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BULETINI MUJOR I SIZMOLOGJISË



Universiteti Politeknik i Tiranës
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BULETINI MUJOR I SIZMOLOGJISË (MONTHLY BULLETIN OF SEISMOLOGY)

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H Y R J E

Buletini sizmologjik përmban ngjarjet sizmike (tërmetet), e regjistruar, lokalizuar dhe analizuar gjatë periudhës kohore një-mujore. Përpos pasqyrimit kronologjik të aktivitetit sizmik të regjistruar, në territorin Shqipëtar dhe rreth tij, me anë të stacioneve të rrjetit sizmologjik shqipëtar, por edhe të rrjeteve fqinjë, periodiku përmban një analizë të gjithanëshme të parametrave të vlerësuar në drejtim të cilësisë së vlerësimit të tyre dhe statistikës së aktivitetit sizmik në vend. Përmbajtja e buletinit konsiston në terminologjinë përkatëse, në karakteristikat e stacioneve sizmologjik, të dhënat parametrike të vlerësuara nga analiza e çdo tërmeti, në analizën e cilësisë së vlerësimit të këtyre parametrave, në analizën e ngjarjeve të veçanta ($M > 4.0$), nëse ka të tilla, si dhe në përpilimin e katalogut mujor dhe paraqitjen grafike në hartë, të epiqendrave të tërmeteve të lokalizuar. Analiza e të dhënave kryhet me anë të programit Hypoinverse-2000 (Pakete rutinash në gjuhën Fortran), me autor Fred W Klein (2002) [Referenca: *Open File Report 02-171*, v. 1.0, U. S. Geological Survey, 345 Middlefield Rd., MS#977, Menlo Park CA 94025; klein@usgs.gov]. Ky program është baza llogaritëse e përdorur nga **Nanometrics** në programin interaktiv të përpunimit dhe lokalizimit të tërmeteve, në sistemin Libra 1, ATLAS (një ndërfaqe grafike në gjuhën Java). Të dhënat e përfutuara ruhen në formatet standart të Hypoinverse 2000, në skedarin hyp.prt dhe atë akiv, që shërbejnë edhe si baza për përpilimin e këtij buletini dhe analizës së kryer.

Briefing:

The seismological bulletin represents a reassume of the seismic events (earthquakes), occurred within Albania and surroundings for a period of one month. These events are permanently recorded, located and further processed by Albanian Seismological Network. This report, along with the chronologic ordering of events, contains a comprehensive analysis of the evaluated parameters as well as the quality of this process. It contains the description of output parameters, parametric data, statistical analysis and quality data analysis, catalogue and epicenter map. Program used for this analysis is Hyponverse 2000 (Klein, 2002; USGS), implicitly implemented in Atlas (Java Interface Nanometrics Firmware), part of Libra 1 VSAT system.

Stacionet Sizmikë (Seismic Stations)

A. Rrjeti Sizmologjik Shqipëtar (Albanian Seismological Network, ASN)

Të dhënat për këtë rrjet janë dhënë në **Tab. 1**.

3C – sensor të shpejtësisë me tre komponente regjistrimi (3 – component velocimeters)

BB – sensor me reagim frekuencial me bandë të gjerë, në intervalin e frekuencave të fushës sizmike $10^{-3} - 10^2$ Hz (Broadband sensors)

RT – regjistrim dhe tranmetim i të dhënave valore nga stacionet periferik në Qendrën Kombëtare të Monitorimit, në kohë reale (Real time communication)

T₀ – perioda vetjake e reagimit të sizmometrit (sensorit), mbi të cilën ai reagon linearisht si filtër i frekuencave të larta (High-Pass). Ky parametër është karakteristik për një tip të dhënë sensori (Sensor Natural Period)

Shënim: të gjithë stacionet janë të regjistruar në regjistrin ndërkombëtar (WDC), ku identifikohen me kodin përkatës të përbërë nga 3-5 karaktere.

Tab. 1 – Rrjeti Sizmologjik Shqipëtar (Albanian Seismological Network, ASN, Rrjeti Sizmologjik Virtual (Virtual Seismological Network)

Kodi	Regjistruar (Po/Jo)	Gjer. Gjeo.	Gjat. Gjeo.	Lartesia	Tipi i stacionit	Sensori	Terheqja e Informacionit	Komunikimi	T ₀
Station Code	Registered (WDC)	Latitude (degree)	Longitude (degree)	Elev. (m)	Station type	Sensor type	Acquisition system	Communication	Nat.l Period (s)
TIR	Po (Y)	41.3477	19.8650	198	3C-BB	STS-2	Libra VSAT (InterNaqs)	RT satellite	120
BCI	Po (Y)	42.3666	20.0675	500	3C-BB	CMG-40T	Libra VSAT	RT satellite	40
PHP	Po (Y)	41.6847	20.4408	670	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40
SDA	Po (Y)	42.0519	19.4986	80	3C-SP	SM-4	GBV-316	Dial-up	0.2
LACI	Po (Y)	41.6363	19.7094	40	3C-SP	SM-4	GBV-316	Dial-up	0.2
TPE	Po (Y)	40.2952	20.0109	240	3C-SP	SM-4	GBV-316	Dial-up	0.2
LSK	Po (Y)	40.1500	20.6000	920	3C-BB	CMG-40T	Libra VSAT	RT satellite	40
KBN	Po (Y)	40.6236	20.7874	800	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40
VLO	Po (Y)	40.4686	19.4955	80	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40
SRN	Po (Y)	39.8800	20.0005	20	3C-BB	Trillium 40T	Libra VSAT.	RT satellite	40
PUK	Po (Y)	42.0426	19.8926	900	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40
KKS	Po (Y)	42.0756	20.4113	300	3C-SP	SM-4	GBV-316	Dial-up	0.2

Tab. 2 – Rrjeti Sizmologjik Virtual - InterNaqs (INGV, AUTH)

Kodi	Regjistruar (Po/Jo)	Gjer. Gjeo.	Gjat. Gjeo.	Lartesia	Tipi i stacionit	Sensori	Terheqja e Informacionit	Komunikimi	T ₀
Station Code	Registered (WDC)	Latitude (degree)	Longitude (degree)	Elev. (m)	Station type	Sensor type	Acquisition system	Communication	Nat.l Period (s)
MRVN	Po (Y)	41.0609	16.1958	610	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40
NOCI	Po (Y)	40.7888	17.0644	420	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40
SCTE	Po (Y)	40.0724	18.4675	150	3C-BB	Trillium 40T, 120S	Libra VSAT	RT satellite	40/120
SGRT	Po (Y)	41.7546	15.7437	960	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40
LKD2	Po (Y)	38.7889	20.6578	485	3C-BB	CMG-3ESP/100	Trident	RT	40
THE	Po (Y)	40.6319	22.9628	124	3C-BB	Trillium 120	Taurus	GPRS	120
NEST	Po (Y)	40.4147	21.0489	1056	3C-BB	Trillium 120	Taurus	GPRS	120
FNA	Po (Y)	40.7818	21.3835	750	3C-BB	CMG-3EPS/100	Trident	RT	40
IGT	Po (Y)	39.5315	20.3299	270	3C-BB	CMG-3EPS/100	HRD24	RT	40

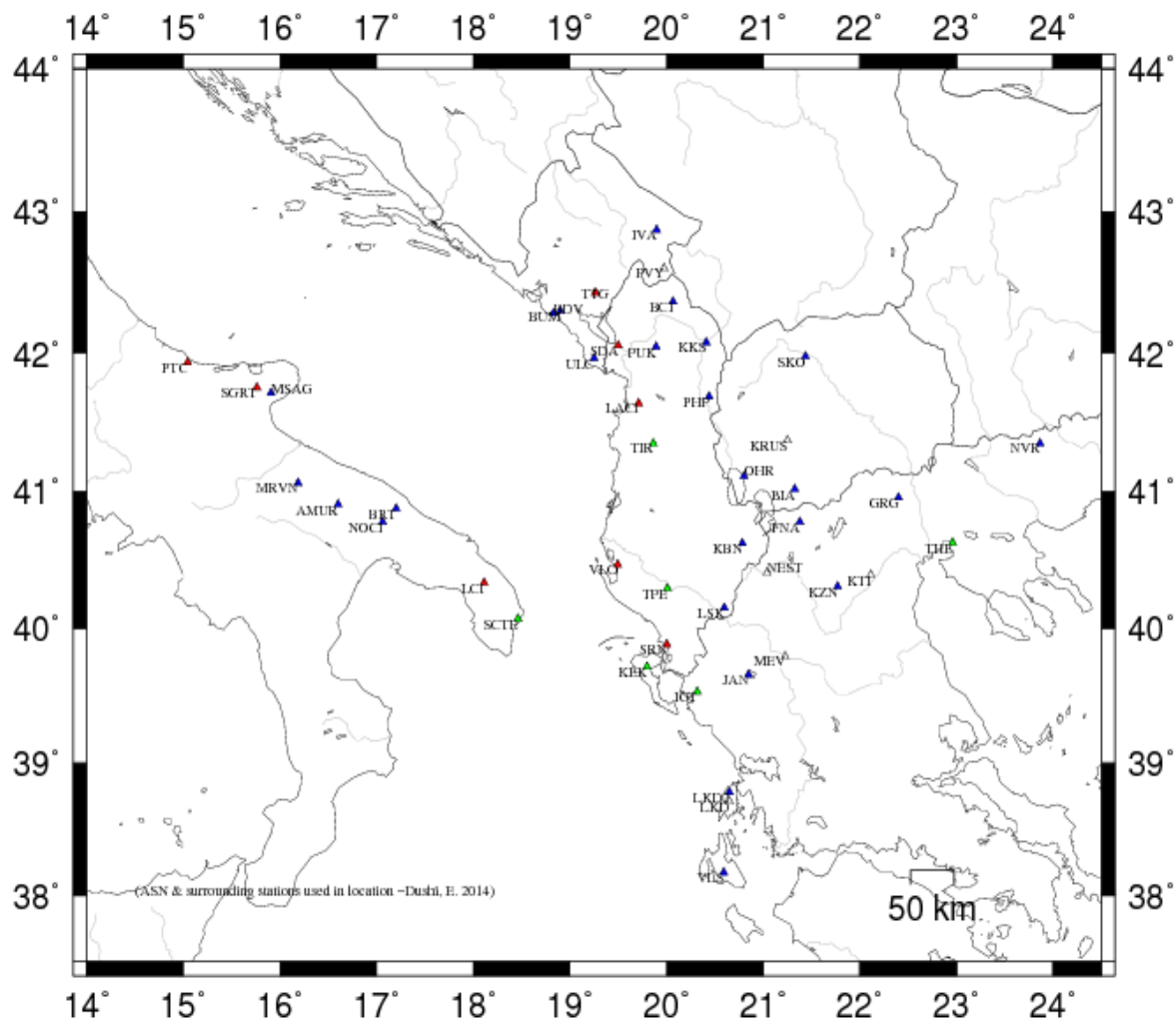
Tab. 3 – Rrjeti Sizmologjik Ndihmës (MSO, SKO, AUTH, NAO, INGV)

Kodi	Regjistruar (Po/Jo)	Gjer. Gjeo.	Gjat. Gjeo.	Lartesia	Tipi i stacionit	Sensori	Terheqja e Informacionit	Komunikimi	T ₀
Station Code	Registered (WDC)	Latitude (degree)	Longitude (degree)	Elev. (m)	Station type	Sensor type	Acquisition system	Communication	Nat.l Period (s)
MEV	Po (Y)	39.7850	21.2290	1500	3C-SP	S-13	Trident	RT	1.0
KTI	Po (Y)	40.39289	22.11650	1329	#	#	#	#	#
GRG	Po (Y)	40.9558	22.4029	600	3C-BB	CMG-3EPS/100	Trident	RT	40
LKD	Po (Y)	38.70722	20.65056	1140	#	#	#	#	#
ULC	Po (Y)	41.9633	19.2497	465	3C-SP	S-13	Smart-24D	RT	1.0
TTG	Po (Y)	42.43020	19.25530	97	#	#	#	#	#
PVY	Po (Y)	42.5950	19.9735	1250	3C-SP	S-13	Smart-24D	RT	1.0
BUM	Po (Y)	42.3008	18.8986	724	3C-SP	S-13	Smart-24D	RT	1.0
BDV	Po (Y)	42.28340	18.82790	385	#	#	#	#	#
IVA	Po (Y)	42.87180	19.89310	996	#	#	#	#	#
KEK	Po (Y)	39.7127	19.7962	227	3C-BB	STS-2	DR24-SC	RT	120
JAN	Po (Y)	39.6561	20.8487	526	3C-BB	CMG-3EPS/60	DR24-SC	RT	40
KZN	Po (Y)	40.3033	21.7820	791	3C-BB	STS-2	DR24-SC	RT	120
VLS	Po (Y)	38.1768	20.5886	402	3C-BB	Trillium 120	DR24-SC	RT	120
NVR	Po (Y)	41.3484	23.8651	627	3C-BB	CMG-3EPS/60	DR24-SC	RT	40

Kodi	Regjistruar (Po/Jo)	Gjer. Gjeo.	Gjat. Gjeo.	Lartesia	Tipi i stacionit	Sensori	Terheqja e Informacionit	Komunikimi	T ₀
Station Code	Registered (WDC)	Latitude (degree)	Longitude (degree)	Elev. (m)	Station type	Sensor type	Acquisition system	Communication	Nat.l Period (s)
BRT	Po (Y)	40.8778	17.2036	333	#	#	#	#	#
AMUR	Po (Y)	40.9071	16.6041	443	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40
MSAG	Po (Y)	41.712	15.9096	890	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40/120
PTC	Po (Y)	41.7546	15.7437	960	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40
LCI	Po (Y)	40.33461	18.11197	46	#	#	#	#	#
OHR	Po (Y)	41.1114	20.7989	739	#	#	#	#	#
BIA	Po (Y)	41.0194	21.3239	720	#	#	#	#	#
KRUS	Po (Y)	41.3689	21.2488	1015	#	#	#	#	#
SKO	Po (Y)	41.9721	21.4396	346	#	#	#	#	#

Shënim:

Rrjeti plotësues (ndihmës) konsiston në stacionet sizmologjike të rajonit, të cilat janë pjesë e Rrjetit Sizmologjik Malazezë (MSO), atij Maqedonas (SKO), të Selanikut (AUTH), Athinës (NAO) dhe Institutit Kombëtar të Gjeofizikës dhe Vullkanologjisë në Romë (INGV), dhe përdoren për përfshirjen manuale të leximeve të fazave sizmike në procesin e lokalizimit. (#) – është përdorur në rastin kur nuk njihet instrumentimi i stacioneve.



-Fig. 1-

Harta e shpërndarjes së stacioneve të rrjetit sizmologjik Shqipëtar (ASN), Universitetit ‘Aristotel’ të Selanikut (THE), Observatorit Kombëtar të Athinës (ATH), INGV, rrjetit sizmologjik Malazez (PDG) dhe atij Maqedonas (SKO).
[Seismological station distribution map for ASN, THE, ATH, INGV, PDG & SKO]

Përshkrimi i terminlogjisë së përdorur për parametrat e përftuar (Output parameter’s description)

Informacioni gjithpërfshirës i kreut të ngjarjes (EVENT HEADER INFORMATION)

YEAR MO DA	Data (viti, muaji, data) [Date]
ORIGIN	Koha (ora, minuta, sekonda) [Origine Time]
LAT N	Gjerësia gjeografike (gradë, minuta) [latitude in degree and minute]
LON W	Gjatësia gjeografike (gradë, minuta) [longitude in degree and minutes]

DEPTH	Thellësia vatrore (km) [<i>hypocenter depth in km</i>]
RMS	Shmangia kuadratike mesatare për diferencat e peshuara të kohë-udhëtimin, për Fazat Sizmike, [<i>root mean squarre for the weighted travel time residuals</i>]
ERH	Gabimi horizontal në lokalizim (përafërsisht aksi maksimal i elipsit të gabimit në epiqendër), [<i>horizontal location error, aproximately equal to the major epicenter's error ellipse</i>].
ERZ	Gabimi në thellësi, [<i>Defined as the largest projections of the three principal errors on a vertical line</i>].
XMAG	Magnituda primare bazuar në amplitudë [<i>Primary weighted median amplitude magnitude</i>].
FMAG	Magnituda primare bazuar në zgjatshmërinë e sinjalit [<i>Primary weighted median coda magnitude</i>].
PMAG	Magnituda e përzgjedhur si përfaqësuese, për ngjarjen e lokalizuar [<i>preferred magnitude selected by PRE command, as representative of available magnitudes ML and Md</i>].
NSTA	Numuri i stacioneve të përdorur në lokalizim [<i>the number of stations read for this event</i>].
NPHS	Numuri i fazave të përdorura [<i>Number of used phases in location</i>].
DMIN	Distanca hypoqender-stacioni më i afërt [<i>distance to the nearest station</i>].
MODEL	Modeli shpejtësor i përdorur [<i>velocity crustal model code</i>].
GAP	Shmangia maksimale, këndore, ndërmjet stacioneve të përdorur [<i>the largest azimuthal gap between azimuthally adjacent stations</i>].
ITR	Numri i iteracioneve për zgjidhje [<i>number of iterations required for the solution</i>].
NFM	Numri i hyrjeve të para P [<i>number of P first motions reported</i>].
NWR	Numri i fazave P & S me peshë statistikore > 0.1 [<i>number of P & S readings with weights > 0.1</i>].
NWS	Numri i fazave S me peshë statistikore > 0.1 [<i>number of S-phases with weights > 0.1</i>].
NVR	Numri i fazave P & S, të vlefshme për lokalizim [<i>number of P & S phases valid for location, assigned weights > 0</i>].
QGEO	Cilesia e katalogut bazuar ne gjeometrin e rrjetit sizmologjik [<i>Quality rating based on station geometry</i>]
QLOC	Cilesia e katalogut bazuar ne lokalizimin e ngjarjeve sizmike [<i>Quality rating based on localization of seismic event</i>]
REMARKS	Kodi (3 karaktere) i rajonit (region code), bazuar në lokalizim dhe thellësinë e vlerësuar; kodi (1 karakter) për të karakterizuar ngjarjen: F – e ndjerë (felt), Q/ B – shpërthime sipërfaqësore në karriera (quarry blasts), R/N – shpërthime në thellësi (explosions), T – vibrime (tremors) dhe L – kontraktimet me period të gjatë (long period tidal waves); # - problem me konvergimin e zgjidhjes së përfutur në mënyrë iterative [<i>convergence problems</i>], ose zgjidhje e pa pranueshme me RMS të lartë; (-) – tregon se thellësia është fiksuar [<i>fixed depth solution</i>]; X – lokalizimi i fiksuar për të rritur performancën në llogaritjen e thellësisë [<i>fixed location solution</i>].
AVH	Shënime për statusin [<i>status remarks</i>].
N.XMG	Numri i magnitudave bazuar në amplitudë [<i>number of primary amplitude based magnitudes</i>].
X.MMAD	Gabimi i bërë në vlerësimin e ML [<i>weighted median absolute difference for the primary amplitude magnitudes</i>].
T	Kodi i identifikimit për magnitudën XMAG1 [<i>label code for XMAG1</i>].
N.FMAG	Numri i magnitudave, bazuar në zgjatshmërinë e sinjalit [<i>number of primary coda magnitudes</i>].
FMMAD	Gabimi i bërë në vlerësimin e Md [<i>weighted median absolute difference for the primary coda magnitudes</i>].
T	Kodi i identifikimit për magnitudën FMAG1 [<i>label code for FMAG1</i>].

Shënim: parametrat XMAG2 dhe FMAG2, së bashku me parametrat e tjerë suksesiv të indeksuar me #####2, paraqesin informacionin për magnitudat dytësore [*secondary magnitude information parameters*].

