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## BULETINI MUJOR I SIZMOLOGJISË



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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 pasqyrimin 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](mailto: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 përfuara 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)

**T<sub>0</sub>** – 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 <sub>0</sub>
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 <sub>0</sub>
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



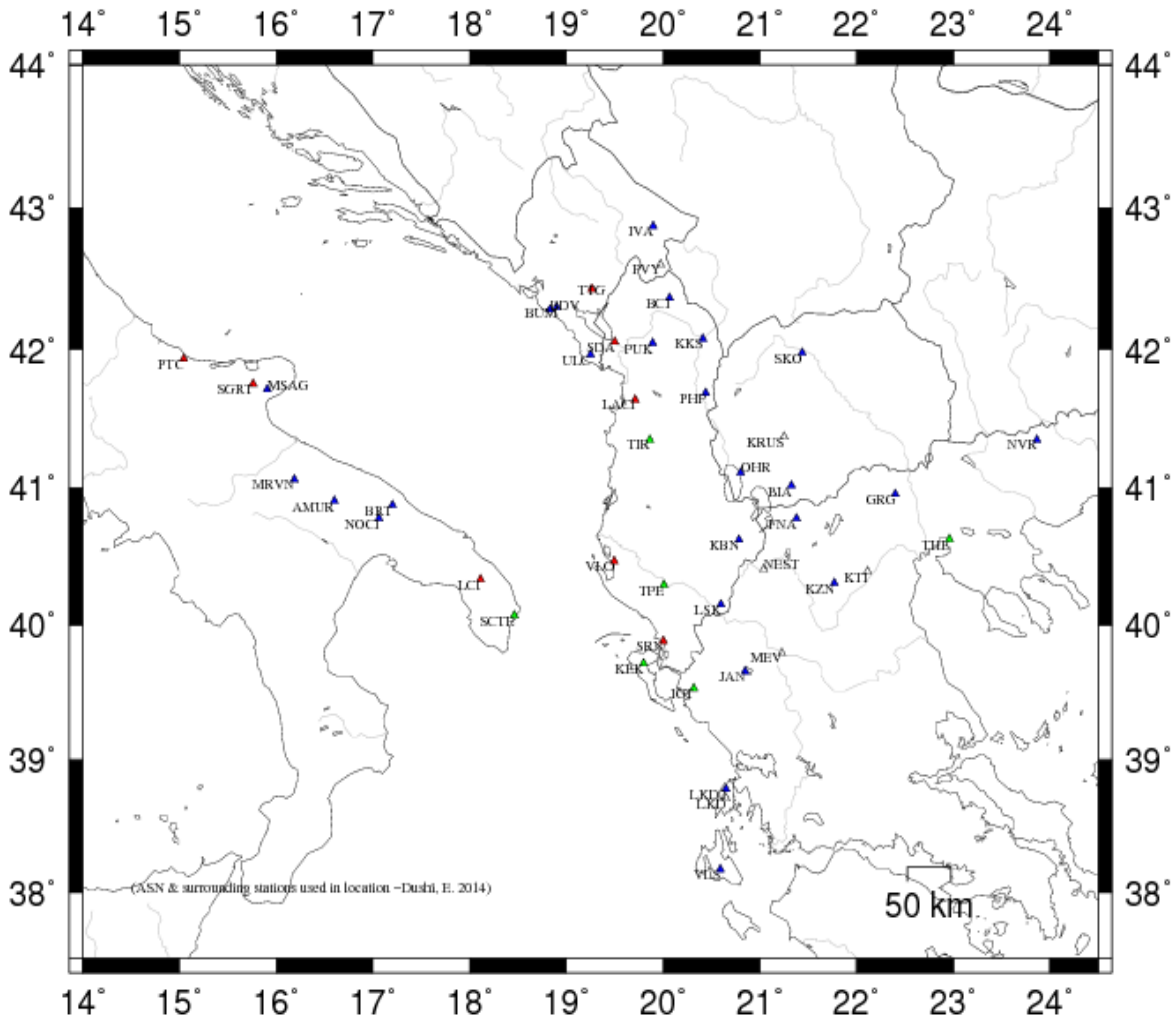
**Tab. 3 – Rrjeti Sizmologjik Ndihmës (MSO, SKO, AUTH, NAO, INGV)**

