:02:52.94		-0.04	
			Sg	02:55.20		0.43	

Földrengés paraméterek

PENC 60.3 249 Sg 8:03:09.63 -0.21
 A336 81.7 290 Pg 8:03:05.23 -0.03
 Sg 03:16.82 0.19
 VYHS 105.2 302 Pg 8:03:09.80 0.34
 Sg 03:23.65 -0.46
 PKSG 140.0 242 Sn 8:03:32.51 -1.75

376.

2017-10-03 time: 8:51:57.18 UTC ML= 1.3
 lat: 48.587N lon: 20.771E h= 0.0 km
 erh= 1.7km erz= 2.4km
 nr= 11 gap=112 rms=0.65
 Locality: Szlovákia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	24.0	241	Pg	8:52:01.87		0.41	
			Sg	52:05.47		0.66	
ABAH	47.4	133	Pg	8:52:06.43		0.78	
			Sg	52:11.89		-0.36	
CRVS	61.7	55	Pg	8:52:08.53		0.32	
			Sg	52:16.49		-0.31	
PSZ	98.8	221	Sg	8:52:27.98		-0.60	
LANS	114.3	303	Pg	8:52:17.65		0.06	
TRPA	140.5	111	Sn	8:52:39.33		-1.56	
VYHS	143.2	266	Pn	8:52:22.15		0.08	
			Sn	52:39.88		-1.61	

377.

2017-10-03 time: 8:54:28.45 UTC ML= 1.4
 lat: 47.862N lon: 19.103E h= 0.0 km
 erh= 3.9km erz= 612km
 nr= 8 gap=224 rms=0.44
 Locality: Szendehely
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PENC	15.6	121	Pg	8:54:31.13		-0.10	
			Sg	54:33.74		0.35	
A336	42.0	349	Pg	8:54:36.76		0.81	
			Sg	54:42.11		0.31	
PSZ	59.5	84	Pg	8:54:39.02		-0.06	
			Sg	54:46.98		-0.39	
VYHS	73.0	344	Pg	8:54:40.83		-0.66	
			Sg	54:51.50		-0.16	

378.

2017-10-03 time: 9:48:22.89 UTC ML= 0.9
 lat: 47.191N lon: 18.300E h= 0.0 km
 erh= 2.1km erz= 292km
 nr= 6 gap=274 rms=0.17
 Locality: Székesfehérvár
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	19.4	351	Pg	9:48:26.71		0.35	
			Sg	48:29.11		0.05	
PKST	21.5	291	Pg	9:48:26.68		-0.06	
			Sg	48:29.65		-0.09	
PKSG	23.4	17	Pg	9:48:26.92		-0.15	
			Sg	48:30.23		-0.09	

379.

2017-10-04 time: 7:25:41.35 UTC ML= 1.5
 lat: 48.536N lon: 19.341E h= 0.0 km
 erh= 1.9km erz= 729km
 nr= 10 gap=105 rms=0.57
 Locality: Szlovákia
 Comments: probably explosion

Földrengés paraméterek

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
VYHS	37.6	263	Pg	7:25:48.30	0.23
			Sg	25:52.83	-0.48
A336	42.2	217	Pg	7:25:49.33	0.44
			Sg	25:54.07	-0.69
LANS	68.9	8	Pg	7:25:54.13	0.47
			Sg	26:02.64	-0.62
PSZ	80.1	149	Pg	7:25:56.40	0.74
			Sg	26:06.07	-0.74
KECS	84.8	94	Pg	7:25:56.81	0.32
			Sg	26:07.44	-0.86

380.

2017-10-04 time: 8:40:36.77 UTC ML= 1.4
 lat: 47.092N lon: 17.771E h= 0.0 km
 erh= 5.5km erz= 683km
 nr= 10 gap=251 rms=0.59
 Locality: Szentgál
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
TIH	23.3	156	Pg	8:40:41.10	0.17
			Sg	40:44.49	0.32
PKST	27.3	47	Pg	8:40:41.93	0.30
			Sg	40:46.17	0.74
CSKK	47.8	51	Pg	8:40:45.75	0.45
			Sg	40:51.33	-0.63
PKSG	57.6	55	Pg	8:40:47.10	0.06
			Sg	40:54.58	-0.48
PKSM	118.4	146	Pg	8:40:57.18	-0.73
			Sg	41:10.67	-3.73

381.

2017-10-05 time: 8:10:43.05 UTC ML= 0.9
 lat: 46.148N lon: 18.045E h= 0.0 km
 erh= 1.7km erz= 313km
 nr= 8 gap=229 rms=0.23
 Locality: Hetvehely
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	7.9	147	Pg	8:10:44.43	-0.03
			Sg	10:45.52	-0.04
PKSV	33.0	151	Sg	8:10:53.23	-0.32
PKSM	46.6	81	Pg	8:10:51.60	0.23
			Sg	10:57.38	-0.49
MORH	46.9	81	Pg	8:10:51.58	0.16
			Sg	10:58.25	0.29
PKS9	52.0	20	Sg	8:10:59.51	-0.07

382.

2017-10-05 time: 8:58:09.75 UTC ML= 1.7
 lat: 48.650N lon: 20.726E h= 0.0 km
 erh= 2.6km erz= 3.2km
 nr= 9 gap=143 rms=0.46
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.6	224	Pg	8:58:14.11	-0.22
			Sg	58:17.82	-0.08
CRVS	60.9	63	Sg	8:58:29.21	0.09
STHS	93.3	24	Pg	8:58:26.99	0.58
			Sg	58:39.28	-0.13
PSZ	102.1	217	Sg	8:58:42.74	0.54
KOLS	118.0	75	Sg	8:58:46.52	-0.74
VYHS	140.5	263	Pn	8:58:34.58	0.27
			Sn	58:52.44	-1.02

383.

2017-10-05 time: 9:23:55.42 UTC ML= 0.9
 lat: 46.166N lon: 18.308E h= 0.0 km
 erh= 0.7km erz= 129km
 nr= 7 gap=196 rms=0.09
 Locality: Zobákpuszta
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	18.2	242	Pg	9:23:58.76	0.08
			Sg	24:01.05	-0.16
PKSM	26.3	79	Pg	9:24:00.12	0.01
			Sg	24:03.89	0.12
MORH	26.6	78	Pg	9:24:00.12	-0.05
			Sg	24:03.78	-0.09
PKSV	31.1	188	Sg	9:24:05.38	0.07

384.

2017-10-05 time: 9:35:57.96 UTC ML= 1.6
 lat: 47.210N lon: 17.706E h= 0.0 km
 erh= 5.5km erz= 770km
 nr= 9 gap=262 rms=0.60
 Locality: Csehbánya
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	25.5	78	Pg	9:36:02.86	0.35
			Sg	36:06.19	0.14
TIH	37.3	158	Pg	9:36:05.06	0.44
			Sg	36:10.06	0.25
CSKK	45.3	68	Sg	9:36:12.26	-0.09
PKSG	55.6	69	Pg	9:36:08.06	0.17
			Sg	36:14.50	-1.13
KOVH	128.3	166	Pg	9:36:20.74	-0.13
			Sg	36:35.11	-3.63

385.

2017-10-05 time: 11:00:26.09 UTC ML= 1.7
 lat: 48.794N lon: 20.081E h= 0.0 km
 erh= 2.0km erz= 7.6km
 nr= 11 gap=109 rms=0.77
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	45.6	139	Pg	11:00:34.75	0.51
			Sg	00:40.05	-0.54
LANS	59.9	311	Pg	11:00:37.28	0.49
			Sg	00:44.69	-0.44
NIE	71.5	14	Sg	11:00:47.49	-1.34
VYHS	97.6	250	Pg	11:00:44.10	0.58
			Sg	00:55.59	-1.53
PSZ	98.3	188	Sg	11:00:57.17	-0.18
A336	101.4	232	Sg	11:00:58.15	-0.17
ABAH	101.9	123	Sg	11:00:58.60	0.13
OJC	159.9	353	Pn	11:00:54.52	1.46

386.

2017-10-05 time: 11:00:52.23 UTC ML= 0.5
 lat: 47.178N lon: 18.325E h= 0.0 km
 erh= 2.2km erz= 545km
 nr= 6 gap=156 rms=0.32
 Locality: Székesfehérvár
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	21.2	347	Pg	11:00:55.69	-0.33
PKST	23.8	292	Pg	11:00:56.97	0.49
			Sg	00:59.47	-0.33
PKSG	24.3	12	Pg	11:00:56.82	0.25

Hypocenter Parameters

PKSM 110.1 167 Sg 00:59.93 -0.03
 Sg 11:01:26.99 -0.22

387.

2017-10-05 time: 11:12:20.97 UTC ML= 1.8
 lat: 45.513N lon: 17.736E h= 10.0 km
 erh= 5.7km erz= 2.8km
 nr= 13 gap=237 rms=0.75
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	57.9	44	Pg	11:12:31.77	0.30
			Sg	12:40.29	0.62
KOVH	69.9	24	Pg	11:12:33.67	0.08
			Sg	12:43.26	-0.16
PKSM	104.8	42	P*	11:12:39.56	-0.16
			S*	12:53.54	-0.80
MORH	105.2	42	P*	11:12:39.49	-0.30
			S*	12:53.20	-1.27
PKB4	128.3	32	Sn	11:13:01.71	2.01
KOGS	155.1	312	Sn	11:13:05.25	-0.39
PKB2	173.9	42	Sn	11:13:12.83	3.03
CRES	181.0	281	Pn	11:12:48.94	-0.35
			Sn	13:12.14	0.76

388.

2017-10-06 time: 0:26:48.48 UTC ML=-0.1
 lat: 47.377N lon: 18.210E h= 2.6 km
 erh= 0.8km erz= 0.8km
 nr= 5 gap=218 rms=0.01
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	4.1	112	ePg	0:26:49.34	-0.01
			eSg	26:50.03	0.00
PKSG	13.8	83	ePg	0:26:50.99	0.01
			eSg	26:52.91	-0.01
PKST	18.7	225	eSg	0:26:54.47	0.00

389.

2017-10-06 time: 7:51:11.48 UTC ML= 2.3
 lat: 48.454N lon: 17.449E h= 0.0 km
 erh= 2.1km erz= 399km
 nr= 6 gap=144 rms=0.24
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
SMOL	6.8	347	Pg	7:51:12.75	0.06
			Sg	51:13.56	-0.07
A339	71.2	168	Pg	7:51:24.47	0.27
			Sg	51:33.40	-0.72
VYHS	102.7	88	Pg	7:51:29.90	0.08
KRUC	102.8	311	Pg	7:51:29.75	-0.09

390.

2017-10-06 time: 7:54:27.39 UTC ML= 1.7
 lat: 48.555N lon: 19.367E h= 0.0 km
 erh= 2.1km erz= 789km
 nr= 9 gap=106 rms=0.59
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	39.8	260	Pg	7:54:34.81	0.31
			Sg	54:39.38	-0.66
A336	45.0	217	Pg	7:54:35.99	0.56
			Sg	54:41.39	-0.31

Földrengés paraméterek

LANS 66.6 6 Pg 7:54:39.92 0.63
 Sg 54:47.68 -0.88
 PSZ 81.0 151 Sg 7:54:52.66 -0.47
 KECS 83.0 96 Pg 7:54:42.77 0.55
 Sg 54:52.95 -0.84

391.

2017-10-06 time: 10:05:17.44 UTC ML= 1.7
 lat: 48.875N lon: 20.531E h= 0.0 km
 erh= 2.4km erz= 4.4km
 nr= 17 gap= 56 rms=0.93
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	43.7	184	Pg	10:05:25.95	0.70
			Sg	05:31.21	-0.12
NIE	62.5	345	Sg	10:05:37.23	-0.08
CRVS	68.3	87	Pg	10:05:30.04	0.40
			Sg	05:38.91	-0.24
STHS	79.6	41	Pg	10:05:31.55	-0.10
ABAH	83.0	141	Pg	10:05:33.16	0.91
			Sg	05:43.13	-0.68
LANS	83.6	291	Sg	10:05:43.11	-0.89
PSZ	116.4	204	Pg	10:05:39.20	0.98
			Sg	05:52.96	-1.46
KOLS	127.9	87	Pg	10:05:40.43	0.15
			Sg	05:56.32	-1.78
VYHS	131.8	251	Pn	10:05:41.25	0.35
			Sn	05:55.65	-3.56
A336	133.7	238	Sn	10:05:58.28	-1.36
OJC	158.6	340	Pn	10:05:45.72	1.47

392.

2017-10-06 time: 11:22:09.41 UTC ML= 1.5
 lat: 48.359N lon: 19.848E h= 0.0 km
 erh= 1.5km erz= 617km
 nr= 12 gap= 91 rms=0.51
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	49.1	176	Pg	11:22:18.24	0.05
			Sg	22:24.74	-0.29
KECS	49.2	74	Pg	11:22:18.37	0.18
			Sg	22:25.56	0.52
A336	64.5	257	Pg	11:22:21.52	0.58
			Sg	22:29.89	-0.04
VYHS	76.4	281	Pg	11:22:23.08	0.03
			Sg	22:32.81	-0.88
LANS	92.3	342	Pg	11:22:26.39	0.49
			Sg	22:37.97	-0.79
ABAH	103.4	94	Pg	11:22:28.02	0.14
			Sg	22:40.88	-1.40

393.

2017-10-07 time: 21:22:08.17 UTC ML=-0.2
 lat: 47.288N lon: 18.204E h= 8.8 km
 erh= 5.7km erz= 3.9km
 nr= 6 gap=205 rms=0.10
 Locality: Balinka
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	9.4	27	ePg	21:22:10.60	0.12
			eSg	22:12.21	-0.06
PKST	13.2	256	ePg	21:22:11.04	0.03
			eSg	22:13.13	-0.09
PKSG	18.3	51	ePg	21:22:11.66	-0.14
			eSg	22:14.73	0.11

Földrengés paraméterek

Hypocenter Parameters

394.
 2017-10-08 time: 0:11:30.41 UTC ML= 1.7
 lat: 47.288N lon: 17.288E h= 11.5 km
 erh= 1.8km erz= 1.4km
 nr= 22 gap= 83 rms=0.69
 Locality: Nemesszalók
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
EGYH	14.7	13	Pg	0:11:34.27		0.53	
			Sg	11:37.55		1.21	
A261	38.9	196	Pg	0:11:37.22		-0.43	
A260	44.1	269	Pg	0:11:38.95		0.40	
			Sg	11:44.87		-0.02	
A268	50.6	72	Pg	0:11:39.69		0.01	
PKST	56.6	93	Pg	0:11:40.27		-0.45	
			Sg	11:46.93		-1.83	
A262	74.6	231	Pg	0:11:43.87		-0.02	
PKSG	84.1	82	Pg	0:11:45.66		0.09	
A269	91.2	65	Pg	0:11:46.82		-0.01	
			Sg	11:57.90		-1.73	
SRO	96.8	53	P*	0:11:48.40		0.59	
ZST	101.9	352	S*	0:12:01.91		-0.85	
A338	113.7	45	Pn	0:11:50.45		0.29	
			Sn	12:05.51		-0.05	
KOGS	122.4	220	Pn	0:11:51.85		0.60	
			Sn	12:06.64		-0.85	
ARSA	133.6	268	Sn	0:12:09.19		-0.79	
MORH	158.0	139	Sn	0:12:17.71		2.33	
PKSM	158.2	139	Pn	0:11:55.63		-0.07	
			Sn	12:16.78		1.35	

395.
 2017-10-08 time: 1:08:29.72 UTC ML=-0.4
 lat: 47.245N lon: 18.462E h= 0.1 km
 erh= 4.6km erz= 596km
 nr= 5 gap=291 rms=0.18
 Locality: Csala
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKSG	17.2	342	ePg	1:08:32.73		-0.05	
			eSg	08:34.95		-0.22	
CSKK	20.1	311	ePg	1:08:33.51		0.20	
			eSg	08:36.33		0.22	
PKST	32.4	273	eSg	1:08:39.82		-0.21	

396.
 2017-10-09 time: 9:56:29.52 UTC ML= 2.9
 lat: 48.480N lon: 17.495E h= 0.0 km
 erh= 3.9km erz= 414km
 nr= 5 gap=274 rms=0.19
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
SMOL	6.2	308	Pg	9:56:30.41		-0.21	
			Sg	56:31.31		-0.18	
ZST	42.9	223	Sg	9:56:43.14		-0.01	
KRUC	103.6	309	Pg	9:56:48.23		0.22	
			Sg	57:02.63		0.19	

397.
 2017-10-09 time: 11:50:05.52 UTC ML= 1.7
 lat: 47.877N lon: 16.090E h= 5.3 km
 erh= 2.6km erz= 2.5km
 nr= 19 gap= 81 rms=0.97
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CONA	18.0	289	Pg	11:50:08.55		-0.32	
			Sg	50:11.54		0.05	
RONA	25.0	142	Pg	11:50:10.25		0.16	
			Sg	50:13.99		0.34	
SOP	41.2	122	Pg	11:50:12.48		-0.45	
			Sg	50:17.39		-1.32	
ARSA	81.7	212	Pg	11:50:21.58		1.45	
			Sg	50:28.65		-2.88	
MODS	104.2	58	ePg	11:50:24.30		0.15	
			eSg	50:39.30		0.61	
KRUC	133.7	10	Pn	11:50:28.47		-0.07	
			Sn	50:45.47		-1.03	
MOA	136.5	269	Pn	11:50:29.46		0.56	
			Sn	50:45.49		-1.65	
PKST	161.6	115	Sn	11:50:53.81		1.11	
VRAC	163.5	13	Pn	11:50:32.32		0.06	
			Sn	50:52.19		-0.92	
BIOA	184.9	264	Pn	11:50:37.44		2.51	
			Sn	50:58.65		0.78	

398.
 2017-10-10 time: 8:40:15.39 UTC ML= 1.4
 lat: 47.891N lon: 19.213E h= 1.4 km
 erh= 2.3km erz=36.9km
 nr= 5 gap=182 rms=0.21
 Locality: Felsőpetény
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PENC	12.3	156	Pg	8:40:17.37		-0.24	
A336	41.2	337	Pg	8:40:22.73		-0.03	
			Sg	40:28.55		0.04	
PSZ	51.0	87	Pg	8:40:24.86		0.36	
			Sg	40:31.48		-0.13	

399.
 2017-10-10 time: 9:32:03.43 UTC ML= 1.2
 lat: 47.549N lon: 18.472E h= 10.0 km
 erh= 2.3km erz= 1.5km
 nr= 10 gap=149 rms=0.32
 Locality: Tatabánya
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKSG	18.5	199	Pg	9:32:07.35		0.17	
			Sg	32:09.64		-0.47	
CSKK	26.1	218	Pg	9:32:08.50		0.08	
			Sg	32:11.99		-0.31	
PKST	46.1	226	Sg	9:32:18.58		0.15	
VYHS	108.6	15	Pn	9:32:23.04		0.32	
			Sn	32:37.16		-0.61	
PSZ	114.4	69	Sn	9:32:38.96		-0.10	
MORH	148.8	175	Sn	9:32:46.68		-0.01	
PKSM	149.2	175	Sn	9:32:47.41		0.62	

400.
 2017-10-11 time: 0:13:16.69 UTC ML= 0.3
 lat: 47.413N lon: 18.226E h= 10.0 km
 erh= 1.7km erz= 1.0km
 nr= 6 gap=240 rms=0.12
 Locality: Pusztavám
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	6.1	155	Pg	0:13:18.88		0.09	
			Sg	13:20.47		0.05	
PKSG	12.6	101	Pg	0:13:19.57		0.00	
			Sg	13:21.55		-0.27	
PKST	22.4	220	Pg	0:13:21.17		0.09	
			Sg	13:24.37		-0.13	

Hypocenter Parameters

Földrengés paraméterek

401.
 2017-10-11 time: 6:26:07.08 UTC ML= 1.1
 lat: 47.266N lon: 18.414E h= 0.0 km
 erh= 2.6km erz= 923km
 nr= 9 gap=109 rms=0.69
 Locality: Sárkeresztos
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	14.1	353	Pg	6:26:10.08			0.48
			Sg		26:12.99		1.42
CSKK	15.9	313	Pg	6:26:09.81			-0.11
			Sg		26:11.40		-0.73
PKST	28.8	268	Pg	6:26:12.06			-0.16
			Sg		26:16.00		-0.23
BUD	52.0	62	Sg	6:26:22.20			-1.42
MORH	118.0	171	Sg	6:26:44.60			0.00
PKSM	118.5	172	Sg	6:26:45.46			0.73

402.
 2017-10-11 time: 9:55:45.69 UTC ML= 1.5
 lat: 48.615N lon: 20.478E h= 0.0 km
 erh= 5.1km erz= ***km
 nr= 7 gap=117 rms=0.81
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	14.6	178	Pg	9:55:47.32			-0.99
			Sg		55:51.58		1.23
ABAH	66.5	122	Pg	9:55:56.63			-0.95
CRVS	79.0	66	Pg	9:56:00.96			1.15
PSZ	88.7	209	Pg	9:56:01.72			0.18
			Sg		56:13.91		0.01
LANS	95.1	309	Pg	9:56:02.52			-0.15

403.
 2017-10-11 time: 11:06:29.86 UTC ML= 1.6
 lat: 48.597N lon: 20.764E h= 0.0 km
 erh= 1.8km erz= 2.9km
 nr= 15 gap= 78 rms=0.72
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	24.1	238	Pg	11:06:34.57			0.41
			Sg		06:37.60		0.08
ABAH	48.6	134	Pg	11:06:39.51			0.98
			Sg		06:44.56		-0.73
CRVS	61.5	57	Pg	11:06:41.41			0.57
			Sg		06:49.06		-0.35
STHS	97.7	21	Pg	11:06:47.84			0.54
			Sg		06:59.89		-1.02
PSZ	99.3	221	Pg	11:06:47.82			0.23
LANS	113.3	303	Pg	11:06:50.22			0.14
KOLS	117.1	71	Sg	11:07:05.85			-1.22
TRPA	141.4	112	Pn	11:06:54.36			-0.16
VYHS	142.8	265	Pn	11:06:55.37			0.68
			Sn		07:12.64		-1.43
BSZH	148.9	194	Sn	11:07:13.75			-1.68

404.
 2017-10-12 time: 1:31:22.42 UTC ML=-0.2
 lat: 47.362N lon: 18.226E h= 6.4 km
 erh=10.9km erz= 2.0km
 nr= 6 gap=203 rms=0.23
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	2.6	88	Pg	1:31:23.94			0.29
			Sg		31:24.36		-0.24
PKSG	12.8	75	Pg	1:31:25.15			0.17
			Sg		31:26.57		-0.40
PKST	18.5	232	Pg	1:31:25.79			-0.13
			Sg		31:28.75		0.10

405.
 2017-10-12 time: 9:44:58.21 UTC ML= 1.5
 lat: 45.888N lon: 18.385E h= 0.0 km
 erh= 3.2km erz= 8.3km
 nr= 10 gap=241 rms=0.43
 Locality: Palkonya
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSV	10.3	270	Pg	9:44:59.76			-0.29
			Sg		45:01.77		0.29
KOVH	31.4	315	Pg	9:45:03.75			-0.06
			Sg		45:07.99		-0.19
PKSM	41.1	29	Pg	9:45:05.30			-0.25
			Sg		45:11.07		-0.20
MORH	41.6	29	Pg	9:45:05.34			-0.30
			Sg		45:11.41		-0.02
PKB4	69.7	14	Pg	9:45:11.71			1.06
A339	222.9	346	Pn	9:45:38.76			5.73*
PSZ	253.3	27	Pn	9:45:36.52			-0.31

406.
 2017-10-12 time: 11:12:27.72 UTC ML= 1.0
 lat: 46.147N lon: 18.019E h= 0.0 km
 erh= 1.2km erz= 169km
 nr= 7 gap=273 rms=0.11
 Locality: Hetvehely
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	9.0	136	Pg	11:12:29.24			-0.10
			Sg		12:30.47		-0.13
PKSM	48.6	81	Pg	11:12:36.52			0.12
			Sg		12:43.13		-0.04
MORH	48.9	81	Pg	11:12:36.57			0.12
			Sg		12:43.36		0.10
PKB4	59.5	49	Sg	11:12:46.46			-0.16

407.
 2017-10-13 time: 8:33:47.83 UTC ML= 1.4
 lat: 47.844N lon: 19.136E h= 3.8 km
 erh= 1.8km erz= 8.7km
 nr= 9 gap=151 rms=0.39
 Locality: Szendehegy
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PENC	12.4	119	Pg	8:33:50.28			0.13
			Sg		33:52.03		0.07
BUD	40.9	192	Sg	8:34:00.44			-0.46
A336	44.5	347	Pg	8:33:55.82			0.01
			Sg		34:01.81		-0.22
PSZ	57.3	82	Pg	8:33:58.31			0.22
			Sg		34:05.75		-0.35
VYHS	75.7	343	Pg	8:34:02.19			0.83
			Sg		34:11.30		-0.61

Földrengés paraméterek

Hypocenter Parameters

408.