Informacioni parametrik i ngjarjes (EVENT PARAMETRIC DATA)

STA	Kodi i stacionit me 5-karakte (station code, max 5 characters). (*) –tregon se për këtë stacion është përdorur një model alternative shpejtësie [<i>alternative crustal velocity model used for that station</i>].
NET	Kodi i rrjetit [<i>the network code</i>].
COM	komponentja e përdorur [3 – <i>letters component code</i>]
C	shkurtimi i kodit të rrjetit (1 karakter) [<i>abbreviation for the station code</i>]
R	Shënimi për stacionin [<i>station remark</i>]
DIST	Distanca epiqendrore [<i>epicentral distance</i>]
AZM	Azimuti stacion-hypoqendër [<i>station azimuth in degree</i>]
AN	Këndi i daljes së rezeve valore në sferën vatrore [<i>emergence angle at the hypocenter</i>]
P/S	Kodi i fazave të përcaktuara nga leximi në formën valore [<i>phase code</i>]
WT	Pesha e vlerësimit të fazave [<i>weighted code</i>].
SEC	Koha e vërtetuar për hyrjet valore [<i>observed arrival time</i>]
TOBS	Koha e vërtetuar e udhëtimit vatër-stacion për fazën sizmike [<i>observed travel time</i>]
TCAL	Koha e llogaritur nga modeli i shpejtësisë për udhëtimin vatër-stacion, të fazës sizmike [<i>calculated travel time</i>].
DLY	Vonesa në kohë, karakteristikë për stacionin [<i>station delay</i>].
RES	Diferenca në kohë-përhapjen, model-vërtetim. [<i>Travel time residuals</i>].
WT	Pesha e normalizuar, përfshirë këtu edhe peshën e caktuar dhënë më sipër [<i>normalized weight</i>].
SR	Kodi i burimit (1 karakter), që zakonisht i referohet rrjetit [<i>1 letter source code</i>]
R	Shënime lidhur me formën valore (sizmogramën), mbartur nga të dhënat fazore [<i>Seismogram remark</i>].
INFO	Informacioni për rëndësinë e kontributit të stacionit apo fazës në zgjidhjen e përgjithshme [<i>the information of the importance of contribution</i>].
CAL	Faktori korrigjues që përdoret në llogaritjen e magnitudës [<i>calibration factor for magnitude calculation</i>].
DUR	Zgjatshmëria e fazës koda (s) [<i>coda duration i sec</i>]
W	Kodi i peshimit 0-4 për magnitudën bazuar në zgjatshmërinë e sinjalit, Md, [<i>duration magnitude weight code</i>].
FMAG	Magnituda Md, për stacionin [<i>duration magnitude for that station</i>].
T	Kodi për llojin e magnitudës [<i>the magnitude type code assigned by FC1 & FC2 commands</i>].
AMP	amplituda maksimale (pik-pik) [<i>peak to peak maximum amplitude</i>]
U	Kodi për njësinë e përdorur për amplitudën M – mm, C – counts, etj. [<i>amplitude units code</i>]
PER	Perioda (s), ku është matur A_{max} , [<i>max amplitude corresponding period in sec.</i>].
W	Kodi i peshimit 0-9, për magnitudën, bazuar në amplitudë, [<i>amplitude based magnitude weight code</i>].
XMAG	Magnituda bazuar në amplitudë, për stacionin, [<i>amplitude magnitude for that station</i>].
T	Kodi për llojin e magnitudës [<i>the magnitude type code assigned by XC1 & XC2 commands</i>].

Tërmetet Lokalë (Parametric Data for Albanian local Events)

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612565 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1783 1.3 km from Gropaj, Tirana, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2019/10/01	12:22:25.97		0.58	41.3372	19.7267				25.0	2.2	6	8	188	0.11	2.09	m	
1853																	

Magnitude	Err	Nsta	Author	OrigID
Ml	3.1	0.0	3	1853
Md	2.4	0.0	1	1853

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.10	0.0	P	12:22:30.274	0.0									m		23738
TIR	0.10	84.0	S	12:22:33.448	-0.3									m		23731
TIR	0.10	84.0	AMl	12:22:35.190								4.4	0.32	a	Ml	2.7
VLO	0.88	192.0	S	12:22:54.002	-0.4									m		23733
VLO	0.88	192.0	P	12:22:43.278	1.1									m		23732
VLO	0.88	192.0	AMl	12:23:07.260								2.6	0.32	a	Ml	3.1
VLO	0.88	192.0	AMd	12:23:19.086								0.0	35.81	a	Md	2.4
IGT	1.86	165.0	S	12:23:19.260	-5.2									m		23735
IGT	1.86	165.0	P	12:22:59.452	0.1									m		23734
NOCI	2.09	256.0	S	12:23:25.712	-4.5									m		23737
NOCI	2.09	256.0	P	12:23:02.438	-0.3									m		23736
NOCI	2.09	256.0	AMl	12:23:30.660								0.4	0.28	a	Ml	3.1

DATA_TYPE COMMENT GSE2.1
Event 1783

Official Magnitude:
Ml 3.10

Error ellipse:

	Azim	Dip	Mag
Max:	90	33	3.9100

Intermediate: 345 19 2.2300
Min: 231 50 1.2500

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612565 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1792 1.5 km from Marikaj, Tirana, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID	2019/10/05	12:31:54.11	0.23	41.3593	19.6355				25.0	1.1	10	7	266	0.17	2.03	m	
	1862																

Magnitude	Err	Nsta	Author	OrigID
M1	2.7	0.0	2	1862

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.17	0.0	Pg	12:31:58.116	0.0									m		23842
TIR	0.17	93.0	Sg	12:32:02.589	0.9									m		23831
TIR	0.17	93.0	AM1	12:32:01.710								5.6	0.26	a	M1	2.8
BPA1	0.64	178.0	Pg	12:32:06.554	-0.1									m		23832
VLO	0.90	187.0	Sg	12:32:23.044	0.2									m		23834
VLO	0.90	187.0	Pg	12:32:09.739	-0.8									m		23833
NEST	1.43	130.0	Sn	12:32:40.595	-0.0									m		23836
NEST	1.43	130.0	Pn	12:32:20.866	0.2									m		23835
NEST	1.43	130.0	AM1	12:32:43.260								0.4	0.50	a	M1	2.7
KEK	1.65	175.0	S	12:32:46.958	0.0									m		23838
KEK	1.65	175.0	P	12:32:24.609	0.3									m		23837
IGT	1.90	163.0	S	12:32:53.480	-0.1									m		23840
IGT	1.90	163.0	P	12:32:27.944	-0.2									m		23839
NOCI	2.03	255.0	Pn	12:32:04.909	-10.0									m		23841

DATA_TYPE COMMENT GSE2.1
Event 1792

Official Magnitude:
M1 2.74

Error ellipse:

	Azim	Dip	Mag
Max:	337	23	1.4700
Intermediate:	115	60	1.2300
Min:	239	18	0.8100

BEGIN GSE2.1
 MSG_TYPE DATA
 MSG_ID 1572612565 athena
 DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1793 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/05	17:54:30.99		0.35	41.4832	19.4228				25.0	6.0	7	5	221	0.36	2.07	m	

OrigID
1863

Magnitude	Err	Nsta	Author	OrigID
Ml	2.2	0.0	3	1863
Md	2.9	0.0	4	1863

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.36	111.0	Sg	17:54:43.965	-0.4											23844
TIR	0.36	111.0	Pg	17:54:38.560	-0.1											23843
TIR	0.36	111.0	AMl	17:54:45.200								1.2	0.46	a	Ml	2.2
TIR	0.36	111.0	AMd	17:55:11.260								0.0	32.70	a	Md	2.3
KBN	1.26	0.0	Sn	17:55:16.906	0.0											23851
NEST	1.63	130.0	Sn	17:55:22.950	-0.4											23846
NEST	1.63	130.0	Pn	17:55:01.331	0.5											23845
NEST	1.63	130.0	AMl	17:55:29.220								0.1	0.56	a	Ml	2.1
NEST	1.63	130.0	AMd	17:56:09.645								0.0	68.31	a	Md	3.1
NOCI	1.91	250.0	Pn	17:54:54.481	-10.0											23848
NOCI	1.91	250.0	Sn	17:55:30.456	-0.3											23847
NOCI	1.91	250.0	AMl	17:55:46.180								0.1	0.30	a	Ml	2.4
NOCI	1.91	250.0	AMd	17:56:34.312								0.0	99.83	a	Md	3.6
IGT	2.07	160.0	Sn	17:55:34.810	0.0											23850
IGT	2.07	160.0	Pn	17:55:08.387	0.9											23849
IGT	2.07	160.0	AMd	17:56:23.735								0.0	75.35	a	Md	2.7

DATA_TYPE COMMENT GSE2.1
 Event 1793

Official Magnitude:
 Ml 2.23

Error ellipse:

	Azim	Dip	Mag
Max:	20	44	8.4800
Intermediate:	167	40	1.8400
Min:	272	17	0.8400

BEGIN GSE2.1
 MSG_TYPE DATA

MSG_ID 1572612564 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1794 8 km from Bishtkamzë, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID	2019/10/05	23:55:48.05	0.31	41.4763	19.4283				36.9	1.2	9	7	212	0.77	2.76	m	
1864																	

Magnitude	Err	Nsta	Author	OrigID
M1	3.2	0.0	3	1864

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.35	110.0	Sg	23:55:56.960	0.0					___				m		23863
TIR	0.35	111.0	Pg	23:55:54.122	-2.7					___				m		23852
TIR	0.35	111.0	AM1	23:55:58.830						___		5.6	0.24	a	M1	12361
BPA1	0.77	167.0	Sg	23:56:14.606	-0.2					___				m		23854
BPA1	0.77	167.0	Pg	23:56:03.058	-0.3					___				m		23853
VLO	1.01	177.0	S	23:56:21.059	0.5					___				m		23856
VLO	1.01	177.0	Pg	23:56:08.185	1.6					___				m		23855
VLO	1.01	177.0	AM1	23:56:24.290						___		3.0	0.44	a	M1	12359
KBN	1.33	129.0	Sg	23:56:29.813	-0.2					___				m		23858
KBN	1.33	129.0	Pg	23:56:12.540	0.5					___				m		23857
NOCI	1.91	250.0	P	23:56:20.979	-0.2					___				m		23859
NOCI	1.91	250.0	AM1	23:56:55.170						___		0.4	0.38	a	M1	12360
IGT	2.06	160.0	S	23:56:49.901	0.0					___				m		23861
IGT	2.06	160.0	Pn	23:56:23.125	-0.3					___				m		23860
SGRT	2.76	277.0	Pn	23:56:33.928	0.2					___				m		23862

DATA_TYPE COMMENT GSE2.1
Event 1794

Official Magnitude:
M1 3.19

Error ellipse:

	Azim	Dip	Mag
Max:	217	33	1.8400
Intermediate:	44	56	1.4600
Min:	309	3	0.8800

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612564 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1795 1.4 km from Arrëz, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2019/10/06	16:57:37.07		0.30	40.2610	20.6898				7.0	24.0	8	6	141	0.31	0.94	m	
1865																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.1	0.0	3	1865

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
NEST	0.31	0.0	Pg	16:57:42.321	0.0					___					m___	23873
NEST	0.31	60.0	S	16:57:48.144	-0.1					___					m___	23864
NEST	0.31	60.0	AMl	16:57:49.660						___		1.8	0.22	a___	Ml	2.3
KBN	0.37	11.0	Sg	16:57:49.906	0.7					___					m___	23866
KBN	0.37	11.0	P	16:57:44.010	-0.0					___					m___	23865
KBN	0.37	11.0	AMl	16:57:54.360						___		1.1	0.44	a___	Ml	2.1
IGT	0.78	201.0	S	16:58:03.804	0.1					___					m___	23868
IGT	0.78	201.0	P	16:57:50.725	-1.6					___					m___	23867
BPA1	0.91	301.0	S	16:58:07.939	-0.3					___					m___	23870
BPA1	0.91	301.0	P	16:57:54.497	-0.4					___					m___	23869
BPA1	0.91	301.0	AMl	16:58:24.980						___		0.1	0.40	a___	Ml	1.8
VLO	0.94	284.0	S	16:58:08.315	0.6					___					m___	23872
VLO	0.94	284.0	P	16:57:54.659	0.1					___					m___	23871

DATA_TYPE COMMENT GSE2.1
Event 1795

Official Magnitude:
Ml 2.12

Error ellipse:

	Azim	Dip	Mag
Max:	72	88	23.9600
Intermediate:	328	0	0.7400
Min:	238	2	0.5600

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572343427 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1860 1.4 km from Bolenë, Vlorë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2019/10/07	01:10:08.11		0.37	40.2318	19.7705				25.1	1.8	11	7	138	0.31	3.39	m	
1944																	

Magnitude	Err	Nsta	Author	OrigID
Ml	1.8	0.0	4	1944

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
VLO	0.32	0.0	Pg	01:10:12.301	0.0											24699
VLO	0.32	319.0	Sg	01:10:18.920	-0.6											24687
VLO	0.32	319.0	AMl	01:10:22.660								4.3	0.44	a__	Ml	2.7
VLO	0.32	319.0	AMl	01:10:19.240								4.4	0.22	a__	Ml	2.8
BPA1	0.50	350.0	Sg	01:10:25.477	-0.5											24689
BPA1	0.50	350.0	Pg	01:10:18.212	-0.1											24688
BPA1	0.50	350.0	AMl	01:10:38.500								0.1	0.20	a__	Ml	1.2
IGT	0.82	148.0	S	01:10:35.953	0.1											24691
IGT	0.82	148.0	Pn	01:10:23.878	-0.1											24690
IGT	0.82	148.0	AMl	01:10:43.100								0.1	0.38	a__	Ml	1.6
KBN	0.87	62.0	Pg	01:10:24.462	0.1											24693
KBN	0.87	62.0	Sg	01:10:36.058	-0.5											24692
TIR	1.12	3.0	Sn	01:10:45.318	0.3											24695
TIR	1.12	3.0	Pn	01:10:30.262	1.1											24694
TIR	1.12	3.0	AMl	01:10:53.270								0.1	0.36	a__	Ml	1.8
NOCI	2.14	286.0	S	01:11:13.685	0.0											24697
NOCI	2.14	286.0	P	01:10:45.363	-0.2											24696
SGRT	3.39	298.0	P1	01:10:58.602	-5.5											24698

DATA_TYPE COMMENT GSE2.1
Event 1860

Official Magnitude:
Ml 1.80

Error ellipse:

	Azim	Dip	Mag
Max:	30	82	1.7800
Intermediate:	238	6	0.8800
Min:	148	4	0.5900

STOP
E:\BULETINI TETOR 2019\NGJARJ\1800.gse
BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612564 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1800 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/09	02:31:44.27		0.20	41.4587	19.3940				42.5	1.7	11	8	209	0.99	2.74	m	
1870																	

Magnitude Err Nsta Author OrigID

Ml 2.8 0.0 3 1870

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.37	0.0	Pg	02:31:49.909	0.0					---				md_		23936
TIR	0.37	107.0	Sg	02:31:54.922	-5.9					---				m_		23923
TIR	0.37	107.0	AMl	02:31:57.650						---		0.6	0.44	a_	Ml 2.1	12390
VLO	0.99	175.0	Sg	02:32:16.012	-0.0					---				m_		23925
VLO	0.99	175.0	Pg	02:32:04.103	1.7					---				md_		23924
VLO	0.99	175.0	AMl	02:32:21.060						---		0.9	0.60	a_	Ml 2.8	12391
KBN	1.34	127.0	Sg	02:32:26.207	0.1					---				m_		23927
KBN	1.34	127.0	Pg	02:32:08.074	-0.1					---				md_		23926
NEST	1.63	129.0	Sn	02:32:34.620	0.2					---				m_		23929
NEST	1.63	129.0	Pn	02:32:12.918	0.0					---				md_		23928
NOCI	1.88	250.0	Sn	02:32:41.147	0.3					---				m_		23931
NOCI	1.88	250.0	Pn	02:32:16.811	0.2					---				m_		23930
IGT	2.05	159.0	Sn	02:32:44.864	-0.4					---				m_		23933
IGT	2.05	159.0	Pn	02:32:19.244	0.1					---				md_		23932
SGRT	2.74	278.0	Sn	02:33:02.711	-0.2					---				m_		23935
SGRT	2.74	278.0	Pn	02:32:29.092	-0.1					---				m_		23934
SGRT	2.74	278.0	AMl	02:33:12.790						---		0.1	1.12	a_	Ml 3.0	12392

DATA_TYPE COMMENT GSE2.1
Event 1800

Official Magnitude:
Ml 2.78

Error ellipse:

	Azim	Dip	Mag
Max:	112	83	1.6900
Intermediate:	204	0	1.0000
Min:	294	7	0.3800

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612564 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1801 8 km from Shetaj, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2019/10/09	02:37:14.21		0.11	41.6063	19.4222				47.4	2.2	10	8	218	1.13	2.75	m	
1871																	

Magnitude	Err	Nsta	Author	OrigID
Ml 2.3	0.0	5		1871

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.42	0.0	Pg	02:37:20.792	0.0					___				md_		23948
TIR	0.42	127.0	Sg	02:37:25.242	-7.4					___				m_		23937
TIR	0.42	127.0	AMl	02:37:26.870						___		1.4	0.28	a_	Ml	2.5
VLO	1.14	177.0	Sg	02:37:49.866	-0.1					___				m_		23939
VLO	1.14	177.0	Pg	02:37:35.044	0.4					___				md_		23938
VLO	1.14	177.0	AMl	02:37:54.490						___		0.9	0.46	a_	Ml	2.9
KBN	1.42	133.0	Sg	02:37:57.777	0.1					___				m_		23941
KBN	1.42	133.0	Pg	02:37:39.078	0.0					___				mc_		23940
KBN	1.42	133.0	AMl	02:38:03.840						___		0.1	1.02	a_	Ml	2.3
NEST	1.71	133.0	Sn	02:38:05.960	-0.0					___				m_		23943
NEST	1.71	133.0	Pn	02:37:43.794	-0.0					___				mc_		23942
NEST	1.71	133.0	AMl	02:38:10.460						___		0.1	1.24	a_	Ml	2.3
NOCI	1.96	247.0	Sn	02:38:12.331	0.0					___				m_		23945
NOCI	1.96	247.0	Pn	02:37:47.868	0.5					___				mc_		23944
NOCI	1.96	247.0	AMl	02:38:16.800						___		0.1	0.32	a_	Ml	2.3
SGRT	2.75	275.0	Sn	02:38:32.657	0.1					___				m_		23947
SGRT	2.75	275.0	Pn	02:37:58.858	-0.2					___				md_		23946

DATA_TYPE COMMENT GSE2.1
Event 1801

Official Magnitude:
Ml 2.32

Error ellipse:

	Azim	Dip	Mag
Max:	23	77	2.2700
Intermediate:	201	12	0.6000
Min:	291	0	0.2100

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612564 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1802 1.2 km from Bezhan, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/09	05:43:01.21		0.01	40.4288	20.7445				7.0	1.0	5	7	169	0.20	0.95	m	
1872																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.2	0.0	1	1872

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.20	9.0	Sg	05:43:07.608	-0.0					___				m_		23950

KBN	0.20	9.0	Pg	05:43:04.890	0.0	_____	mc_	23949
NEST	0.23	93.0	Sg	05:43:09.635	0.0	_____	m_	23952
NEST	0.23	93.0	Pg	05:43:06.004	-0.0	_____	mc_	23951
NEST	0.23	93.0	AM1	05:43:12.630		_____	2.0 0.18 a_ M1 2.2	12398
IGT	0.95	200.0	Sn	05:43:33.618	0.0	_____	m_	23954
IGT	0.95	200.0	Pn	05:43:19.990	0.3	_____	mc_	23953