Kodi	Regjistruar (Po/Jo)	Gjer. Gjeo.	Gjat. Gjeo.	Lartesia	Tipi i stacionit	Sensori	Terheqja e Informacionit	Komunikimi	T <sub>0</sub>
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	<b>1.0</b>
KTI	Po (Y)	40.39289	22.11650	1329	#	#	#	#	#
GRG	Po (Y)	40.9558	22.4029	600	3C-BB	CMG-3EPS/100	Trident	RT	<b>40</b>
LKD	Po (Y)	38.70722	20.65056	1140	#	#	#	#	#
ULC	Po (Y)	41.9633	19.2497	465	3C-SP	S-13	Smart-24D	RT	<b>1.0</b>
TTG	Po (Y)	42.43020	19.25530	97	#	#	#	#	#
PVY	Po (Y)	42.5950	19.9735	1250	3C-SP	S-13	Smart-24D	RT	<b>1.0</b>
BUM	Po (Y)	42.3008	18.8986	724	3C-SP	S-13	Smart-24D	RT	<b>1.0</b>
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	<b>120</b>
JAN	Po (Y)	39.6561	20.8487	526	3C-BB	CMG-3ESPC/60	DR24-SC	RT	<b>40</b>
KZN	Po (Y)	40.3033	21.7820	791	3C-BB	STS-2	DR24-SC	RT	<b>120</b>
VLS	Po (Y)	38.1768	20.5886	402	3C-BB	Trillium 120	DR24-SC	RT	<b>120</b>
NVR	Po (Y)	41.3484	23.8651	627	3C-BB	CMG-3ESPC/60	DR24-SC	RT	<b>40</b>

Kodi	Regjistruar (Po/Jo)	Gjer. Gjeo.	Gjat. Gjeo.	Lartesia	Tipi i stacionit	Sensori	Terheqja e Informacionit	Komunikimi	T <sub>0</sub>
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	<b>40</b>
MSAG	Po (Y)	41.712	15.9096	890	3C-BB	Trillium 40T	Libra VSAT	RT satellite	<b>40/120</b>
PTC	Po (Y)	41.7546	15.7437	960	3C-BB	Trillium 40T	Libra VSAT	RT satellite	<b>40</b>
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 terminologjisë së përdorur për parametrat e përfutur**  
 (Output parameter’s description)

**Informacioni gjithëpërfshirës 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 ( <i>km</i> ) [ <i>hypocenter depth in km</i> ]
RMS	Shmangia kuadratike mesatare për diferencat e peshuara të kohë-udhëtimit, 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 shpejtësior 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 &amp; S readings with weights &gt; 0.1</i> ].
NWS	Numri i fazave S me peshë statistikore > 0.1 [ <i>number of S-phases with weights &gt; 0.1</i> ].
NVR	Numri i fazave P & S, të vlefshme për lokalizim [ <i>number of P &amp; S phases valid for location, assigned weights &gt; 0</i> ].
QGEO	Cilesia e katalogut bazuar ne gjeometrin e rrjetit sizmologjik [Quality rating based on station geometry]
QLOC	Cilesia e katalogut bazuar ne lokalizimin e ngjarjeve sizmike [Quality rating based on localization of seismic event]
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 konvergjimimin 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-karaktare (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 [ <i>3 –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 vlerësimin të fazave [ <i>weighted code</i> ].
SEC	Koha e vrojtuar për hyrjet valore [ <i>observed arrival time</i> ]
TOBS	Koha e vrojtuar 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-vrojtim. [ <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 korigjues që përdoret në llogaritjen e magnitudës [ <i>calibration factor for magnitude calculation</i> ].
DUR	Zgjatshmëria e fazës koda (s) [ <i>coda duration in 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 &amp; 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 &amp; XC2 commands</i> ].



## Tërmetet Lokalë (Parametric Data for Albanian local Events)

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115689 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1635 0.8 km from Butkë, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/01	03:18:59.46		0.09	40.4357	20.7323				15.4	0.8	9	7	146	0.19	1.73	m	
1696																	

Magnitude	Err	Nsta	Author	OrigID
M1	2.1	0.0	1	1696

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
KBN	0.19	12.0	Sg	03:19:07.128	0.1					---				m_		21890	
KBN	0.19	12.0	Pg	03:19:03.543	-0.3					---				mc_		21889	
FNA	0.60	54.0	Sg	03:19:20.951	0.1					---				m_		21892	
FNA	0.60	54.0	Pg	03:19:11.333	-0.4					---				mc_		21891	
SRN	0.79	226.0	Sg	03:19:27.649	0.1					---				m_		21894	
SRN	0.79	226.0	Pg	03:19:15.464	-0.1					---				mc_		21893	
IGT	0.95	200.0	S	03:19:32.228	-0.0					---				m_		21896	
IGT	0.95	200.0	P	03:19:18.208	0.0					---				mc_		21895	
PUK	1.73	339.0	Sn	03:19:55.956	0.0					---				m_		21898	
PUK	1.73	339.0	Pn	03:19:32.605	0.9					---				mc_		21897	
PUK	1.73	339.0	AM1	03:20:05.010						---		0.1	0.58	a_	M1	2.1	11540