2017-10-14 time: 9:21:48.61 UTC ML= 1.1
 lat: 46.190N lon: 18.281E h= 0.0 km
 erh= 2.3km erz= 409km
 nr= 8 gap=213 rms=0.30
 Locality: Komló
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	18.0	231	Pg	9:21:51.46	-0.36
			Sg	21:54.91	0.58
PKSM	27.9	85	Pg	9:21:53.62	0.03
			Sg	21:57.30	-0.18
MORH	28.2	84	Pg	9:21:53.66	0.02
			Sg	21:57.72	0.16
PKSV	33.6	184	Pg	9:21:54.90	0.29
			Sg	21:58.83	-0.47

409.

2017-10-15 time: 17:33:20.74 UTC ML=-0.4
 lat: 47.331N lon: 18.294E h= 10.0 km
 erh= 7.1km erz= 3.9km
 nr= 6 gap=200 rms=0.19
 Locality: Söréd
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	4.4	325	ePg	17:33:22.45	-0.24
			eSg	33:24.09	-0.12
PKSG	10.0	47	ePg	17:33:23.48	0.22
			eSg	33:25.23	0.00
PKST	21.2	248	ePg	17:33:24.84	-0.09
			eSg	33:28.49	0.30

410.

2017-10-16 time: 5:21:51.63 UTC ML= 1.0
 lat: 47.352N lon: 18.187E h= 10.0 km
 erh= 2.9km erz= 2.4km
 nr= 10 gap= 95 rms=0.74
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	5.7	77	Pg	5:21:53.74	0.05
			Sg	21:54.79	-0.50
PKST	15.4	228	Pg	5:21:55.27	0.35
			Sg	21:57.54	0.06
PKSG	16.0	74	Pg	5:21:55.26	0.25
			Sg	21:57.85	0.21
TIH	54.9	204	Sg	5:22:08.14	-1.23
A339	66.5	323	Sg	5:22:13.80	0.81
A337	103.6	343	S*	5:22:21.92	-2.77
PKSM	131.4	165	Sn	5:22:31.69	0.66

411.

2017-10-16 time: 5:25:43.79 UTC ML= 1.0
 lat: 47.349N lon: 18.190E h= 6.3 km
 erh= 1.0km erz= 0.2km
 nr= 6 gap=203 rms=0.03
 Locality: Bodajk
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	5.5	74	Pg	5:25:45.27	-0.02
			Sg	25:46.43	-0.03
PKST	15.5	230	Pg	5:25:46.78	0.00
			Sg	25:49.14	0.04
PKSG	15.9	73	Pg	5:25:46.81	-0.03
			Sg	25:49.28	0.06

412.

2017-10-16 time: 9:45:27.43 UTC ML= 1.4
 lat: 47.095N lon: 17.834E h= 0.0 km
 erh= 4.1km erz= 644km
 nr= 8 gap=252 rms=0.46
 Locality: Márkó
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	23.7	40	Pg	9:45:31.60	-0.06
			Sg	45:34.95	-0.01
CSKK	43.9	47	Pg	9:45:35.37	0.10
			Sg	45:41.19	-0.19
PKSG	53.5	52	Sg	9:45:44.06	-0.37
PKB5	88.4	129	Sg	9:45:56.34	0.81
PKSM	116.0	148	Pg	9:45:48.49	0.35
			Sg	46:02.94	-1.36

413.

2017-10-16 time: 20:36:33.64 UTC ML= 0.5
 lat: 47.340N lon: 18.323E h= 3.0 km
 erh= 3.1km erz= 5.2km
 nr= 6 gap=207 rms=0.09
 Locality: Csákberény
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	5.4	299	Pg	20:36:34.86	0.10
			Sg	36:35.57	-0.05
PKSG	7.7	41	Pg	20:36:35.17	0.04
			Sg	36:36.09	-0.19
PKST	23.6	248	Pg	20:36:37.86	-0.04
			Sg	36:41.26	0.04

414.

2017-10-17 time: 7:30:19.22 UTC ML= 1.4
 lat: 47.296N lon: 18.486E h= 0.0 km
 erh= 4.3km erz= 862km
 nr= 7 gap=209 rms=0.56
 Locality: Pátka
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	12.9	326	Pg	7:30:21.89	0.37
			Sg	30:22.26	-1.06
CSKK	18.7	294	Pg	7:30:23.09	0.54
			Sg	30:24.70	-0.45
PKST	34.5	263	Pg	7:30:25.85	0.48
			Sg	30:30.10	-0.07
PKSM	121.1	174	Sg	7:30:56.96	-0.74

415.

2017-10-17 time: 11:04:02.41 UTC ML= 1.5
 lat: 48.698N lon: 19.929E h= 0.0 km
 erh= 2.6km erz= 974km
 nr= 10 gap=125 rms=0.76
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	47.5	120	Pg	11:04:11.20	0.31
			Sg	04:17.65	0.14
VYHS	83.7	254	Pg	11:04:18.33	0.97
			Sg	04:28.15	-0.87
NIE	85.0	19	Sg	11:04:29.45	0.03
A336	86.0	233	Sg	11:04:28.56	-1.18
PSZ	86.7	182	Pg	11:04:18.54	0.65
			Sg	04:29.45	-0.51
STHS	125.0	50	Pg	11:04:25.13	0.40
			Sg	04:40.36	-1.79

Hypocenter Parameters

Földrengés paraméterek

416.

2017-10-18 time: 9:57:03.93 UTC ML= 1.9
 lat: 47.773N lon: 16.072E h= 10.0 km
 erh= 5.3km erz= 6.7km
 nr= 7 gap=154 rms=0.56
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
SOP	37.8	105	Sg	9:57:16.02			-0.36
ARSA	71.3	215	Pg	9:57:17.25			0.46
			Sg	57:26.14			-0.69
KRUC	145.3	9	Pn	9:57:28.32			0.52
			Sn	57:45.50			-0.92
VRAC	175.0	13	Pn	9:57:32.09			0.58
			Sn	57:52.78			-0.24

417.

2017-10-18 time: 11:03:52.08 UTC ML= 1.0
 lat: 47.197N lon: 18.292E h= 0.0 km
 erh= 2.3km erz= 252km
 nr= 5 gap=270 rms=0.12
 Locality: Székesfehérvár
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	18.6	353	Pg	11:03:55.46			0.06
			Sg	03:57.73			-0.26
PKST	20.7	289	Pg	11:03:55.71			-0.05
			Sg	03:58.72			0.08
PKSG	22.9	19	Sg	11:03:59.48			0.12

418.

2017-10-19 time: 9:32:47.79 UTC ML= 0.7
 lat: 46.187N lon: 18.292E h= 0.0 km
 erh= 1.4km erz= 259km
 nr= 7 gap=209 rms=0.17
 Locality: Zobákpusztá
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	18.4	234	Pg	9:32:50.98			-0.10
			Sg	32:53.59			-0.06
PKSM	27.1	84	Pg	9:32:52.87			0.24
			Sg	32:56.26			-0.14
MORH	27.4	83	Pg	9:32:52.83			0.15
			Sg	32:56.19			-0.30
PKSV	33.3	185	Sg	9:32:58.42			0.06

419.

2017-10-20 time: 6:34:33.67 UTC ML= 1.3
 lat: 47.371N lon: 18.518E h= 0.0 km
 erh= 1.6km erz= 515km
 nr= 9 gap=148 rms=0.38
 Locality: Csákvár
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	9.9	284	Pg	6:34:36.03			0.59
			Sg	34:36.65			-0.17
CSKK	19.5	268	Pg	6:34:37.30			0.15
			Sg	34:39.58			-0.28
PKST	38.6	251	Pg	6:34:40.66			0.09
			Sg	34:44.91			-1.04
BUD	40.2	72	Sg	6:34:46.12			-0.32
MORH	128.7	176	Sg	6:35:14.73			0.14
PKSM	129.2	176	Sg	6:35:14.83			0.11

420.

2017-10-20 time: 7:11:29.83 UTC ML= 1.4
 lat: 46.238N lon: 18.467E h= 0.0 km
 erh= 1.1km erz= 417km
 nr= 12 gap=140 rms=0.34
 Locality: Mecseknádasd
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSM	13.7	102	Pg	7:11:32.20			-0.08
			Sg	11:34.42			0.23
MORH	13.9	100	Pg	7:11:32.26			-0.04
			Sg	11:34.46			0.23
PKB4	30.6	20	Pg	7:11:35.05			-0.24
			Sg	11:39.44			-0.11
KOVH	32.9	240	Pg	7:11:35.72			0.02
			Sg	11:40.23			-0.05
PKB5	44.7	27	Pg	7:11:37.23			-0.59
			Sg	11:43.66			-0.39
PKB1	65.7	22	Pg	7:11:42.19			0.64
			Sg	11:51.36			0.66

421.

2017-10-20 time: 11:44:29.96 UTC ML= 1.9
 lat: 47.757N lon: 16.070E h= 0.3 km
 erh= 3.5km erz= 3.8km
 nr= 12 gap=153 rms=0.96
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
SOP	37.5	103	Pg	11:44:37.66			1.01
			Sg	44:41.84			-0.04
ARSA	69.8	216	Pg	11:44:42.97			0.55
			Sg	44:50.79			-1.35
ZST	91.2	58	Sg	11:44:58.03			-0.93
EGYH	102.1	112	Sg	11:45:01.03			-1.39
KOGS	146.1	175	Sn	11:45:14.17			-0.68
KRUC	147.1	9	Pn	11:44:56.25			0.95
			Sn	45:14.16			-0.90
PKST	158.0	111	Pn	11:44:58.22			1.57
			Sn	45:17.74			0.27
VRAC	176.8	13	Sn	11:45:21.03			-0.62

422.

2017-10-20 time: 11:58:06.31 UTC ML= 1.2
 lat: 47.563N lon: 18.457E h= 0.0 km
 erh= 1.7km erz= 572km
 nr= 10 gap=116 rms=0.45
 Locality: Tatabánya
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	19.7	195	Pg	11:58:09.60			-0.22
			Sg	58:13.10			0.54
CSKK	26.7	214	Pg	11:58:10.22			-0.86
			Sg	58:14.82			0.03
BUD	43.6	102	Sg	11:58:20.44			0.27
PKST	46.5	223	Pg	11:58:15.30			0.69
			Sg	58:20.85			-0.23
EGYH	86.3	259	Sg	11:58:33.92			0.17
VYHS	107.3	15	Pg	11:58:25.59			0.11
			Sg	58:39.93			-0.50

Földrengés paraméterek

Hypocenter Parameters

423.

2017-10-21 time: 7:32:24.03 UTC ML= 1.4
 lat: 48.015N lon: 19.633E h= 0.0 km
 erh= 1.6km erz= 509km
 nr= 9 gap=123 rms=0.39
 Locality: Lucfalva
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	22.3	119	Pg	7:32:28.09	0.08
			Sg	32:30.63	-0.48
PENC	36.2	226	Pg	7:32:30.08	-0.42
			Sg	32:36.43	0.89
A336	53.1	297	Pg	7:32:33.85	0.34
			Sg	32:40.85	-0.05
VYHS	79.6	312	Sg	7:32:48.87	-0.47
ABAH	123.6	75	Pg	7:32:46.34	0.24
			Sg	33:03.29	-0.02

424.

2017-10-23 time: 1:04:09.57 UTC ML= 1.7
 lat: 48.966N lon: 20.303E h= 6.4 km
 erh= 2.5km erz= 2.9km
 nr= 18 gap= 59 rms=0.93
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr mn sec	res
NIE	50.4	1	Pg	1:04:19.51	0.87
			Sg	04:24.93	-0.78
KECS	55.4	166	Pg	1:04:19.95	0.43
			Sg	04:26.40	-0.88
LANS	64.4	289	Pg	1:04:21.39	0.26
			Sg	04:29.30	-0.84
STHS	84.9	54	Pg	1:04:24.18	-0.60
CRVS	85.2	95	Pg	1:04:25.24	0.42
			Sg	04:35.67	-1.05
ABAH	101.6	137	Pg	1:04:28.16	0.42
			Sg	04:40.85	-1.07
PSZ	120.4	195	Pn	1:04:31.41	0.62
			Sn	04:45.61	-1.73
A336	126.1	230	Pn	1:04:32.13	0.63
			Sn	04:46.06	-2.55
OJC	144.1	345	Pn	1:04:35.75	2.00
			Sn	04:52.70	0.09
PENC	151.0	210	Sn	1:04:55.24	1.09

425.

2017-10-23 time: 8:02:06.41 UTC ML= 1.3
 lat: 48.555N lon: 20.794E h= 7.3 km
 erh= 1.0km erz= 0.8km
 nr= 11 gap=144 rms=0.22
 Locality: Tornanádaska
 Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	24.2	251	Pg	8:02:10.90	-0.02
			Sg	02:14.43	0.00
ABAH	43.8	131	Pg	8:02:14.54	0.21
			Sg	02:20.27	-0.24
CRVS	62.4	52	Pg	8:02:17.42	-0.22
PSZ	97.4	223	Pg	8:02:23.88	0.03
			Sg	02:37.38	-0.07
KOLS	116.6	69	Sn	8:02:43.40	0.24
TRPA	137.7	110	Sn	8:02:47.76	-0.08
VYHS	144.8	267	Pn	8:02:31.05	0.48
			Sn	02:48.96	-0.46

426.

2017-10-23 time: 8:51:05.19 UTC ML= 1.9
 lat: 48.889N lon: 21.107E h= 1.8 km
 erh= 1.4km erz= 1.8km
 nr= 14 gap= 77 rms=0.52
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr mn sec	res
CRVS	26.1	87	Pg	8:51:10.18	0.33
			Sg	51:13.75	0.26
STHS	59.5	10	Pg	8:51:15.74	-0.08
			Sg	51:23.22	-0.89
KECS	64.2	225	Pg	8:51:16.70	0.04
			Sg	51:24.79	-0.83
ABAH	66.7	172	Sg	8:51:26.65	0.26
NIE	82.6	316	Sg	8:51:31.31	-0.13
TRPA	135.4	129	Sn	8:51:46.06	-1.28
PSZ	140.4	220	Pn	8:51:29.77	0.28
			Sn	51:48.12	-0.33
A336	171.8	245	Sn	8:51:55.77	0.34
OJC	175.6	327	Pn	8:51:34.85	0.96
			Sn	51:56.90	0.62

427.

2017-10-23 time: 23:35:12.59 UTC ML= 2.0
 lat: 48.033N lon: 16.451E h= 2.5 km
 erh= 2.6km erz= 2.6km
 nr= 22 gap=139 rms=1.01
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr mn sec	res
SOP	39.7	168	Pg	23:35:19.99	0.30
			Sg	35:24.35	-0.88
ZST	51.8	69	Pg	23:35:22.84	0.99
			Sg	35:28.84	-0.22
EGYH	95.1	136	Pg	23:35:30.25	0.66
			Sg	35:41.54	-1.30
ARSA	111.5	219	Pg	23:35:32.41	-0.10
			Sg	35:45.45	-2.60
KRUC	114.5	358	Pg	23:35:33.48	0.44
			Sg	35:47.68	-1.31
VRAC	142.2	4	Pn	23:35:37.30	0.26
			Sn	35:54.62	-1.49
PKST	146.8	126	Pn	23:35:37.98	0.37
			Pn	23:35:40.11	0.60
PKSG	162.0	116	Sn	35:58.12	-2.39
			Pn	23:35:44.06	2.70
KOGS	176.9	185	Sn	36:04.19	0.39
			Pn	23:35:42.31	0.02
VYHS	184.3	74	Sn	36:06.15	0.69
			Sn	23:36:11.26	0.15
MORC	209.8	22	Sn	23:36:11.26	0.15
KRLC	228.4	6	Pn	23:35:48.96	1.17
			Sn	36:15.10	-0.14

428.

2017-10-24 time: 8:50:31.93 UTC ML= 2.1
 lat: 48.774N lon: 20.803E h= 0.0 km
 erh= 5.1km erz= 7.7km
 nr= 7 gap=175 rms=0.89
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	40.0	216	Pg	8:50:40.06	1.00
			Sg	50:43.97	-0.66
ABAH	62.2	149	Pg	8:50:43.97	0.93
			Sg	50:50.36	-1.34
NIE	80.1	333	Sg	8:50:56.70	-0.70
PSZ	116.6	215	Sg	8:51:08.27	-0.72
A336	146.3	246	Sn	8:51:17.47	0.55

Hypocenter Parameters

Földrengés paraméterek

429.

2017-10-25 time: 10:01:10.50 UTC ML= 0.9
 lat: 47.169N lon: 18.309E h= 0.0 km
 erh= 1.8km erz= 242km
 nr= 6 gap=282 rms=0.15
 Locality: Sárkeszi
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	21.9	350	Pg	10:01:14.33	-0.08
			Sg	01:17.13	-0.32
PKST	23.1	296	Pg	10:01:14.68	0.06
			Sg	01:17.87	0.04
PKSG	25.5	14	Pg	10:01:15.06	0.00
			Sg	01:18.86	0.25

430.

2017-10-26 time: 10:04:06.10 UTC ML= 1.6
 lat: 45.627N lon: 17.315E h= 10.0 km
 erh= 1.7km erz= 1.6km
 nr= 15 gap=118 rms=0.54
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	78.5	68	Pg	10:04:20.82	0.58
			Sg	04:30.76	-0.50
KOVH	79.7	50	Pg	10:04:20.25	-0.19
			Sg	04:31.21	-0.42
BLY	98.1	186	Pg	10:04:23.91	0.21
			Sg	04:35.77	-1.67
BEHE	102.6	336	Pg	10:04:25.59	1.08
			Sg	04:38.83	-0.04
PTJ	109.8	286	Pn	10:04:25.56	0.02
			Sn	04:39.75	-0.96
PKSM	121.8	58	Pn	10:04:27.28	0.25
			Sn	04:42.91	-0.46
MORH	122.2	58	Pn	10:04:27.37	0.28
			Sn	04:43.63	0.17
KOGS	123.0	318	Sn	10:04:43.42	-0.22

431.

2017-10-29 time: 11:42:05.23 UTC ML= 0.8
 lat: 47.111N lon: 18.395E h= 3.0 km
 erh= 2.0km erz= 1.4km
 nr= 7 gap=289 rms=0.17
 Locality: TÁC
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	29.9	340	ePg	11:42:10.58	-0.01
			eSg	42:15.11	0.33
PKSG	31.3	359	ePg	11:42:10.82	-0.02
			eSg	42:15.02	-0.20
PKST	31.9	301	eSg	11:42:15.25	-0.18
VYHS	157.3	12	ePn	11:42:31.70	0.20
			eSn	42:51.90	-0.08

432.

2017-10-29 time: 18:01:18.47 UTC ML= 0.9
 lat: 47.400N lon: 18.376E h= 4.6 km
 erh= 1.1km erz= 0.3km
 nr= 6 gap=244 rms=0.03
 Locality: Gánt
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	1.4	129	ePg	18:01:19.33	0.01
			eSg	01:19.99	0.00

CSKK	9.6	245	ePg	18:01:20.40	0.02
			eSg	01:21.82	-0.04
PKST	30.2	239	ePg	18:01:23.90	-0.03
			eSg	01:28.22	0.04

433.

2017-10-30 time: 9:25:35.01 UTC ML= 1.7
 lat: 48.603N lon: 20.785E h= 3.8 km
 erh= 2.7km erz= 2.4km
 nr= 7 gap=193 rms=0.34
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	25.8	239	Pg	9:25:39.76	0.10
			Sg	25:43.13	-0.16
ABAH	47.9	135	Pg	9:25:44.02	0.43
			Sg	25:49.71	-0.57
LANS	114.2	302	Pg	9:25:55.03	-0.39
VYHS	144.4	265	Pn	9:25:59.93	0.37
			Sn	26:18.73	0.01

434.

2017-10-30 time: 13:41:41.90 UTC ML= 0.8
 lat: 47.371N lon: 18.260E h= 10.7 km
 erh= 2.5km erz= 0.5km
 nr= 6 gap=203 rms=0.05
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	0.9	176	ePgc	13:41:43.86	0.04
			eSg	41:45.31	-0.01
PKSG	10.1	77	ePg	13:41:44.55	0.02
			eSg	41:46.53	-0.06
PKST	21.1	234	ePgD	13:41:46.07	-0.06
			eSg	41:49.50	0.07

435.

2017-10-31 time: 0:36:42.93 UTC ML=-0.2
 lat: 47.379N lon: 18.259E h= 10.6 km
 erh= 3.2km erz= 0.7km
 nr= 6 gap=210 rms=0.06
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	1.7	177	ePg	0:36:44.85	-0.01
			eSg	36:46.39	0.03
PKSG	10.0	82	ePg	0:36:45.61	0.07
			eSg	36:47.48	-0.10
PKST	21.6	232	ePg	0:36:47.17	-0.06
			eSg	36:50.64	0.06

436.

2017-10-31 time: 10:10:12.37 UTC ML= 1.0
 lat: 46.229N lon: 18.237E h= 0.0 km
 erh= 6.0km erz= 475km
 nr= 6 gap=238 rms=0.28
 Locality: Komló
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	18.9	214	Pg	10:10:15.89	0.15
			Sg	10:18.24	-0.13
PKSM	31.2	93	Pg	10:10:17.88	-0.06
			Sg	10:21.64	-0.65
MORH	31.4	93	Pg	10:10:18.01	0.03
			Sg	10:22.82	0.47

Földrengés paraméterek

Hypocenter Parameters

437.

2017-10-31 time: 11:45:33.08 UTC ML= 1.9
 lat: 48.205N lon: 21.252E h= 0.0 km
 erh= 2.1km erz= 590km
 nr= 7 gap=158 rms=0.39
 Locality: Mád
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	10.2	355	Pg	11:45:34.91	0.02
			Sg	45:36.23	-0.07
KECS	64.7	299	Pg	11:45:45.09	0.46
TRPA	96.1	95	Pg	11:45:49.69	-0.54
			Sg	46:04.28	0.66
PSZ	106.1	253	Sg	11:46:06.56	-0.25
KOLS	110.6	43	Sg	11:46:08.01	-0.22

438.

2017-11-01 time: 3:48:47.68 UTC ML=-0.4
 lat: 47.306N lon: 18.275E h= 10.0 km
 erh= 1.5km erz= 1.0km
 nr= 6 gap=212 rms=0.17
 Locality: Fehérvárcsurgó
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	6.5	351	ePg	3:48:49.61	-0.20
			eSg	48:51.33	-0.14
PKSG	13.0	43	ePg	3:48:50.58	-0.03
			eSg	48:53.21	0.32
PKST	18.9	254	ePg	3:48:51.50	0.00
			eSg	48:54.70	0.22

439.

2017-11-01 time: 11:13:36.19 UTC ML= 1.6
 lat: 48.533N lon: 20.874E h= 0.0 km
 erh= 4.9km erz= 3.8km
 nr= 12 gap=180 rms=1.16
 Locality: Tornaszentjakab
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	29.2	259	Pg	11:13:41.29	-0.11
			Sg	13:45.44	-0.03
CRVS	59.6	46	Sg	11:13:54.65	-0.49
PSZ	99.8	227	Pg	11:13:55.28	1.27
			Sg	14:06.63	-1.28
NIE	106.8	337	Pg	11:13:57.15	1.90
			Sg	14:10.37	0.25
A336	142.8	257	Sn	11:14:19.72	-0.68
VYHS	150.6	268	Pn	11:14:02.41	0.41
			Sn	14:19.86	-2.27
OJC	203.2	337	Pn	11:14:09.26	0.70
			Sn	14:31.70	-2.11

440.

2017-11-02 time: 10:37:13.63 UTC ML= 0.9
 lat: 46.132N lon: 18.033E h= 6.3 km
 erh= 2.6km erz= 2.5km
 nr= 8 gap=212 rms=0.22
 Locality: Hetvehely
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	7.1	133	Pg	10:37:15.19	-0.14
			Sg	37:16.18	-0.47
PKSV	32.0	148	Pg	10:37:19.65	0.20
PKSM	47.8	79	Pg	10:37:22.47	0.23
			Sg	37:28.91	-0.05
MORH	48.1	79	Pg	10:37:22.51	0.21

Sg 37:28.92 -0.13
 Sn 10:37:52.31 -0.22

441.

2017-11-02 time: 11:31:53.85 UTC ML= 1.1
 lat: 46.147N lon: 18.036E h= 0.0 km
 erh= 2.0km erz= 277km
 nr= 7 gap=291 rms=0.19
 Locality: Hetvehely
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	8.2	143	Pg	11:31:55.16	-0.15
			Sg	31:56.69	0.24
PKSV	33.3	150	Sg	11:32:04.07	-0.35
PKSM	47.3	81	Pg	11:32:02.44	0.15
			Sg	32:08.91	0.04
MORH	47.5	81	Pg	11:32:02.49	0.15
			Sg	32:08.75	-0.21

442.