DATA_TYPE COMMENT GSE2.1
Event 1802

Official Magnitude:
M1 2.23

Error ellipse:

	Azim	Dip	Mag
Max:	36	88	1.0400
Intermediate:	104	0	0.0400
Min:	194	2	0.0300

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612564 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1805 1.0 km from Darshen, Tirana, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/10	07:46:49.99		0.05	41.2865	19.9915				14.6	0.6	6	7	194	0.12	1.77	m	
1875																	

Magnitude	Err	Nsta	Author	OrigID
M1	1.9	0.0	3	1875

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.11	0.0	Pg	07:46:48.986	0.0					_____					mc_	23979
TIR	0.11	303.0	Sg	07:46:55.526	-0.0					_____					m_	23972
TIR	0.11	303.0	AM1	07:46:57.580						_____		1.0	0.42	a_	M1	1.9
KBN	0.89	137.0	Sg	07:47:19.714	0.1					_____					m_	23974
KBN	0.89	137.0	Pg	07:47:06.909	-0.0					_____					m_	23973
NEST	1.18	137.0	Sn	07:47:29.414	-0.0					_____					m_	23976
NEST	1.18	137.0	Pn	07:47:08.272	-4.3					_____					mc_	23975
NEST	1.18	137.0	AM1	07:47:33.420						_____		0.1	0.58	a_	M1	1.9
IGT	1.77	171.0	Sn	07:47:47.677	-0.0					_____					m_	23978
IGT	1.77	171.0	Pn	07:47:23.030	0.1					_____					m_	23977
IGT	1.77	171.0	AM1	07:48:08.520						_____		0.1	0.80	a_	M1	2.1

DATA_TYPE COMMENT GSE2.1

Event 1805

Official Magnitude:

Ml 1.93

Error ellipse:

	Azim	Dip	Mag
Max:	8	48	0.7300
Intermediate:	241	27	0.2900
Min:	135	28	0.1000

BEGIN GSE2.1

MSG_TYPE DATA

MSG_ID 1572612564 athena

DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1807 1.3 km from Palaman, Dibër, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/11	05:26:58.03		0.17	41.7848	20.3707				8.6	0.7	12	10	269	0.58	3.00	m	
1877																	

Magnitude	Err	Nsta	Author	OrigID
Ml	3.2	0.0	6	1877
Md	3.0	0.0	7	1877

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.58	222.0	Sg	05:27:17.677	-0.3											23989
TIR	0.58	222.0	Pg	05:27:09.784	0.3											23988
TIR	0.58	222.0	AMl	05:27:22.480								5.3	0.40	a	Ml	12416
TIR	0.58	222.0	AMd	05:27:59.642								0.0	49.86	a	Md	12409
KBN	1.20	164.0	Sg	05:27:35.484	-2.4											23992
KBN	1.20	164.0	Pg	05:27:20.747	-0.1											23991
KBN	1.20	164.0	AMl	05:27:40.770								1.8	0.68	a	Ml	12418
KBN	1.20	164.0	AMd	05:28:17.956								0.0	57.21	a	Md	12410
BPA1	1.20	0.0	Pn	05:27:26.945	0.0											24002
BPA1	1.19	208.0	Sn	05:27:38.565	0.3											23990
BPA1	1.19	208.0	AMl	05:27:54.930								0.4	0.58	a	Ml	12417
NEST	1.46	159.0	Sg	05:27:42.814	-3.9											23994
NEST	1.46	159.0	Pg	05:27:25.934	0.1											23993
NEST	1.46	159.0	AMl	05:27:49.590								1.0	0.46	a	Ml	12419
NEST	1.46	159.0	AMd	05:28:38.862								0.0	72.93	a	Md	12411
KEK	2.12	193.0	Sn	05:28:06.000	0.1											23996
KEK	2.12	193.0	Pn	05:27:36.705	-0.1											23995
KEK	2.12	193.0	AMl	05:28:17.590								743.0	0.36	a	Ml	12420
KEK	2.12	193.0	AMd	05:29:06.039								0.0	89.33	a	Md	12412
IGT	2.25	181.0	Sn	05:28:09.430	0.0											23998

IGT	2.25	181.0	Pn	05:27:38.739	-0.1	---												m		23997	
IGT	2.25	181.0	AMd	05:29:08.553		---												a	Md	2.9	12413
NOCI	2.68	250.0	Sn	05:28:20.504	-0.1	---												m			24000
NOCI	2.68	250.0	Pn	05:27:45.252	0.1	---												m			23999
NOCI	2.68	250.0	AMl	05:28:37.420		---												a	Ml	3.2	12421
NOCI	2.68	250.0	AMd	05:29:17.747		---												a	Md	3.5	12414
LKD2	3.00	175.0	Pn	05:27:49.733	-0.1	---												m			24001
LKD2	3.00	175.0	AMd	05:29:25.273		---												a	Md	3.0	12415

DATA_TYPE COMMENT GSE2.1
Event 1807

Official Magnitude:
Ml 3.17

Error ellipse:

	Azim	Dip	Mag
Max:	5	5	0.8100
Intermediate:	240	80	0.7400
Min:	96	8	0.5500

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612563 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1811 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/12	01:39:20.43		0.26	42.1690	18.6393				15.9	2.3	9	16	231	1.23	2.93	m	
1881																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.8	0.0	4	1881

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	1.23	0.0	P	01:39:42.533	0.0											md	24069
TIR	1.23	131.0	S	01:40:01.311	0.1											m	24058
TIR	1.23	131.0	AMl	01:40:04.140								0.6	0.52	a	Ml	2.7	12437
NOCI	1.82	222.0	Sn	01:40:19.063	-0.1											m	24062
NOCI	1.82	222.0	Pn	01:39:53.817	-0.2											md	24061
NOCI	1.82	222.0	AMl	01:40:20.030								0.3	0.20	a	Ml	2.8	12439
VLO	1.82	158.0	Sn	01:40:18.320	0.4											m	24060
VLO	1.82	158.0	Pn	01:39:52.572	-0.7											mc	24059
VLO	1.82	158.0	AMl	01:40:40.280								0.7	0.44	a	Ml	3.2	12438
SGRT	2.19	260.0	Pn	01:39:59.794	0.3											mc	24063
KBN	2.23	132.0	Sn	01:40:29.012	-0.2											m	24065

KBN	2.23	132.0	Pn	01:39:59.810	0.1	_____	md_	24064
NEST	2.52	133.0	Sn	01:40:37.375	-0.1	_____	m_	24067
NEST	2.52	133.0	Pn	01:40:03.309	-1.1	_____	mc_	24066
NEST	2.52	133.0	AM1	01:40:48.260		_____	a_	12440
IGT	2.93	153.0	Pn	01:40:08.814	-1.6	_____	md_	24068

DATA_TYPE COMMENT GSE2.1
Event 1811

Official Magnitude:
Ml 2.80

Error ellipse:

	Azim	Dip	Mag
Max:	2	65	2.5400
Intermediate:	194	23	1.3500
Min:	102	5	0.5500

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612563 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1813 2.6 km from Gjyrës, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/12	13:05:11.09		0.01	40.5373	20.8803				14.3	0.1	5	5	172	0.11	1.09	m	
1883																	

Magnitude	Err	Nsta	Author	OrigID
Ml	1.6	0.0	2	1883

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.11	321.0	Sg	13:05:15.719	0.0					_____				m_		24082
KBN	0.11	321.0	Pg	13:05:13.715	-0.0					_____				mc_		24081
NEST	0.18	133.0	Sg	13:05:18.330	-0.0					_____				m_		24084
NEST	0.18	133.0	Pg	13:05:14.793	-0.4					_____				mc_		24083
NEST	0.18	133.0	AM1	13:05:21.520						_____		0.6	0.42	a_	Ml	1.7
IGT	1.09	203.0	Sn	13:05:47.636	-0.0					_____				m_		24086
IGT	1.09	203.0	Pn	13:05:31.988	0.0					_____				mc_		24085
IGT	1.09	203.0	AM1	13:05:49.650						_____		0.0	1.24	a_	Ml	1.6

DATA_TYPE COMMENT GSE2.1
Event 1813

Official Magnitude:
Ml 1.64

Error ellipse:

	Azim	Dip	Mag
Max:	43	46	0.1700
Intermediate:	273	31	0.0300
Min:	165	27	0.0200

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612563 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1814 2.6 km from Gjyrës, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID	2019/10/12	13:05:11.09	0.01	40.5373	20.8803				14.3	0.1	5	5	172	0.11	1.09	m	
1884																	

Magnitude	Err	Nsta	Author	OrigID
M1	1.6	0.0	2	1884

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
KBN	0.11	321.0	Sg	13:05:15.719	0.0									m__		24088	
KBN	0.11	321.0	Pg	13:05:13.715	-0.0									mc__		24087	
NEST	0.18	133.0	Sg	13:05:18.330	-0.0									m__		24090	
NEST	0.18	133.0	Pg	13:05:14.793	-0.4									mc__		24089	
NEST	0.18	133.0	AMl	13:05:21.520								0.6	0.42	a__	Ml	1.7	12445
IGT	1.09	203.0	Sn	13:05:47.636	-0.0									m__		24092	
IGT	1.09	203.0	Pn	13:05:31.988	0.0									mc__		24091	
IGT	1.09	203.0	AMl	13:05:49.650								0.0	1.24	a__	Ml	1.6	12446

DATA_TYPE COMMENT GSE2.1
Event 1814

Official Magnitude:
M1 1.64

Error ellipse:

	Azim	Dip	Mag
Max:	43	46	0.1700
Intermediate:	273	31	0.0300
Min:	165	27	0.0200

BEGIN GSE2.1
MSG_TYPE DATA

MSG_ID 1572612563 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1815 1.9 km from Kozel, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID	2019/10/12	13:36:33.19	0.01	40.4487	20.7460				10.9	0.7	5	5	170	0.18	0.97	m	
1885																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.4	0.0	1	1885

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
KBN	0.18	10.0	Sg	13:36:39.193	0.0					---				m_		24094	
KBN	0.18	10.0	Pg	13:36:36.643	0.0					---				mc_		24093	
NEST	0.23	98.0	Sg	13:36:41.810	-0.0					---				m_		24096	
NEST	0.23	98.0	Pg	13:36:38.118	0.0					---				mc_		24095	
NEST	0.23	98.0	AMl	13:36:42.330						---		2.8	0.34	a_	Ml	2.4	12447
IGT	0.97	200.0	Sn	13:37:09.172	2.9					---				m_		24098	
IGT	0.97	200.0	Pn	13:36:52.087	-0.0					---				mc_		24097	

DATA_TYPE COMMENT GSE2.1
Event 1815

Official Magnitude:
Ml 2.40

Error ellipse:

	Azim	Dip	Mag
Max:	43	71	0.7400
Intermediate:	268	13	0.0400
Min:	175	13	0.0300

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612563 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1816 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID	2019/10/12	16:41:07.17	0.05	41.9988	19.9080				3.0	0.3	10	10	269	0.65	2.48	m	
1886																	

Magnitude	Err	Nsta	Author	OrigID
Md	3.1	0.0	6	1886

M1 2.7 0.0 5 1886

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.65	0.0	Pg	16:41:23.359	0.0									m		24111
TIR	0.65	183.0	Sg	16:41:30.070	0.0									m		24099
TIR	0.65	183.0	AMl	16:41:37.010								0.6	0.30	a	Ml	2.2
BPA1	1.29	189.0	Sg	16:41:51.376	0.0									m		24101
BPA1	1.29	189.0	Pg	16:41:32.299	-0.1									m		24100
BPA1	1.29	189.0	AMd	16:42:39.495								0.0	67.20	a	Md	3.1
KBN	1.52	153.0	Sg	16:41:57.406	-0.5									m		24103
KBN	1.52	153.0	Pg	16:41:36.172	0.0									m		24102
KBN	1.52	153.0	AMd	16:42:17.621								0.0	41.45	a	Md	2.0
KBN	1.52	153.0	AMl	16:42:04.580								0.6	0.68	a	Ml	3.0
NEST	1.80	151.0	Pg	16:41:41.595	0.1									m		24104
NEST	1.80	151.0	AMd	16:42:40.087								0.0	58.49	a	Md	3.0
NEST	1.80	151.0	AMl	16:42:10.770								0.3	0.36	a	Ml	2.8
KEK	2.28	183.0	Sn	16:42:20.996	0.3									m		24106
KEK	2.28	183.0	Pn	16:41:49.197	0.0									m		24105
KEK	2.28	183.0	AMd	16:43:10.967								0.0	81.77	a	Md	3.4
NOCI	2.46	242.0	Sg	16:42:25.172	0.0									m		24108
NOCI	2.46	242.0	Pg	16:41:51.728	0.0									m		24107
NOCI	2.46	242.0	AMd	16:43:28.746								0.0	97.02	a	Md	3.6
NOCI	2.46	242.0	AMl	16:42:31.310								0.1	0.34	a	Ml	2.7
IGT	2.48	172.0	Sn	16:42:25.798	-0.1									m		24110
IGT	2.48	172.0	Pn	16:41:52.150	0.0									m		24109
IGT	2.48	172.0	AMd	16:42:57.314								0.0	65.16	a	Md	2.6
IGT	2.48	172.0	AMl	16:42:38.180								0.1	1.08	a	Ml	2.7

DATA_TYPE COMMENT GSE2.1
Event 1816

Official Magnitude:
Ml 2.71

Error ellipse:

	Azim	Dip	Mag
Max:	59	61	0.3700
Intermediate:	201	23	0.1900
Min:	298	16	0.1600

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612563 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1818 1.1 km from Hundëkuq, Gjirokastër, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2019/10/13	08:42:56.21		0.32	40.1925	20.0907				6.1	3.0	8	15	220	0.53	2.38	m	
1888																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.6	0.0	3	1888

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KEK	0.53	206.0	Sg	08:43:14.406	-0.1					---				m		24120
KEK	0.53	206.0	Pg	08:43:08.447	1.8					---				m		24119
VLO	0.53	302.0	Sg	08:43:13.844	0.5					---				m		24122
VLO	0.53	302.0	Pg	08:43:05.441	-0.6					---				m		24121
VLO	0.53	302.0	AMl	08:43:15.910						---		1.9	0.28	a	Ml	2.6
IGT	0.69	164.0	Sg	08:43:19.714	-0.0					---				m		24124
IGT	0.69	164.0	Pg	08:43:09.966	0.3					---				m		24123
LKD2	1.47	162.0	Sn	08:43:45.507	0.1					---				m		24126
LKD2	1.47	162.0	Pn	08:43:24.165	-0.2					---				m		24125
LKD2	1.47	162.0	AMl	08:43:49.710						---		0.2	0.24	a	Ml	2.4
NOCI	2.38	0.0	Pn	08:43:38.409	0.0					---				m		24128
NOCI	2.38	286.0	Sn	08:44:07.756	-3.8					---				m		24127
NOCI	2.38	286.0	AMl	08:44:13.010						---		0.5	0.34	a	Ml	3.3

DATA_TYPE COMMENT GSE2.1
Event 1818

Official Magnitude:
Ml 2.56

Error ellipse:

	Azim	Dip	Mag
Max:	256	74	3.1500
Intermediate:	53	14	1.5400
Min:	144	6	0.5400

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612563 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1820 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2019/10/14	18:44:57.00		1.68	41.4137	19.4868				38.1	19.7	10	15	210	1.55	2.82	m	
1890																	

Magnitude	Err	Nsta	Author	OrigID
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M1 2.0 0.0 3 1890

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.43	0.0	Pg	18:45:00.856	0.0											24148
TIR	0.29	102.0	Sg	18:45:02.393	-8.7											24137
TIR	0.29	102.0	AMl	18:45:02.470								2.2	0.20	a	Ml	12470
TIR	0.29	102.0	AMl	18:45:02.460								1.6	0.20	a	Ml	12469
NEST	1.55	129.0	Sn	18:45:46.346	0.9											24139
NEST	1.55	129.0	Pn	18:45:24.729	0.0											24138
NEST	1.55	129.0	AMl	18:45:48.800								0.0	0.60	a	Ml	12472
NEST	1.55	129.0	AMl	18:45:46.720								0.0	0.60	a	Ml	12471
KEK	1.72	172.0	Sn	18:45:48.161	-1.6											24141
KEK	1.72	172.0	Pn	18:45:32.843	5.7											24140
NOCI	1.93	252.0	Sn	18:45:57.723	2.3											24143
NOCI	1.93	252.0	Pn	18:45:30.047	-0.3											24142
NOCI	1.93	252.0	AMl	18:46:12.750								0.0	0.52	a	Ml	12474
NOCI	1.93	252.0	AMl	18:46:10.390								0.0	0.38	a	Ml	12473
IGT	1.99	160.0	Sn	18:45:55.636	-1.1											24145
IGT	1.99	160.0	Pn	18:45:33.318	2.2											24144
SGRT	2.82	279.0	Sn	18:46:17.727	-0.4											24147
SGRT	2.82	279.0	Pn	18:45:39.247	-4.1											24146

DATA_TYPE COMMENT GSE2.1
Event 1820

Official Magnitude:
M1 2.04

Error ellipse:

	Azim	Dip	Mag
Max:	27	70	20.9000
Intermediate:	206	19	8.7700
Min:	296	0	3.2400

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612563 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1821 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2019/10/15	05:27:16.87		0.18	40.7805	20.7922				20.5	15.0	6	14	314	0.15	1.30	m	
1891																	

Magnitude	Err	Nsta	Author	OrigID
M1	1.8	0.0	2	1891

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.16	182.0	Sg	05:27:23.402	0.3					---				m		24150
KBN	0.16	182.0	Pg	05:27:20.910	0.5					---				m		24149
KBN	0.16	182.0	AMl	05:27:24.090						---		1.6	0.16	a	Ml	2.2
NEST	0.41	151.0	Sg	05:27:31.770	-0.2					---				m		24152
NEST	0.41	151.0	Pg	05:27:25.635	0.2					---				m		24151
NEST	0.41	151.0	AMl	05:27:36.510						---		0.2	0.36	a	Ml	1.3
IGT	1.30	197.0	Sn	05:27:59.241	-0.1					---				m		24154
IGT	1.30	197.0	Pn	05:27:40.992	-0.1					---				m		24153

DATA_TYPE COMMENT GSE2.1
Event 1821

Official Magnitude:
Ml 1.77

Error ellipse:

	Azim	Dip	Mag
Max:	0	90	15.0200
Intermediate:	167	0	1.2200
Min:	257	0	0.8500

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612563 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1828 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/17	18:40:26.91		0.06	40.1640	20.7837				19.8	0.7	8	7	147	0.32	2.90	m	
1899																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.2	0.0	4	1899
Md	2.3	0.0	4	1899

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
NEST	0.32	38.0	Sg	18:40:39.197	0.1					---				m		24210
NEST	0.32	38.0	Pg	18:40:33.799	-0.1					---				m		24209
NEST	0.32	38.0	AMl	18:40:42.450						---		1.6	0.22	a	Ml	2.3
NEST	0.32	38.0	AMd	18:41:14.283						---		0.0	40.48	a	Md	2.5
KBN	0.46	0.0	Sg	18:40:42.519	-0.0					---				m		24212
KBN	0.46	0.0	Pg	18:40:35.845	0.0					---				m		24211
KBN	0.46	0.0	AMl	18:40:48.440						---		0.5	0.74	a	Ml	2.0
KBN	0.46	0.0	AMd	18:41:09.708						---		0.0	33.86	a	Md	1.8