2017-11-02 time: 19:58:14.57 UTC ML= 1.4
 lat: 45.895N lon: 21.352E h= 12.9 km
 erh= 1.5km erz= 1.3km
 nr= 5 gap=171 rms=0.21
 Locality: Romania
 Comments:

sta	dist	azm	phase	hr mn sec	res
BZS	37.2	146	Pg	19:58:21.69	0.10
			Sg	58:26.81	-0.26
DRGR	144.5	46	Sn	19:58:56.24	0.01
FRGS	147.1	235	Pn	19:58:38.58	0.28
			Sn	58:56.52	-0.29

443.

2017-11-03 time: 10:11:20.65 UTC ML= 1.5
 lat: 48.570N lon: 20.788E h= 0.0 km
 erh= 1.7km erz= 3.6km
 nr= 9 gap=147 rms=0.38
 Locality: Tornanádaska
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.4	247	Pg	10:11:25.18	0.18
			Sg	11:28.13	-0.27
ABAH	45.2	132	Pg	10:11:28.91	0.19
			Sg	11:34.71	-0.31
CRVS	61.7	53	Pg	10:11:31.66	-0.01
			Sg	11:39.85	-0.41
PSZ	98.3	222	Sg	10:11:51.79	-0.11
VYHS	144.4	267	ePn	10:11:46.60	0.91
			eSn	12:04.20	-1.02

444.

2017-11-04 time: 17:12:47.63 UTC ML= 1.3
 lat: 47.272N lon: 17.899E h= 10.0 km
 erh= 1.7km erz= 1.3km
 nr= 24 gap= 74 rms=0.75
 Locality: Nagyesztergár
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	10.3	98	Pg	17:12:49.95	-0.24
			Sg	12:51.75	-0.45
CSKK	29.2	70	Pg	17:12:53.30	0.17
			Sg	12:57.02	-0.40
MPLH	29.5	247	ePg	17:12:53.32	0.13
			eSg	12:57.72	0.20
PKSG	39.5	70	Pg	17:12:55.08	0.18

Hypocenter Parameters

Földrengés paraméterek

Sg 13:00.40 -0.17
 EGYH 45.8 291 Pg 17:12:55.91 -0.09
 Sg 13:02.11 -0.43
 SRO 67.8 27 Sg 17:13:09.53 0.11
 PKB1 86.9 129 Pg 17:13:03.63 0.39
 Sg 13:13.69 -1.73
 A337 108.5 356 Pn 17:13:06.56 -0.35
 SOP 111.0 294 Sn 17:13:20.82 -1.68
 MORH 130.5 154 Pn 17:13:10.18 0.53
 Sn 13:25.61 -1.22
 PKSM 130.8 154 Pn 17:13:11.08 1.39
 Sn 13:25.69 -1.20
 KOVH 132.4 173 Pn 17:13:11.60 1.70
 Sn 13:27.55 0.28
 A336 135.0 38 Sn 17:13:27.43 -0.41
 VYHS 152.9 27 ePn 17:13:13.10 0.65
 eSn 13:32.50 0.69

445.

2017-11-06 time: 10:03:46.30 UTC ML= 1.8
 lat: 47.827N lon: 19.934E h= 0.0 km
 erh= 3.1km erz= 741km
 nr= 8 gap=179 rms=0.52
 Locality: Mátrafüred
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	10.5	344	Pg	10:03:48.45			0.28
			Sg	03:50.25			0.61
BUD	78.3	241	Pg	10:04:00.29			0.01
A336	83.0	303	Pg	10:04:00.84			-0.28
			Sg	04:11.51			-1.18
KECS	83.7	29	Sg	10:04:12.27			-0.63
VYHS	110.3	312	Pg	10:04:06.73			0.74
ABAH	110.4	62	Pg	10:04:05.93			-0.08

446.

2017-11-07 time: 9:58:17.68 UTC ML= 1.5
 lat: 47.329N lon: 18.451E h= 0.0 km
 erh= 0.8km erz= 274km
 nr= 7 gap=114 rms=0.18
 Locality: Zámoly
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	8.4	327	Pg	9:58:19.32			0.14
			Sg	58:19.96			-0.39
CSKK	14.9	285	Pg	9:58:20.55			0.20
			Sg	58:22.35			-0.07
PENC	80.9	51	Sg	9:58:43.33			-0.06
MORH	124.6	173	Sg	9:58:57.13			-0.15
PSZ	126.8	59	Sg	9:58:58.05			0.08

447.

2017-11-08 time: 13:39:19.26 UTC ML= 1.2
 lat: 47.968N lon: 19.403E h= 10.0 km
 erh= 2.1km erz= 8.3km
 nr= 8 gap=134 rms=0.51
 Locality: Cserhátaláp
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PENC	21.8	205	Pg	13:39:23.64			0.11
			Sg	39:26.87			0.00
PSZ	37.2	99	Pg	13:39:26.34			0.21
			Sg	39:31.19			-0.30
A336	42.1	314	Pg	13:39:27.70			0.72
			Sg	39:31.99			-1.01
VYHS	72.0	324	Pg	13:39:32.52			0.28
			Sg	39:41.49			-0.88

448.

2017-11-08 time: 18:36:27.21 UTC ML= 3.0
 lat: 48.075N lon: 16.146E h= 10.4 km
 erh= 1.2km erz= 1.0km
 nr= 87 gap= 42 rms=0.87
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CONA	26.7	232	Pg	18:36:31.67			-0.66
			Sg	36:35.49			-0.84
RONA	43.2	165	Pg	18:36:35.11			-0.03
			Sg	36:41.11			-0.23
SOP	53.4	145	Pg	18:36:37.11			0.19
			Sg	36:43.60			-0.89
ZST	72.5	79	Pg	18:36:40.32			0.04
MODS	90.4	68	ePg	18:36:42.80			-0.66
			eSg	36:54.80			-1.34
ARSA	102.9	207	P*	18:36:44.35			-1.28
			S*	36:57.00			-3.00
SMOL	107.0	63	Pn	18:36:46.73			0.48
			Sn	37:01.64			0.54
KRUC	111.3	10	Pn	18:36:45.86			-0.92
			Sn	36:59.02			-3.03
EGYH	115.2	129	Pn	18:36:47.90			0.63
			Sn	37:03.33			0.42
A339	116.1	104	Pn	18:36:47.97			0.59
			Sn	37:03.76			0.64
A337	123.8	81	Pn	18:36:49.36			1.02
			Sn	37:05.73			0.91
VRAC	141.1	14	Pn	18:36:50.45			-0.05
			Sn	37:07.27			-1.39
MOA	142.6	260	Pn	18:36:50.49			-0.20
			Sn	37:07.60			-1.40
TREC	144.1	340	eSn	18:37:06.90			-2.43
MPLH	145.3	134	Pn	18:36:51.18			0.16
			Sn	37:08.63			-0.96
SRO	164.5	100	Pn	18:36:53.75			0.33
A338	164.7	92	Pn	18:36:53.61			0.17
			Sn	37:13.82			-0.09
PKST	168.4	123	Pn	18:36:54.21			0.31
			Sn	37:13.82			-0.91
SOKA	176.6	208	Pn	18:36:56.23			1.30
			Sn	37:16.94			0.39
CSKK	177.3	117	Pn	18:36:55.24			0.22
			Sn	37:15.94			-0.77
PERS	177.9	206	iPn	18:36:55.98			0.89
			iSn	37:15.90			-0.93
KOGS	181.0	177	Pn	18:36:56.18			0.70
			Sn	37:16.75			-0.78
BEHE	184.7	165	Pn	18:36:57.27			1.34
PKSG	184.7	114	Pn	18:36:56.24			0.30
			Sn	37:17.40			-0.96
TIH	185.5	135	Pn	18:36:56.72			0.68
BIOA	192.3	257	Pn	18:36:57.72			0.83
			Sn	37:20.18			0.14
VYHS	205.1	77	Pn	18:36:58.42			-0.05
			Sn	37:21.54			-1.32
ZVC	208.9	317	ePn	18:37:00.10			1.15
			eSn	37:23.70			-0.02
OBKA	211.9	215	Pn	18:37:01.31			1.98
A336	213.0	85	Sn	18:37:23.62			-1.02
MORC	215.2	28	Pn	18:37:00.16			0.42
			Sn	37:23.69			-1.42
KHC	222.8	302	ePn	18:37:01.80			1.11
			eSn	37:26.70			-0.11
KRLC	227.3	12	Pn	18:37:02.00			0.75
			Sn	37:27.72			-0.08
GOPC	227.4	334	eSn	18:37:27.00			-0.83
PKS9	231.0	136	Pn	18:37:02.27			0.56
PENC	236.5	98	Pn	18:37:03.12			0.73
			Sn	37:29.43			-0.41
KBA	238.1	242	Pn	18:37:04.55			1.96
			Sn	37:31.09			0.89

Földrengés paraméterek

PTJ	242.2	183	Pn	18:37:04.37	1.26
			Sn	37:29.61	-1.50
PRU	243.0	331	ePn	18:37:03.70	0.50
			eSn	37:30.70	-0.58
PKB1	245.9	126	Pn	18:37:03.50	-0.07
			Sn	37:31.28	-0.65
MYKA	248.2	230	Pn	18:37:05.31	1.45
			Sn	37:32.98	0.54
CRES	255.5	192	Pn	18:37:05.70	0.94
			Sn	37:33.60	-0.45
PKB4	255.7	133	Pn	18:37:05.16	0.37
			Sn	37:32.21	-1.90
PKB5	255.7	130	Pn	18:37:05.20	0.41
KOVH	266.1	146	Pn	18:37:06.25	0.16
			Sn	37:34.02	-2.39
LANS	272.6	64	Pn	18:37:08.00	1.10
PSZ	280.3	94	Sn	18:37:09.71	0.14
MORH	280.4	137	Pn	18:37:07.97	0.10
PKSM	280.6	138	Pn	18:37:08.00	0.10
			Sn	37:37.01	-2.62
PKSV	291.2	147	Pn	18:37:09.70	0.49
			Sn	37:40.90	-1.07
ABTA	311.4	242	Pn	18:37:17.85	6.11*
			Sn	37:54.60	8.13*
KECS	325.3	82	eSn	18:37:48.80	-0.76*
WTTA	350.5	255	Pn	18:37:19.28	2.67*
WATA	352.6	257	Sn	18:37:56.53	0.91*
SQTA	382.9	256	Pn	18:37:30.23	9.58*
			Sn	38:03.23	0.89*
MOTA	387.0	258	Pn	18:37:22.97	1.81*
			Sn	38:03.92	0.68*
STHS	403.5	68	ePn	18:37:23.90	0.68*
CRVS	403.6	77	ePn	18:37:24.50	1.27*
DAVA	478.5	259	Pn	18:37:33.82	1.24*
			Sn	38:22.58	-0.98*

449.

2017-11-09 time: 6:59:23.11 UTC ML= 1.7
 lat: 48.313N lon: 19.823E h= 3.7 km
 erh= 2.1km erz= 3.9km
 nr= 11 gap=104 rms=0.70
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr mn sec	res
PSZ	44.2	173	Pg	6:59:30.71	-0.32
			Sg	59:36.25	-0.96
KECS	52.6	69	Pg	6:59:32.02	-0.51
			Sg	59:41.13	1.26
A336	61.8	262	Sg	6:59:43.19	0.40
PENC	70.7	215	Sg	6:59:46.91	1.28
VYHS	75.8	285	Sg	6:59:46.70	-0.53
LANS	96.7	344	Sg	6:59:53.02	-0.86
A338	114.3	253	Sg	6:59:59.73	0.27
NIE	128.1	16	Pn	6:59:46.13	0.49
			Sn	7:00:03.23	0.01

450.

2017-11-09 time: 8:51:23.28 UTC ML= 1.7
 lat: 48.592N lon: 20.772E h= 3.7 km
 erh= 1.3km erz= 1.8km
 nr= 10 gap=150 rms=0.25
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	24.4	240	Pg	8:51:27.56	-0.13
			Sg	51:31.14	0.02
ABAH	47.7	134	Pg	8:51:31.78	-0.05
			Sg	51:38.10	-0.39
CRVS	61.3	56	Pg	8:51:34.23	-0.01
PSZ	99.3	221	Pg	8:51:41.25	0.22
			Sg	51:54.99	0.12

Hypocenter Parameters

TRPA	140.6	111	Pn	8:51:47.92	0.55
VYHS	143.4	266	ePn	8:51:47.40	-0.32
			eSn	52:05.50	-1.28*

451.

2017-11-09 time: 10:46:22.85 UTC ML= 2.0
 lat: 45.576N lon: 17.343E h= 12.5 km
 erh= 2.1km erz= 2.0km
 nr= 13 gap=124 rms=0.48
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	78.8	64	Pg	10:46:37.67	0.57
			Sg	46:47.74	-0.48
KOVH	81.9	46	Pg	10:46:37.19	-0.45
BLY	92.7	188	P*	10:46:39.46	-0.07
			S*	46:51.60	-0.95
BEHE	108.7	336	Pn	10:46:42.46	0.62
PKSM	123.1	55	Pn	10:46:43.95	0.32
			Sn	46:59.88	0.04
MORH	123.5	55	Pn	10:46:43.99	0.31
			Sn	46:59.71	-0.23
KOGS	128.7	319	Pn	10:46:44.12	-0.21
			Sn	47:00.22	-0.87
CRES	149.5	281	Pn	10:46:47.48	0.55

452.

2017-11-10 time: 8:30:09.12 UTC ML= 1.6
 lat: 47.340N lon: 18.434E h= 0.0 km
 erh= 1.9km erz= 724km
 nr= 10 gap=113 rms=0.57
 Locality: Zámoly
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	6.6	330	Pg	8:30:10.60	0.30
			Sg	30:11.07	-0.15
CSKK	13.4	281	Pg	8:30:11.80	0.29
			Sg	30:13.47	0.10
PKST	31.6	253	Sg	8:30:19.50	0.34
A339	79.9	313	Sg	8:30:32.15	-2.37
MORH	126.1	173	Pg	8:30:32.10	0.47
			Sg	30:48.79	-0.40
PKSM	126.5	173	Sg	8:30:48.37	-0.95
PSZ	127.2	60	Sg	8:30:49.62	0.08

453.

2017-11-10 time: 9:32:46.20 UTC ML= 2.1
 lat: 47.817N lon: 16.021E h= 10.0 km
 erh= 3.4km erz= 2.6km
 nr= 16 gap= 88 rms=1.14
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr mn sec	res
CONA	17.2	316	Pg	9:32:49.27	-0.48
			Sg	32:51.85	-0.67
RONA	24.4	122	Pg	9:32:51.06	0.14
			Sg	32:54.79	0.20
ARSA	73.3	211	Pg	9:32:58.87	-0.54
			Sg	33:08.50	-1.21
EGYH	108.1	114	Pn	9:33:05.42	-0.02
			Sn	33:18.09	-2.35
MODS	112.2	57	ePn	9:33:08.20	2.25
			eSn	33:20.20	-1.15
MOA	131.4	272	Pn	9:33:10.12	1.78
			Sn	33:26.95	1.34
MPLH	135.2	122	Sn	9:33:27.61	1.17
KRUC	141.2	11	Pn	9:33:09.75	0.19
			Sn	33:26.30	-1.48
VRAC	171.1	14	Sn	9:33:33.60	-0.83

Hypocenter Parameters

Földrengés paraméterek

454.

2017-11-10 time: 10:27:23.54 UTC ML= 1.4
 lat: 47.565N lon: 18.457E h= 0.0 km
 erh= 2.7km erz= 794km
 nr= 9 gap=152 rms=0.62
 Locality: Tatabánya
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	19.9	195	Pg	10:27:27.18	0.10
			Sg	27:29.67	-0.18
CSKK	26.9	213	Pg	10:27:28.49	0.16
			Sg	27:32.20	0.13
BUD	43.7	102	Sg	10:27:38.33	0.92
PKST	46.6	223	Sg	10:27:38.16	-0.19
VYHS	107.1	15	Pg	10:27:43.31	0.65
			Sg	27:56.26	-1.32
PSZ	114.8	70	Sg	10:27:58.93	-1.09

455.

2017-11-10 time: 12:00:44.65 UTC ML= 1.1
 lat: 46.105N lon: 18.117E h= 0.0 km
 erh= 0.9km erz= 244km
 nr= 10 gap=158 rms=0.19
 Locality: Kővágótöttös
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	2.3	215	Pg	12:00:45.00	-0.07
			Sg	00:46.21	0.81
PKSV	26.3	157	Pg	12:00:49.21	-0.13
			Sg	00:52.80	-0.20
PKSM	42.2	74	Pg	12:00:52.24	0.06
			Sg	00:58.16	0.11
MORH	42.5	73	Pg	12:00:52.24	0.00
			Sg	00:58.40	0.24
PKS9	54.9	13	Pg	12:00:54.62	0.16
PKB4	57.4	41	Pg	12:00:54.62	-0.27

456.

2017-11-10 time: 12:02:02.41 UTC ML= 1.1
 lat: 46.128N lon: 18.101E h= 0.0 km
 erh= 0.9km erz= 216km
 nr= 9 gap=194 rms=0.16
 Locality: Abaliget
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	4.4	181	Pg	12:02:02.88	-0.31
			Sg	02:03.93	0.13
PKSV	29.0	156	Sg	12:02:11.79	0.15
PKSM	42.8	77	Pg	12:02:10.04	-0.01
			Sg	02:15.81	-0.19
MORH	43.1	77	Pg	12:02:10.06	-0.04
			Sg	02:16.28	0.18
PKS9	52.9	15	Pg	12:02:11.78	-0.07
PKB4	56.4	43	Pg	12:02:12.69	0.21

457.

2017-11-10 time: 12:08:18.70 UTC ML= 1.3
 lat: 46.129N lon: 18.044E h= 0.0 km
 erh= 1.6km erz= 293km
 nr= 10 gap=257 rms=0.23
 Locality: Hetvehely
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	6.2	136	Pg	12:08:19.76	-0.04
			Sg	08:20.97	0.30

PKSV	31.2	149	Pg	12:08:24.24	-0.02
			Sg	08:28.60	0.00
PKSM	47.0	79	Pg	12:08:27.03	-0.07
			Sg	08:33.47	-0.18
MORH	47.3	78	Pg	12:08:26.99	-0.16
			Sg	08:33.40	-0.34
PKB5	74.3	46	Pg	12:08:32.20	0.23
PKB3	94.6	70	Sg	12:08:49.60	0.84

458.

2017-11-10 time: 16:40:43.85 UTC ML= 3.3
 lat: 47.708N lon: 16.163E h= 8.6 km
 erh= 1.5km erz= 1.5km
 nr= 59 gap= 58 rms=0.63
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr mn sec	res
SOP	29.8	95	Pg	16:40:49.91	0.52
			Sg	40:54.15	0.43
ARSA	70.1	223	Pg	16:40:55.13	-1.33
			Sg	41:03.04	-3.25
ZST	88.8	52	Pg	16:40:58.98	-0.79
EGYH	93.7	110	Pg	16:41:01.21	0.55
MODS	111.3	48	ePn	16:41:02.80	-0.86
			eSn	41:17.70	-1.42
A339	112.7	83	Pn	16:41:04.45	0.61
MPLH	119.8	120	Pn	16:41:04.44	-0.29
SMOL	130.1	46	Pn	16:41:06.46	0.46
A337	135.4	64	Pn	16:41:06.77	0.11
KOGS	140.2	177	iPnD	16:41:07.26	0.00
			eSn	41:24.21	-1.32
PERS	143.1	214	iPn	16:41:06.84	-0.79
			iSn	41:22.89	-3.29
BEHE	145.2	161	Pn	16:41:08.77	0.88
PKST	149.6	109	Pn	16:41:08.40	-0.04
KRUC	151.6	7	Pn	16:41:08.28	-0.40
TIH	158.7	124	Pn	16:41:09.80	0.23
SRO	161.7	86	Pn	16:41:09.70	-0.24
CSKK	162.5	104	Pn	16:41:10.13	0.08
PKSG	171.4	102	Pn	16:41:11.06	-0.09
OBKA	181.0	223	Pn	16:41:12.61	0.26
DOBS	181.1	197	ePn	16:41:12.29	-0.08
TREC	183.4	344	ePn	16:41:12.90	0.25
			eSn	41:34.50	-0.62
GOLS	193.1	192	iPn	16:41:13.86	0.00
			eSn	41:40.40	3.14
CESS	200.1	195	iPn	16:41:14.87	0.14
			eSn	41:42.54	3.73*
PTJ	201.6	184	Pn	16:41:14.96	0.04
PKS9	203.2	128	Pn	16:41:15.51	0.39
PKS9	203.4	206	ePn	16:41:15.36	0.21
MOZS	204.4	220	iPn	16:41:15.58	0.30
LEGS	205.9	198	iPn	16:41:15.48	0.02
G CIS	208.7	191	ePn	16:41:15.70	-0.10
			eSn	41:44.07	3.35*
VNDS	210.4	212	ePn	16:41:16.37	0.35
CRES	216.0	194	iPn	16:41:16.72	0.00
VYHS	217.5	66	Pn	16:41:16.04	-0.86
A336	219.7	75	Pn	16:41:17.20	0.02
LJU	223.1	214	iPn	16:41:18.19	0.59
KBA	224.0	252	Pn	16:41:18.66	0.95
GORS	225.7	227	iPn	16:41:18.31	0.39
CRNS	231.8	219	iPn	16:41:19.22	0.54
KOVH	232.8	141	Pn	16:41:18.65	-0.16
VISS	234.6	206	iPn	16:41:19.10	0.06
GBAS	236.8	214	iPn	16:41:19.53	0.22
			eSn	41:51.75	4.77*
ZVC	241.2	323	eSn	16:41:49.90	1.95
CADS	247.3	228	iPn	16:41:21.02	0.40
KHC	248.3	310	ePn	16:41:22.40	1.66
			eSn	41:51.10	1.58
MORH	251.4	131	Pn	16:41:20.73	-0.40
PKSM	251.5	131	Pn	16:41:20.87	-0.27

Földrengés paraméterek

Hypocenter Parameters

VOJS 254.5 223 iPn 16:41:21.73 0.21
 PKSV 257.6 142 Pn 16:41:22.01 0.11
 PKB2 260.1 116 Pn 16:41:22.16 -0.06
 PKB3 271.0 122 Pn 16:41:23.42 -0.15
 KECS 333.4 75 ePn 16:41:31.20 -0.15*
 BLY 338.2 167 Pn 16:41:32.37 0.42*
 STHS 420.5 63 ePn 16:41:42.30 0.09*
 SIRR 447.8 111 Sn 16:42:30.60 -3.20*
 BZS 477.8 119 PnC 16:41:48.44 -0.92*
 SURR 504.9 115 PnD 16:41:51.34 -1.39*
 Sn 42:44.30 -2.16*
 MDVR 537.6 127 PnC 16:41:55.23 -1.59*
 MARR 539.5 102 PnD 16:41:55.84 -1.22*
 Sn 42:51.10 -3.06*
 GZR 568.8 117 Sn 16:42:58.10 -2.55*
 GZR 568.8 117 PnD 16:42:00.17 -0.53*
 BOVS 625.7 136 PnD 16:42:06.50 -1.30*
 BURA 680.2 91 PnD 16:42:12.39 -2.21*

459.

2017-11-13 time: 9:17:59.13 UTC ML= 1.6
 lat: 48.567N lon: 20.791E h= 0.0 km
 erh= 2.8km erz= 3.2km
 nr= 11 gap= 91 rms=0.68
 Locality: Tornanádaska
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.4	248	Pg	9:18:03.27	-0.22
			Sg	18:07.22	0.33
ABAH	44.8	132	Pg	9:18:07.56	0.43
			Sg	18:13.01	-0.37
PSZ	98.2	223	Pg	9:18:17.40	0.74
			Sg	18:29.93	-0.40
KOLS	116.4	70	Sg	9:18:35.55	-0.56
VYHS	144.6	267	Pn	9:18:23.99	-0.20
			Sn	18:41.71	-2.03
LTVH	155.4	148	Sn	9:18:45.73	-0.40
OJC	197.4	339	Pn	9:18:32.47	1.69

460.

2017-11-13 time: 11:28:39.21 UTC ML= 1.5
 lat: 48.503N lon: 20.803E h= 0.0 km
 erh= 7.5km erz= 6.2km
 nr= 7 gap=179 rms=1.11
 Locality: Tornabarakony
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.5	265	Pg	11:28:43.77	0.36
			Sg	28:46.30	-0.39
CRVS	65.7	48	Sg	11:28:58.64	-1.47
PSZ	93.7	226	Pg	11:28:57.08	1.14
NIE	108.0	341	Pg	11:28:59.76	1.26
VYHS	145.4	270	Pn	11:29:04.07	-0.30
			Sn	29:21.80	-2.19

461.