IGT	0.72	210.0	Sg	18:40:51.532	0.0	---										m		24214
IGT	0.72	210.0	Pg	18:40:41.154	0.2	---										m		24213
IGT	0.72	210.0	AMl	18:40:55.560		---						0.3	0.32	a	Ml	2.1		12505
IGT	0.72	210.0	AMd	18:41:30.480		---						0.0	49.33	a	Md	2.1		12501
LKD2	1.38	185.0	Sn	18:41:06.060	-5.8	---										m		24216
LKD2	1.38	185.0	Pn	18:40:52.558	-0.0	---										m		24215
LKD2	1.38	185.0	AMd	18:41:53.107		---						0.0	60.55	a	Md	2.4		12502
NOCI	2.90	284.0	Sn	18:41:53.070	-0.0	---										m		24217
NOCI	2.90	284.0	AMl	18:42:03.870		---						0.1	0.32	a	Ml	2.7		12506

DATA_TYPE COMMENT GSE2.1
Event 1828

Official Magnitude:
Ml 2.17

Error ellipse:

	Azim	Dip	Mag
Max:	79	55	0.8100
Intermediate:	310	23	0.1800
Min:	209	24	0.0900

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612562 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1831 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/17	19:59:05.34		0.32	40.1103	19.9425				38.0	1.4	10	8	121	0.41	1.43	m	
1902																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.7	0.0	4	1902

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KEK	0.41	196.0	Sg	19:59:22.222	-0.0					---					m	24232
KEK	0.41	196.0	Pg	19:59:15.563	0.6					---					mc	24231
VLO	0.49	317.0	Sg	19:59:23.048	-0.1					---					m	24234
VLO	0.49	317.0	Pg	19:59:13.626	-1.9					---					mc	24233
VLO	0.49	317.0	AMl	19:59:24.630						---		5.4	0.38	a	Ml	3.1
IGT	0.65	152.0	Sg	19:59:28.431	-0.3					---					m	24236
IGT	0.65	152.0	Pg	19:59:16.523	-2.2					---					md	24235
IGT	0.65	152.0	AMl	19:59:34.860						---		0.8	0.22	a	Ml	2.5
KBN	0.82	51.0	Sg	19:59:33.016	0.1					---					m	24238
KBN	0.82	51.0	Pg	19:59:21.204	0.1					---					mc	24237

NEST	0.90	69.0	Sg	19:59:35.978	0.1	---									m_		24240
NEST	0.90	69.0	Pg	19:59:21.691	-1.1	---									mc_		24239
NEST	0.90	69.0	AMl	19:59:41.640		---					0.3	0.62	a_	Ml		2.2	12521
LKD2	1.43	157.0	Sn	19:59:50.943	0.3	---									m_		24242
LKD2	1.43	157.0	Pn	19:59:30.761	-0.5	---									md_		24241
LKD2	1.43	157.0	AMl	19:59:56.640		---					0.6	0.38	a_	Ml		2.9	12522

DATA_TYPE COMMENT GSE2.1
Event 1831

Official Magnitude:
Ml 2.68

Error ellipse:

	Azim	Dip	Mag
Max:	297	66	1.5400
Intermediate:	100	22	0.7900
Min:	193	6	0.6100

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612562 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1840 1.9 km from Shuec, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/21	21:18:06.42		0.31	40.6872	20.9840				6.2	8.3	5	7	256	0.16	1.37	m	
1911																	

Magnitude	Err	Nsta	Author	OrigID
Ml	1.6	0.0	3	1911
Md	2.1	0.0	1	1911

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
NEST	0.00	0.0	Pg	21:18:11.731	0.0										mci	24329
NEST	0.28	169.0	Sg	21:18:16.013	-0.3										m_	24325
NEST	0.28	169.0	AMl	21:18:17.310								0.4	0.10	a_	Ml	1.5
NEST	0.28	169.0	AMl	21:18:16.150								0.4	0.16	a_	Ml	1.6
KBN	0.16	248.0	Sg	21:18:11.266	-0.4										m_	24324
KBN	0.16	248.0	Pg	21:18:09.084	-0.3										mdi	24323
KBN	0.16	248.0	AMl	21:18:12.640								1.5	0.12	a_	Ml	2.0
KBN	0.16	248.0	AMd	21:18:57.791								0.0	48.71	a_	Md	2.1
IGT	1.26	204.0	Sn	21:18:45.256	-3.8										m_	24327
IGT	1.26	204.0	Pn	21:18:31.073	0.3										mdi	24326
IGT	1.26	204.0	AMl	21:18:51.790								0.0	0.96	a_	Ml	1.5
THL	1.37	144.0	Sn	21:18:52.163	-0.5										m_	24328

DATA_TYPE COMMENT GSE2.1
Event 1840

Official Magnitude:
Ml 1.56

Error ellipse:

	Azim	Dip	Mag
Max:	228	76	8.5500
Intermediate:	36	12	3.3100
Min:	127	3	0.9100

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612562 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1841 1.9 km from Grapsh, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2019/10/21	21:19:51.81		0.00	40.5902	20.8602				8.0	0.1	4	3	198	0.06	1.13	m	
1912																	

Magnitude	Err	Nsta	Author	OrigID
Ml	1.2	0.0	2	1912
Md	1.9	0.0	2	1912

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.06	302.0	Sg	21:19:54.033	0.0					___				m___		24331
KBN	0.06	302.0	Pg	21:19:53.078	0.0					___				mce		24330
KBN	0.06	302.0	AMl	21:19:55.800						___		0.6	0.20	a___	Ml	1.4
KBN	0.06	302.0	AMd	21:20:22.759						___		0.0	29.68	a___	Md	1.6
NEST	0.23	140.0	Sg	21:20:00.050	0.0					___				m___		24333
NEST	0.23	140.0	Pg	21:19:55.903	-0.6					___				mci		24332
NEST	0.23	140.0	AMl	21:20:00.780						___		0.1	0.14	a___	Ml	1.1
NEST	0.23	140.0	AMl	21:20:00.200						___		0.2	0.18	a___	Ml	1.2
NEST	0.23	140.0	AMd	21:20:25.973						___		0.0	30.07	a___	Md	2.2
IGT	1.13	202.0	Pn	21:20:13.843	0.0					___				m___		24334

DATA_TYPE COMMENT GSE2.1
Event 1841

Official Magnitude:
Ml 1.16

Error ellipse:

	Azim	Dip	Mag
Max:	24	55	0.0900
Intermediate:	234	30	0.0300
Min:	135	14	0.0100

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612562 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1842 2.0 km from Moravë, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/21	21:20:37.95		0.18	40.5710	20.8208				16.5	1.2	7	4	156	0.05	1.36	m	
1913																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.3	0.0	3	1913
Md	2.8	0.0	2	1913

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.06	335.0	Sg	21:20:41.318	-0.7									m__		24336
KBN	0.06	335.0	Pg	21:20:40.329	0.0									mdi		24335
KBN	0.06	335.0	AMl	21:20:42.670								9.1	0.32	a__	Ml	2.8
KBN	0.06	335.0	AMd	21:21:51.894								0.0	71.57	a__	Md	2.5
NEST	0.23	131.0	Sg	21:20:47.345	0.2									m__		24338
NEST	0.23	131.0	Pg	21:20:43.079	-0.1									mci		24337
NEST	0.23	131.0	AMl	21:20:50.610								2.4	0.36	a__	Ml	2.4
NEST	0.23	131.0	AMl	21:20:47.710								1.6	0.22	a__	Ml	2.2
NEST	0.23	131.0	AMd	21:22:00.668								0.0	77.59	a__	Md	3.2
IGT	1.10	201.0	Sn	21:21:14.478	-0.3									m__		24340
IGT	1.10	201.0	Pn	21:20:59.208	0.2									mce		24339
IGT	1.10	201.0	AMl	21:21:21.850								0.2	0.46	a__	Ml	2.2
THL	1.36	137.0	Sn	21:21:21.110	-1.6									m__		24342
THL	1.36	137.0	Pn	21:21:03.442	-0.1									mce		24341

DATA_TYPE COMMENT GSE2.1
Event 1842

Official Magnitude:
Ml 2.29

Error ellipse:

	Azim	Dip	Mag
Max:	23	44	1.6500
Intermediate:	276	15	0.6800
Min:	172	42	0.4600

BEGIN GSE2.1
 MSG_TYPE DATA
 MSG_ID 1572343913 athena
 DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1861 1.5 km from Bradvicë, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID	2019/10/21	23:35:33.03	0.01	40.5615	20.8663				6.2	0.8	5	4	180	0.09	0.20	m	
1945																	

Magnitude	Err	Nsta	Author	OrigID
Ml	1.1	0.0	2	1945
Md	1.7	0.0	1	1945

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.09	316.0	Sg	23:35:35.706	-0.0					---					m	24701
KBN	0.09	316.0	Pg	23:35:34.579	0.0					---					mde	24700
KBN	0.09	316.0	AMl	23:35:37.510						---		0.3	0.10	a	Ml	1.1
KBN	0.09	316.0	AMd	23:36:07.816						---		0.0	33.24	a	Md	1.7
NEST	0.20	136.0	Sg	23:35:40.410	0.0					---					m	24704
NEST	0.20	136.0	Sg	23:35:40.397	-0.0					---					m	24703
NEST	0.20	136.0	Pg	23:35:37.250	0.0					---					mci	24702
NEST	0.20	136.0	AMl	23:35:41.610						---		0.1	0.18	a	Ml	1.1
NEST	0.20	136.0	AMl	23:35:42.200						---		0.1	0.14	a	Ml	0.9

DATA_TYPE COMMENT GSE2.1
 Event 1861

Official Magnitude:
 Ml 1.06

Error ellipse:

	Azim	Dip	Mag
Max:	226	0	0.8400
Intermediate:	316	88	0.7800
Min:	136	2	0.0200

BEGIN GSE2.1
 MSG_TYPE DATA
 MSG_ID 1572344706 athena
 DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1862 1.5 km from Vithkuq, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2019/10/22	00:53:05.33		0.09	40.5228	20.5648				30.8	0.7	6	6	228	0.20	1.73	m	
1946																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.4	0.0	3	1946
Md	2.6	0.0	2	1946

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.20	59.0	S1	00:53:15.202	0.0										m__	24706
KBN	0.20	59.0	P1	00:53:11.179	0.2										m__	24705
KBN	0.20	59.0	AM1	00:53:16.170								4.2	0.36	a__	M1	2.7
KBN	0.20	59.0	AMd	00:54:08.762								0.0	57.58	a__	Md	2.3
NEST	0.38	106.0	Sg	00:53:20.588	0.1										m__	24708
NEST	0.38	106.0	Pg	00:53:13.897	-0.1										mci	24707
NEST	0.38	106.0	AM1	00:53:20.900								1.5	0.16	a__	M1	2.4
NEST	0.38	106.0	AM1	00:53:24.120								1.6	0.34	a__	M1	2.4
NEST	0.38	106.0	AMd	00:54:12.880								0.0	58.98	a__	Md	2.9
IGT	1.01	191.0	Pn	00:53:24.509	0.0										m__	24709
IGT	1.01	191.0	AM1	00:53:58.240								0.1	0.50	a__	M1	1.9
THL	1.47	130.0	Sn	00:53:52.470	0.0										m__	24711
THL	1.47	130.0	P	00:53:31.343	-0.9										m__	24710
LKD2	1.73	177.0	Sn	00:53:26.518	-10.0										m__	24713
LKD2	1.73	177.0	P1	00:53:05.587	-10.0										m__	24712

DATA_TYPE COMMENT GSE2.1
Event 1862

Official Magnitude:
Ml 2.38

Error ellipse:

	Azim	Dip	Mag
Max:	351	40	1.0100
Intermediate:	106	26	0.3600
Min:	219	39	0.2600

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612561 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1851 0.4 km from Koxhas, Durrës, Albania

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

2019/10/26 10:46:35.15 0.16 41.3583 19.5783 29.7 0.8 11 10 104 0.22 1.98 m
1935

Magnitude	Err	Nsta	Author	OrigID
Ml	2.9	0.0	7	1935
Md	2.8	0.0	7	1935

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.22	92.0	Sg	10:46:43.432	-2.6					___				m		24584
TIR	0.22	92.0	Pg	10:46:41.405	0.1					___				m		24583
TIR	0.22	92.0	AMl	10:46:45.830						___		8.7	0.18	a	Ml	12714
TIR	0.22	92.0	AMd	10:47:16.018						___		0.0	34.61	a	Md	12707
VLO	0.89	185.0	Sn	10:47:04.304	0.3					___				m		24586
VLO	0.89	185.0	Pn	10:46:51.271	-0.4					___				m		24585
VLO	0.89	185.0	AMl	10:47:16.100						___		1.5	0.20	a	Ml	12715
VLO	0.89	185.0	AMd	10:47:36.133						___		0.0	44.86	a	Md	12708
PDG	1.10	348.0	Pg	10:46:55.991	0.1					___				m		24587
PDG	1.10	348.0	AMl	10:47:19.718						___		2407.0	0.16	a	Ml	12716
PDG	1.10	348.0	AMd	10:48:00.958						___		0.0	64.97	a	Md	12709
KBN	1.17	128.0	Sn	10:47:12.907	0.0					___				m		24589
KBN	1.17	128.0	Pn	10:46:56.604	-0.1					___				m		24588
KBN	1.17	128.0	AMl	10:47:19.610						___		0.6	0.48	a	Ml	12717
KBN	1.17	128.0	AMd	10:47:53.679						___		0.0	57.07	a	Md	12710
NEST	1.46	129.0	Sg	10:47:22.322	0.2					___				m		24591
NEST	1.46	129.0	Pg	10:47:02.006	-0.0					___				m		24590
NEST	1.46	129.0	AMl	10:47:29.840						___		0.2	0.48	a	Ml	12718
NEST	1.46	129.0	AMd	10:48:25.776						___		0.0	83.77	a	Md	12711
IGT	1.91	162.0	Sg	10:47:34.209	0.0					___				m		24593
IGT	1.91	162.0	Pg	10:47:08.813	-0.1					___				m		24592
IGT	1.91	162.0	AMl	10:47:46.830						___		0.2	0.40	a	Ml	12719
IGT	1.91	162.0	AMd	10:48:33.270						___		0.0	84.46	a	Md	12712
NOCI	1.98	255.0	Sg	10:47:34.563	-1.5					___				m		24595
NOCI	1.98	255.0	Pg	10:47:09.974	0.0					___				m		24594
NOCI	1.98	255.0	AMl	10:47:46.010						___		0.3	0.30	a	Ml	12720
NOCI	1.98	255.0	AMd	10:48:29.414						___		0.0	79.44	a	Md	12713

DATA_TYPE COMMENT GSE2.1
Event 1851

Official Magnitude:
Ml 2.91

Error ellipse:

	Azim	Dip	Mag
Max:	25	64	0.9000
Intermediate:	246	19	0.5300
Min:	150	16	0.4000

BEGIN GSE2.1
 MSG_TYPE DATA
 MSG_ID 1572612561 athena
 DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1852 0.4 km from Koshnicë, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/27	03:59:13.84		0.43	40.5338	20.9152				25.0	1.2	16	12	117	0.13	2.94	m	
1936																	

Magnitude	Err	Nsta	Author	OrigID
Ml	3.2	0.0	6	1936
Md	3.7	0.0	3	1936

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.13	313.0	Sg	03:59:19.639	-1.6											24597
KBN	0.13	313.0	Pg	03:59:16.975	-1.1											24596
KBN	0.13	313.0	AMl	03:59:20.250								23.8	0.28	a__	Ml	3.4
KBN	0.13	313.0	AMd	04:00:58.654								0.0	101.68	a__	Md	2.8
NEST	0.16	139.0	Sn	03:59:20.915	-1.6											24599
NEST	0.16	139.0	Pg	03:59:18.274	-0.5											24598
NEST	0.16	139.0	AMl	03:59:22.570								11.9	0.20	a__	Ml	3.1
NEST	0.16	139.0	AMl	03:59:22.470								15.2	0.32	a__	Ml	3.2
NEST	0.16	139.0	AMd	04:01:29.697								0.0	131.42	a__	Md	3.7
VLO	1.08	268.0	Sn	03:59:48.433	-0.0											24601
VLO	1.08	268.0	Pn	03:59:33.689	0.1											24600
VLO	1.08	268.0	AMl	03:59:51.380								3.8	0.44	a__	Ml	3.5
VLO	1.08	268.0	AMl	03:59:53.290								3.0	0.52	a__	Ml	3.4
IGT	1.10	205.0	Sn	03:59:49.935	-0.2											24603
IGT	1.10	205.0	Pn	03:59:31.982	-2.6											24602
IGT	1.10	205.0	AMl	03:59:50.660								1.1	0.50	a__	Ml	2.9
TIR	1.14	316.0	Sn	03:59:51.402	0.1											24605
TIR	1.14	316.0	Pn	03:59:35.141	-0.1											24604
TIR	1.14	316.0	AMl	03:59:59.540								1.0	0.82	a__	Ml	2.9
TIR	1.14	316.0	AMl	04:00:00.900								0.5	0.50	a__	Ml	2.6
KEK	1.19	227.0	Sn	03:59:52.778	-0.1											24607
KEK	1.19	227.0	Pn	03:59:36.720	0.6											24606
KEK	1.19	227.0	AMd	04:01:49.874								0.0	133.15	a__	Md	3.8
THE	1.56	85.0	Sn	04:00:04.290	0.0											24609
THE	1.56	85.0	Pn	03:59:42.742	0.1											24608
LKD2	1.75	187.0	Sn	04:00:09.505	-0.0											24611
LKD2	1.75	187.0	Pn	03:59:45.957	0.3											24610
LKD2	1.75	187.0	AMl	04:00:18.380								0.9	0.94	a__	Ml	3.3
PDG	2.27	328.0	P	03:59:52.945	-0.2											24612
NOCI	2.94	277.0	P	03:59:59.922	-3.2											24613

DATA_TYPE COMMENT GSE2.1
 Event 1852

Official Magnitude:

Ml 3.22

Error ellipse:

	Azim	Dip	Mag
Max:	287	75	1.2800
Intermediate:	169	6	0.8300
Min:	78	13	0.7000

BEGIN GSE2.1

MSG_TYPE DATA

MSG_ID 1572612561 athena

DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1854 2.2 km from Porto-Romano, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/27	15:06:53.21		0.18	41.3808	19.4113				16.4	1.2	9	9	101	0.34	1.97	m	1938

Magnitude	Err	Nsta	Author	OrigID
Ml	2.4	0.0	5	1938
Md	2.7	0.0	5	1938

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.34	95.0	Sg	15:07:05.555	-0.2									m		24625
TIR	0.34	95.0	Pg	15:07:00.364	-0.0									m		24624
TIR	0.34	95.0	AMl	15:07:06.740								1.9	0.18	a	Ml	2.4
TIR	0.34	95.0	AMd	15:07:27.458								0.0	27.09	a	Md	2.1
PDG	1.05	354.0	Sg	15:07:28.457	0.0									m		24627
PDG	1.05	354.0	Pg	15:07:07.244	-6.1									m		24626
PDG	1.05	354.0	AMl	15:07:32.418								564.0	0.16	a	Ml	5.6
PDG	1.05	354.0	AMd	15:07:53.200								0.0	45.96	a	Md	2.7
NEST	1.57	127.0	Sn	15:07:44.637	0.1									m		24629
NEST	1.57	127.0	Pn	15:07:22.613	0.1									m		24628
NEST	1.57	127.0	AMl	15:07:50.950								0.0	0.34	a	Ml	1.7
NEST	1.57	127.0	AMd	15:08:23.577								0.0	60.96	a	Md	3.0
NOCI	1.87	253.0	Sn	15:07:53.221	-0.1									m		24631
NOCI	1.87	253.0	Pn	15:07:28.247	0.7									m		24630
NOCI	1.87	253.0	AMl	15:08:08.350								0.1	0.22	a	Ml	2.3
NOCI	1.87	253.0	AMd	15:08:36.031								0.0	67.78	a	Md	3.2
IGT	1.97	158.0	Sn	15:07:55.799	-0.3									m		24633
IGT	1.97	158.0	Pn	15:07:29.485	0.4									m		24632
IGT	1.97	158.0	AMd	15:08:37.352								0.0	67.87	a	Md	2.6
LKD2			AMl	15:08:23.680								0.1	1.28	a	Ml	2.8