2017-11-14 time: 7:15:37.88 UTC ML= 1.4
 lat: 47.504N lon: 18.409E h= 0.0 km
 erh= 7.0km erz= 6.0km
 nr= 8 gap=292 rms=1.38
 Locality: Várgesztes
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	12.5	186	Pg	7:15:41.13	1.01
			Sg	15:41.79	-0.08
CSKK	19.2	216	Pg	7:15:42.28	0.96
			Sg	15:44.39	0.40
PKST	39.2	226	Pg	7:15:46.02	1.13
			Sg	15:49.90	-0.46

MPLH 75.4 241 Sg 7:15:59.45 -2.41
 PKSM 144.7 173 Sn 7:16:19.53 -2.99

462.

2017-11-14 time: 8:55:49.11 UTC ML= 1.6
 lat: 48.599N lon: 20.789E h= 0.0 km
 erh= 1.3km erz= 2.0km
 nr= 7 gap=193 rms=0.24
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.8	240	Pg	8:55:53.97	0.25
			Sg	55:57.47	0.15
ABAH	47.4	135	Sg	8:56:04.08	-0.08
PSZ	100.7	221	Sg	8:56:20.91	-0.20
LANS	114.7	302	Pg	8:56:09.59	0.00
VYHS	144.7	265	Pn	8:56:14.19	0.01
			Sn	56:32.65	-1.09

463.

2017-11-14 time: 12:02:32.38 UTC ML= 2.2
 lat: 48.416N lon: 17.220E h= 0.0 km
 erh= 8.8km erz= 954km
 nr= 6 gap=234 rms=0.55
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
SMOL	18.9	55	Pg	12:02:35.52	-0.23
			Sg	02:38.95	0.57
KRUC	94.0	320	Pg	12:02:49.68	0.51
			Sg	03:01.25	-1.01
VRAC	109.4	335	Pg	12:02:52.24	0.33
VYHS	119.9	86	Sg	12:03:09.83	-0.65

464.

2017-11-14 time: 12:37:02.96 UTC ML= 1.5
 lat: 46.783N lon: 17.266E h= 7.5 km
 erh= 3.0km erz= 1.8km
 nr= 9 gap=245 rms=0.27
 Locality: Gyenesdiás
 Comments:

sta	dist	azm	phase	hr mn sec	res
MPLH	47.8	26	Pg	12:37:11.39	-0.21
			Sg	37:18.08	-0.27
PKST	78.8	48	Pg	12:37:17.26	0.16
			Sg	37:28.22	0.09
KOVH	100.3	140	Pg	12:37:20.84	-0.08
MORH	123.1	121	Pn	12:37:24.88	0.50
			Sn	37:40.80	-0.30
PKSM	123.2	121	Pn	12:37:24.67	0.28
			Sn	37:40.75	-0.36

465.

2017-11-15 time: 7:41:19.47 UTC ML= 0.9
 lat: 47.151N lon: 18.163E h= 10.0 km
 erh= 4.6km erz= 7.5km
 nr= 8 gap=240 rms=0.57
 Locality: Pétfürdő
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	15.4	321	Pg	7:41:23.53	0.77
			Sg	41:25.92	0.61
CSKK	24.7	17	Pg	7:41:24.29	0.06
			Sg	41:27.04	-0.90
PKSG	31.8	33	Pg	7:41:25.31	-0.12
			Sg	41:29.74	-0.33

Hypocenter Parameters

MPLH 47.3 273 Sg 7:41:33.95 -0.89
 A339 84.5 333 Sg 7:41:46.92 0.40

466.

2017-11-15 time: 8:22:59.84 UTC ML= 1.2
 lat: 48.597N lon: 20.762E h= 0.0 km
 erh= 1.6km erz= 1.4km
 nr= 6 gap=164 rms=0.12
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.0	238	Pg	8:23:03.95	-0.18
			Sg	23:07.48	0.00
CRVS	61.6	57	Pg	8:23:10.82	-0.02
PSZ	99.2	220	Pg	8:23:17.52	-0.04
			Sg	23:31.52	0.13
VYHS	142.7	265	Pn	8:23:24.87	0.21

467.

2017-11-15 time: 9:54:44.45 UTC ML= 0.3
 lat: 47.214N lon: 18.296E h= 0.0 km
 erh= 3.1km erz= 856km
 nr= 7 gap=147 rms=0.58
 Locality: Moha
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	16.9	351	Pg	9:54:47.83	0.37
			Sg	54:48.94	-0.87
PKST	20.5	284	Pg	9:54:48.56	0.46
			Sg	54:50.67	-0.28
PKSG	21.1	20	Pg	9:54:48.84	0.62
			Sg	54:50.92	-0.23
PKSM	114.4	167	Sg	9:55:19.82	-1.01

468.

2017-11-15 time: 13:51:51.36 UTC ML= 1.9
 lat: 47.911N lon: 20.089E h= 0.0 km
 erh= 4.5km erz= 732km
 nr= 8 gap=194 rms=0.55
 Locality: Recsk
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	14.5	273	Pg	13:51:54.06	0.11
			Sg	51:56.79	0.81
PENC	61.9	257	Pg	13:52:02.34	-0.06
			Sg	52:10.20	-0.82
KECS	70.1	25	eSg	13:52:13.00	-0.64
A336	88.7	294	Pg	13:52:06.59	-0.61
ABAH	95.8	63	Pg	13:52:09.24	0.78
VYHS	113.4	305	Pg	13:52:11.85	0.24

469.

2017-11-16 time: 9:54:21.77 UTC ML= 1.6
 lat: 47.411N lon: 18.400E h= 0.0 km
 erh= 0.9km erz= 0.8km
 nr= 5 gap=289 rms=0.87
 Locality: Gánt
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	2.3	199	Pg	9:54:22.73	0.55
			Sg	54:23.19	0.69
CSKK	11.9	243	Pg	9:54:23.98	0.10
			Sg	54:25.16	-0.38
PKSM	134.6	172	Sn	9:55:01.70	-2.47

Földrengés paraméterek

470.

2017-11-17 time: 10:42:16.51 UTC ML= 1.3
 lat: 46.252N lon: 18.227E h= 0.0 km
 erh= 1.6km erz= 221km
 nr= 7 gap=249 rms=0.52
 Locality: Kisvaszar
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	20.7	208	Pg	10:42:20.62	0.42
			Sg	42:23.31	0.23
PKSM	32.3	98	Pg	10:42:22.55	0.28
			Sg	42:26.30	-0.46
MORH	32.4	97	Pg	10:42:22.60	0.30
			Sg	42:26.44	-0.37
PKSV	40.5	177	Sg	10:42:27.95	-1.42

471.

2017-11-17 time: 13:02:19.62 UTC ML= 2.3
 lat: 45.926N lon: 16.234E h= 11.8 km
 erh= 1.6km erz= 1.0km
 nr= 42 gap=156 rms=0.65
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
ZAG	21.5	240	Pg	13:02:23.95	-0.06
			Sg	02:28.47	1.04
PTJ	21.6	262	Pg	13:02:23.86	-0.16
			Sg	02:27.80	0.35
GCIS	47.5	262	iPg	13:02:28.31	-0.06
GOLS	48.2	281	iPg	13:02:28.72	0.24
			eSg	02:35.96	0.57
KOGS	58.1	1	Pg	13:02:29.84	-0.36
			Sg	02:38.03	-0.43
CESS	60.0	275	ePg	13:02:31.52	0.97
			iSg	02:39.10	0.04
CRES	61.4	260	Pg	13:02:30.74	-0.04
			Sg	02:37.69	-1.80
DOBS	64.2	293	iPg	13:02:31.94	0.66
LEGS	71.1	272	iPg	13:02:32.57	0.07
			eSg	02:42.35	-0.19
BEHE	73.5	35	Pg	13:02:31.80	-1.12
			Sg	02:43.61	0.32
BOJS	89.7	239	iPg	13:02:35.05	-0.73
PDKS	97.0	279	iP*	13:02:37.00	-0.02
			eS*	02:49.82	-0.77
VISS	109.2	263	iPn	13:02:38.43	-0.34
			eSn	02:52.36	-1.34
PERS	116.8	312	ePn	13:02:39.80	0.08
			eSn	02:54.47	-0.92
GBRS	119.2	248	iPn	13:02:40.34	0.32
VNDS	120.3	279	eSn	13:02:56.85	0.68
SOKA	124.7	312	Pn	13:02:40.65	-0.06
			Sn	02:56.49	-0.66
OBKA	145.3	296	Sn	13:03:03.07	1.35
KOVH	145.6	83	Pn	13:02:42.68	-0.63
			Sn	02:59.05	-2.74
BLY	150.5	150	Sn	13:02:59.34	-3.53*
ARSA	157.0	340	Sn	13:03:03.03	-1.28
MPLH	170.7	36	Pn	13:02:46.97	0.53
PKSM	188.9	80	Pn	13:02:48.82	0.11
			Sn	03:11.28	-0.12
MORH	189.2	80	Pn	13:02:48.82	0.07
			Sn	03:11.22	-0.24
PKB4	193.6	71	Pn	13:02:51.17	1.88
			Sn	03:13.51	1.09
RONA	197.2	1	Pn	13:02:50.69	0.94
CONA	224.4	353	Pn	13:02:54.01	0.88

Földrengés paraméterek

Hypocenter Parameters

472.

2017-11-20 time: 11:20:15.46 UTC ML= 1.3
 lat: 48.601N lon: 20.777E h= 0.0 km
 erh= 2.1km erz= 2.4km
 nr= 11 gap=114 rms=0.67
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.2	239	Pg	11:20:20.15	0.20
			Sg	20:23.50	0.04
CRVS	60.5	56	Pg	11:20:27.13	0.87
			Sg	11:20:33.44	0.08
PSZ	100.3	221	Pg	11:20:33.44	0.08
			Sg	20:47.57	0.24
LANS	113.8	302	ePg	11:20:36.00	0.22
			eSg	20:50.20	-1.43
KOLS	116.1	71	eSg	11:20:52.30	-0.05
TRPA	140.7	112	Sn	11:20:57.32	-1.89
VYHS	143.8	265	Pn	11:20:40.56	0.14
			Sn	20:58.39	-1.50

473.

2017-11-20 time: 11:27:45.86 UTC ML= 1.8
 lat: 47.883N lon: 19.371E h= 0.0 km
 erh= 3.1km erz= 6.9km
 nr= 12 gap=129 rms=1.03
 Locality: Nógrádkövesd
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	12.3	213	Pg	11:27:48.83	0.77
			Sg	27:50.25	0.48
PSZ	39.3	84	Pg	11:27:52.76	-0.12
			Sg	27:58.30	-0.05
A336	47.8	324	Pg	11:27:54.86	0.48
			Sg	28:01.23	0.19
VYHS	78.7	330	Pg	11:28:01.48	1.58
			Sg	28:09.24	-1.62
PKSG	91.8	233	Sg	11:28:10.99	-4.03
KECS	106.4	51	ePg	11:28:04.30	-0.55
			eSg	28:18.70	-0.96
ABAH	146.5	72	Sn	11:28:30.22	-0.68

474.

2017-11-20 time: 11:30:20.58 UTC ML= 1.2
 lat: 48.124N lon: 18.983E h= 0.0 km
 erh= 1.8km erz= 774km
 nr= 11 gap= 90 rms=0.62
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
A336	12.2	6	Pg	11:30:23.07	0.31
			Sg	30:24.65	0.19
VYHS	42.6	345	Pg	11:30:28.49	0.31
			Sg	30:33.62	-0.49
PENC	43.3	149	Sg	11:30:34.77	0.43
A338	48.5	256	Sg	11:30:35.74	-0.25
			Pg	11:30:33.42	0.02
PSZ	71.8	109	Pg	11:30:33.42	0.02
			Sg	30:43.52	0.12
PKSG	92.7	209	Pg	11:30:37.89	0.75
			Sg	30:48.61	-1.44
KECS	118.5	70	Sg	11:30:56.69	-1.54

475.

2017-11-20 time: 12:38:08.49 UTC ML= 1.5
 lat: 48.351N lon: 19.843E h= 0.0 km
 erh= 1.2km erz= 387km
 nr= 9 gap=103 rms=0.29
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	48.3	175	Pg	12:38:17.06	-0.05
			Sg	38:23.95	0.11
KECS	49.8	73	Pg	12:38:17.09	-0.29
			Sg	38:24.40	0.08
A336	64.0	258	Pg	12:38:20.42	0.51
			Sg	38:28.31	-0.51
VYHS	76.2	282	ePg	12:38:22.00	-0.09
			eSg	38:31.00	-1.70*
LANS	93.1	343	Pg	12:38:25.26	0.16

476.

2017-11-21 time: 9:40:05.66 UTC ML= 1.8
 lat: 47.080N lon: 17.131E h= 0.0 km
 erh= 6.4km erz= 7.3km
 nr= 10 gap=206 rms=1.10
 Locality: Keléd
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	32.6	72	Pg	9:40:11.56	0.08
			Sg	40:17.43	1.41
TIH	61.3	109	Pg	9:40:17.22	0.61
			Sg	40:25.48	0.32
PKST	71.3	74	Pg	9:40:16.48	-1.92
			Sg	40:28.09	-0.25
KOGS	97.3	224	Sg	9:40:36.67	0.10
PKSG	101.5	70	Pg	9:40:24.66	0.87
			Sg	40:38.47	0.54
MORH	150.5	130	Sn	9:40:48.93	-2.65

477.

2017-11-22 time: 7:26:34.05 UTC ML= 1.3
 lat: 47.966N lon: 20.121E h= 0.0 km
 erh= 5.0km erz= 716km
 nr= 7 gap=311 rms=0.47
 Locality: Szajla
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	17.7	253	Pg	7:26:37.21	0.00
			Sg	26:39.94	0.27
PENC	65.7	253	Pg	7:26:45.35	-0.43
			Sg	26:54.82	-0.11
A336	88.7	290	Sg	7:27:02.61	0.38
VYHS	112.1	302	Pg	7:26:54.69	0.63
			Sg	27:08.65	-1.01

478.

2017-11-22 time: 8:58:45.47 UTC ML= 1.8
 lat: 47.528N lon: 18.371E h= 0.0 km
 erh= 4.0km erz= ***km
 nr= 11 gap=128 rms=0.96
 Locality: Vértesomló
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	15.2	174	Pg	8:58:48.99	0.81
			Sg	58:49.77	-0.52
CSKK	20.1	205	Pg	8:58:50.19	1.13
			Sg	58:51.58	-0.28
PKST	39.2	220	Pg	8:58:53.74	1.27

Hypocenter Parameters

A338 54.2 359 Pg 58:56.03 -1.91
 MPLH 74.4 238 Pg 8:58:55.75 0.60
 PKB1 88.6 159 Sg 8:58:58.18 -0.57
 A336 91.4 31 Sg 8:59:13.44 -0.19
 PKB5 107.3 165 Sg 8:59:13.70 -0.83
 PKB5 107.3 165 Sg 8:59:18.09 -1.49

479.

2017-11-22 time: 9:33:21.42 UTC ML= 1.3
 lat: 47.105N lon: 17.923E h= 0.0 km
 erh= 2.0km erz= 975km
 nr= 18 gap=111 rms=0.86
 Locality: Kádárta
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	19.1	26	Pg	9:33:24.63	-0.20
			Sg	33:27.43	-0.06
MPLH	30.0	284	Pg	9:33:27.95	1.17
			Sg	33:32.43	1.48
CSKK	38.4	42	Pg	9:33:28.04	-0.24
			Sg	33:33.56	-0.07
PKSG	47.6	48	Pg	9:33:29.68	-0.25
			Sg	33:36.06	-0.50
EGYH	56.6	308	Sg	9:33:37.97	-1.45
PKB1	75.2	118	Pg	9:33:36.05	1.21
			Sg	33:46.52	1.21
PKB5	84.0	132	Pg	9:33:37.11	0.69
			Sg	33:48.76	0.65
MORH	113.2	151	Pg	9:33:41.31	-0.32
			Sg	33:55.92	-1.48
PKSM	113.5	151	Pg	9:33:40.96	-0.72
			Sg	33:56.05	-1.44
KOVH	113.8	173	Sg	9:33:56.94	-0.66

480.

2017-11-22 time: 9:41:15.45 UTC ML= 1.3
 lat: 47.501N lon: 18.006E h= 0.0 km
 erh= 2.4km erz= 635km
 nr= 8 gap=161 rms=0.46
 Locality: Kisbér
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	24.6	128	Pg	9:41:20.34	0.50
			Sg	41:23.12	-0.14
PKST	27.0	175	Pg	9:41:20.82	0.55
			Sg	41:23.90	-0.12
PKSG	31.5	113	Pg	9:41:21.33	0.26
			Sg	41:24.84	-0.62
MPLH	50.9	224	Sg	9:41:30.75	-0.88
A338	62.8	24	Pg	9:41:26.45	-0.22

481.

2017-11-22 time: 10:23:19.29 UTC ML= 1.4
 lat: 45.860N lon: 18.392E h= 0.0 km
 erh= 2.4km erz= 382km
 nr= 9 gap=260 rms=0.29
 Locality: Kisharsány
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	11.3	286	Pg	10:23:21.15	-0.17
			Sg	23:22.93	0.03
KOVH	34.1	318	Pg	10:23:25.39	0.02
			Sg	23:30.01	-0.11
PKSM	43.6	26	Pg	10:23:26.98	-0.10
			Sg	23:32.89	-0.27
MORH	44.1	26	Pg	10:23:27.10	-0.07
			Sg	23:33.43	0.11
PKS9	81.3	354	Pg	10:23:34.79	0.98

Földrengés paraméterek

482.

2017-11-22 time: 22:55:00.37 UTC ML=-0.4
 lat: 47.327N lon: 18.326E h= 0.1 km
 erh= 1.9km erz= 157km
 nr= 5 gap=217 rms=0.21
 Locality: Söréd
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	6.3	309	ePg	22:55:01.21	-0.29
			eSg	55:02.45	0.06
PKSG	8.7	34	ePg	22:55:01.83	-0.09
			eSg	55:03.37	0.24
PKST	23.3	251	eSg	22:55:08.05	0.27

483.

2017-11-23 time: 7:13:22.09 UTC ML= 0.9
 lat: 47.223N lon: 18.190E h= 0.0 km
 erh= 4.0km erz=10.5km
 nr= 9 gap=126 rms=0.89
 Locality: Bakonykúti
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	12.4	289	Pg	7:13:24.01	-0.29
			Sg	13:26.50	0.47
CSKK	16.4	19	Pg	7:13:24.74	-0.28
PKSG	24.1	39	Pg	7:13:26.05	-0.35
PKB1	67.0	137	Pg	7:13:35.55	1.50
			Sg	13:44.33	0.95
PKB5	81.3	149	Sg	7:13:46.08	-1.86
PKSM	117.7	163	Sg	7:13:58.39	-1.10
PSZ	149.8	59	Pn	7:13:48.13	0.33

484.

2017-11-23 time: 7:17:05.83 UTC ML= 0.6
 lat: 47.271N lon: 18.176E h= 0.0 km
 erh= 2.2km erz= 434km
 nr= 5 gap=129 rms=0.20
 Locality: Isztimér
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	10.8	263	Pg	7:17:07.60	-0.17
			Sg	17:09.53	0.25
CSKK	12.0	32	Pg	7:17:08.23	0.25
PKSG	21.0	50	Pg	7:17:09.35	-0.24
PKB1	71.6	139	Pg	7:17:18.61	0.00

485.

2017-11-23 time: 10:13:15.68 UTC ML= 1.6
 lat: 48.580N lon: 20.769E h= 0.0 km
 erh= 2.0km erz= 2.6km
 nr= 11 gap=111 rms=0.53
 Locality: Tornanádaska
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.5	243	Pg	10:13:20.25	0.37
			Sg	13:23.92	0.76
ABAH	47.0	132	Pg	10:13:24.23	0.16
			Sg	13:30.24	-0.37
CRVS	62.3	55	Pg	10:13:26.76	-0.04
PSZ	98.1	221	Pg	10:13:33.58	0.37
			Sg	13:46.25	-0.63
LANS	114.6	304	Pg	10:13:35.78	-0.37
PENC	141.2	232	Sn	10:13:58.20	-1.34
VYHS	143.1	266	Pn	10:13:41.20	0.65
			Sn	13:59.19	-0.76

Földrengés paraméterek

Hypocenter Parameters

486.

2017-11-23 time: 10:47:53.41 UTC ML= 1.5
 lat: 47.083N lon: 18.038E h= 0.0 km
 erh= 1.6km erz= 620km
 nr= 14 gap=116 rms=0.53
 Locality: Királyszentistván
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	19.5	359	Pg	10:47:56.16	-0.74
			Sg	47:58.90	-0.72
CSKK	35.4	28	Pg	10:47:59.97	0.25
			Sg	48:04.95	0.30
MPLH	39.1	284	Pg	10:48:01.66	1.27
			Sg	48:05.50	-0.33
PKSG	43.4	38	Sg	10:48:07.30	0.08
			Pg	10:48:12.77	0.25
MORH	107.0	154	Pg	10:48:12.77	0.25
			Sg	48:27.31	-0.11
PKSM	107.3	155	Pg	10:48:13.12	0.55
			Sg	48:26.76	-0.76
KOVH	110.7	178	Pg	10:48:13.15	-0.03
			Sg	48:28.11	-0.49
A337	130.4	352	Pg	10:48:16.82	0.12

487.

2017-11-24 time: 9:52:35.28 UTC ML= 1.9
 lat: 47.720N lon: 18.523E h= 10.0 km
 erh= 1.9km erz= 2.9km
 nr= 19 gap= 72 rms=0.79
 Locality: Lábatlan
 Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	18.8	303	Pg	9:52:38.82	-0.27
			Sg	52:42.10	0.04
PKSG	37.8	195	Sg	9:52:48.47	0.75
			Pg	9:52:44.77	1.37
CSKK	44.3	206	Pg	9:52:44.77	1.37
			Sg	52:48.49	-1.24
BUD	45.9	125	Sg	9:52:49.55	-0.67
PENC	57.4	82	Pg	9:52:46.79	1.10
			Sg	52:54.40	0.59
PKST	63.1	216	Pg	9:52:46.76	0.07
			Sg	52:54.80	-0.80
A336	67.2	32	Sg	9:52:55.92	-0.97
			Pg	9:53:03.35	-0.45
VYHS	89.2	15	Sg	9:53:03.35	-0.45
EGYH	95.7	249	Sg	9:53:05.75	-0.13
MPLH	96.1	231	Pg	9:52:53.23	0.69
			Sg	53:06.48	0.48
PSZ	105.1	78	P*	9:52:52.91	-1.17
			S*	53:09.12	0.39
PKB1	106.0	169	P*	9:52:54.62	0.40
			S*	53:07.69	-1.30

488.

2017-11-24 time: 10:48:02.01 UTC ML= 1.6
 lat: 48.594N lon: 20.764E h= 0.0 km
 erh= 1.5km erz= 1.9km
 nr= 14 gap=113 rms=0.72
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.0	239	Pg	10:48:06.68	0.38
			Sg	48:10.35	0.70
ABAH	48.3	133	Sg	10:48:17.63	0.26
			Pg	10:48:13.73	0.71
CRVS	61.6	56	Pg	10:48:13.73	0.71
			Sg	48:21.67	0.06
PSZ	99.1	221	Pg	10:48:20.75	1.04
			Sg	48:33.15	-0.37
LANS	113.5	303	Pg	10:48:22.49	0.21
			Sg	48:37.58	-0.50
KOLS	117.2	71	Sg	10:48:38.62	-0.63

A336	136.7	253	Sn	10:48:43.99	-0.89
TRPA	141.3	111	Sn	10:48:44.19	-1.70
VYHS	142.8	266	Pn	10:48:27.07	0.21
			Sn	48:44.83	-1.40

489.

2017-11-27 time: 8:54:49.04 UTC ML= 1.8
 lat: 48.039N lon: 21.349E h= 0.0 km
 erh= 5.2km erz= 812km
 nr= 8 gap=273 rms=0.59
 Locality: Csobaj
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	29.7	344	Pg	8:54:54.28	-0.06
			Sg	54:59.40	0.93
KECS	80.9	308	Pg	8:55:03.80	0.32
			Sg	55:13.94	-0.80
CRVS	96.3	5	ePg	8:55:06.60	0.37
			eSg	55:19.80	0.15
KOLS	120.6	35	Pg	8:55:10.39	-0.19
			Sg	55:25.98	-1.40

490.

2017-11-27 time: 10:03:38.94 UTC ML= 1.4
 lat: 48.561N lon: 20.820E h= 0.0 km
 erh= 2.5km erz= 4.6km
 nr= 14 gap= 90 rms=0.99
 Locality: Hidvégdó
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	26.2	251	Pg	10:03:43.30	-0.31
			Sg	03:47.19	-0.06
ABAH	42.8	134	Pg	10:03:47.43	0.85
			Sg	03:53.29	0.74
CRVS	60.5	51	Pg	10:03:49.71	-0.04
			Sg	03:57.86	-0.32
PSZ	99.2	224	Pg	10:03:57.09	0.44
			Sg	04:09.99	-0.47
STHS	100.1	18	ePg	10:03:56.10	-0.70
NIE	102.3	339	Pg	10:04:00.92	3.71
			Sg	04:11.58	0.12
KOLS	114.6	69	Sg	10:04:14.72	-0.65
A336	139.7	255	Sn	10:04:22.12	-0.34
VYHS	146.7	267	Sn	10:04:21.36	-2.66

491.

2017-11-28 time: 8:24:50.40 UTC ML= 0.9
 lat: 47.340N lon: 18.450E h= 0.0 km
 erh= 2.6km erz= 539km
 nr= 7 gap=211 rms=0.36
 Locality: Zámoly
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	7.3	322	Pg	8:24:51.85	0.16
			Sg	24:52.34	-0.36
CSKK	14.5	280	Pg	8:24:53.08	0.09
			Sg	24:54.71	-0.30
PKST	32.7	254	Pg	8:24:56.92	0.69
			Sg	25:00.42	-0.37
PKSM	126.3	173	Sg	8:25:30.27	-0.27

Hypocenter Parameters

Földrengés paraméterek

492.

2017-11-28 time: 12:26:40.62 UTC ML= 1.4
 lat: 48.353N lon: 19.847E h= 0.0 km
 erh= 2.9km erz= 736km
 nr= 7 gap=151 rms=0.51
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	48.4	176	Pg	12:26:49.54	0.27
			Sg	26:55.67	-0.34
KECS	49.4	73	Pg	12:26:49.51	0.07
A336	64.4	258	Pg	12:26:52.70	0.59
			Sg	27:00.69	-0.38
VYHS	76.5	282	Pg	12:26:54.41	0.13
			Sg	27:03.43	-1.50

493.

2017-11-29 time: 7:01:38.89 UTC ML= 1.0
 lat: 47.216N lon: 18.229E h= 0.0 km
 erh= 4.2km erz= ***km
 nr= 7 gap=130 rms=0.78
 Locality: Csőr
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	15.5	288	Pg	7:01:41.50	-0.16
			Sg	01:43.51	-0.30
CSKK	16.5	8	Pg	7:01:41.54	-0.30
			Sg	01:44.26	0.12
MPLH	52.5	264	Pg	7:01:49.15	0.88
PKB1	64.4	138	Pg	7:01:50.91	0.52
PKSM	116.0	164	Sg	7:02:13.02	-2.75

494.

2017-11-29 time: 9:44:33.61 UTC ML= 1.5
 lat: 48.588N lon: 20.782E h= 0.0 km
 erh= 1.7km erz= 2.6km
 nr= 11 gap=149 rms=0.37
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.8	242	Pg	9:44:37.75	-0.29
			Sg	44:41.37	-0.12
ABAH	46.8	134	Pg	9:44:42.31	0.34
			Sg	44:47.93	-0.56
CRVS	61.0	55	Pg	9:44:44.52	0.02
PSZ	99.4	222	Pg	9:44:52.12	0.76
			Sg	45:05.24	0.03
KOLS	116.1	71	eSg	9:45:10.40	-0.13
A336	137.8	253	Pn	9:44:57.36	-0.46
VYHS	144.1	266	Pn	9:44:58.42	-0.19
LTVH	157.6	148	Pn	9:45:00.73	0.43

495.

2017-11-30 time: 10:07:21.84 UTC ML= 0.9
 lat: 46.163N lon: 18.299E h= 0.0 km
 erh= 0.6km erz= 109km
 nr= 7 gap=196 rms=0.07
 Locality: Zobákpuszta
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.5	242	Pg	10:07:24.84	-0.12
			Sg	07:27.49	0.09
PKSM	27.0	78	Pg	10:07:26.73	0.07
			Sg	07:30.37	-0.05
MORH	27.3	78	Pg	10:07:26.75	0.04
			Sg	07:30.49	-0.02

PKSV 30.7 187 Sg 10:07:31.61 0.00

496.

2017-11-30 time: 10:41:06.15 UTC ML= 1.3
 lat: 47.116N lon: 18.051E h= 0.0 km
 erh= 1.4km erz= 533km
 nr= 11 gap=116 rms=0.43
 Locality: Vilyonya
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	15.9	355	Pg	10:41:08.66	-0.34
			Sg	41:11.33	0.11
TIH	26.8	207	Sg	10:41:15.01	0.32
CSKK	31.7	30	Pg	10:41:12.27	0.45
			Sg	41:16.91	0.67
MPLH	39.3	279	Pg	10:41:13.19	0.03
			Sg	41:18.43	-0.20
PKSG	40.0	40	Sg	10:41:18.12	-0.75
MORH	109.9	156	Pg	10:41:25.91	0.14
PKSM	110.2	156	Pg	10:41:25.90	0.07
			Sg	41:40.06	-1.12

497.

2017-11-30 time: 11:27:55.74 UTC ML= 1.2
 lat: 45.853N lon: 18.405E h= 0.0 km
 erh= 1.6km erz= 274km
 nr= 9 gap=264 rms=0.20
 Locality: Nagyharsány
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	12.5	288	Pg	11:27:57.91	-0.06
			Sg	27:59.91	0.21
KOVH	35.2	318	Pg	11:28:01.92	-0.11
			Sg	28:06.98	0.04
PKSM	43.9	25	Pg	11:28:03.57	0.00
			Sg	28:09.95	0.27
MORH	44.4	25	Pg	11:28:03.64	-0.02
			Sg	28:09.85	0.01
PKS9	82.1	353	Sg	11:28:20.62	-1.23

498.

2017-12-01 time: 8:24:58.99 UTC ML= 1.6
 lat: 47.352N lon: 18.418E h= 0.0 km
 erh= 2.2km erz= 890km
 nr= 11 gap=104 rms=0.72
 Locality: Gánt
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	4.9	335	Pg	8:24:59.73	-0.12
			Sg	25:00.31	-0.22
CSKK	12.0	276	Pg	8:25:01.10	-0.02
			Sg	25:02.88	0.09
PKST	30.8	250	Pg	8:25:04.55	0.06
			Sg	25:08.94	0.16
PKB5	87.6	164	Sg	8:25:28.08	1.26
PKB4	96.2	172	Sg	8:25:30.87	1.31
MORH	127.5	172	Sg	8:25:38.20	-1.31
PSZ	127.6	60	Sg	8:25:39.36	-0.17
PKSM	127.9	172	Sg	8:25:38.05	-1.59

499.

2017-12-01 time: 9:14:34.47 UTC ML= 1.1
 lat: 46.980N lon: 17.767E h= 0.0 km
 erh= 8.8km erz= 13.4km
 nr= 7 gap=179 rms=0.55
 Locality: Barnag
 Comments: probably explosion

Földrengés paraméterek

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
MPLH	27.3	321	Pg	9:14:39.64	-0.02
			Sg	14:43.61	-0.11
PKST	37.1	33	Pg	9:14:41.88	0.56
			Sg	14:46.31	-0.36
CSKK	56.7	41	Sg	9:14:51.60	-1.17
PKSG	65.8	46	Pg	9:14:47.11	0.76
PKSM	108.5	142	Pn	9:14:53.41	-0.34

500.

2017-12-01 time: 10:19:38.42 UTC ML= 2.0
 lat: 45.528N lon: 17.871E h= 0.5 km
 erh= 6.6km erz= 5.7km
 nr= 11 gap=242 rms=0.63
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	64.8	16	Pg	10:19:50.43	0.44
			Sg	19:59.49	0.47
PKSM	96.8	38	Pg	10:19:55.49	-0.20
			Sg	20:08.42	-0.75
MORH	97.2	38	Pg	10:19:55.53	-0.25
			Sg	20:08.93	-0.39
PKB4	121.7	28	Pg	10:20:00.01	-0.14
BEHE	134.8	321	Pn	10:20:00.86	-1.34
PKB5	136.2	29	Pn	10:20:03.23	0.86
PKB1	156.8	27	Pn	10:20:06.00	1.07
CRES	191.0	280	Pn	10:20:09.33	0.13

501.

2017-12-04 time: 7:04:31.76 UTC ML= 1.7
 lat: 47.337N lon: 18.404E h= 0.0 km
 erh= 5.9km erz= ***km
 nr= 6 gap=164 rms=0.86
 Locality: Zámoly
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	6.2	351	Pg	7:04:32.64	-0.23
			Sg	04:33.44	-0.29
CSKK	11.2	285	Pg	7:04:33.88	0.12
			Sg	04:35.54	0.22
PKB1	68.2	154	Sg	7:04:55.28	1.85
PKSM	126.4	172	Sg	7:05:10.31	-1.63

502.

2017-12-04 time: 9:30:51.97 UTC ML= 1.4
 lat: 48.585N lon: 20.804E h= 0.0 km
 erh= 2.1km erz= 4.7km
 nr= 9 gap=170 rms=0.60
 Locality: Tornanádaska
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	26.1	244	Pg	9:30:56.36	-0.27
			Sg	31:00.42	0.16
ABAH	45.5	135	Pg	9:31:00.39	0.30
			Sg	31:06.48	0.05
CRVS	59.8	54	Pg	9:31:02.96	0.31
			Sg	31:12.06	1.07
PSZ	100.3	222	Sg	9:31:23.70	-0.15
KOLS	114.7	70	eSg	9:31:27.50	-0.94
TRPA	138.2	111	Sn	9:31:33.39	-1.76

503.

2017-12-04 time: 10:22:54.28 UTC ML= 1.7
 lat: 47.859N lon: 19.149E h= 4.5 km
 erh= 1.4km erz= 1.4km
 nr= 7 gap=217 rms=0.15
 Locality: Nótincs
 Comments:

sta	dist	azm	phase	hr mn sec	res
PENC	12.6	128	Pg	10:22:56.54	-0.12
			Sg	22:58.60	0.08
A336	43.0	345	Pg	10:23:02.18	0.17
			Sg	23:07.89	-0.15
PSZ	56.2	83	Pg	10:23:04.13	-0.22
			Sg	23:12.34	0.15
KECS	121.3	55	ePn	10:23:16.00	0.14
			eSn	23:31.10	-1.60*

504.

2017-12-04 time: 10:57:56.59 UTC ML= 2.8
 lat: 48.525N lon: 17.646E h= 0.0 km
 erh= 5.7km erz= 7.9km
 nr= 8 gap=127 rms=0.61
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
SMOL	16.1	266	Pg	10:57:59.32	-0.15
MODS	32.0	238	ePg	10:58:02.60	0.29
			eSg	58:06.50	-0.27
KRUC	109.6	303	Pg	10:58:17.00	0.83
			Sg	58:31.02	-0.42
VRAC	116.4	318	Sg	10:58:32.70	-0.89
MORC	139.5	357	Sn	10:58:41.05	0.98
PENC	146.5	124	Pn	10:58:21.21	-0.68

505.

2017-12-04 time: 11:17:22.07 UTC ML= 1.6
 lat: 47.761N lon: 20.046E h= 7.6 km
 erh= 8.2km erz=18.0km
 nr= 5 gap=195 rms=0.56
 Locality: Halmajugra
 Comments:

sta	dist	azm	phase	hr mn sec	res
PSZ	20.9	327	Pg	11:17:25.76	-0.27
			Sg	17:28.51	-0.62
BSZH	53.9	162	Pg	11:17:32.61	0.82
			Sg	17:38.75	-0.63
PENC	57.4	273	Pg	11:17:32.73	0.32

506.

2017-12-05 time: 4:56:33.80 UTC ML= 1.7
 lat: 46.393N lon: 17.948E h= 10.0 km
 erh= 1.1km erz= 1.3km
 nr= 37 gap= 89 rms=0.65
 Locality: Fonó
 Comments:

sta	dist	azm	phase	hr mn sec	res
A265	12.3	287	Pg	4:56:36.61	-0.02
			Sg	56:38.91	0.08
A266	28.5	59	Pg	4:56:39.90	0.71
PKS9	33.3	50	Pg	4:56:40.76	0.74
			Sg	56:45.70	0.83
KOVH	35.8	161	Pg	4:56:41.08	0.64
			Sg	56:46.02	0.41
PKB4	51.7	77	Pg	4:56:43.59	0.39
			Sg	56:50.34	-0.20
TIH	56.6	356	Pg	4:56:44.14	0.08

Hypocenter Parameters

Földrengés paraméterek

Station	Dist	Azm	Phase	hr	mn	sec	res
PKSM	57.1	111	Sg	56:51.04			-1.02
			Pg	4:56:44.11			-0.04
			Sg	56:51.68			-0.54
MORH	57.1	110	Pg	4:56:44.15			-0.01
			Sg	56:51.55			-0.68
PKSV	60.7	157	Pg	4:56:44.34			-0.46
			Sg	56:52.73			-0.64
PKB5	64.5	70	Pg	4:56:45.66			0.20
			Sg	56:53.85			-0.70
PKB1	78.0	56	Pg	4:56:47.83			-0.01
			Sg	56:57.26			-1.53
BEHE	90.5	275	Pg	4:56:49.96			-0.11
			Sg	57:02.29			-0.47
MPLH	91.9	340	Pg	4:56:51.28			0.97
			Sg	57:02.75			-0.44
PKB3	95.9	88	Pg	4:56:51.41			0.38
			Sg	57:03.49			-0.97
PKST	96.6	4	Pg	4:56:50.98			-0.16
			Sg	57:02.72			-1.94
PKS2	97.8	84	Pg	4:56:52.40			1.03
			Sg	57:04.95			-0.11
PKB2	104.1	72	P*	4:56:52.87			0.42
			S*	57:06.11			-0.88
PKSG	116.1	17	Pn	4:56:54.53			0.49
			Sn	57:08.17			-1.65
KOGS	130.7	273	Sn	4:57:12.47			-0.58
PTJ	163.2	250	Sn	4:57:21.55			1.28

507.

2017-12-05 time: 9:24:26.53 UTC ML= 1.1
 lat: 45.777N lon: 18.491E h= 0.0 km
 erh= 1.8km erz= 435km
 nr= 7 gap=179 rms=0.29
 Locality: Croatia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSV	22.3	304	Pg	9:24:30.65			0.14
			Sg	24:33.22			-0.39
PKSM	49.7	14	Pg	9:24:35.72			0.32
			Sg	24:42.13			-0.20
MORH	50.2	14	Pg	9:24:35.83			0.34
			Sg	24:42.13			-0.35
FRGS	125.5	125	Pg	9:24:48.72			-0.21

508.

2017-12-05 time: 10:17:18.13 UTC ML= 1.5
 lat: 45.500N lon: 17.842E h= 0.0 km
 erh= 4.7km erz= 3.4km
 nr= 13 gap=243 rms=0.54
 Locality: Croatia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSV	53.7	37	Pg	10:17:28.15			0.43
			Sg	17:35.42			0.22
KOVH	68.4	17	Pg	10:17:31.68			1.34
			Sg	17:39.21			-0.66
PKSM	100.6	38	Pg	10:17:35.70			-0.39
			Sg	17:49.94			-0.16
MORH	101.1	38	Pg	10:17:35.64			-0.53
			Sg	17:50.14			-0.11
PKB4	125.5	28	Sg	10:17:57.57			-0.45
PTJ	153.3	287	Sn	10:18:04.23			-0.44
PKB1	160.5	27	Sn	10:18:06.82			0.54
CRES	189.4	281	Pn	10:17:49.16			0.39
			Sn	18:12.78			0.10

509.

2017-12-05 time: 11:35:44.95 UTC ML= 1.3
 lat: 48.675N lon: 19.891E h= 10.0 km
 erh= 2.3km erz= 3.1km
 nr= 11 gap= 74 rms=0.64
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
KECS	48.8	116	Pg	11:35:53.75			-0.09
LANE	61.3	330	Pg	11:35:56.55			0.52
VYHS	80.4	255	Pg	11:36:00.36			0.94
			Sg	36:09.83			-0.88
A336	82.3	233	Sg	11:36:11.10			-0.21
PSZ	84.2	180	Pg	11:36:00.31			0.22
			Sg	36:11.10			-0.80
NIE	88.2	20	Pg	11:36:00.97			0.17
			Sg	36:11.31			-1.86
PENC	108.3	205	Sn	11:36:18.81			-0.43
CRVS	118.1	78	ePn	11:36:05.90			0.47

510.

2017-12-05 time: 12:40:08.79 UTC ML= 1.5
 lat: 47.778N lon: 19.066E h= 0.0 km
 erh= 1.8km erz= 764km
 nr= 14 gap=105 rms=0.65
 Locality: Dunabogdány
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PENC	16.2	85	Pg	12:40:12.26			0.57
			Sg	40:14.04			0.09
A336	50.8	354	Pg	12:40:18.67			0.80
			Sg	40:24.54			-0.41
A338	59.5	296	Pg	12:40:20.78			1.36
PSZ	63.9	76	Pg	12:40:20.60			0.39
			Sg	40:28.23			-0.89
PKSG	66.5	230	Sg	12:40:30.02			0.08
CSKK	76.2	233	Sg	12:40:33.30			0.29
VYHS	81.4	348	Pg	12:40:22.84			-0.49
			Sg	40:34.29			-0.38
PKST	96.8	233	Pg	12:40:25.10			-0.98
			Sg	40:38.94			-0.62
PKB1	112.4	191	Pg	12:40:28.66			-0.21

511.

2017-12-05 time: 22:44:37.88 UTC ML= 1.8
 lat: 46.256N lon: 19.790E h= 8.1 km
 erh= 1.8km erz= 1.6km
 nr= 30 gap=114 rms=0.60
 Locality: Ruzsa
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKS6	42.0	336	Pg	22:44:45.52			0.01
			Sg	44:51.46			-0.01
PKB3	49.5	292	Pg	22:44:47.20			0.37
			Sg	44:54.25			0.44
PKS2	51.6	301	Pg	22:44:47.80			0.60
			Sg	44:55.23			0.76
PKB2	62.7	318	Pg	22:44:49.14			-0.03
			Sg	44:57.26			-0.73
MORH	88.5	267	Pg	22:44:53.60			-0.14
			Sg	45:05.70			-0.42
PKSM	88.7	267	Pg	22:44:53.74			-0.05
			Sg	45:06.16			-0.04
PKB5	89.4	295	Sg	22:45:05.53			-0.87
PKB4	95.1	286	Pg	22:44:55.26			0.34
			Sg	45:07.85			-0.36
PKB1	96.5	308	Pg	22:44:54.81			-0.36
			Sg	45:06.44			-2.22
PKS7	100.3	331	Pg	22:44:55.81			-0.04

Földrengés paraméterek

Hypocenter Parameters

		Sg	45:08.83	-1.04
PKS9	121.9 288	Pn	22:44:59.37	0.30
		Sn	45:15.68	0.07
FRGS	124.5 179	Pn	22:45:00.04	0.63
		Sn	45:15.17	-1.03
PKSV	125.8 251	Pn	22:45:00.67	1.11
KOVH	131.8 262	Sn	22:45:17.02	-0.80
BZS	158.5 117	Pn	22:45:03.16	-0.48
		Sn	45:22.21	-1.53
PKSG	165.4 320	Pn	22:45:05.79	1.29
		Sn	45:25.91	0.64
PSZ	185.0 2	Sn	22:45:29.99	0.37

512.

2017-12-06 time: 1:32:37.10 UTC ML= 1.0
 lat: 47.263N lon: 17.879E h= 3.3 km
 erh= 2.2km erz= 1.9km
 nr= 12 gap=181 rms=0.37
 Locality: Zirc
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	11.8	92	Pg	1:32:39.02	-0.26
			Sg	32:40.92	-0.07
MPLH	27.7	248	Pg	1:32:42.17	0.10
			Sg	32:45.49	-0.46
CSKK	31.0	69	Pg	1:32:42.57	-0.09
			Sg	32:46.69	-0.31
PKSG	41.3	70	Pg	1:32:44.71	0.22
			Sg	32:50.06	-0.20
PKB4	101.5	147	Pg	1:32:55.88	0.64
MORH	130.2	153	Pn	1:33:00.72	0.78
			Sn	33:17.40	-0.36
PKSM	130.5	153	Sn	1:33:17.52	-0.31

513.

2017-12-06 time: 9:53:41.96 UTC ML= 2.1
 lat: 48.859N lon: 20.485E h= 0.9 km
 erh= 1.9km erz= 2.7km
 nr= 17 gap= 98 rms=0.82
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	41.8	180	Pg	9:53:49.62	0.19
			Sg	53:55.36	0.11
NIE	63.5	349	Pg	9:53:54.50	1.20
			Sg	54:01.12	-1.02
CRVS	71.8	86	Pg	9:53:54.22	-0.55
			Sg	54:04.63	-0.14
LANS	81.2	294	Pg	9:53:56.06	-0.40
			Sg	54:06.95	-0.82
ABAH	83.8	138	Pg	9:53:56.84	-0.08
			Sg	54:07.83	-0.76
PSZ	113.4	203	Pg	9:54:02.67	0.46
			Sg	54:16.26	-1.74
PENC	148.6	217	Sn	9:54:27.20	-0.07
OJC	159.3	342	Pn	9:54:10.18	1.44
			Sn	54:29.86	0.23
TRPA	172.1	118	Pn	9:54:12.47	2.13
			Sn	54:32.62	0.14

514.

2017-12-06 time: 10:05:32.12 UTC ML= 1.2
 lat: 47.110N lon: 18.015E h= 10.0 km
 erh= 1.6km erz= 1.4km
 nr= 14 gap=112 rms=0.37
 Locality: Királyszentistván
 Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	16.6	5	Pg	10:05:34.77	-0.81

		Sg	05:37.73	-0.55
TIH	25.2 202	Pg	10:05:37.09	0.14
		Sg	05:40.65	-0.07
CSKK	33.7 33	Sg	10:05:43.46	0.17
MPLH	36.7 280	Pg	10:05:38.91	0.00
		Sg	05:44.78	0.57
PKSG	42.3 42	Pg	10:05:40.00	0.12
		Sg	05:46.75	0.82
MORH	110.5 154	Pn	10:05:51.71	0.06
PKSM	110.8 154	Pn	10:05:51.66	-0.03
		Sn	06:06.72	-0.23
KOVH	113.8 177	Pn	10:05:52.31	0.25
		Sn	06:07.24	-0.38

515.

2017-12-07 time: 9:10:19.06 UTC ML= 1.4
 lat: 46.118N lon: 18.044E h= 0.0 km
 erh= 2.3km erz= 605km
 nr= 14 gap=205 rms=0.51
 Locality: Bükkösd
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	5.5	128	Pg	9:10:20.20	0.16
			Sg	10:21.22	0.42
PKSV	30.2	148	Pg	9:10:23.71	-0.75
PKSM	47.3	77	Pg	9:10:27.45	-0.05
			Sg	10:33.65	-0.44
MORH	47.6	77	Pg	9:10:27.57	0.01
			Sg	10:34.19	0.00
PKS9	55.1	19	Pg	9:10:28.74	-0.16
PKB4	60.2	46	Pg	9:10:29.95	0.14
PKB5	75.1	45	Pg	9:10:33.55	1.08
			Sg	10:42.06	-0.87
TIH	87.6	352	Sg	9:10:43.87	-3.04
PKB1	93.7	38	Sg	9:10:49.15	0.30
PKST	126.8	360	Pg	9:10:41.89	0.20

516.

2017-12-08 time: 9:34:56.70 UTC ML= 0.6
 lat: 46.183N lon: 18.289E h= 0.0 km
 erh= 1.5km erz= 239km
 nr= 6 gap=208 rms=0.14
 Locality: Zobákpuszta
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	18.0	234	Sg	9:35:02.64	0.21
PKSM	27.4	83	Pg	9:35:01.55	-0.03
			Sg	35:05.54	0.14
MORH	27.6	83	Pg	9:35:01.45	-0.18
			Sg	35:05.60	0.12
PKSV	32.9	185	Sg	9:35:07.02	-0.14

517.

2017-12-08 time: 10:50:19.93 UTC ML= 1.7
 lat: 45.515N lon: 17.944E h= 0.0 km
 erh= 4.4km erz= 1.9km
 nr= 10 gap=336 rms=0.39
 Locality: Croatia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	47.9	30	Sg	10:50:36.63	1.47
KOVH	64.8	11	Pg	10:50:31.85	0.35
			Sg	50:40.30	-0.23
PKSM	94.5	35	Pg	10:50:36.64	-0.16
			Sg	50:49.41	-0.55
MORH	95.0	35	Pg	10:50:36.71	-0.18
			Sg	50:50.20	0.09
PKB4	120.4	25	Sg	10:50:57.91	-0.29
PKB5	134.7	27	Sn	10:51:02.48	0.13

Hypocenter Parameters

PKB1 155.5 25 Sn 10:51:07.36 0.39

518.