DATA_TYPE COMMENT GSE2.1
Event 1854

Official Magnitude:
Ml 2.35

Error ellipse:

	Azim	Dip	Mag
Max:	59	58	1.3800
Intermediate:	196	24	0.4200
Min:	295	19	0.3500

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612561 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1855 10 km from Porto-Romano, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/27	15:46:30.74		0.32	41.3772	19.3143				13.5	2.2	10	8	106	0.41	2.00	m	
1939																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.6	0.0	5	1939
Md	2.8	0.0	6	1939

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.42	93.0	Sg	15:46:43.408	-2.1									m		24635
TIR	0.42	93.0	Pg	15:46:38.752	-0.4									m		24634
TIR	0.42	93.0	AMl	15:46:45.040								5.9	0.20	a	Ml	12751
TIR	0.42	93.0	AMd	15:47:11.366								0.0	32.61	a	Md	12745
PDG	1.05	358.0	Sg	15:47:06.150	-0.1									m		24637
PDG	1.05	358.0	Pg	15:46:51.114	0.1									m		24636
PDG	1.05	358.0	AMl	15:47:10.898								2136.0	0.14	a	Ml	12752
PDG	1.05	358.0	AMd	15:47:48.500								0.0	57.39	a	Md	12746
KBN	1.34	123.0	Sn	15:47:14.955	0.5									m		24639
KBN	1.34	123.0	Pn	15:46:57.231	1.5									m		24638
KBN	1.34	123.0	AMd	15:47:48.496								0.0	51.27	a	Md	12747
NEST	1.63	125.0	Sn	15:47:24.024	-0.1									m		24641
NEST	1.63	125.0	Pn	15:47:01.372	0.1									m		24640
NEST	1.63	125.0	AMl	15:47:29.230								0.1	0.46	a	Ml	12753
NEST	1.63	125.0	AMd	15:48:08.750								0.0	67.38	a	Md	12748
NOCI	1.80	252.0	Sn	15:47:29.174	-0.2									m		24643
NOCI	1.80	252.0	Pn	15:47:04.721	0.5									m		24642
NOCI	1.80	252.0	AMl	15:47:43.360								0.2	0.28	a	Ml	12754
NOCI	1.80	252.0	AMd	15:48:15.872								0.0	71.15	a	Md	12749

IGT	2.00	156.0	Sn	15:47:33.859	-0.9	_____	m_____	24645
IGT	2.00	156.0	Pn	15:47:07.338	0.0	_____	m_____	24644
IGT	2.00	156.0	AMl	15:47:41.220		_____	0.0 0.30 a_____ Ml	2.1 12755
IGT	2.00	156.0	AMd	15:48:28.712		_____	0.0 81.37 a_____ Md	2.8 12750

DATA_TYPE COMMENT GSE2.1
Event 1855

Official Magnitude:
Ml 2.61

Error ellipse:

	Azim	Dip	Mag
Max:	51	73	2.3000
Intermediate:	219	15	0.8200
Min:	310	3	0.6000

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612561 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1856 1.2 km from Fitore, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/27	17:39:06.85		0.32	40.5613	20.9430				12.3	0.9	10	7	196	0.13	2.96	m	
1940																	

Magnitude	Err	Nsta	Author	OrigID
Ml	3.1	0.0	5	1940
Md	2.7	0.0	7	1940

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.13	298.0	Sg	17:39:11.659	-0.1					_____					m_____	24647
KBN	0.13	298.0	Pg	17:39:09.715	0.1					_____					m_____	24646
KBN	0.13	298.0	AMl	17:39:14.070						_____		35.0	0.18	a_____	Ml	3.4 12763
KBN	0.13	298.0	AMd	17:39:44.629						_____		0.0	34.91	a_____	Md	1.8 12756
NEST	0.17	151.0	Sg	17:39:13.440	-0.1					_____					m_____	24649
NEST	0.17	151.0	Pg	17:39:10.799	0.1					_____					m_____	24648
NEST	0.17	151.0	AMl	17:39:18.580						_____		16.7	0.30	a_____	Ml	3.1 12764
NEST	0.17	151.0	AMd	17:39:55.811						_____		0.0	45.01	a_____	Md	2.6 12757
IGT	1.13	205.0	Sg	17:39:44.692	-0.2					_____					m_____	24651
IGT	1.13	205.0	Pg	17:39:28.497	-0.1					_____					m_____	24650
IGT	1.13	205.0	AMl	17:39:53.450						_____		0.5	0.44	a_____	Ml	2.6 12765
IGT	1.13	205.0	AMd	17:40:46.237						_____		0.0	77.74	a_____	Md	2.6 12758
TIR	1.13	315.0	Sn	17:39:45.420	0.5					_____					m_____	24653
TIR	1.13	315.0	Pn	17:39:27.871	-0.8					_____					m_____	24652

TIR	1.13	315.0	AMl	17:39:50.480		0.5	0.56	a	Ml	2.6	12766
TIR	1.13	315.0	AMd	17:40:29.355		0.0	61.48	a	Md	3.0	12759
KEK	1.22	227.0	Pn	17:39:30.393	0.2			m			24654
KEK	1.22	227.0	AMd	17:40:52.562		0.0	82.17	a	Md	3.3	12760
LKD2	1.78	188.0	Pn	17:39:40.489	0.3			m			24655
LKD2	1.78	188.0	AMd	17:40:59.524		0.0	79.03	a	Md	2.7	12761
NOCI	2.96	276.0	Sn	17:40:31.084	-4.7			m			24657
NOCI	2.96	276.0	Pn	17:39:55.166	-2.5			m			24656
NOCI	2.96	276.0	AMl	17:40:50.520		0.3	0.48	a	Ml	3.3	12767
NOCI	2.96	276.0	AMd	17:41:31.380		0.0	96.21	a	Md	3.6	12762

DATA_TYPE COMMENT GSE2.1
Event 1856

Official Magnitude:
Ml 3.11

Error ellipse:

	Azim	Dip	Mag
Max:	60	24	1.7800
Intermediate:	234	65	0.9600
Min:	329	2	0.5700

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612560 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1857 4.9 km from Kodra e Portës, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/27	20:07:51.12		0.05	41.3575	19.3657				14.9	0.4	11	9	103	0.38	2.75	m	
1941																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.6	0.0	6	1941
Md	2.8	0.0	6	1941

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.38	91.0	Sg	20:08:04.375	-0.2									m		24659
TIR	0.38	91.0	Pg	20:07:58.757	-0.1									m		24658
TIR	0.38	91.0	AMl	20:08:05.950								5.3	0.44	a	Ml	12774
TIR	0.38	91.0	AMd	20:08:36.704								0.0	37.95	a	Md	12768
PDG	1.07	356.0	Sg	20:08:27.139	0.0									m		24661
PDG	1.07	356.0	Pg	20:08:11.655	-0.0									m		24660
PDG	1.07	356.0	AMl	20:08:31.348								1294.0	0.24	a	Ml	12776
PDG	1.07	356.0	AMd	20:09:02.798								0.0	51.14	a	Md	12769

KBN	1.30	123.0	Sn	20:08:33.404	0.0	---	m	24662
NEST	1.59	125.0	Sg	20:08:43.070	0.1	---	m	24664
NEST	1.59	125.0	Pg	20:08:20.848	0.1	---	m	24663
NEST	1.59	125.0	AMl	20:08:50.030		---	0.1 0.42 a	Ml 2.1 12777
NEST	1.59	125.0	AMd	20:09:37.675		---	0.0 76.83 a	Md 3.3 12770
NOCI	1.83	253.0	Sn	20:08:50.396	0.0	---	m	24666
NOCI	1.83	253.0	Pn	20:08:25.023	0.0	---	m	24665
NOCI	1.83	253.0	AMl	20:09:06.170		---	0.2 0.28 a	Ml 2.6 12778
NOCI	1.83	253.0	AMd	20:09:50.544		---	0.0 85.52 a	Md 3.4 12771
IGT	1.97	157.0	Sg	20:08:53.874	-0.1	---	m	24668
IGT	1.97	157.0	Pg	20:08:27.028	-0.0	---	m	24667
IGT	1.97	157.0	AMl	20:09:01.460		---	0.1 0.72 a	Ml 2.2 12779
IGT	1.97	157.0	AMd	20:09:52.024		---	0.0 85.00 a	Md 2.8 12772
LKD2	2.75	158.0	Pn	20:08:38.575	0.0	---	m	24669
LKD2	2.75	158.0	AMd	20:09:50.076		---	0.0 71.50 a	Md 2.7 12773
VLO			AMl	20:08:38.480		---	0.7 0.54 a	Ml 2.5 12775

DATA_TYPE COMMENT GSE2.1
Event 1857

Official Magnitude:
Ml 2.58

Error ellipse:

	Azim	Dip	Mag
Max:	48	72	0.3800
Intermediate:	222	17	0.1200
Min:	313	2	0.0900

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612560 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1858 1.4 km from Nikolicë, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID	2019/10/27	22:15:10.81		0.00	40.4750	20.7895			10.0	0.2	4	6	159	0.15	1.01	m	
	1942																

Magnitude	Err	Nsta	Author	OrigID
Ml	1.9	0.0	2	1942

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.15	0.0	S	22:15:15.801	0.0									m		24671
KBN	0.15	0.0	Pg	22:15:13.659	0.0									m		24670
KBN	0.15	0.0	AMl	22:15:17.950								1.4	0.22	a	Ml 2.0	12780

NEST	0.21	0.0	Pg	22:15:15.211	0.0	---	m	24675
NEST	0.21	106.0	S	22:15:18.488	0.0	---	m	24672
NEST	0.21	106.0	AMl	22:15:19.230		---	0.9 0.18 a Ml 1.9	12781
IGT	1.01	201.0	Sn	22:15:45.100	-0.0	---	m	24674
IGT	1.01	201.0	Pn	22:15:29.947	-0.5	---	m	24673

DATA_TYPE COMMENT GSE2.1
Event 1858

Official Magnitude:
Ml 1.94

Error ellipse:

	Azim	Dip	Mag
Max:	35	80	0.2000
Intermediate:	274	4	0.0200
Min:	184	9	0.0100

STOP
E:\BULETINI TETOR 2019\NGJARJ\1859.gse
BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612560 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1859 1.4 km from Katundi i Ri, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/28	13:17:01.07		0.38	41.3920	19.5253				15.7	3.7	8	33	109	0.26	2.85	m	
1943																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.6	0.0	4	1943

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.22	0.0	Pg	13:17:06.668	0.0											24686
TIR	0.26	99.0	Sg	13:17:10.810	-0.1											24676
TIR	0.26	99.0	AMl	13:17:11.470								7.0	0.40	a	Ml	2.9
TIR	0.26	99.0	AMl	13:17:10.910								2.4	0.48	a	Ml	2.4
PDG	1.05	350.0	Sn	13:17:34.173	-2.3											24678
PDG	1.05	350.0	Pn	13:17:21.156	-0.1											24677
NEST	1.51	129.0	Sn	13:17:50.969	0.4											24680
NEST	1.51	129.0	Pn	13:17:29.502	0.1											24679
NEST	1.51	129.0	AMl	13:17:54.670								0.1	0.50	a	Ml	2.2
NOCI	1.96	253.0	Sn	13:18:03.234	-0.3											24682
NOCI	1.96	253.0	Pn	13:17:37.317	0.6											24681
NOCI	1.96	253.0	AMl	13:18:11.740								0.3	0.28	a	Ml	2.9
NOCI	1.96	253.0	AMl	13:18:13.070								0.3	0.42	a	Ml	2.9
IGT	1.96	161.0	Sn	13:18:00.309	-3.3											24684

—		m		24683
—	0.1	0.76	a M1	12787
—		m		24685

NOCI	2.14	286.0	P	01:10:45.363	-0.2	---	m	24696
SGRT	3.39	298.0	P1	01:10:58.602	-5.5	---	m	24698

DATA_TYPE COMMENT GSE2.1
Event 1860

Official Magnitude:
Ml 1.80

Error ellipse:

	Azim	Dip	Mag
Max:	30	82	1.7800
Intermediate:	238	6	0.8800
Min:	148	4	0.5900

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612562 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1861 1.5 km from Bradvicë, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/21	23:35:33.03		0.01	40.5615	20.8663				6.2	0.8	5	4	180	0.09	0.20	m	
1945																	

Magnitude	Err	Nsta	Author	OrigID
Ml	1.1	0.0	2	1945
Md	1.7	0.0	1	1945

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.09	316.0	Sg	23:35:35.706	-0.0					---					m	24701
KBN	0.09	316.0	Pg	23:35:34.579	0.0					---					mde	24700
KBN	0.09	316.0	AMl	23:35:37.510						---		0.3	0.10	a	Ml	1.1
KBN	0.09	316.0	AMd	23:36:07.816						---		0.0	33.24	a	Md	1.7
NEST	0.20	136.0	Sg	23:35:40.410	0.0					---					m	24704
NEST	0.20	136.0	Sg	23:35:40.397	-0.0					---					m	24703
NEST	0.20	136.0	Pg	23:35:37.250	0.0					---					mci	24702
NEST	0.20	136.0	AMl	23:35:41.610						---		0.1	0.18	a	Ml	1.1
NEST	0.20	136.0	AMl	23:35:42.200						---		0.1	0.14	a	Ml	0.9

DATA_TYPE COMMENT GSE2.1
Event 1861

Official Magnitude:
Ml 1.06

Error ellipse:

	Azim	Dip	Mag
Max:	226	0	0.8400
Intermediate:	316	88	0.7800
Min:	136	2	0.0200

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612562 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1862 1.5 km from Vithkuq, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2019/10/22	00:53:05.33		0.09	40.5228	20.5648				30.8	0.7	6	6	228	0.20	1.73	m	
1946																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.4	0.0	3	1946
Md	2.6	0.0	2	1946

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.20	59.0	S1	00:53:15.202	0.0					---				m		24706
KBN	0.20	59.0	P1	00:53:11.179	0.2					---				m		24705
KBN	0.20	59.0	AM1	00:53:16.170						---		4.2	0.36	a	M1	2.7
KBN	0.20	59.0	AMd	00:54:08.762						---		0.0	57.58	a	Md	2.3
NEST	0.38	106.0	Sg	00:53:20.588	0.1					---				m		24708
NEST	0.38	106.0	Pg	00:53:13.897	-0.1					---				mci		24707
NEST	0.38	106.0	AM1	00:53:20.900						---		1.5	0.16	a	M1	2.4
NEST	0.38	106.0	AM1	00:53:24.120						---		1.6	0.34	a	M1	2.4
NEST	0.38	106.0	AMd	00:54:12.880						---		0.0	58.98	a	Md	2.9
IGT	1.01	191.0	Pn	00:53:24.509	0.0					---				m		24709
IGT	1.01	191.0	AM1	00:53:58.240						---		0.1	0.50	a	M1	1.9
THL	1.47	130.0	Sn	00:53:52.470	0.0					---				m		24711
THL	1.47	130.0	P	00:53:31.343	-0.9					---				m		24710
LKD2	1.73	177.0	Sn	00:53:26.518	-10.0					---				m		24713
LKD2	1.73	177.0	P1	00:53:05.587	-10.0					---				m		24712

DATA_TYPE COMMENT GSE2.1
Event 1862

Official Magnitude:
Ml 2.38

Error ellipse:

	Azim	Dip	Mag
Max:	351	40	1.0100

Intermediate: 106 26 0.3600
Min: 219 39 0.2600

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612560 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1863 0.5 km from Çipan, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID	2019/10/29	18:15:00.32	0.43	40.5772	20.9227				18.2	0.8	17	34	132	0.12	2.70	m	1947

Magnitude	Err	Nsta	Author	OrigID
M1	3.3	0.0	7	1947

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.11	295.0	Sg	18:15:05.814	0.0									m		24715
KBN	0.11	295.0	Pg	18:15:03.688	0.2									m		24714
KBN	0.11	295.0	AM1	18:15:06.840								70.5	0.38	a	M1	12803
NEST	0.19	149.0	Sg	18:15:08.121	-0.4									m		24717
NEST	0.19	149.0	Pg	18:15:05.099	0.1									m		24716
NEST	0.19	149.0	AM1	18:15:09.350								40.8	0.22	a	M1	12805
NEST	0.19	149.0	AM1	18:15:09.240								49.6	0.22	a	M1	12804
BPA2	1.00	280.0	Sg	18:15:33.342	-0.5									m		24719
BPA2	1.00	280.0	Pg	18:15:16.968	-2.5									m		24718
VLO	1.09	265.0	Sg	18:15:35.794	0.4									m		24721
VLO	1.09	265.0	Pg	18:15:20.114	-0.3									m		24720
VLO	1.09	265.0	AM1	18:15:39.210								8.9	0.50	a	M1	12806
TIR	1.11	315.0	Sn	18:15:37.043	-0.1									m		24723
TIR	1.11	315.0	Pn	18:15:21.180	-0.2									m		24722
TIR	1.11	315.0	AM1	18:15:42.840								0.7	0.48	a	M1	12808
TIR	1.11	315.0	AM1	18:15:46.370								1.0	0.54	a	M1	12807
IGT	1.14	204.0	Sg	18:15:36.277	-1.8									m		24725
IGT	1.14	204.0	Pg	18:15:19.866	-2.0									m		24724
IGT	1.14	204.0	AM1	18:15:37.430								1.5	0.48	a	M1	12809
KEK	1.22	226.0	Sg	18:15:40.998	0.4									m		24727
KEK	1.22	226.0	Pg	18:15:24.033	0.7									m		24726
THL	1.31	140.0	Sn	18:15:43.559	0.1									m		24729
THL	1.31	140.0	Pn	18:15:24.243	-0.7									m		24728
THE	1.55	87.0	Pn	18:15:29.811	0.6									m		24730
THE	1.55	87.0	AM1	18:15:58.500								0.3	0.64	a	M1	12810
LKD2	1.80	187.0	Sn	18:15:57.799	-0.4									m		24732
LKD2	1.80	187.0	Pn	18:15:32.526	-0.9									m		24731
LKD2	1.80	187.0	AM1	18:16:07.710								0.8	0.74	a	M1	12811
KLK	2.70	158.0	Pn	18:15:47.297	0.6									m		24733

DATA_TYPE COMMENT GSE2.1
Event 1863

Official Magnitude:
Ml 3.27

Error ellipse:

	Azim	Dip	Mag
Max:	38	31	1.2500
Intermediate:	215	58	0.9000
Min:	307	1	0.6100

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612560 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1864 1.0 km from Nikolicë, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2019/10/29	18:37:54.26		0.04	40.4775	20.8173				3.1	0.5	7	11	150	0.14	1.69	m	
1948																	

Magnitude	Err	Nsta	Author	OrigID
Ml	1.8	0.0	2	1948

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.15	352.0	Sg	18:37:59.136	0.0									m		24735
KBN	0.15	352.0	Pg	18:37:56.995	-0.0									m		24734
NEST	0.19	0.0	Pg	18:37:58.394	0.0									m		24743
NEST	0.19	109.0	Sg	18:38:01.407	0.0									m		24736
NEST	0.19	109.0	AMl	18:38:02.530								1.1	0.20	a	Ml	1.9
NEST	0.19	109.0	AMl	18:38:02.630								0.8	0.20	a	Ml	1.8
IGT	1.02	202.0	Sg	18:38:29.352	0.0									m		24738
IGT	1.02	202.0	Pg	18:38:14.249	-0.0									m		24737
IGT	1.02	202.0	AMl	18:38:35.150								0.1	0.66	a	Ml	1.5
KEK	1.09	227.0	Sg	18:38:32.698	0.8									m		24740
KEK	1.09	227.0	Pg	18:38:18.853	3.1									m		24739
LKD2	1.69	185.0	Sn	18:38:50.956	0.0									m		24742
LKD2	1.69	185.0	Pn	18:38:26.586	-0.1									m		24741

DATA_TYPE COMMENT GSE2.1
Event 1864

Official Magnitude:
Ml 1.75

Error ellipse:

	Azim	Dip	Mag
Max:	45	61	0.5800
Intermediate:	281	16	0.0900
Min:	184	23	0.0500

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612559 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1865 2.0 km from Arrëz, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2019/10/29	20:29:43.97		0.11	40.5023	20.8165				17.7	1.8	7	14	148	0.13	1.72	m	
1949																	

Magnitude	Err	Nsta	Author	OrigID
M1	2.0	0.0	3	1949

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.12	350.0	Sg	20:29:49.577	0.0					---						24745
KBN	0.12	350.0	Pg	20:29:47.206	0.0					---						24744
KBN	0.12	350.0	AM1	20:29:50.370						---		1.3	0.30	a	M1	2.0
NEST	0.20	116.0	Sg	20:29:52.292	0.0					---						24747
NEST	0.20	116.0	Pg	20:29:48.651	-0.1					---						24746
NEST	0.20	116.0	AM1	20:29:52.710						---		1.0	0.20	a	M1	2.0
NEST	0.20	116.0	AM1	20:29:52.810						---		0.9	0.22	a	M1	1.9
IGT	1.04	202.0	Sg	20:30:18.661	0.0					---						24749
IGT	1.04	202.0	Pg	20:30:03.597	-0.2					---						24748
KEK	1.11	226.0	Sg	20:30:25.090	4.2					---						24751
KEK	1.11	226.0	Pg	20:30:07.468	2.4					---						24750
KEK	1.11	226.0	AM1	20:30:30.900						---		95.0	0.20	a	M1	4.9
KEK	1.11	226.0	AM1	20:30:27.850						---		72.0	0.30	a	M1	4.7
LKD2	1.72	185.0	Sn	20:30:39.818	0.2					---						24752

DATA_TYPE COMMENT GSE2.1
Event 1865

Official Magnitude:
M1 2.03

Error ellipse:

	Azim	Dip	Mag
Max:	41	51	2.2200
Intermediate:	293	14	0.3500

Min: 193 36 0.2000

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612559 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1866 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/29	21:17:22.97		0.23	40.4997	20.8478				4.1	3.0	7	10	138	0.13	1.71	m	
OrigID 1950																	

Magnitude	Err	Nsta	Author	OrigID
M1	1.4	0.0	2	1950

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.13	340.0	Sg	21:17:27.473	0.2					___				m___		24754
KBN	0.13	340.0	Pg	21:17:25.300	-0.2					___				m___		24753
KBN	0.13	340.0	AMl	21:17:28.980						___		0.4	0.14	a___	Ml	1.4
NEST	0.18	0.0	Pg	21:17:26.872	0.0					___				m___		24761
NEST	0.18	118.0	Sg	21:17:29.984	0.3					___				m___		24755
NEST	0.18	118.0	AMl	21:17:30.870						___		0.4	0.20	a___	Ml	1.4
NEST	0.18	118.0	AMl	21:17:30.970						___		0.2	0.20	a___	Ml	1.2
IGT	1.05	203.0	Sg	21:17:58.593	-0.3					___				m___		24757
IGT	1.05	203.0	Pg	21:17:42.729	-0.7					___				m___		24756
KEK	1.13	227.0	Sg	21:18:01.811	0.3					___				m___		24759
KEK	1.13	227.0	Pg	21:17:47.952	2.9					___				m___		24758
LKD2	1.71	185.0	Sn	21:18:20.268	0.1					___				m___		24760

DATA_TYPE COMMENT GSE2.1
Event 1866

Official Magnitude:
M1 1.38

Error ellipse:

	Azim	Dip	Mag
Max:	43	57	3.5900
Intermediate:	280	18	0.5000
Min:	182	26	0.3400

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612559 athena

DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1867 1.0 km from Sinicë, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/30	00:42:05.73		0.23	40.5202	20.8787				11.4	3.3	8	12	161	0.13	1.74	m	
1951																	

Magnitude	Err	Nsta	Author	OrigID
M1	1.8	0.0	2	1951

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.13	327.0	Sg	00:42:10.286	0.1									m		24763
KBN	0.13	327.0	Pg	00:42:07.942	-0.3									m		24762
KBN	0.13	327.0	AM1	00:42:11.110								1.2	0.32	a	M1	1.9
NEST	0.17	128.0	Sg	00:42:12.352	0.1									m		24765
NEST	0.17	128.0	Pg	00:42:09.489	0.0									m		24764
NEST	0.17	128.0	AM1	00:42:13.670								0.6	0.20	a	M1	1.7
NEST	0.17	128.0	AM1	00:42:13.570								0.8	0.20	a	M1	1.8
IGT	1.07	204.0	Sg	00:42:40.544	-1.6									m		24767
IGT	1.07	204.0	Pg	00:42:24.780	-1.7									m		24766
KEK	1.16	227.0	Sg	00:42:44.702	0.0									m		24769
KEK	1.16	227.0	Pg	00:42:28.288	0.3									m		24768
LKD2	1.74	186.0	Sn	00:43:02.298	-0.4									m		24771
LKD2	1.74	186.0	Pn	00:42:38.520	0.2									m		24770

DATA_TYPE COMMENT GSE2.1

Event 1867

Official Magnitude:

M1 1.77

Error ellipse:

	Azim	Dip	Mag
Max:	41	51	4.2600
Intermediate:	270	27	0.5700
Min:	166	25	0.4600

BEGIN GSE2.1

MSG_TYPE DATA

MSG_ID 1572612559 athena

DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1868 1.7 km from Arrëz, Korçë, Albania

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

2019/10/30 00:45:22.17 0.05 40.4878 20.8300 2.0 0.7 7 13 126 0.14 1.70 m
1952

Magnitude Err Nsta Author OrigID
M1 1.8 0.0 2 1952

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.14	347.0	Sg	00:45:26.689	0.0					___				m		24773
KBN	0.14	347.0	Pg	00:45:24.639	-0.1					___				m		24772
KBN	0.14	347.0	AMl	00:45:27.740						___		1.2	0.34	a	M1 1.9	12826
NEST	0.18	113.0	Sg	00:45:29.083	0.0					___				m		24775
NEST	0.18	113.0	Pg	00:45:26.139	0.0					___				m		24774
NEST	0.18	113.0	AMl	00:45:30.290						___		0.7	0.20	a	M1 1.7	12827
IGT	1.03	203.0	Sn	00:45:57.762	-0.1					___				m		24777
IGT	1.03	203.0	Pn	00:45:41.641	-0.9					___				m		24776
KEK	1.11	227.0	Sn	00:46:00.529	0.1					___				m		24779
KEK	1.11	227.0	Pn	00:45:46.393	2.3					___				m		24778
LKD2	1.70	185.0	Sn	00:46:19.408	0.0					___				m		24780

DATA_TYPE COMMENT GSE2.1
Event 1868

Official Magnitude:
M1 1.79

Error ellipse:

	Azim	Dip	Mag
Max:	45	63	0.7900
Intermediate:	284	14	0.1000
Min:	188	22	0.0800

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612559 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1869 0.8 km from Borsh, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/30	04:29:40.68		0.33	40.5815	20.9443				18.7	0.7	17	33	120	0.13	4.09	m	
1953																	

Magnitude Err Nsta Author OrigID
M1 3.1 0.0 6 1953

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.13	290.0	Sg	04:29:46.415	-0.1					___				m		24782

KBN	0.13	290.0	Pg	04:29:43.897	-0.1
KBN	0.13	290.0	AM1	04:29:47.090	
NEST	0.18	154.0	Sg	04:29:48.942	0.1
NEST	0.18	154.0	Pg	04:29:45.434	0.1
NEST	0.18	154.0	AM1	04:29:49.540	
NEST	0.18	154.0	AM1	04:29:49.640	
VLO	1.11	265.0	Sg	04:30:16.209	-0.0
VLO	1.11	265.0	Pg	04:30:01.273	0.3
VLO	1.11	265.0	AM1	04:30:19.540	
TIR	1.12	314.0	Sn	04:30:18.063	0.3
TIR	1.12	314.0	Pn	04:30:01.432	-0.4
TIR	1.12	314.0	AM1	04:30:27.380	
TIR	1.12	314.0	AM1	04:30:26.030	
IGT	1.15	205.0	Sg	04:30:16.707	-2.0
IGT	1.15	205.0	Pg	04:30:00.181	-2.2
KEK	1.24	226.0	Pn	04:30:04.354	0.4
THL	1.31	140.0	Sn	04:30:24.720	1.2
THL	1.31	140.0	Pn	04:30:04.857	-0.3
THE	1.54	87.0	Sn	04:30:30.694	-0.0
LKD2	1.80	188.0	Sn	04:30:38.347	-0.3
LKD2	1.80	188.0	Pn	04:30:12.901	-0.9
LKD2	1.80	188.0	AM1	04:30:41.790	
PDG	2.24	327.0	Sn	04:30:52.318	2.5
PDG	2.24	327.0	Pn	04:30:20.431	0.2
KLV	2.70	159.0	Pn	04:30:27.561	0.5
SGRT	4.09	289.0	Pn	04:30:47.087	-0.3
SGRT	4.09	289.0	AM1	04:31:32.120	

_____			m_____			24781
_____	28.3	0.46	a_____	M1	3.4	12828
_____			m_____			24784
_____			m_____			24783
_____	21.6	0.20	a_____	M1	3.3	12830
_____	17.1	0.20	a_____	M1	3.2	12829
_____			m_____			24786
_____			m_____			24785
_____	4.1	0.46	a_____	M1	3.5	12831
_____			m_____			24788
_____			m_____			24787
_____	0.4	0.84	a_____	M1	2.5	12833
_____	0.4	0.66	a_____	M1	2.5	12832
_____			m_____			24790
_____			m_____			24789
_____			m_____			24791
_____			m_____			24793
_____			m_____			24792
_____			m_____			24794
_____			m_____			24796
_____			m_____			24795
_____	0.5	0.68	a_____	M1	3.0	12834
_____			m_____			24798
_____			m_____			24797
_____			m_____			24799
_____			m_____			24800
_____	0.0	0.30	a_____	M1	2.9	12835

DATA_TYPE COMMENT GSE2.1
Event 1869

Official Magnitude:
M1 3.13

Error ellipse:

	Azim	Dip	Mag
Max:	217	4	0.8200
Intermediate:	64	84	0.7000
Min:	307	3	0.4900

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612559 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1870 1.8 km from Gjyrës, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2019/10/30	04:41:42.34		0.27	40.5465	20.8943				18.4	0.5	11	33	181	0.11	1.76	m	
1954																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.4	0.0	3	1954

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.11	314.0	Sg	04:41:47.692	-0.2					___					m___	24802
KBN	0.11	314.0	Pg	04:41:45.529	0.0					___					m___	24801
KBN	0.11	314.0	AMl	04:41:48.780						___		3.9	0.34	a___	Ml	2.5
NEST	0.18	138.0	Sg	04:41:50.397	0.2					___					m___	24804
NEST	0.18	138.0	Pg	04:41:46.993	0.2					___					m___	24803
NEST	0.18	138.0	AMl	04:41:51.090						___		3.0	0.20	a___	Ml	2.5
NEST	0.18	138.0	AMl	04:41:51.190						___		2.3	0.22	a___	Ml	2.3
IGT	1.10	204.0	Sg	04:42:17.171	-1.8					___					m___	24806
IGT	1.10	204.0	Pg	04:42:01.689	-1.6					___					m___	24805
IGT	1.10	204.0	AMl	04:42:19.300						___		0.1	0.50	a___	Ml	1.9
TIR	1.12	317.0	Pn	04:42:03.339	-0.2					___					m___	24808
TIR	1.12	317.0	Sn	04:42:19.716	0.4					___					m___	24807
KEK	1.18	226.0	Sn	04:42:21.526	0.1					___					m___	24810
KEK	1.18	226.0	Pn	04:42:06.572	1.9					___					m___	24809
THL	1.30	138.0	Sn	04:42:25.439	0.3					___					m___	24812
THL	1.30	138.0	Pn	04:42:06.016	-0.8					___					m___	24811
LKD2	1.76	187.0	Sn	04:42:39.300	0.1					___					m___	24814
LKD2	1.76	187.0	Pn	04:42:14.619	-0.2					___					m___	24813

DATA_TYPE COMMENT GSE2.1
Event 1870

Official Magnitude:
Ml 2.40

Error ellipse:

	Azim	Dip	Mag
Max:	49	28	1.1200
Intermediate:	259	58	0.6000
Min:	146	14	0.4500

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612559 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1871 1.8 km from Dardhë, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2019/10/30	02:57:46.10		0.41	40.5058	20.8142				17.3	2.5	8	34	149	0.12	1.32	m	
1955																	

Magnitude	Err	Nsta	Author	OrigID
Ml	1.6	0.0	3	1955

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.12	351.0	Sg	02:57:51.601	0.1					---					m	24816
KBN	0.12	351.0	Pg	02:57:49.468	0.3					---					m	24815
KBN	0.12	351.0	AMl	02:57:53.800						---		1.0	0.20	a	Ml	1.9
NEST	0.20	116.0	Sg	02:57:54.244	-0.2					---					m	24818
NEST	0.20	116.0	Pg	02:57:51.007	0.1					---					m	24817
NEST	0.20	116.0	AMl	02:57:55.150						---		0.3	0.16	a	Ml	1.5
NEST	0.20	116.0	AMl	02:57:55.040						---		0.4	0.20	a	Ml	1.6
IGT	1.04	202.0	Sn	02:58:21.214	0.3					---					m	24820
IGT	1.04	202.0	Pn	02:58:05.485	-0.5					---					m	24819
IGT	1.04	202.0	AMl	02:58:25.600						---		0.1	0.40	a	Ml	1.5
KEK	1.11	225.0	Sn	02:58:26.657	3.6					---					m	24822
KEK	1.11	225.0	Pn	02:58:10.911	3.7					---					m	24821
THL	1.32	135.0	Sn	02:58:30.015	0.6					---					m	24824
THL	1.32	135.0	Pn	02:58:10.152	-0.7					---					m	24823

DATA_TYPE COMMENT GSE2.1
Event 1871

Official Magnitude:
Ml 1.57

Error ellipse:

	Azim	Dip	Mag
Max:	21	50	3.3000
Intermediate:	274	14	1.2100
Min:	173	37	0.8100

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612558 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1872 0.7 km from Nikolicë, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2019/10/30	09:57:47.53		0.01	40.4808	20.8027				2.2	0.1	5	9	192	0.14	3.41	m	
1956																	

Magnitude	Err	Nsta	Author	OrigID
Ml	1.5	0.0	2	1956
Md	0.6	0.0	1	1956

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.14	356.0	S	09:57:52.145	0.0									m		24826
KBN	0.14	356.0	P	09:57:50.173	0.0									m		24825
KBN	0.14	356.0	AMl	09:57:52.860								0.6	0.28	a	Ml	1.6
KBN	0.14	356.0	AMd	09:58:01.284								0.0	11.11	a	Md	0.6
NEST	0.20	0.0	P	09:57:51.087	0.0									m		24830
NEST	0.20	109.0	S	09:57:55.069	0.0									m		24827
NEST	0.20	109.0	AMl	09:57:55.220								0.4	0.20	a	Ml	1.5
ITM	3.41	164.0	S	09:59:30.249	0.0									m		24829
ITM	3.41	164.0	P	09:58:46.228	0.0									m		24828

DATA_TYPE COMMENT GSE2.1
Event 1872

Official Magnitude:
Ml 1.53

Error ellipse:

	Azim	Dip	Mag
Max:	48	46	0.1300
Intermediate:	269	35	0.0200
Min:	163	22	0.0100

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612558 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1873 0.6 km from Radë, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2019/10/30	13:13:16.27		0.08	41.4068	19.5962				18.6	0.7	8	10	187	0.21	2.90	m	
1957																	

Magnitude	Err	Nsta	Author	OrigID
Ml	3.0	0.0	3	1957
Md	3.3	0.0	1	1957

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.20	0.0	Pg	13:13:20.811	0.0									m		24842
TIR	0.21	106.0	Sg	13:13:25.007	-0.1									m		24831
TIR	0.21	106.0	AMl	13:13:25.110								5.9	0.46	a	Ml	2.8
KBN	1.19	130.0	S	13:13:54.770	-0.1									m		24833

KBN	1.19	130.0	P	13:13:38.446	0.2	---	m	24832
NEST	1.48	131.0	Sn	13:14:04.489	-0.1	---	m	24835
NEST	1.48	131.0	Pn	13:13:43.102	-0.8	---	m	24834
NEST	1.48	131.0	AMd	13:15:03.035		---	0.0 79.93 a Md 3.3	12847
IGT	1.95	163.0	Sn	13:14:18.218	0.0	---	m	24837
IGT	1.95	163.0	P	13:13:52.440	0.8	---	m	24836
NOCI	2.01	253.0	Sn	13:14:20.392	0.8	---	m	24839
NOCI	2.01	253.0	Pn	13:13:52.450	-0.0	---	m	24838
NOCI	2.01	253.0	AMl	13:14:25.900		---	0.7 0.30 a Ml 3.3	12849
SGRT	2.90	279.0	Pn	13:14:05.577	0.1	---	m	24841
SGRT	2.90	279.0	Sn	13:14:42.383	-0.1	---	m	24840
SGRT	2.90	279.0	AMl	13:15:01.530		---	0.1 0.50 a Ml 3.0	12850

DATA_TYPE COMMENT GSE2.1
Event 1873

Official Magnitude:
Ml 2.97

Error ellipse:

	Azim	Dip	Mag
Max:	31	30	1.3700
Intermediate:	179	55	0.3200
Min:	292	15	0.1600

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612558 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1876 2.5 km from Kozel, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/30	19:19:04.72		0.00	40.4560	20.7647				7.0	0.4	4	11	164	0.17	0.98	m	
1961																	

Magnitude	Err	Nsta	Author	OrigID
Ml	1.4	0.0	2	1961

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.17	5.0	Sg	19:19:10.152	-0.0											24868
KBN	0.17	5.0	Pg	19:19:07.826	0.0											24867
KBN	0.17	5.0	AMl	19:19:11.510								0.4	0.10	a Ml	1.5	12861
NEST	0.22	0.0	Pg	19:19:09.395	0.0											24872
NEST	0.22	100.0	Sg	19:19:12.727	0.0											24869
NEST	0.22	100.0	AMl	19:19:13.580								0.2	0.16	a Ml	1.2	12862
IGT	0.98	201.0	Sg	19:19:38.156	0.0											24871

IGT 0.98 201.0 Pg 19:19:23.439 -0.4 _____ m_____ 24870

DATA_TYPE COMMENT GSE2.1
Event 1876

Official Magnitude:
Ml 1.36

Error ellipse:

	Azim	Dip	Mag
Max:	34	87	0.3700
Intermediate:	278	1	0.0200
Min:	188	3	0.0100

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612558 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1877 3.1 km from Nikolicë, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID	2019/10/30	23:18:05.63	0.04	40.4572	20.7783				6.2	2.9	4	33	199	0.17	1.06	m	
1962																	