2017-12-08 time: 13:46:10.23 UTC ML= 1.4
 lat: 47.894N lon: 20.072E h= 0.0 km
 erh= 4.0km erz= 4.5km
 nr= 5 gap=275 rms=0.57
 Locality: Parád
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	13.6	282	Pg	13:46:12.54			-0.11
			Sg	46:15.34			0.80
PENC	60.3	259	Sg	13:46:28.36			-1.03
A336	88.5	295	Pg	13:46:26.07			0.04
PKSM	216.3	210	Sn	13:47:11.41			0.66

519.

2017-12-11 time: 10:57:50.07 UTC ML= 1.1
 lat: 48.802N lon: 21.168E h= 0.0 km
 erh= 1.9km erz= 743km
 nr= 9 gap= 95 rms=0.56
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CRVS	24.2	63	Pg	10:57:54.28			-0.12
			Sg	57:57.40			-0.37
ABAH	56.5	175	Pg	10:58:00.53			0.36
			Sg	58:07.20			-0.84
KECS	61.6	235	Sg	10:58:09.72			0.08
STHS	68.6	5	Sg	10:58:11.48			-0.38
KOLS	82.4	80	ePg	10:58:05.90			1.12
			eSg	58:15.50			-0.75
NIE	92.7	318	Sg	10:58:19.61			0.06

520.

2017-12-11 time: 11:00:29.85 UTC ML= 2.3
 lat: 48.073N lon: 16.943E h= 10.0 km
 erh= 3.3km erz= 2.4km
 nr= 12 gap=182 rms=0.69
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
ZST	18.1	41	ePg	11:00:33.90			0.36
			eSg	00:36.10			-0.32
MODS	41.6	37	ePg	11:00:37.60			0.11
			eSg	00:41.90			-1.55
A337	65.8	73	Pg	11:00:42.14			0.41
			Sg	00:50.45			-0.55
EGYH	78.6	158	Sg	11:00:54.57			-0.45
KRUC	117.1	340	Pn	11:00:51.15			0.94
			Sn	01:05.06			-1.03
VRAC	139.7	349	Sn	11:01:10.39			-0.72
VYHS	148.1	72	eSn	11:01:13.00			0.05
MORC	194.5	13	Sn	11:01:25.07			1.82

521.

2017-12-11 time: 12:00:48.86 UTC ML= 1.9
 lat: 48.804N lon: 21.601E h= 0.0 km
 erh= 2.4km erz= 782km
 nr= 7 gap=117 rms=0.51
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CRVS	15.0	317	Pg	12:00:50.81			-0.73
			Sg	00:53.79			0.16
KOLS	51.4	74	Sg	12:01:05.72			0.53

Földrengés paraméterek

ABAH 62.4 205 Sg 12:01:08.58 -0.13
 KECS 89.6 247 Pg 12:01:05.67 0.81
 TRPA 102.1 137 Pg 12:01:06.92 -0.17
 Sg 01:20.91 -0.40

522.

2017-12-11 time: 12:03:58.34 UTC ML= 1.9
 lat: 48.270N lon: 21.243E h= 0.0 km
 erh= 2.0km erz= 4.2km
 nr= 7 gap=169 rms=0.47
 Locality: Tállya
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
ABAH	3.0	356	Pg	12:03:59.19			0.32
KECS	60.9	293	Pg	12:04:09.03			-0.19
			Sg	04:16.92			-0.78
CRVS	72.2	13	Pg	12:04:10.94			-0.29
TRPA	97.6	99	Pg	12:04:15.54			-0.23
KOLS	106.0	46	eSg	12:04:32.60			0.58
A336	166.7	269	Pn	12:04:27.04			0.88

523.

2017-12-12 time: 0:17:22.47 UTC ML= 1.6
 lat: 47.379N lon: 18.218E h= 10.0 km
 erh= 3.3km erz= 1.9km
 nr= 16 gap=213 rms=0.74
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	3.7	119	Pg	0:17:24.08			-0.30
			Sg	17:24.66			-1.20
PKSG	13.1	84	Pg	0:17:25.40			-0.02
			Sg	17:27.49			-0.23
PKST	19.3	226	Pg	0:17:26.23			-0.12
			Sg	17:28.80			-0.57
BUD	61.9	79	Pg	0:17:33.29			-0.38
PKB1	79.2	147	Pg	0:17:37.85			1.12
			Sg	17:48.28			0.43
PKB5	95.7	156	Pg	0:17:40.34			0.69
			Sg	17:52.93			-0.12
PKB4	102.5	163	Pg	0:17:41.86			1.01
MORH	133.4	166	Pn	0:17:45.21			0.35
			Sn	18:00.22			-2.10
PKSM	133.7	166	Pn	0:17:45.12			0.22
			Sn	18:00.46			-1.94

524.

2017-12-12 time: 6:53:26.03 UTC ML= 1.8
 lat: 48.665N lon: 17.912E h= 0.0 km
 erh= 2.0km erz= 2.7km
 nr= 19 gap=118 rms=0.86
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
SMOL	39.4	245	Sg	6:53:38.39			-0.16
A337	47.7	191	Pg	6:53:35.53			0.99
			Sg	53:41.76			0.58
MODS	57.0	235	ePg	6:53:36.30			0.10
			eSg	53:43.10			-1.04
VYHS	70.8	106	Pg	6:53:39.86			1.18
			Sg	53:48.23			-0.31
A338	79.3	156	Sg	6:53:51.00			-0.24
A336	93.7	121	Sg	6:53:54.46			-1.35
KRUC	119.7	292	Sg	6:54:03.75			-0.32
VRAC	120.1	307	Pg	6:53:47.84			0.37
			Sg	54:03.31			-0.89
MORC	126.5	348	Sg	6:54:05.82			-0.42
PENC	140.8	134	Sn	6:54:09.16			-0.64
PKST	156.6	177	Sn	6:54:11.99			-1.32

Földrengés paraméterek

RONA 161.1 228 Pn 6:53:54.27 1.12
 Sn 54:13.57 -0.74
 CONA 172.8 242 Pn 6:53:55.85 1.25
 Sn 54:14.54 -2.35

525.

2017-12-12 time: 8:55:41.20 UTC ML= 1.8
 lat: 48.624N lon: 20.736E h= 0.0 km
 erh= 5.4km erz= ***km
 nr= 5 gap=190 rms=0.48
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.2	230	Pg	8:55:45.74	0.22
			Sg	55:48.70	-0.19
ABAH	52.2	134	Pg	8:55:49.71	-0.80
			Sg	55:58.44	0.66
CRVS	61.7	60	Pg	8:55:52.42	0.21

526.

2017-12-12 time: 9:54:31.33 UTC ML= 1.2
 lat: 47.104N lon: 18.017E h= 0.0 km
 erh= 1.4km erz= 505km
 nr= 11 gap=113 rms=0.41
 Locality: Királyszentistván
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	17.3	4	Pg	9:54:33.70	-0.72
			Sg	54:36.46	-0.37
TIH	24.6	203	Sg	9:54:39.46	0.32
CSKK	34.2	33	Pg	9:54:37.87	0.43
			Sg	54:42.72	0.51
MPLH	37.0	281	Pg	9:54:38.22	0.28
			Sg	54:43.19	0.10
PKSG	42.7	41	Pg	9:54:39.05	0.09
MORH	109.8	154	Pg	9:54:50.78	-0.15
PKSM	110.1	154	Pg	9:54:51.05	0.06
			Sg	55:05.40	-0.92

527.

2017-12-12 time: 10:01:05.12 UTC ML= 1.2
 lat: 47.583N lon: 18.430E h= 0.0 km
 erh= 2.1km erz= 692km
 nr= 9 gap= 96 rms=0.52
 Locality: Tatabánya
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	21.5	188	Pg	10:01:08.74	-0.21
			Sg	01:11.52	-0.42
CSKK	27.6	208	Pg	10:01:10.06	0.02
			Sg	01:14.40	0.52
BUD	46.0	104	Sg	10:01:19.64	-0.11
PKST	46.8	220	Sg	10:01:20.35	0.36
VYHS	105.7	17	Pg	10:01:24.79	0.79
			Sg	01:38.31	-0.42
MODS	123.0	316	eSg	10:01:42.80	-1.43

528.

2017-12-12 time: 10:04:07.59 UTC ML= 0.5
 lat: 47.273N lon: 18.240E h= 9.4 km
 erh= 2.1km erz= 1.9km
 nr= 6 gap=224 rms=0.07
 Locality: Kincsesbánya
 Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	10.2	9	Pg	10:04:10.04	-0.02

Hypocenter Parameters

Sg 04:11.88 -0.12
 PKST 15.6 264 Pg 10:04:10.81 -0.04
 Sg 04:13.49 0.10
 PKSG 17.5 41 Pg 10:04:11.15 0.02
 Sg 04:13.98 0.08

529.

2017-12-12 time: 16:28:31.12 UTC ML= 1.8
 lat: 47.776N lon: 18.334E h= 8.3 km
 erh= 2.0km erz= 2.3km
 nr= 21 gap=118 rms=0.74
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	4.4	339	Pg	16:28:32.78	-0.01
			Sg	28:33.56	-0.54
PKSG	42.9	174	Pg	16:28:39.61	0.68
CSKK	46.3	187	Pg	16:28:39.59	0.08
A339	51.2	277	Pg	16:28:40.70	0.33
			Sg	28:48.06	0.47
PKST	61.8	201	Pg	16:28:41.81	-0.44
			Sg	28:50.10	-0.83
A336	71.0	44	Pg	16:28:44.13	0.25
			Sg	28:53.51	-0.33
EGYH	85.3	242	Pg	16:28:46.27	-0.15
			Sg	28:57.82	-0.54
VYHS	88.1	25	Pg	16:28:47.14	0.22
			Sg	28:58.02	-1.23
MPLH	90.2	222	Pg	16:28:47.66	0.38
			Sg	28:59.50	-0.39
MODS	103.0	310	ePg	16:28:51.20	1.63
			eSg	29:02.90	-1.07
ZST	103.1	297	eSg	16:29:00.90	-3.10
PKB1	115.6	163	Pn	16:28:52.61	1.11
			Sn	29:05.86	-1.55

530.

2017-12-12 time: 23:05:34.58 UTC ML= 1.7
 lat: 47.778N lon: 18.329E h= 3.7 km
 erh= 1.6km erz= 2.9km
 nr= 21 gap=106 rms=0.62
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	4.1	344	Pg	23:05:35.83	0.27
			Sg	05:36.32	-0.01
A338	26.4	4	Pg	23:05:40.26	0.92
PKSG	43.2	174	Pg	23:05:42.85	0.52
			Sg	05:48.10	-0.27
CSKK	46.4	186	Pg	23:05:43.86	0.96
A339	50.7	276	Pg	23:05:43.89	0.23
			Sg	05:50.87	0.12
PKST	61.9	201	Pg	23:05:44.94	-0.71
			Sg	05:53.16	-1.12
A336	71.1	45	Pg	23:05:47.38	0.08
			Sg	05:56.48	-0.74
EGYH	85.0	242	Pg	23:05:49.60	-0.18
			Sg	06:00.80	-0.84
VYHS	88.1	25	Pg	23:05:50.32	-0.01
			Sg	06:00.88	-1.73
MPLH	90.1	221	Pg	23:05:50.78	0.10
			Sg	06:02.45	-0.78
MODS	102.6	310	ePg	23:05:52.90	-0.01
			eSg	06:04.20	-3.00*
PKB1	115.9	162	Pg	23:05:55.83	0.53
PKB2	140.9	151	Pn	23:05:59.45	0.74

Hypocenter Parameters

Földrengés paraméterek

531.

2017-12-13 time: 9:38:29.06 UTC ML= 1.5
 lat: 48.609N lon: 20.770E h= 0.0 km
 erh= 1.7km erz= 2.6km
 nr= 13 gap= 85 rms=0.52
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.2	236	Pg	9:38:33.74	0.18
			Sg	38:37.51	0.43
ABAH	49.1	135	Pg	9:38:38.18	0.35
			Sg	38:43.73	-0.95
CRVS	60.4	57	Pg	9:38:40.26	0.42
			Sg	38:48.06	-0.19
STHS	96.3	21	Pg	9:38:46.14	-0.11
PSZ	100.6	220	Pg	9:38:47.49	0.47
			Sg	39:00.13	-0.91
LANS	112.9	302	Pg	9:38:49.22	0.00
A336	137.6	252	Sn	9:39:11.49	-0.63
VYHS	143.4	265	Pn	9:38:54.43	0.46
			Sn	39:11.85	-1.54

532.

2017-12-13 time: 10:20:32.39 UTC ML= 1.4
 lat: 47.900N lon: 19.399E h= 0.0 km
 erh= 1.3km erz= 467km
 nr= 10 gap=129 rms=0.36
 Locality: Becske
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	15.0	216	Pg	10:20:34.92	-0.16
			Sg	20:37.13	-0.04
PSZ	37.1	87	Pg	10:20:39.13	0.11
			Sg	20:44.15	-0.03
A336	47.5	321	Pg	10:20:41.46	0.58
			Sg	20:47.64	0.14
VYHS	78.2	328	Pg	10:20:46.41	0.06
			Sg	20:56.12	-1.12
KECS	103.6	51	ePg	10:20:50.90	0.01
			eSg	21:04.40	-0.92

533.

2017-12-13 time: 11:31:23.81 UTC ML= 1.6
 lat: 45.883N lon: 18.418E h= 0.0 km
 erh= 4.8km erz= 684km
 nr= 10 gap=271 rms=0.53
 Locality: Villánykövesd
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	33.6	313	Pg	11:31:29.39	-0.43
			Sg	31:34.02	-0.48
PKSM	40.5	25	Pg	11:31:30.76	-0.27
			Sg	31:36.76	0.09
MORH	40.9	25	Pg	11:31:30.86	-0.26
			Sg	31:36.47	-0.36
PKS9	79.0	352	Pg	11:31:38.99	1.07
PKB5	82.9	17	Pg	11:31:39.41	0.80
PKS2	91.4	42	Pg	11:31:39.62	-0.51
PKB1	104.3	16	Pg	11:31:42.77	0.34

534.

2017-12-14 time: 9:15:16.33 UTC ML= 1.3
 lat: 48.667N lon: 20.352E h= 0.0 km
 erh= 1.8km erz= 715km
 nr= 12 gap= 82 rms=0.59
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.7	154	Pg	9:15:20.24	-0.14
			Sg	15:23.43	-0.11
NIE	83.7	358	Sg	9:15:42.20	-0.73
LANS	84.2	310	ePg	9:15:32.00	0.63
			eSg	15:42.40	-0.70
CRVS	85.7	72	Pg	9:15:31.56	-0.06
PSZ	89.9	202	Pg	9:15:32.82	0.44
			Sg	15:44.76	-0.13
STHS	105.9	38	ePg	9:15:35.20	-0.04
A336	111.1	244	Sg	9:15:51.01	-0.62
VYHS	113.5	260	Pg	9:15:37.56	0.97
			Sg	15:50.21	-2.18

535.

2017-12-14 time: 11:01:07.27 UTC ML= 1.4
 lat: 47.111N lon: 17.970E h= 0.0 km
 erh= 2.0km erz= 774km
 nr= 12 gap= 95 rms=0.63
 Locality: Kádárta
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	17.2	17	Pg	11:01:10.10	-0.24
			Sg	01:12.53	-0.21
TIH	24.1	194	Pg	11:01:11.62	0.04
MPLH	33.3	281	Sg	11:01:18.43	0.58
CSKK	35.7	38	Pg	11:01:13.66	0.02
			Sg	01:18.14	-0.47
PKB1	72.4	120	Sg	11:01:31.19	0.92
PKB5	81.9	134	Pg	11:01:22.74	0.85
			Sg	01:33.57	0.28
MORH	112.1	153	Pg	11:01:27.22	-0.06
			Sg	01:41.05	-1.84
KOVH	114.1	175	Sg	11:01:42.31	-1.22

536.

2017-12-15 time: 9:52:42.96 UTC ML= 1.5
 lat: 48.597N lon: 20.773E h= 0.0 km
 erh= 1.0km erz= 1.9km
 nr= 7 gap=151 rms=0.54
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.7	239	Pg	9:52:47.51	0.13
			Sg	52:51.43	0.61
ABAH	48.1	134	Pg	9:52:51.42	-0.12
			Sg	52:57.45	-0.79
CRVS	60.9	56	Pg	9:52:54.18	0.34
PSZ	99.8	221	Sg	9:53:15.00	0.33
VYHS	143.5	265	Sn	9:53:25.78	-1.55

537.

2017-12-15 time: 11:32:20.61 UTC ML= 1.9
 lat: 48.559N lon: 18.772E h= 6.7 km
 erh= 1.9km erz= 1.5km
 nr= 8 gap=246 rms=0.15
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr mn sec	res
VYHS	8.7	147	Pg	11:32:22.39	-0.18
			Sg	32:24.25	0.16
A336	40.0	155	Pg	11:32:28.04	0.19
			Sg	32:33.19	-0.31
A338	68.0	207	Pg	11:32:32.95	0.13
A337	80.7	244	Pg	11:32:34.96	-0.11
PENC	93.5	156	Pg	11:32:37.38	0.02
PSZ	109.7	131	Pg	11:32:40.26	0.02

Földrengés paraméterek

Hypocenter Parameters

538.

2017-12-17 time: 5:00:14.72 UTC ML= 1.7
 lat: 47.885N lon: 16.313E h= 10.0 km
 erh= 1.6km erz= 1.5km
 nr= 23 gap= 85 rms=0.68
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr mn sec	res
RONA	20.7	184	Pg	5:00:19.04	0.23
			Sg	00:21.69	-0.32
SOP	29.0	141	Pg	5:00:20.68	0.49
			Sg	00:24.22	-0.25
CONA	34.1	278	Pg	5:00:21.36	0.30
			Sg	00:25.73	-0.28
ZST	68.3	60	eSg	5:00:36.00	-0.65
MODS	90.0	53	ePg	5:00:31.20	0.31
			eSg	00:43.30	-0.21
ARSA	92.3	220	Pg	5:00:30.61	-0.68
			Sg	00:41.57	-2.65
EGYH	92.5	124	Pg	5:00:32.01	0.67
			Sg	00:43.79	-0.51
A337	117.1	70	Sn	5:00:50.70	-0.25
MPLH	121.8	131	Sn	5:00:52.83	0.83
KRUC	131.0	3	Pn	5:00:37.07	0.26
			Sn	00:52.75	-1.29
MOA	153.2	269	Pn	5:00:40.41	0.83
			Sn	00:58.60	-0.37
VRAC	159.6	7	Pn	5:00:40.96	0.59
			Sn	00:59.46	-0.93
VYHS	199.4	70	eSn	5:01:07.70	-1.53
BIOA	201.6	264	Pn	5:00:47.33	1.72

539.

2017-12-17 time: 19:43:16.41 UTC ML= 2.2
 lat: 48.690N lon: 22.347E h= 5.0 km
 erh= 1.7km erz= 1.7km
 nr= 15 gap=153 rms=0.52
 Locality: Ukraine
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOLS	27.6	349	Pg	19:43:20.94	-0.47
			Sg	43:25.47	0.16
TRPA	63.9	167	Pg	19:43:27.41	-0.44
			Sg	43:36.54	-0.23
CRVS	69.2	290	Pg	19:43:28.60	-0.20
			Sg	43:39.70	1.23
ABAH	92.9	242	Pg	19:43:32.99	-0.03
			Sg	43:45.21	-0.77
KWP	107.9	14	Pg	19:43:36.28	0.58
KECS	139.3	260	Pn	19:43:40.42	0.25
			Sn	43:58.23	-0.48
LTVH	148.9	193	Pn	19:43:41.96	0.58
			Sn	44:01.88	1.03
NIE	169.3	299	Sn	19:44:05.05	-0.33
VYHS	259.9	265	Pn	19:43:54.61	-0.61

540.

2017-12-18 time: 10:39:57.11 UTC ML= 1.4
 lat: 48.635N lon: 20.711E h= 0.0 km
 erh= 2.4km erz= 4.0km
 nr= 11 gap=120 rms=0.60
 Locality: Slovakia
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.7	225	Pg	10:40:01.17	-0.17
			Sg	40:03.95	-0.70
ABAH	54.3	134	Pg	10:40:07.86	1.05
			Sg	40:13.84	-0.54
CRVS	62.6	62	Pg	10:40:08.14	-0.15

			Sg	40:16.43	-0.59
PSZ	100.1	217	Pg	10:40:15.25	0.26
			Sg	40:28.59	-0.35
LANS	107.7	302	Pg	10:40:16.89	0.56
VYHS	139.3	264	Pn	10:40:22.21	0.70
			Sn	40:39.41	-1.13

541.

2017-12-18 time: 11:51:04.02 UTC ML= 2.0
 lat: 46.939N lon: 17.141E h= 13.0 km
 erh= 4.8km erz= 2.2km
 nr= 14 gap=268 rms=0.73
 Locality: Kisgörbő
 Comments:

sta	dist	azm	phase	hr mn sec	res
MPLH	39.7	50	Pg	11:51:10.80	-0.67
			Sg	51:18.13	0.85
TIH	57.4	94	Pg	11:51:14.79	0.26
			Sg	51:23.22	0.49
PKST	76.5	62	Pg	11:51:16.82	-1.06
			Sg	51:27.62	-1.07
CSKK	97.1	61	S*	11:51:35.73	0.91
PKSG	107.2	62	Pn	11:51:23.06	0.29
			Sn	51:37.36	-0.04
KOVH	119.8	142	Pn	11:51:23.77	-0.57
PKB1	127.1	98	Pn	11:51:26.08	0.84
			Sn	51:41.54	-0.25
PKSM	140.6	125	Pn	11:51:27.95	1.02
			Sn	51:43.88	-0.91

542.

2017-12-18 time: 11:54:07.98 UTC ML= 1.3
 lat: 46.880N lon: 17.236E h= 8.4 km
 erh= 5.0km erz= 4.2km
 nr= 8 gap=271 rms=0.21
 Locality: Zalaszentő
 Comments:

sta	dist	azm	phase	hr mn sec	res
MPLH	39.7	36	Pg	11:54:15.32	0.10
			Sg	54:20.89	0.03
PKST	73.9	55	Pg	11:54:21.00	-0.25
PKB4	113.0	112	Sn	11:54:44.21	0.54
MORH	130.9	124	Pn	11:54:30.30	0.05
			Sn	54:47.40	-0.23
PKSM	130.9	125	Pn	11:54:30.38	0.12
			Sn	54:47.46	-0.19

543.

2017-12-19 time: 4:27:28.39 UTC ML= 1.6
 lat: 46.074N lon: 16.457E h= 5.4 km
 erh= 3.0km erz= 3.5km
 nr= 9 gap=134 rms=0.54
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
PTJ	43.2	243	Pg	4:27:36.56	0.40
			Sg	27:41.52	-0.71
KOGS	44.5	339	Pg	4:27:36.66	0.27
			Sg	27:41.57	-1.07
ZAG	45.1	233	Sg	4:27:43.23	0.42
CRS	82.3	250	Pg	4:27:43.75	0.64
			Sg	27:54.03	-0.57
PKSV	140.7	98	Pn	4:27:52.01	-0.26
ARSA	149.0	331	Sn	4:28:12.84	0.09

Hypocenter Parameters

Földrengés paraméterek

544.
 2017-12-19 time: 9:31:00.99 UTC ML= 1.3
 lat: 48.570N lon: 20.802E h= 0.0 km
 erh= 1.8km erz= 2.9km
 nr= 15 gap= 90 rms=0.68
 Locality: Tornanádaska
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	25.3	247	Pg	9:31:05.24			-0.26
			Sg		31:08.81		-0.21
ABAH	44.5	133	Pg	9:31:09.41			0.48
			Sg		31:15.49		0.36
CRVS	60.9	53	Pg	9:31:12.05			0.18
			Sg		31:19.66		-0.70
PSZ	99.0	223	Pg	9:31:19.08			0.42
			Sg		31:32.23		-0.22
NIE	100.9	339	Pg	9:31:21.47			2.47
			Sg		31:32.74		-0.32
KOLS	115.5	70	Sg	9:31:37.39			-0.30
A336	138.7	254	Pn	9:31:25.16			-0.15
			Sn		31:44.09		-0.19
VYHS	145.4	267	Pn	9:31:25.90			-0.25
			Sn		31:43.60		-2.18

545.

2017-12-19 time: 10:17:44.56 UTC ML= 1.8
 lat: 48.541N lon: 20.791E h= 0.0 km
 erh= 2.4km erz= 321km
 nr= 5 gap=235 rms=0.15
 Locality: Bódvalenke
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	23.4	254	Pg	10:17:48.73			-0.01
			Sg		17:51.77		-0.24
ABAH	42.9	129	Pg	10:17:52.33			0.10
			Sg		17:58.08		-0.13
PSZ	96.0	224	Sg	10:18:15.33			0.25

546.