Magnitude	Err	Nsta	Author	OrigID
Ml	1.8	0.0	1	1962

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
NEST	0.00	0.0	Pg	23:18:10.281	0.0					_____				m_____		24878
NEST	0.00	0.0	AMl	23:18:14.358						_____		0.8	0.16	a_____	Ml 1.8	12863
KBN	0.17	2.0	Sg	23:18:11.006	0.0					_____				m_____		24874
KBN	0.17	2.0	Pg	23:18:08.647	-0.1					_____				m_____		24873
IGT	0.99	201.0	Sg	23:18:39.196	-0.0					_____				m_____		24876
IGT	0.99	201.0	Pg	23:18:24.872	0.0					_____				m_____		24875
KEK	1.06	226.0	Pn	23:18:30.741	4.5					_____				m_____		24877

DATA_TYPE COMMENT GSE2.1
Event 1877

Official Magnitude:
Ml 1.80

Error ellipse:

	Azim	Dip	Mag
Max:	291	87	2.9400
Intermediate:	101	2	1.4400

Min: 191 1 0.0700

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612558 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1878 0.2 km from Ziçisht, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/31	04:45:53.26		0.28	40.5577	20.9213				18.5	0.5	17	33	172	0.13	2.69	m	
1963																	

Magnitude	Err	Nsta	Author	OrigID
M1	2.9	0.0	6	1963

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.12	303.0	Sg	04:45:58.914	-0.1					___				m___		24880
KBN	0.12	303.0	Pg	04:45:56.476	-0.1					___				m___		24879
KBN	0.12	303.0	AM1	04:45:59.650						___		17.8	0.32	a___	M1	3.2
NEST	0.17	145.0	Sg	04:46:01.076	0.0					___				m___		24882
NEST	0.17	145.0	Pg	04:45:57.943	0.2					___				m___		24881
NEST	0.17	145.0	AM1	04:46:02.130						___		11.9	0.18	a___	M1	3.0
BPA1	0.98	281.0	Sg	04:46:26.263	0.3					___				m___		24884
BPA1	0.98	281.0	Pg	04:46:10.960	-1.0					___				m___		24883
BPA1	0.98	281.0	AM1	04:46:34.400						___		0.6	0.62	a___	M1	2.5
BPA2	1.01	281.0	Sg	04:46:26.545	-0.3					___				m___		24885
VLO	1.09	266.0	Sg	04:46:28.442	0.2					___				m___		24887
VLO	1.09	266.0	Pg	04:46:13.064	-0.2					___				m___		24886
VLO	1.09	266.0	AM1	04:46:33.310						___		2.1	0.50	a___	M1	3.2
IGT	1.12	205.0	Sg	04:46:28.990	-1.4					___				m___		24889
IGT	1.12	205.0	Pg	04:46:12.164	-2.3					___				m___		24888
TIR	1.12	315.0	Sn	04:46:30.770	0.3					___				m___		24891
TIR	1.12	315.0	Pn	04:46:14.406	-0.1					___				m___		24890
TIR	1.12	315.0	AM1	04:46:39.240						___		0.3	0.62	a___	M1	2.4
KEK	1.21	226.0	Pn	04:46:17.072	1.1					___				m___		24892
THL	1.30	139.0	Pn	04:46:17.465	-0.2					___				m___		24893
LKD2	1.78	187.0	Sn	04:46:50.481	-0.0					___				m___		24895
LKD2	1.78	187.0	Pn	04:46:25.563	-0.4					___				m___		24894
LKD2	1.78	187.0	AM1	04:46:54.410						___		0.3	0.62	a___	M1	2.8
PDG	2.25	327.0	Pn	04:46:32.768	-0.2					___				m___		24896
KLV	2.69	158.0	Pn	04:46:40.011	0.6					___				m___		24897

DATA_TYPE COMMENT GSE2.1
Event 1878

Official Magnitude:

Ml 2.92

Error ellipse:

	Azim	Dip	Mag
Max:	46	21	1.0000
Intermediate:	194	65	0.5500
Min:	311	12	0.3800

BEGIN GSE2.1

MSG_TYPE DATA

MSG_ID 1572612558 athena

DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1879 1.4 km from Dardhë, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/31	05:05:46.05		0.06	40.5175	20.8432				14.9	1.2	5	8	144	0.12	1.06	m	
1964																	

Magnitude	Err	Nsta	Author	OrigID
Ml	1.1	0.0	2	1964

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.11	339.0	Sg	05:05:50.888	0.0					---				m		24899
KBN	0.11	339.0	Pg	05:05:48.708	-0.1					---				m		24898
KBN	0.11	339.0	AMl	05:05:52.550						---		0.3	0.12	a	Ml	1.3
NEST	0.19	123.0	Sg	05:05:53.595	-0.1					---				m		24901
NEST	0.19	123.0	Pg	05:05:50.493	0.1					---				m		24900
NEST	0.19	123.0	AMl	05:05:54.700						---		0.2	0.18	a	Ml	1.1
NEST	0.19	123.0	AMl	05:05:54.760						---		0.1	0.30	a	Ml	1.0
IGT	1.06	202.0	Sg	05:06:21.649	0.0					---				m		24903
IGT	1.06	202.0	Pg	05:06:06.019	-0.4					---				m		24902

DATA_TYPE COMMENT GSE2.1

Event 1879

Official Magnitude:

Ml 1.12

Error ellipse:

	Azim	Dip	Mag
Max:	39	53	1.5100
Intermediate:	269	25	0.2200
Min:	167	25	0.1500

Tërmetet Rajonalë (Parametric Data for Regional Events recorded by ASN)

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612565 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1785 1.9 km from Vrysoula, Epirus, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID	2019/10/01	17:18:04.67	1855	0.30	39.2470	20.6912			13.8	1.1	7	7	181	0.40	3.18	m	

Magnitude	Err	Nsta	Author	OrigID
Ml	3.1	0.0	3	1855
Md	2.2	0.0	3	1855

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
IGT	0.40	316.0	Sg	17:18:18.863	0.0					---				m		23746	
IGT	0.40	316.0	Pg	17:18:11.049	-1.7					---				m		23745	
IGT	0.40	316.0	AMd	17:19:02.663						---		0.0	51.61	a	Md	2.2	12317
LKD2	0.46	184.0	Sg	17:18:21.176	0.4					---				m		23748	
LKD2	0.46	184.0	Pg	17:18:13.390	-0.5					---				m		23747	
LKD2	0.46	184.0	AMl	17:18:28.420						---		1.5	0.24	a	Ml	2.4	12320
LKD2	0.46	184.0	AMd	17:19:05.308						---		0.0	51.92	a	Md	2.2	12318
KEK	0.83	305.0	Sn	17:18:36.847	3.7					---				m		23750	
KEK	0.83	305.0	Pg	17:18:21.074	0.2					---				m		23749	
KEK	0.83	305.0	AMl	17:18:42.100						---		3087.0	0.30	a	Ml	6.1	12321
KEK	0.83	305.0	AMd	17:19:16.713						---		0.0	55.64	a	Md	2.9	12319
KBN	1.38	3.0	Sn	17:18:49.461	0.1					---				m		23751	
NOCI	3.18	0.0	Pn	17:18:54.310	0.0					---				m		23753	
NOCI	3.18	301.0	Sn	17:19:38.975	-0.1					---				m		23752	
NOCI	3.18	301.0	AMl	17:19:47.710						---		0.1	0.30	a	Ml	3.1	12322

DATA_TYPE COMMENT GSE2.1

Event 1785

Official Magnitude:

Ml 3.10

Error ellipse:

	Azim	Dip	Mag
Max:	238	52	1.4000
Intermediate:	88	33	1.2900
Min:	348	15	0.5000

BEGIN GSE2.1

MSG_TYPE DATA

MSG_ID 1572612565 athena

DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1791 1.6 km from Agia Paraskeví, Epirus, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/03	08:04:23.28		0.21	39.2855	20.8863				16.5	0.9	9	8	301	0.49	3.30	m	
1861																	

Magnitude	Err	Nsta	Author	OrigID
Ml	3.2	0.0	4	1861
Md	3.0	0.0	5	1861

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
IGT	0.50	300.0	Sg	08:04:40.726	0.0											23821
IGT	0.50	300.0	Pg	08:04:33.059	-0.2											23820
IGT	0.50	300.0	AMl	08:04:42.778								1.9	0.42	a	Ml	2.6
IGT	0.50	300.0	AMd	08:05:21.567								0.0	48.51	a	Md	2.1
KEK	0.95	298.0	Sg	08:04:56.891	1.7											23823
KEK	0.95	298.0	Pg	08:04:41.684	0.2											23822
KEK	0.95	298.0	AMl	08:05:09.630								3778.0	0.40	a	Ml	6.3
KEK	0.95	298.0	AMd	08:05:51.998								0.0	70.31	a	Md	3.1
KBN	1.34	357.0	Sg	08:05:06.320	-0.2											23825
KBN	1.34	357.0	Pn	08:04:48.407	0.4											23824
KBN	1.34	357.0	AMd	08:05:44.134								0.0	55.73	a	Md	2.3
VLO	1.59	319.0	Sn	08:05:14.205	0.2											23827
VLO	1.59	319.0	Pn	08:04:50.967	-1.3											23826
VLO	1.59	319.0	AMd	08:05:49.306								0.0	58.34	a	Md	3.0
TIR	2.20	340.0	Sn	08:05:31.874	-0.1											23828
TIR	2.20	340.0	AMl	08:05:46.128								0.3	0.76	a	Ml	3.0
NOCI	3.30	299.0	Sn	08:06:00.169	0.1											23830
NOCI	3.30	299.0	Pn	08:05:18.330	-0.3											23829
NOCI	3.30	299.0	AMl	08:06:12.578								0.2	0.62	a	Ml	3.4
NOCI	3.30	299.0	AMd	08:06:48.932								0.0	90.60	a	Md	3.6

DATA_TYPE COMMENT GSE2.1
Event 1791

Official Magnitude:
Ml 3.20

Error ellipse:

	Azim	Dip	Mag
Max:	144	8	1.2300
Intermediate:	249	58	1.0500
Min:	49	30	0.7300

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612562 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1832 0.2 km from RĂ-ganes, Ionian Islands, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2019/10/18	04:40:01.67		0.14	39.2017	20.1747				5.7	1.8	6	6	194	0.35	1.39	m	
1903																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.1	0.0	2	1903

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
IGT	0.35	20.0	Sg	04:40:14.097	0.0					___				m		24244
IGT	0.35	20.0	Pg	04:40:05.823	-2.9					___				md		24243
LKD2	0.56	137.0	Sg	04:40:21.012	0.0					___				m		24246
LKD2	0.56	137.0	Pg	04:40:08.608	-4.1					___				md		24245
LKD2	0.56	137.0	AMl	04:40:27.018						___		0.4	0.26	a	Ml	2.0
KEK	0.59	331.0	Sg	04:40:21.886	-0.1					___				m		24248
KEK	0.59	331.0	Pg	04:40:13.510	0.2					___				md		24247
NEST	1.39	28.0	Sn	04:40:48.513	0.1					___				m		24250
NEST	1.39	28.0	Pn	04:40:28.152	-0.2					___				m		24249
NEST	1.39	28.0	AMl	04:40:52.948						___		0.1	0.66	a	Ml	2.2

DATA_TYPE COMMENT GSE2.1
Event 1832

Official Magnitude:
Ml 2.10

Error ellipse:

Azim	Dip	Mag
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Max: 245 77 1.8000
Intermediate: 62 12 0.5200
Min: 152 1 0.2700

BEGIN GSE2.1
MSG_TYPE DATA
MSG_ID 1572612562 athena
DATA_TYPE BULLETIN GSE2.1:SHORT

Event 1848 0.7 km from MesovoËni, Epirus, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/10/23	14:28:04.62		0.76	39.4278	20.4047				2.0	4.0	8	33	140	0.12	1.10	m	
1931																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.3	0.0	3	1931

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
IGT	0.12	331.0	Sg	14:28:08.502	-0.6									m		24538
IGT	0.12	331.0	Pg	14:28:05.894	-1.3									m		24537
IGT	0.12	331.0	AMl	14:28:10.180								3.6	0.22	a	Ml	2.3
KEK	0.55	302.0	Sg	14:28:24.117	-0.1									m		24540
KEK	0.55	302.0	Pg	14:28:16.866	1.0									m		24539
LKD2	0.67	162.0	Sg	14:28:28.388	0.2									m		24542
LKD2	0.67	162.0	Pg	14:28:17.104	-1.0									m		24541
LKD2	0.67	162.0	AMl	14:28:33.950								0.6	0.20	a	Ml	2.3
NEST	1.10	26.0	Sg	14:28:43.359	0.6									m		24544
NEST	1.10	26.0	Pg	14:28:25.485	-0.9									m		24543
NEST	1.10	26.0	AMl	14:28:51.240								0.2	0.36	a	Ml	2.1

DATA_TYPE COMMENT GSE2.1
Event 1848

Official Magnitude:
Ml 2.25

Error ellipse:

	Azim	Dip	Mag
Max:	305	78	4.0400
Intermediate:	65	5	2.1300
Min:	156	10	1.2400

Tërmete të pa-lokalizueshëm, me më pak se tre stacione (un-locatable earthquakes with less than three stations)

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-10-02			07:15:08.97									TIR
GAP=					hor.err=		ver.err=					
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		07:15:08.97								
TIR	SE	ISG		07:15:12.99								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-10-02			09:32:24.44									TIR
GAP=					hor.err=		ver.err=					
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		09:32:24.44								
TIR	SE	ISG		09:32:27.92								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-10-04			22:44:46.82									TIR
GAP=					hor.err=		ver.err=					
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		22:44:46.82								

TIR SE ISG 22:44:49.34

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2019-10-07			14:27:43.49									TIR
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GAP=				hor.err=						ver.err=		
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STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
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TIR	SZ	IPG		14:27:43.49								
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TIR	SE	ISG		14:27:45.71								
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Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2019-10-07			21:24:13.91									TIR
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GAP=				hor.err=						ver.err=		
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STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
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TIR	SZ	IPG		21:24:13.91								
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TIR	SE	ISG		21:24:17.56								
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Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2019-10-16			22:19:52.78									TIR
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GAP=				hor.err=						ver.err=		
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STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
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TIR	SZ	IPG		22:19:52.78								
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TIR	SE	ISG		22:19:56.61								
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Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2019-10-17			00:05:02.48									TIR
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GAP=				hor.err=						ver.err=		
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STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
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TIR	SZ	IPG		00:05:02.48								
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TIR	SE	ISG		00:05:05.54								
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Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-10-21			21:15:23.51									KBN-NEST
GAP=					hor.err=			ver.err=				
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
KBN	SZ	IPG		21:15:23.51								
KBN	SE	ISG		21:15:24.39								
NEST	SZ	IPG		21:15:26.16								
NEST	SE	ISG		21:15:29.53								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-10-21			21:16:19.85									KBN
GAP=					hor.err=			ver.err=				
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
KBN	SZ	IPG		21:16:19.85								
KBN	SE	ISG		21:16:21.10								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-10-21			21:22:46.25									KBN
GAP=					hor.err=			ver.err=				
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
KBN	SZ	IPG		21:22:46.25								
KBN	SE	ISG		21:22:49.91								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-10-27			16:22:41.13									TIR
GAP=					hor.err=			ver.err=				
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		16:22:41.13								

TIR SE ISG 16:22:42.80

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2019-10-30			05:01:58.42									KBN-NEST
GAP=				hor.err=				ver.err=				

STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
KBN	SZ	IPG		05:01:58.42								
KBN	SE	ISG		05:02:00.99								
NEST	SZ	IPG		05:02:00.37								
NEST	SE	ISG		05:02:03.80								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2019-10-30			05:22:08.67									KBN-NEST
GAP=				hor.err=				ver.err=				

STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
KBN	SZ	IPG		05:22:08.67								
KBN	SE	ISG		05:22:10.84								
NEST	SZ	IPG		05:22:10.32								
NEST	SE	ISG		05:22:13.50								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2019-10-30			05:39:40.85									KBN-NEST
GAP=				hor.err=				ver.err=				

STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
KBN	SZ	IPG		05:39:40.85								
KBN	SE	ISG		05:39:43.31								
NEST	SZ	IPG		05:39:42.14								
NEST	SE	ISG		05:39:45.91								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2019-10-30	06:02:06.10				KBN-NEST
GAP=		hor.err=	ver.err=		
STAT	SP	IPHASW	D	HRMM	SECON
KBN	SZ	IPG		06:02:06.10	
KBN	SE	ISG		06:02:08.29	
NEST	SZ	IPG		06:02:07.74	
NEST	SE	ISG		06:02:10.98	

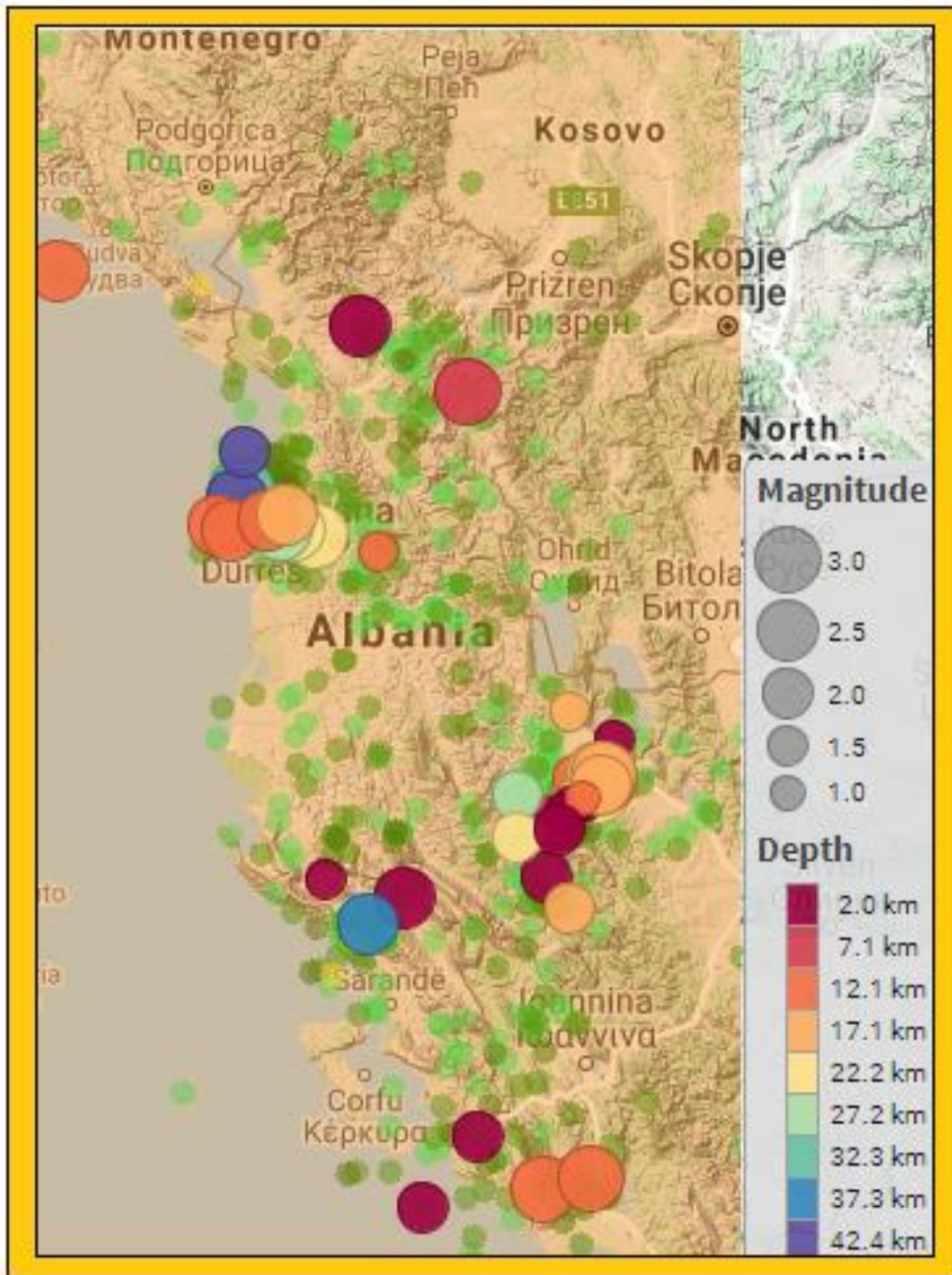
Katalogu i termeteve (Catalog of earthquakes)