2017-12-19 time: 10:39:36.37 UTC ML= 1.2
 lat: 46.244N lon: 18.464E h= 0.0 km
 erh= 1.7km erz= 664km
 nr= 11 gap=134 rms=0.54
 Locality: Kismányok
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSM	14.1	105	Pg	10:39:38.73			-0.16
			Sg		39:41.18		0.32
MORH	14.2	103	Pg	10:39:38.68			-0.23
			Sg		39:41.28		0.39
PKB4	30.1	21	Sg	10:39:46.01			0.09
KOVH	33.0	238	Pg	10:39:42.50			0.23
			Sg		39:46.68		-0.18
PKB5	44.3	28	Pg	10:39:43.92			-0.35
			Sg		39:50.09		-0.35
PKB1	65.1	23	Sg	10:39:58.48			1.40
PKST	117.5	344	Sg	10:40:11.62			-2.11

547.

2017-12-19 time: 11:36:35.16 UTC ML= 1.2
 lat: 48.578N lon: 20.785E h= 0.0 km
 erh= 1.7km erz= 2.8km
 nr= 8 gap=148 rms=0.38
 Locality: Tornanádaska
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	24.5	244	Pg	11:36:39.58			0.05
			Sg		36:43.02		0.07
ABAH	46.0	133	Pg	11:36:43.78			0.41
			Sg		36:49.68		-0.10
CRVS	61.4	54	Pg	11:36:46.35			0.23
			Sg		36:54.19		-0.49
VYHS	144.2	266	Pn	11:37:00.19			0.02
			Sn		37:18.23		-1.46

548.

2017-12-19 time: 13:02:04.46 UTC ML= 1.4
 lat: 47.856N lon: 16.044E h= 10.0 km
 erh= 2.7km erz= 2.5km
 nr= 13 gap= 78 rms=0.71
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CONA	15.9	301	Pg	13:02:07.70			-0.11
RONA	25.7	133	Pg	13:02:09.61			0.23
			Sg		02:13.22		0.01
SOP	43.0	116	Pg	13:02:12.26			-0.09
			Sg		02:18.39		-0.12
ARSA	77.9	210	Pg	13:02:17.97			-0.51
			Sg		02:28.25		-1.17
MOA	133.1	270	Pn	13:02:28.79			1.98
			Sn		02:44.85		0.61
KRUC	136.6	11	Pn	13:02:27.98			0.73
			Sn		02:44.08		-0.95
VRAC	166.5	14	Sn	13:02:50.93			-0.74
A338	173.4	84	Sn	13:02:53.38			0.19

549.

2017-12-19 time: 13:05:03.68 UTC ML= 1.0
 lat: 47.057N lon: 18.024E h= 0.0 km
 erh= 1.7km erz= 658km
 nr= 12 gap=106 rms=0.54
 Locality: Balatonfűzfő
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
TIH	20.1	210	Sg	13:05:10.74			0.67
PKST	22.5	2	Pg	13:05:07.63			-0.06
			Sg		05:10.88		0.06
CSKK	38.5	28	Sg	13:05:15.47			-0.44
MPLH	38.9	289	Sg	13:05:16.09			0.05
PKB5	74.7	133	Sg	13:05:28.46			1.03
PKB4	76.4	145	Sg	13:05:28.42			0.44
MORH	104.9	153	Pg	13:05:22.20			-0.20
			Sg		05:36.72		-0.29
PKSM	105.2	153	Pg	13:05:22.91			0.45
			Sg		05:36.22		-0.89
KOVH	107.8	177	Sg	13:05:36.89			-1.06

550.

2017-12-19 time: 19:27:49.94 UTC ML= 1.8
 lat: 46.532N lon: 16.670E h= 8.8 km
 erh= 2.9km erz= 1.9km
 nr= 8 gap=127 rms=0.45
 Locality: Lispezsentadorján
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
KOGS	33.5	254	Pg	19:27:56.35			0.22
			Sg		28:01.07		0.11
MPLH	97.1	43	Pg	19:28:07.33			-0.02
			Sg		28:20.29		-0.65
ARSA	118.4	312	Sn	19:28:27.14			0.41
CRES	122.2	230	Pn	19:28:11.07			0.00
			Sn		28:26.55		-1.01
PKSM	155.8	103	Sn	19:28:35.82			0.80

Földrengés paraméterek

Hypocenter Parameters

551.

2017-12-19 time: 19:28:40.58 UTC ML= 1.8
 lat: 46.455N lon: 16.733E h= 10.0 km
 erh= 2.4km erz= 1.9km
 nr= 24 gap=113 rms=0.88
 Locality: Becsehely
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
KOGS	37.1	269	Pg	19:28:48.05			0.61
			Sg	28:53.12			0.32
PTJ	85.9	224	Pg	19:28:55.95			-0.08
			Sg	29:07.84			-0.24
GOLS	98.7	240	iPg	19:28:58.40			0.10
			iSg	29:11.17			-0.96
MPLH	100.6	38	Pg	19:28:58.21			-0.42
			Sg	29:11.53			-1.17
KOVH	112.9	111	Pn	19:29:00.57			0.15
			Sn	29:14.95			-0.94
CRES	120.9	235	Pn	19:29:01.60			0.19
			Sn	29:17.13			-0.52
ARSA	127.8	314	Pn	19:29:02.41			0.13
			Sn	29:18.93			-0.27
SOKA	132.7	281	Pn	19:29:02.63			-0.26
			Sn	29:17.72			-2.56
PKST	133.6	48	Sn	19:29:20.75			0.28
RONA	142.3	347	Pn	19:29:04.42			0.34
			Sn	29:20.41			-2.00
PKB4	143.7	88	Sn	19:29:23.89			1.16
OBKA	167.9	272	Pn	19:29:08.89			1.62
			Sn	29:30.26			2.18
CONA	176.6	338	Pn	19:29:11.17			2.81
			Sn	29:31.14			1.11

552.

2017-12-19 time: 19:30:50.65 UTC ML= 1.5
 lat: 46.533N lon: 16.678E h= 10.0 km
 erh= 4.5km erz= 2.9km
 nr= 7 gap=127 rms=0.63
 Locality: Lispezsentadorján
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
KOGS	34.2	254	Pg	19:30:57.45			0.45
			Sg	31:01.84			-0.12
MPLH	96.6	43	Pg	19:31:07.97			-0.02
			Sg	31:20.72			-0.80
ARSA	118.8	312	Sn	19:31:27.72			0.47
CRES	122.8	230	Sn	19:31:26.98			-1.16
PKSM	155.2	103	Sn	19:31:36.44			1.10

553.

2017-12-19 time: 19:42:36.99 UTC ML= 1.3
 lat: 46.550N lon: 16.648E h= 10.0 km
 erh= 3.3km erz= 1.9km
 nr= 6 gap=139 rms=0.32
 Locality: Maróc
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
KOGS	32.5	250	Pg	19:42:43.22			0.16
			Sg	42:48.06			0.26
MPLH	96.8	45	Sg	19:43:07.54			-0.39
EGYH	109.6	28	Sn	19:43:11.72			0.17
CRES	122.2	229	Sn	19:43:13.74			-0.61
PKSM	157.9	104	Sn	19:43:22.54			0.26

554.

2017-12-19 time: 19:49:42.68 UTC ML= 1.6
 lat: 46.495N lon: 16.665E h= 7.6 km
 erh= 2.4km erz= 1.9km
 nr= 11 gap=118 rms=0.60
 Locality: Szentmargitfalva
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
KOGS	32.3	261	Pg	19:49:49.27			0.67
			Sg	49:54.02			0.80
PTJ	85.7	220	Pg	19:49:58.06			0.01
			Sg	50:09.34			-0.70
MPLH	100.4	42	Pg	19:50:00.36			-0.31
			Sg	50:13.71			-0.99
CRES	119.3	231	Sn	19:50:19.44			-0.51
ARSA	121.0	314	Sn	19:50:20.33			0.02
PKB4	148.9	90	Sn	19:50:26.01			-0.49
PKSM	155.4	102	Sn	19:50:28.73			0.78
MORH	155.5	102	Sn	19:50:28.78			0.81

555.

2017-12-20 time: 8:01:16.98 UTC ML= 1.3
 lat: 47.086N lon: 17.968E h= 0.0 km
 erh= 2.0km erz= 7.3km
 nr= 15 gap= 91 rms=0.74
 Locality: Litér
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	19.8	15	Pg	8:01:20.67			0.15
			Sg	01:23.19			-0.09
TIH	21.5	195	Pg	8:01:22.13			1.31
MPLH	33.8	286	Sg	8:01:26.59			-1.14
CSKK	37.9	36	Pg	8:01:24.15			0.40
			Sg	01:28.50			-0.53
PKSG	46.7	43	Sg	8:01:31.22			-0.59
PKB4	81.6	143	Sg	8:01:43.51			0.59
PKB2	107.4	115	Sg	8:01:50.73			-0.38
MORH	109.8	152	Pg	8:01:36.88			0.30
			Sg	01:50.54			-1.33
PKSM	110.1	152	Pg	8:01:36.98			0.35
			Sg	01:50.59			-1.37
KOVH	111.4	175	Sg	8:01:52.20			-0.20
PSZ	172.1	57	Pn	8:01:46.52			1.05

556.

2017-12-20 time: 9:09:30.74 UTC ML= 0.8
 lat: 47.361N lon: 18.255E h= 8.8 km
 erh= 3.3km erz= 1.7km
 nr= 8 gap=184 rms=0.25
 Locality: Csókakő
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	0.5	59	Pg	9:09:32.22			-0.09
			Sg	09:32.64			-0.89
PKSG	10.8	71	Pg	9:09:33.50			0.28
			Sg	09:35.27			0.11
PKST	20.2	236	Pg	9:09:34.83			0.16
			Sg	09:37.72			-0.01
MORH	130.7	167	Sn	9:10:10.13			-0.15
PKSM	131.1	167	Sn	9:10:10.25			-0.12

Hypocenter Parameters

Földrengés paraméterek

557.
 2017-12-20 time: 10:35:55.29 UTC ML= 1.8
 lat: 48.578N lon: 20.766E h= 0.0 km
 erh= 3.1km erz= 4.1km
 nr= 13 gap= 90 rms=1.06
 Locality: Tornanádaska
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.3	243	Pg	10:35:59.96	0.52
			Sg	36:03.21	0.52
ABAH	47.0	132	Pg	10:36:04.48	0.79
			Sg	36:10.09	-0.15
CRVS	62.5	55	Pg	10:36:06.74	0.28
			Sg	36:14.79	-0.37
PSZ	97.9	221	Pg	10:36:13.12	0.35
			Sg	36:25.51	-0.89
STHS	99.5	21	Pg	10:36:13.18	0.11
KOLS	117.6	70	Sg	10:36:31.25	-1.43
TRPA	140.5	111	Sn	10:36:36.99	-2.01
VYHS	142.8	266	Sn	10:36:37.51	-2.00
OJC	195.6	339	Pn	10:36:28.91	2.20

558.
 2017-12-20 time: 11:36:07.74 UTC ML= 0.8
 lat: 46.121N lon: 18.087E h= 0.0 km
 erh= 2.2km erz= 306km
 nr= 7 gap=232 rms=0.22
 Locality: Abaliget
 Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	3.8	165	Pg	11:36:08.23	-0.19
			Sg	36:09.19	0.23
PKSV	28.9	154	Sg	11:36:16.84	-0.09
PKSM	44.0	77	Pg	11:36:15.45	-0.15
			Sg	36:21.50	-0.22
MORH	44.3	76	Pg	11:36:15.81	0.16
PKB1	91.5	36	Sg	11:36:37.24	0.43

559.
 2017-12-20 time: 11:39:30.61 UTC ML= 1.5
 lat: 45.773N lon: 17.251E h= 10.0 km
 erh= 6.4km erz= 1.9km
 nr= 11 gap=192 rms=0.49
 Locality: Croatia
 Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	74.5	62	Pg	11:39:44.93	0.89
			Sg	39:54.60	0.09
PKSV	78.8	81	Pg	11:39:44.79	0.00
			Sg	39:54.78	-1.08
PTJ	101.5	278	Pg	11:39:48.69	-0.13
			Sg	40:02.45	-0.57
PKSM	118.2	66	Pn	11:39:51.10	0.00
			Sn	40:06.34	-0.75
MORH	118.6	65	Pn	11:39:51.36	0.21
			Sn	40:07.23	0.06
CREC	139.7	272	Pn	11:39:54.25	0.47

560.
 2017-12-20 time: 12:21:50.52 UTC ML= 1.8
 lat: 46.789N lon: 17.203E h= 8.6 km
 erh= 3.5km erz= 1.8km
 nr= 12 gap=253 rms=0.60
 Locality: Cserszegtomaj
 Comments:

sta	dist	azm	phase	hr mn sec	res
MPLH	49.5	31	Pg	12:21:58.93	-0.56
			Sg	22:05.78	-0.70
TIH	54.1	77	Sg	12:22:07.94	0.02
PKST	82.0	50	Pg	12:22:04.89	-0.35
			Sg	22:17.20	0.48
CSKK	102.6	52	Sg	12:22:23.89	0.65
KOVH	104.0	139	Pg	12:22:10.28	1.12
			Sg	22:23.94	0.24
PKSG	112.3	53	Sn	12:22:26.29	0.27
PKB1	121.4	90	Sn	12:22:28.33	0.31
MORH	127.7	120	Sn	12:22:28.74	-0.69
PKSM	127.7	120	Sn	12:22:28.56	-0.88

561.
 2017-12-20 time: 14:00:58.47 UTC ML= 2.2
 lat: 48.442N lon: 17.248E h= 5.5 km
 erh= 3.2km erz= 4.0km
 nr= 10 gap=116 rms=0.71
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr mn sec	res
SMOL	15.6	59	Pg	14:01:01.06	-0.36
ZST	29.3	202	Pg	14:01:02.77	-1.03
			Sg	01:08.40	0.44
KRUC	93.2	318	Pg	14:01:15.16	0.01
			Sg	01:28.74	0.58
VRAC	107.7	334	Pg	14:01:17.39	-0.34
			Sg	01:33.49	0.74
VYHS	117.6	87	Pn	14:01:18.92	-0.54
			Sn	01:35.80	-0.03
A336	131.8	100	Pn	14:01:23.02	1.78

562.
 2017-12-21 time: 13:04:31.08 UTC ML= 1.8
 lat: 47.862N lon: 16.071E h= 5.5 km
 erh= 2.7km erz= 2.4km
 nr= 16 gap=104 rms=0.92
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr mn sec	res
CONA	17.3	295	Pg	13:04:34.10	-0.21
			Sg	04:36.85	0.01
RONA	24.8	137	Pg	13:04:35.97	0.36
			Sg	04:39.64	0.49
SOP	41.6	119	Sg	13:04:43.70	-0.73
ARSA	79.5	211	Pg	13:04:44.91	-0.41
			Sg	04:54.39	-2.04
EGYH	106.9	118	Sg	13:05:07.62	2.50
MPLH	134.8	125	Sn	13:05:11.36	-0.91
MOA	135.1	269	Pn	13:04:54.35	0.09
			Sn	05:11.86	-0.47
KRUC	135.5	10	Pn	13:04:54.36	0.05
			Sn	05:11.43	-1.00
VRAC	165.3	13	Sn	13:05:19.77	0.72
BIOA	183.3	264	Pn	13:05:01.93	1.66
			Sn	05:24.53	1.49

563.
 2017-12-22 time: 10:44:27.53 UTC ML= 1.9
 lat: 48.386N lon: 17.016E h= 2.3 km
 erh= 5.6km erz=31.9km
 nr= 6 gap=180 rms=0.36
 Locality: Slovakia
 Comments:

sta	dist	azm	phase	hr mn sec	res
ZST	22.0	163	Pg	10:44:31.36	-0.12
			Sg	44:34.21	-0.35
KRUC	88.0	329	Pg	10:44:43.46	0.21

Földrengés paraméterek

Hypocenter Parameters

VRAC 107.2 343 Sg 44:55.14 -0.37
Pg 10:44:47.33 0.65
Sg 45:01.34 -0.27

564.

2017-12-22 time: 22:06:53.40 UTC ML= 2.0
lat: 48.269N lon: 16.776E h= 4.4 km
erh= 1.3km erz= 1.5km
nr= 33 gap= 67 rms=0.72
Locality: Austria
Comments:

sta	dist	azm	phase	hr mn sec	res
ZST	25.6	108	Pg	22:06:58.42	0.38
			Sg	07:01.48	-0.17
MODS	39.0	73	ePg	22:07:00.70	0.29
			eSg	07:05.40	-0.47
SMOL	55.5	61	eSg	22:07:11.20	0.10
SOP	67.1	194	Pg	22:07:05.17	-0.24
RONA	72.7	210	Pg	22:07:06.36	-0.05
			Sg	07:15.57	-0.98
A337	75.3	92	Sg	22:07:17.15	-0.24
CONA	77.9	241	Pg	22:07:07.80	0.46
			Sg	07:17.49	-0.72
A339	81.8	127	Pg	22:07:08.65	0.62
			Sg	07:19.52	0.08
KRUC	92.6	342	Pg	22:07:10.46	0.51
			Sg	07:21.74	-1.12
VRAC	116.4	353	Pg	22:07:13.87	-0.33
			Sg	07:28.38	-2.05
A338	120.7	104	Pn	22:07:14.94	0.02
			Sn	07:30.31	-1.40
SRO	125.3	114	ePn	22:07:15.70	0.20
			eSn	07:30.30	-2.44
MPLH	134.9	155	Sn	22:07:34.08	-0.79
PKST	146.6	140	Pn	22:07:19.32	1.16
ARSA	147.1	220	Pn	22:07:19.50	1.28
VYHS	154.7	81	ePn	22:07:19.00	-0.16
			eSn	07:38.80	-0.45
A336	165.2	91	Pn	22:07:21.15	0.68
			Sn	07:42.53	0.95
MOA	192.8	256	Pn	22:07:23.74	-0.18
			Sn	07:46.62	-1.10
ZVC	230.0	304	eSn	22:07:58.50	2.53
KHC	254.2	292	ePn	22:07:33.60	2.03
			eSn	08:03.00	1.66

565.

2017-12-22 time: 22:49:25.38 UTC ML= 1.8
lat: 48.286N lon: 16.822E h= 10.0 km
erh= 2.7km erz= 2.9km
nr= 9 gap=144 rms=0.50
Locality: Austria
Comments:

sta	dist	azm	phase	hr mn sec	res
ZST	23.2	116	Pg	22:49:29.99	0.11
			Sg	49:33.07	-0.33
MODS	35.2	74	ePg	22:49:32.40	0.49
			eSg	49:37.10	0.10
SOP	69.9	196	Pg	22:49:37.70	-0.28
KRUC	91.8	340	Pg	22:49:42.39	0.53
			Sg	49:53.64	-1.08
VRAC	114.9	352	Pn	22:49:45.83	0.37
			Sn	50:00.37	-0.75

566.

2017-12-22 time: 22:55:21.93 UTC ML= 2.2
lat: 48.271N lon: 16.783E h= 7.4 km
erh= 1.4km erz= 1.4km
nr= 26 gap= 67 rms=0.67
Locality: Austria
Comments:

sta	dist	azm	phase	hr mn sec	res
ZST	25.1	109	Pg	22:55:26.88	0.27
			Sg	55:29.84	-0.42
MODS	38.4	73	ePg	22:55:29.20	0.29
			eSg	55:33.90	-0.46
SMOL	54.9	61	eSg	22:55:38.80	-0.74
SOP	67.5	194	Pg	22:55:33.82	-0.23
RONA	73.2	210	Pg	22:55:35.16	0.09
			Sg	55:44.09	-1.22
CONA	78.5	241	Pg	22:55:36.58	0.57
			Sg	55:45.97	-1.03
A339	81.5	127	Pg	22:55:36.95	0.41
KRUC	92.5	342	Pg	22:55:38.77	0.27
			Sg	55:50.37	-1.05
VRAC	116.2	353	Pn	22:55:42.59	0.08
			Sn	55:56.89	-1.67
A338	120.2	104	Pn	22:55:43.34	0.33
			Sn	55:57.97	-1.47
SRO	124.9	114	Pn	22:55:44.03	0.43
ARSA	147.6	220	Pn	22:55:48.02	1.59
			Sn	56:06.04	0.50
TREC	148.5	320	eSn	22:56:05.20	-0.52
VYHS	154.1	81	ePn	22:55:47.70	0.47
			eSn	56:07.30	0.34
MORC	176.4	18	Sn	22:56:12.75	0.82
MOA	193.4	256	Pn	22:55:52.58	0.44
			Sn	56:15.75	0.06

567.

2017-12-23 time: 0:46:02.98 UTC ML= 2.1
lat: 48.268N lon: 16.780E h= 8.9 km
erh= 1.2km erz= 1.2km
nr= 38 gap= 67 rms=0.71
Locality: Austria
Comments:

sta	dist	azm	phase	hr mn sec	res
ZST	25.2	108	ePg	0:46:08.00	0.25
			eSg	46:10.80	-0.68
MODS	38.7	72	ePg	0:46:10.40	0.34
			eSg	46:15.10	-0.49
SMOL	55.2	60	Pg	0:46:13.30	0.33
			Sg	46:19.37	-1.39
SOP	67.1	194	Pg	0:46:14.99	-0.07
			Sg	46:22.28	-2.21
RONA	72.8	210	Pg	0:46:16.23	0.16
			Sg	46:24.93	-1.36
A337	75.0	92	Pg	0:46:17.01	0.55
			Sg	46:26.79	-0.19
CONA	78.2	241	Pg	0:46:17.20	0.17
			Sg	46:27.20	-0.78
A339	81.5	127	Pg	0:46:18.17	0.55
			Sg	46:29.27	0.24
KRUC	92.7	342	Pg	0:46:20.06	0.45
			Sg	46:31.58	-1.00
EGYH	103.2	156	Pg	0:46:21.68	0.20
			Sg	46:34.50	-1.41
VRAC	116.5	353	Pn	0:46:23.72	0.32
			Sn	46:37.96	-1.38
A338	120.3	104	Pn	0:46:23.93	0.05
			Sn	46:39.15	-1.04
SRO	125.0	114	ePn	0:46:25.20	0.73
			eSn	46:39.30	-1.93
MPLH	134.7	155	Pn	0:46:25.69	0.01
			Sn	46:43.45	0.07

Hypocenter Parameters

Földrengés paraméterek

ARSA 147.3 220	Pn	0:46:29.03	1.79																	
	Sn	46:46.52	0.35																	
TREC 148.6 320	eSn	0:46:45.90	-0.56	ZST	25.3	105	ePg	1:27:24.20	0.15											
VYHS 154.3 81	Pn	0:46:28.24	0.12				eSg	27:27.30	-0.37											
PKSG 155.0 129	Pn	0:46:28.36	0.15	MODS	39.6	70	ePg	1:27:26.60	0.03											
A336 164.8 91	Pn	0:46:30.52	1.09				eSg	27:31.30	-0.85											
MOA 193.1 256	Pn	0:46:33.71	0.75	SMOL	56.4	59	Pg	1:27:30.05	0.51											
	Sn	46:56.30	-0.05				Sg	27:37.07	-0.38											
BIOA 243.2 255	Pn	0:46:39.97	0.77	SOP	65.5	194	Pg	1:27:31.19	0.04											
	Sn	47:07.28	-0.18	RONA	71.3	210	Pg	1:27:32.50	0.32											
							Sg	27:41.47	-0.67											
568.																				
2017-12-23 time: 1:02:59.83 UTC ML= 2.3											A337 75.5 91									
lat: 48.271N lon: 16.768E h= 4.0 km											CONA 77.0 242									
erh= 1.2km erz= 1.4km											A339 81.0 126									
nr= 45 gap= 49 rms=0.77											KRUC 94.0 343									
Locality: Austria											EGYH 102.0 156									
Comments:											VRAC 117.9 354									
sta	dist	azm	phase	hr	mn	sec	res													
ZST	26.2	109	ePg	1:03:05.10			0.54	A338	120.5	103	Pn	1:27:40.74	0.08							
			eSg	03:08.00			-0.25				Sn	27:55.40	-1.84							
MODS	39.4	73	ePg	1:03:07.50			0.60	SRO	124.9	113	Pn	1:27:41.37	0.16							
			eSg	03:12.10			-0.33	MPLH	133.6	155	Pn	1:27:42.61	0.32							
SMOL	55.9	61	Pg	1:03:10.27			0.44				Sn	27:57.77	-2.38							
			Sg	03:16.47			-1.16	ARSA	145.8	220	Pn	1:27:45.41	1.59							
SOP	67.2	193	Pg	1:03:11.88			0.03				Sn	28:02.73	-0.13							
			Sg	03:19.47			-1.76	VYHS	155.1	80	Pn	1:27:45.09	0.11							
RONA	72.7	209	Pg	1:03:13.18			0.36	A336	165.3	91	Pn	1:27:46.95	0.70							
			Sg	03:21.87			-1.09				Sn	28:08.42	1.23							
A337	75.9	92	Pg	1:03:14.21			0.81	MORC	178.4	18	Pn	1:27:49.67	1.79							
			Sg	03:23.65			-0.34				Sn	28:10.13	0.03							
CONA	77.5	241	Pg	1:03:14.08			0.39	MOA	192.3	256	Pn	1:27:50.19	0.57							
			Sg	03:23.90			-0.61				Sn	28:12.86	-0.33							
A339	82.4	127	Pg	1:03:15.17			0.61	ZVC	230.8	305	eSn	1:28:23.90	2.18							
			Sg	03:25.87			-0.18	BIOA	242.4	255	Pn	1:27:56.78	0.92							
KRUC	92.1	343	Pg	1:03:17.04			0.75				Sn	28:23.84	-0.45							
			Sg	03:27.94			-1.20	570.												
EGYH	103.9	156	Pg	1:03:18.49			0.10	2017-12-23 time: 1:44:14.44 UTC ML= 1.9												
			Sg	03:31.37			-1.51	lat: 47.499N lon: 18.906E h= 9.1 km												
VRAC	116.1	354	Pg	1:03:20.36			-0.20	erh= 1.1km erz= 0.9km												
			Sg	03:35.00			-1.74	nr= 39 gap= 71 rms=0.63												
A338	121.3	104	Pn	1:03:21.49			0.02	Locality: Budakeszi												
			Sn	03:36.11			-2.24	Comments:												
SRO	126.0	114	Pn	1:03:21.98			-0.07	sta	dist	azm	phase	hr	mn	sec	res					
MPLH	135.4	155	Pn	1:03:23.01			-0.22	STA3	8.8	115	Pg	1:44:16.80	0.10							
ARSA	146.9	219	Pn	1:03:25.71			1.04				Sg	44:18.58	0.11							
			Sn	03:43.15			-0.90	BUD	9.0	101	Pg	1:44:16.62	-0.11							
PKST	147.2	140	Pn	1:03:26.07			1.37				Sg	44:18.01	-0.50							
			Sn	03:44.08			-0.03	STA1	10.5	189	Pg	1:44:17.20	0.28							
TREC	147.7	320	ePn	1:03:25.00			0.23				Sg	44:18.76	-0.09							
			eSn	03:43.00			-1.22	PKSG	40.6	253	Pg	1:44:27.42	-0.26							
VYHS	155.2	81	Pn	1:03:25.25			-0.45	PENC	43.0	41	Pg	1:44:22.13	-0.16							
PKSG	155.9	129	Pn	1:03:25.17			-0.62	CSKK	51.0	253	Pg	1:44:24.54	0.85							
A336	165.7	91	Pn	1:03:27.14			0.13				Sg	44:30.55	-0.35							
MORC	176.8	19	Pn	1:03:29.25			0.86	PKS7	53.7	159	Pg	1:44:31.93	0.16							
			Sn	03:50.92			0.25	A338	70.9	324	Pg	1:44:27.83	0.63							
MOA	192.3	256	Pn	1:03:30.91			0.58				Sg	44:37.04	-0.11							
			Sn	03:53.43			-0.69	PKST	71.0	248	Pg	1:44:36.56	-0.64							
KOGS	206.4	191	Pn	1:03:58.39			1.14	PKB1	79.9	186	Pg	1:44:29.30	0.50							
LANS	221.4	64	Pn	1:03:35.42			1.46				Sg	44:39.20	-0.79							
PKB1	224.8	137	Pn	1:03:34.02			-0.36	A336	82.0	5	Pg	1:44:28.83	-0.34							
ZVC	229.3	304	eSn	1:04:04.70			2.36				Sg	44:38.05	-2.61							
BIOA	242.4	255	Pn	1:03:37.19			0.62	PSZ	87.6	58	Pg	1:44:30.01	-0.17							
			Sn	04:04.89			-0.35				Sg	44:40.60	-1.85							
569.																				
2017-12-23 time: 1:27:19.40 UTC ML= 2.2											PKB2 95.1 164									
lat: 48.255N lon: 16.774E h= 6.2 km											PKSN 98.9 133									
erh= 1.5km erz= 1.5km											PKB5 101.3 187									
nr= 36 gap= 48 rms=0.81											BSZH 105.1 102									
Locality: Austria																				
Comments:																				

Földrengés paraméterek

Hypocenter Parameters

Station	Dist	Azm	Phase	hr	mn	sec	res
PKS6	111.7	153	Sg	44:47.83		-0.14	
			Pn	1:44:34.63		0.38	
			Sn	44:49.04		-0.66	
PKS9	112.0	205	Pn	1:44:34.60		0.32	
			Sn	44:48.95		-0.80	
PKB4	113.8	192	Pn	1:44:34.75		0.25	
			Sn	44:48.91		-1.24	
PKS2	114.3	168	Pn	1:44:35.07		0.50	
			Sn	44:49.98		-0.29	
PKB3	121.5	170	Sn	1:44:51.30		-0.56	
MORH	144.0	188	Pn	1:44:39.81		1.54	
			Sn	44:56.60		-0.25	
PKSM	144.5	188	Pn	1:44:39.58		1.25	

571.

2017-12-23 time: 2:19:16.99 UTC ML= 0.3
 lat: 47.389N lon: 18.251E h= 2.0 km
 erh= 0.6km erz= 0.8km
 nr= 5 gap=220 rms=0.04
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	3.0	167	Pg	2:19:17.66		0.03	
			Sg	19:18.08		-0.06	
PKSG	10.5	89	Pg	2:19:18.95		0.05	
			Sg	19:20.33		-0.06	
PKST	21.9	229	Sg	2:19:23.99		0.01	

572.

2017-12-24 time: 0:33:43.86 UTC ML= 1.8
 lat: 48.262N lon: 16.779E h= 7.9 km
 erh= 1.9km erz= 2.0km
 nr= 26 gap= 86 rms=0.89
 Locality: Austria
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
ZST	25.1	107	ePg	0:33:48.80		0.23	
			eSg	33:51.70		-0.54	
MODS	39.0	71	ePg	0:33:51.10		0.13	
			eSg	33:55.80		-0.72	
SOP	66.4	194	Pg	0:33:56.33		0.52	
			Sg	34:04.16		-0.96	
RONA	72.2	210	Pg	0:33:57.14		0.31	
			Sg	34:05.51		-1.43	
CONA	77.7	241	Pg	0:33:58.47		0.65	
			Sg	34:07.99		-0.71	
A339	81.2	126	Pg	0:33:59.08		0.65	
KRUC	93.3	342	Pg	0:34:00.92		0.33	
			Sg	34:12.09		-1.55	
EGYH	102.7	156	Pg	0:34:02.72		0.47	
			Sg	34:15.29		-1.30	
VRAC	117.2	353	Pn	0:34:04.33		-0.16	
			Sn	34:18.64		-1.94	
MPLH	134.1	155	Sn	0:34:23.12		-1.24	
ARSA	146.7	220	Pn	0:34:09.59		1.42	
			Sn	34:27.26		0.13	
VYHS	154.6	80	ePn	0:34:11.10		1.94	
			eSn	34:27.50		-1.39	
MOA	192.8	256	Pn	0:34:14.77		0.84	
			Sn	34:37.82		0.44	
PKSM	268.0	148	Pn	0:34:23.64		0.33	
			Sn	34:54.61		0.54	

573.

2017-12-25 time: 17:57:09.41 UTC ML= 0.0
 lat: 47.364N lon: 18.232E h= 3.8 km
 erh= 3.1km erz= 0.7km
 nr= 6 gap=204 rms=0.10
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	2.2	93	Pg	17:57:10.30		0.11	
			Sg	57:10.83		0.03	
PKSG	12.4	76	Pg	17:57:11.77		0.04	
			Sg	57:13.24		-0.30	
PKST	19.0	232	Pg	17:57:12.86		0.00	
			Sg	57:15.50		-0.06	

574.

2017-12-26 time: 12:07:51.28 UTC ML= 1.9
 lat: 47.399N lon: 18.203E h= 5.2 km
 erh= 3.5km erz= 3.3km
 nr= 6 gap=234 rms=0.07
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	5.9	132	Pg	12:07:52.77		0.09	
			Sg	07:53.71		-0.07	
PKSG	14.2	93	Pg	12:07:54.02		0.04	
			Sg	07:56.00		-0.09	
PKST	20.1	219	Pg	12:07:54.93		-0.06	
			Sg	07:57.92		0.04	

575.

2017-12-28 time: 9:40:24.55 UTC ML= 1.5
 lat: 46.126N lon: 18.055E h= 0.0 km
 erh= 1.7km erz= 361km
 nr= 13 gap=248 rms=0.31
 Locality: Hetvehely
 Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	5.5	141	Pg	9:40:25.50		-0.03	
			Sg	40:26.68		0.39	
PKSV	30.5	150	Pg	9:40:29.85		-0.15	
			Sg	40:34.04		-0.22	
PKSM	46.3	78	Pg	9:40:32.71		-0.10	
			Sg	40:39.12		-0.14	
MORH	46.6	78	Pg	9:40:32.78		-0.08	
			Sg	40:38.98		-0.37	
PKB4	59.0	46	Pg	9:40:35.38		0.30	
PKB5	73.9	45	Pg	9:40:38.61		0.87	
			Sg	40:47.78		-0.25	
PKB1	92.5	38	Pg	9:40:40.77		-0.30	
			Sg	40:54.34		0.39	

576.

2017-12-28 time: 19:03:42.15 UTC ML= 0.1
 lat: 47.381N lon: 18.212E h= 4.3 km
 erh= 2.0km erz= 1.3km
 nr= 5 gap=220 rms=0.03
 Locality: Mór
 Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	4.2	119	Pg	19:03:43.26		0.04	
			Sg	03:44.02		-0.03	
PKSG	13.5	85	Pg	19:03:44.66		-0.02	
			Sg	03:46.66		0.00	
PKST	19.1	225	Sg	19:03:48.38		0.00	

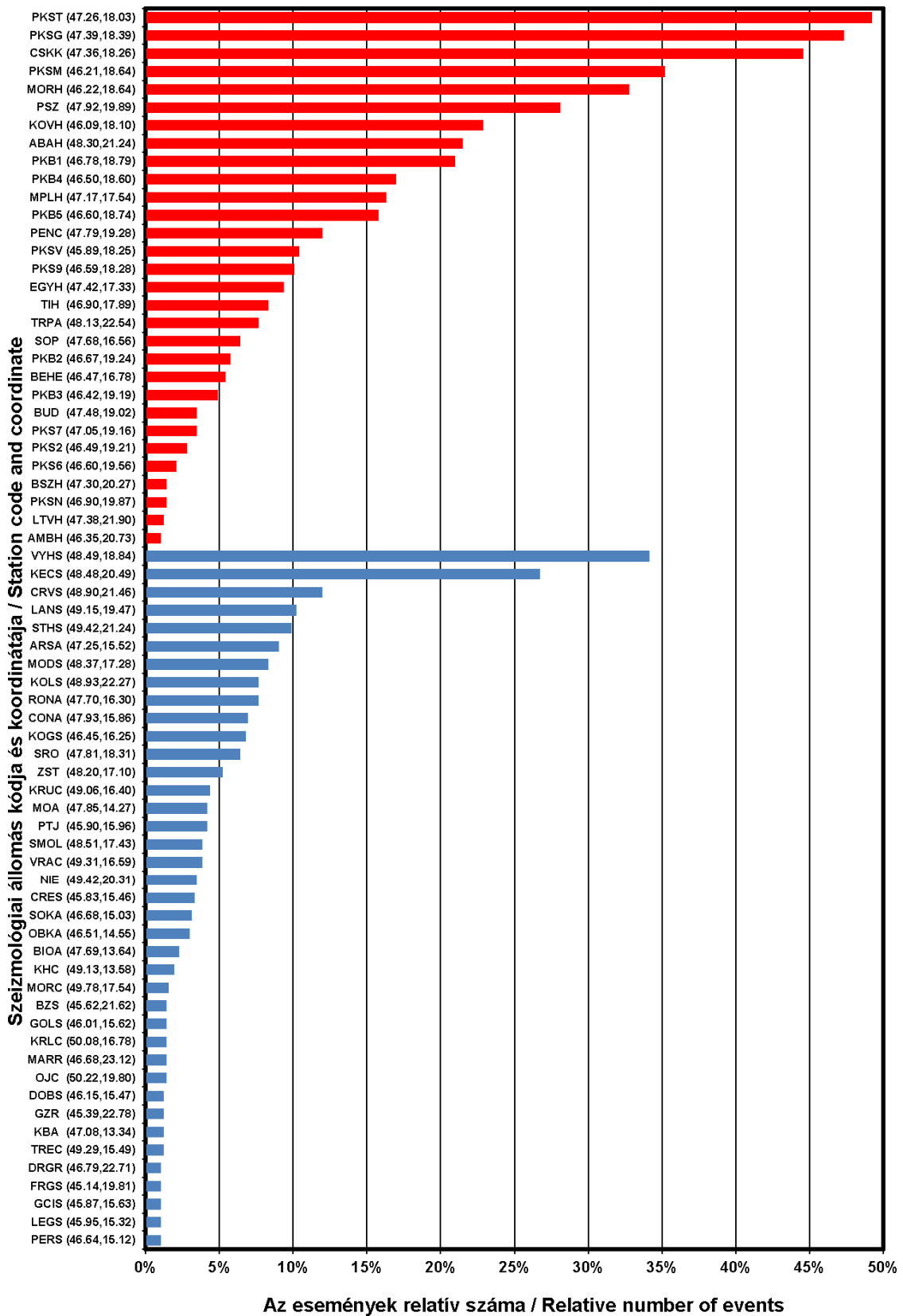
577.

2017-12-30 time: 22:26:20.20 UTC ML= 0.1
 lat: 47.390N lon: 18.115E h= 0.6 km
 erh= 5.1km erz=69.7km
 nr= 6 gap=247 rms=0.20
 Locality: Nagyveleg
 Comments:

Hypocenter Parameters

sta	dist	azm	phase	hr	mn	sec	res
CSKK	11.4	105	Pg	22	26	22.59	0.36
			Sg			26:23.93	0.11
PKST	15.8	203	Pg	22	26	22.97	-0.06
			Sg			26:25.15	-0.09
PKSG	20.8	90	Pg	22	26	23.85	-0.06
			Sg			26:26.47	-0.34

Földregés paraméterek



3.4. ábra Az egyes állomások részvétele a hipocentrum meghatározásban
 Figure 3.4. Contribution of individual stations to the hypocenter determination

4.

JELENTŐS FÖLDRENGÉSEK 2017-BEN (Magyarországon érezhető földrengések)

2017. január 24.	–	Dunaharaszti
2017. február 17.	–	Bábolna

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 2017

(Earthquakes felt in Hungary)

24 January 2017	–	Dunaharaszti
17 February 2017	–	Bábolna

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*)

2017. január 24. - Dunaharaszti / 24 January 2017 - Dunaharaszti**FÉSZEKPARAMÉTEREK / HYPOCENTER PARAMETERS**

Dátum / Date:	2017/01/24
Kipattanási idő / Origin Time:	12:18:16.53 UTC
Szélesség és hosszúság / Latitude and Longitude:	47.373 N 19.066 E (S.D. 1.5 km)
Mélység / Depth:	5.8 km (S.D. 1.9 km)
Magnitúdó / Magnitude:	2.0 ML
Maximális intenzitás / Maximum Intensity:	4 EMS

LEÍRÁS

Január 24-én reggel 2.0 M_L magnitúdójú földrengés pattant ki Budapest határában, Dunaharaszti közelében. 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 1300 km²

$I \geq 4$ (enyhe érzhetőség) becsült területe 25 km²

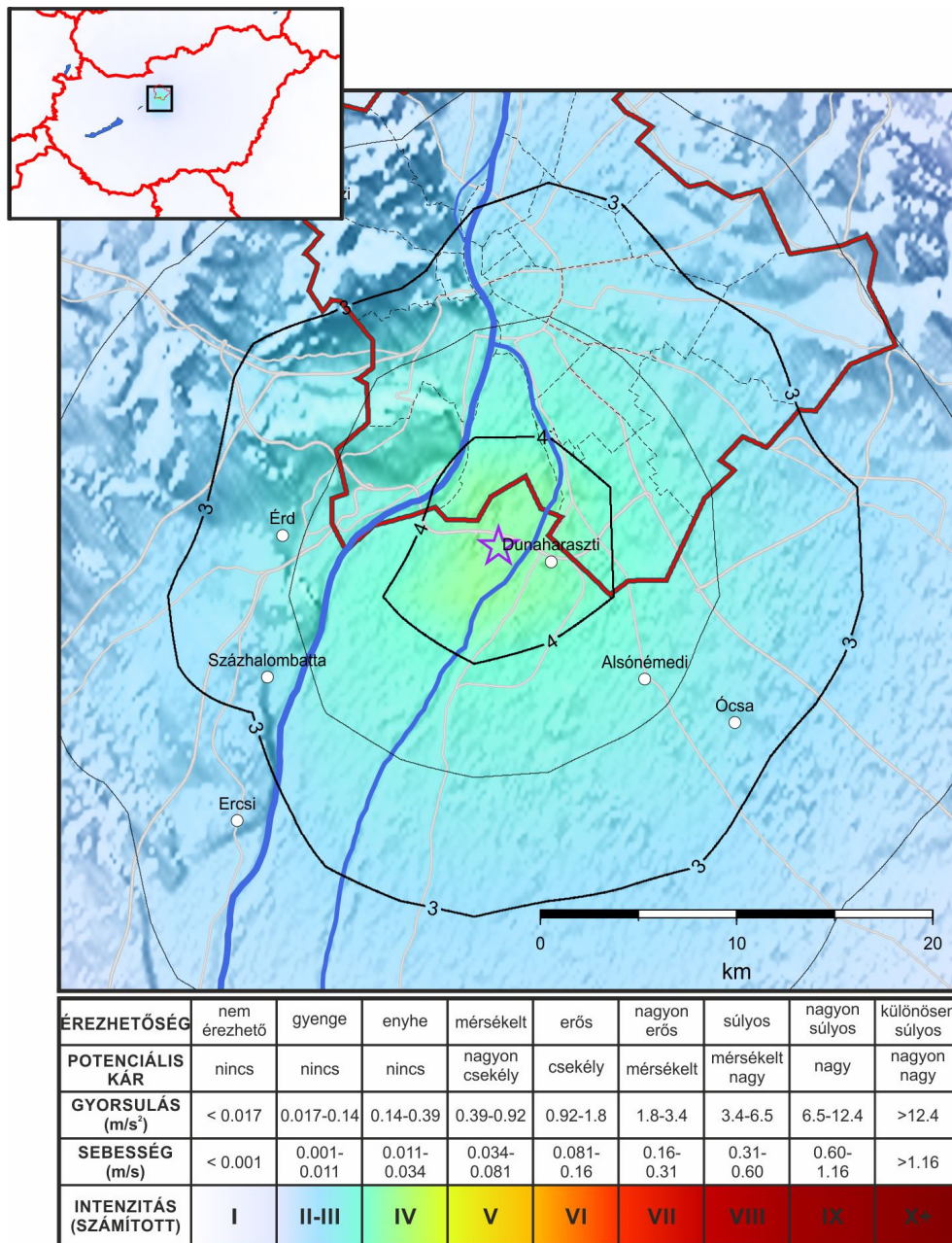
DISCUSSION

On January 24th, a 2.0 M_L magnitude earthquake occurred in the surroundings Budapest, near to Dunaharaszti. 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 1300 km²

Estimated area of $I \geq 4$ (perceived shaking: light) is about 25 km²



4.1. ábra A 2017. január 24-i, dunaharaszti földrengés (12:18 UTC) számított intenzitás eloszlása

Figure 4.1. Instrumental intensity distribution of the Dunaharaszti earthquake 24th January 2017 (12:18 UTC)

2017. február 17. - Bábolna / 17 February 2017 - Bábolna**FÉSZKEPARAMÉTEREK / HYPOCENTER PARAMETERS**

Dátum / Date:	2017/02/17
Kipattanási idő / Origin Time:	20:39:33.92 UTC
Szélesség és hosszúság / Latitude and Longitude:	47.640 N 17.967 E (S.D. 1.5 km)
Mélység / Depth:	10.0 km (S.D. 1.7 km)
Magnitúdó / Magnitude:	1.9 ML
Maximális intenzitás / Maximum Intensity:	4 EMS

LEÍRÁS

2017. február 17-én este 1.9 ML magnitúdójú földrengést éreztek Bábolna 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 1250 km²

$I \geq 4$ (enyhe érzhetőség) becsült területe 30 km²

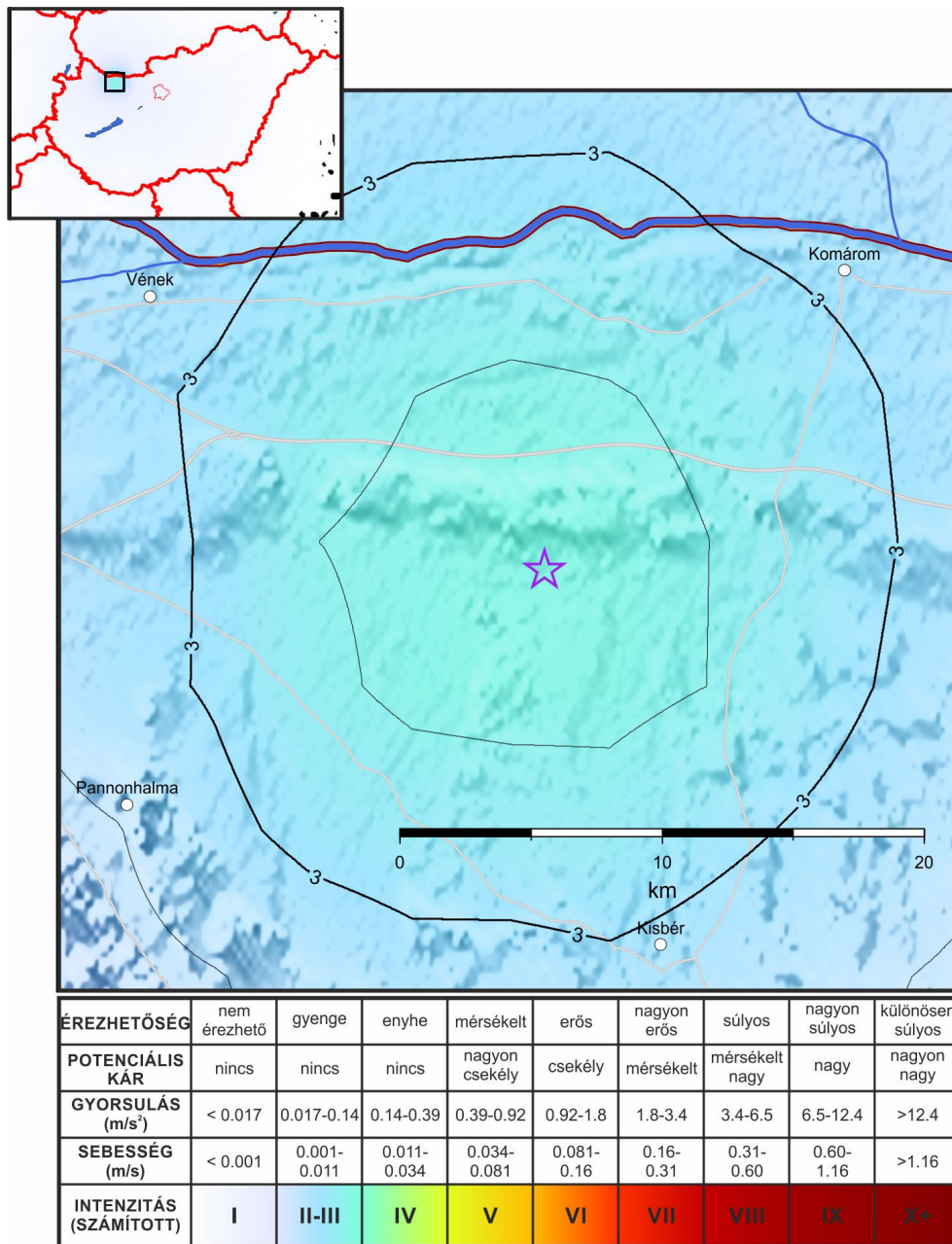
DISCUSSION

In the evening of February 17th, a 1.9 ML magnitude earthquake was felt at Bábolna 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 1250 km²

Estimated area of $I \geq 4$ (perceived shaking: light) is about 30 km²



4.2. ábra A 2017. február 17-i, bábolnai földrengés (20:39 UTC) számított intenzitás eloszlása

Figure 4.2. Instrumental intensity distribution of the Bábolna earthquake 17th February 2017 (20:39 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 összekoccannak. 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 rombadól.

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)