Date	Time	Time Rms	Latitude	Longitude	Magnitude	Depth (km)	Depth Error	Num. Stations	Num. Phases	Aimuth Gap
2019-10-01	12:22:25	0.58	41.337	19.727	3.1	25	2.2	8	6	188
2019-10-01	17:18:04	0.3	39.247	20.691	3.1	14	1.1	7	7	181
2019-10-03	08:04:23	0.21	39.286	20.886	3.2	17	0.9	8	9	301
2019-10-05	12:31:54	0.23	41.359	19.636	2.7	25	1.1	7	10	266
2019-10-05	17:54:30	0.35	41.483	19.423	2.2	25	6	5	7	221
2019-10-05	23:55:48	0.31	41.476	19.428	3.2	37	1.2	7	9	212
2019-10-06	16:57:37	0.3	40.261	20.690	2.1	7	24	6	8	141
2019-10-07	01:10:08	0.37	40.232	19.771	1.8	25	1.8	7	11	138
2019-10-07	01:10:08	0.15	40.245	19.771	1.8	7	11.2	7	7	169
2019-10-09	02:31:44	0.2	41.459	19.394	2.8	43	1.7	8	11	209
2019-10-09	02:37:14	0.11	41.606	19.422	2.3	47	2.2	8	10	218
2019-10-09	05:43:01	0.01	40.429	20.745	2.2	7	1	7	5	169
2019-10-10	07:46:49	0.05	41.287	19.992	1.9	15	0.6	7	6	194
2019-10-11	05:26:58	0.17	41.785	20.371	3.2	9	0.7	10	12	269

2019-10-12 01:39:20	0.26	42.169	18.639	2.8	16	2.3	16	9	231
2019-10-12 13:05:11	0.01	40.537	20.880	1.6	14	0.1	5	5	172
2019-10-12 13:05:11	0.01	40.537	20.880	1.6	14	0.1	5	5	172
2019-10-12 13:36:33	0.01	40.449	20.746	2.4	11	0.7	5	5	170
2019-10-12 16:41:07	0.05	41.999	19.908	2.7	3	0.3	10	10	269
2019-10-13 08:42:56	0.32	40.193	20.091	2.6	6	3	15	8	220
2019-10-14 18:44:57	1.68	41.414	19.487	2	38	19.7	15	10	210
2019-10-15 05:27:16	0.18	40.781	20.792	1.8	21	15	14	6	314
2019-10-17 18:40:26	0.06	40.164	20.784	2.2	20	0.7	7	8	147
2019-10-17 19:59:05	0.32	40.110	19.943	2.7	38	1.4	8	10	121
2019-10-18 04:40:01	0.14	39.202	20.175	2.1	6	1.8	6	6	194
2019-10-21 21:18:06	0.31	40.687	20.984	1.6	6	8.3	7	5	256
2019-10-21 21:19:51	0	40.590	20.860	1.2	8	1	3	4	198
2019-10-21 21:20:37	0.18	40.571	20.821	2.3	17	1.2	4	7	156
2019-10-21 23:35:33	0.01	40.562	20.866	1.1	6	0.8	4	5	180
2019-10-21 23:35:33	0.04	40.562	20.866	1.1	6	3.6	4	5	180
2019-10-22 00:53:05	0.09	40.523	20.565	2.4	31	0.7	6	6	228
2019-10-22 00:53:06	0.2	40.391	20.570	2.3	24	16.4	6	5	202
2019-10-23 14:28:04	0.76	39.428	20.405	2.3	2	4	33	8	140

2019-10-26 10:46:35	0.16	41.358	19.578	2.9	30	0.8	10	11	104
2019-10-27 03:59:13	0.43	40.534	20.915	3.2	25	1.2	12	16	117
2019-10-27 15:06:53	0.18	41.381	19.411	2.4	16	1.2	9	9	101
2019-10-27 15:46:30	0.32	41.377	19.314	2.6	14	2.2	8	10	106
2019-10-27 17:39:06	0.32	40.561	20.943	3.1	12	0.9	7	10	196
2019-10-27 20:07:51	0.05	41.358	19.366	2.6	15	0.4	9	11	103
2019-10-27 22:15:10	0	40.475	20.790	1.9	10	0.2	6	4	159
2019-10-28 13:17:01	0.38	41.392	19.525	2.6	16	3.7	33	8	109
2019-10-29 18:15:00	0.43	40.577	20.923	3.3	18	0.8	34	17	132
2019-10-29 18:37:54	0.04	40.478	20.817	1.8	3	0.5	11	7	150
2019-10-29 20:29:43	0.11	40.502	20.817	2	18	1.8	14	7	148
2019-10-29 21:17:22	0.23	40.500	20.848	1.4	4	3	10	7	138
2019-10-30 00:42:05	0.23	40.520	20.879	1.8	11	3.3	12	8	161
2019-10-30 00:45:22	0.05	40.488	20.830	1.8	2	0.7	13	7	126
2019-10-30 02:57:46	0.41	40.506	20.814	1.6	17	2.5	34	8	149
2019-10-30 04:29:40	0.33	40.582	20.944	3.1	19	0.7	33	17	120
2019-10-30 04:41:42	0.27	40.547	20.894	2.4	18	0.5	33	11	181
2019-10-30 09:57:47	0.01	40.481	20.803	1.5	2	1	9	5	192
2019-10-30 13:13:16	0.08	41.407	19.596	3	19	0.7	10	8	187

2019-10-30	19:19:04	0	40.456	20.765	1.4	7	0.4	11	4	164
2019-10-30	23:18:05	0.04	40.457	20.778	1.8	6	2.9	33	4	199
2019-10-31	04:45:53	0.28	40.558	20.921	2.9	19	0.5	33	17	172
2019-10-31	05:05:46	0.06	40.518	20.843	1.1	15	1.2	8	5	144
2019-10-31	07:58:45	0.08	40.414	20.738	2.1	7	6	10	6	170



-Fig. 2 -

Harta e shpërndarjes në hapësirë të epiqendrave, në përputhje me magnitudë (madhësia e simbolit) dhe thellësinë (ngjyra e simbolit); Ngjarjet janë lokalizuar gjatë muajit Tetor 2019, bazuar në regjistrimet e ASN dhe stacioneve sizmologjike në rajon.
(Epicentral map for located seismicity within Albania and surrounding during October 2019)

1. Statistika e ngjarjeve (Events Statistics)

Tab. 5 – Të dhënat përfaqësuese për statistikën e ngjarjeve (representative earthquake statistical data)

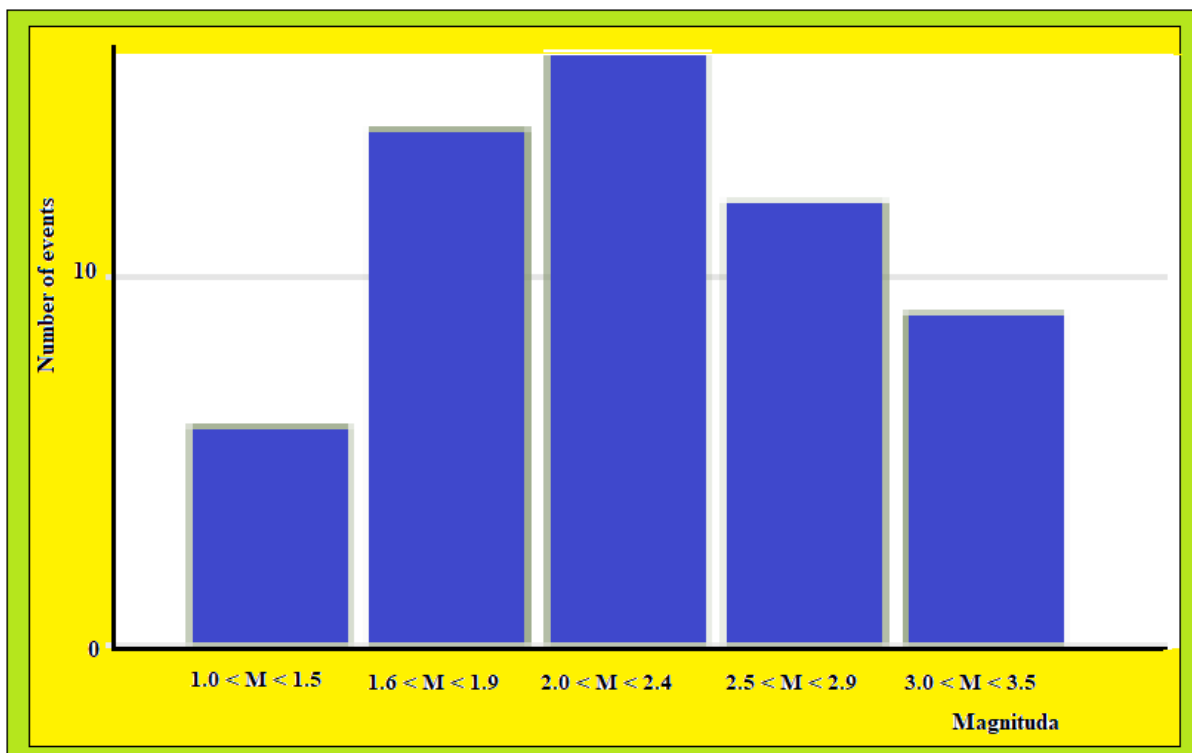
Të dhënat përfaqësuese	Representative Parameters	Vlerat (observed values)
Numuri i përgjithshëm i ngjarjeve të regjistruara (kuandrat 39o-43o V; 18.5o-21.5oL)	[total recorded number of seismic events]	57
Numuri i ngjarjeve sizmike brenda kufirit shtetëror	[earthquakes occurred within state border]	52
Thellësia mesatare e vrojtuar (km)	[mean observed depth]	16
Thellësia maksimale e vrojtuar (km)	[maximum observed depth]	47
Magnituda lokale minimale e vrojtuar ($M_{L/d}$)	[minimum observed local magnitude]	1.1
Magnituda lokale maksimale e vrojtuar ($M_{L/d}$)	[maximum observed local magnitude]	3.3
Intensiteti maksimal i vrojtuar (MSK-64)	[maximum observed intensity]	-

2. Karakteristikat kryesore të sizmicitetit për muajin Tetor 2019

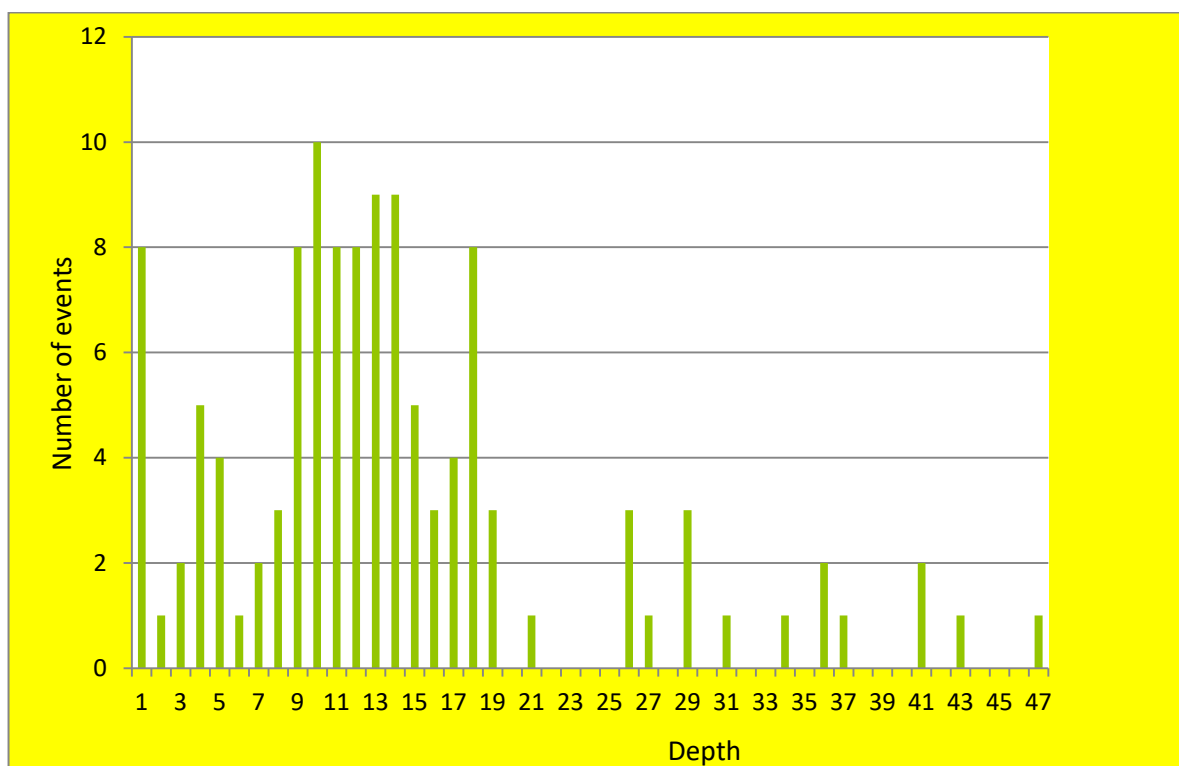
Gjatë muajit Tetor, Rrjeti Sizmologjik i Shqipërisë, regjistroi për vendin tone një sizmitet të nivelit më të ulët të këtij viti. Rritja më e madhe e aktivitetit sizmik u regjistrua në perëndim dhe juglindje të Shqipërisë e shprehur me sekuencat e pasgoditjeve të tërmetit të 21 Shtatorit me epiqender në Durres $M_L 5.8$ dhe një serie mikrotermetesh vazhdim i aktivitetit sizmik në zonen e Korces. Në këtë muaj janë lokalizuar 57 tërmete me magnitudë që variojnë nga 1.1 në 3.3 (Richter), 9 prej tyre me magnitudë $M_L \geq 3.0$ Richter (Fig 2). Prej tyre 20 kanë ndodhur gjatë ditës dhe 37 gjatë natës. Frekuenca më e madhe në nivelin e magnitudës $1.6 \leq M < 3$ është me 42 tërmete (Fig 3). Numër mesatar i tërmeteve në ditë ishte 2 dhe maksimumi 9 (16% e të gjithë tërmeteve të ndodhura) u regjistrua gjatë 30 Tetorit si rezultat i serive të tërmetit të Qershorit ($M 5.3$) në zonën sizmogenike të Korçës. Shumica e tërmeteve lokale rreth 88. % janë shpërndarë në thellësi midis 0 dhe 25 km, me thellësi mesatare 16 km dhe thellësi maksimale 47 km.

2. Main features of seismicity during October month 2019

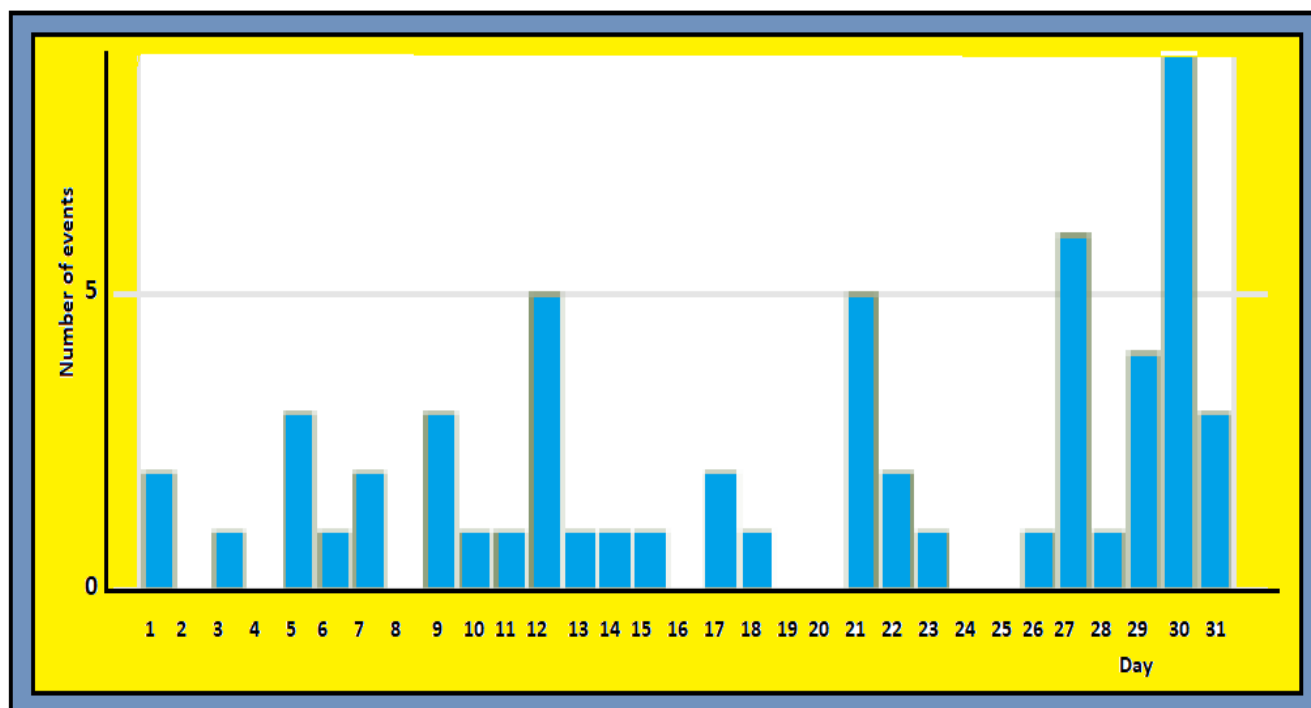
During October, the Albanian Seismological Network recorded a low level seismicity for our country. The largest increase of seismic activity was recorded in the west and southeast of Albania, expressed by the aftershocks of the 21 September, Durres earthquake $M_L 5.8$ and microearthquakes sequences of the June series in Korca zone. This month were located 57 earthquakes of magnitude ranging from 1.1 to 3.3 (Richter), 9 of them with magnitude $M_L \geq 3.0$ Richter (Fig 2). 20 earthquakes have occurred during the day and 37 during the night. Highest frequency at magnitude level $1.6 \leq M < 3$ with 42 earthquakes (Fig 3). The average number of earthquakes per day was 2 and maximum 9 (16% of all earthquakes occurred) was recorded during October 30 as a result of increased seismic activity since June earthquake ($M 5.3$) in the seismogenic zone of Korça. Most local earthquakes about 88.% are distributed at depths between 0 and 25 km, with an average depth of 16 km and a maximum depth of 47 km.



-Fig. 3 -
. Grafiku i numurit të ngjarjeve për nivelin e magnitudave



-Fig. 4 -
Grafik 2. Grafiku i frekuencës së tërmetejeve në lidhje me thellësin.



-Fig. 5 -
Grafiku ishpërndarjes së numurit të ngjarjeve për ditë

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