DATA\_TYPE COMMENT GSE2.1  
Event 1635

Official Magnitude:  
M1 2.09

Error ellipse:

	Azim	Dip	Mag
Max:	65	77	0.8300
Intermediate:	299	7	0.5800
Min:	208	10	0.2500

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115689 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1645 1.7 km from Ogren, Gjirokastër, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/03	10:04:08.68		0.12	40.3298	20.4367				0.1	1.5	10	13	116	0.40	1.76	m	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.8	0.0	2	1706
Md	1.9	0.0	4	1706

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.40	42.0	S	10:04:23.207	-0.1									m		22012
KBN	0.40	42.0	P	10:04:16.971	-0.1									m		22011
KBN	0.40	42.0	AMl	10:04:32.740								7.4	0.58	a	Ml	3.0
KBN	0.40	42.0	AMd	10:04:52.363								0.0	35.39	a	Md	1.8
SRN	0.56	217.0	S	10:04:28.298	-1.9									m		22014
SRN	0.56	217.0	P	10:04:20.678	-0.3									m		22013
SRN	0.56	217.0	AMl	10:04:30.480								2.2	0.28	a	Ml	2.7
SRN	0.56	217.0	AMd	10:05:02.329								0.0	41.65	a	Md	2.0
VLO	0.73	282.0	P	10:04:23.299	0.1									m		22015
IGT	0.80	186.0	S	10:04:37.705	0.1									m		22017
IGT	0.80	186.0	P	10:04:25.203	-0.0									m		22016
IGT	0.80	186.0	AMd	10:05:00.045								0.0	34.84	a	Md	1.8
FNA	0.85	57.0	S	10:04:39.185	-0.1									m		22019
FNA	0.85	57.0	P	10:04:25.558	-0.6									m		22018
FNA	0.85	57.0	AMd	10:05:15.262								0.0	49.70	a	Md	2.2
LKD2	1.55	173.0	S	10:05:02.200	0.0									m		22021
LKD2	1.55	173.0	P	10:04:39.262	0.0									m		22020
PUK	1.76	347.0	P	10:04:42.916	0.0									m		22022

DATA\_TYPE COMMENT GSE2.1  
 Event 1645

Official Magnitude:  
 Ml 2.82

Error ellipse:

	Azim	Dip	Mag
Max:	293	68	1.5700
Intermediate:	114	21	0.5100
Min:	204	0	0.2700

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115689 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1646 1.7 km from Ogren, Gjirokastër, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/03	10:04:08.68		0.12	40.3298	20.4367				0.1	1.5	10	13	116	0.40	1.76	m	
OrigID 1707																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.8	0.0	2	1707
Md	1.9	0.0	4	1707

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.40	42.0	S	10:04:23.207	-0.1									m		22024
KBN	0.40	42.0	P	10:04:16.971	-0.1									m		22023
KBN	0.40	42.0	AMl	10:04:32.740								7.4	0.58	a	Ml	3.0
KBN	0.40	42.0	AMd	10:04:52.363								0.0	35.39	a	Md	1.8
SRN	0.56	217.0	S	10:04:28.298	-1.9									m		22026
SRN	0.56	217.0	P	10:04:20.678	-0.3									m		22025
SRN	0.56	217.0	AMl	10:04:30.480								2.2	0.28	a	Ml	2.7
SRN	0.56	217.0	AMd	10:05:02.329								0.0	41.65	a	Md	2.0
VLO	0.73	282.0	P	10:04:23.299	0.1									m		22027
IGT	0.80	186.0	S	10:04:37.705	0.1									m		22029
IGT	0.80	186.0	P	10:04:25.203	-0.0									m		22028
IGT	0.80	186.0	AMd	10:05:00.045								0.0	34.84	a	Md	1.8
FNA	0.85	57.0	S	10:04:39.185	-0.1									m		22031
FNA	0.85	57.0	P	10:04:25.558	-0.6									m		22030
FNA	0.85	57.0	AMd	10:05:15.262								0.0	49.70	a	Md	2.2
LKD2	1.55	173.0	S	10:05:02.200	0.0									m		22033
LKD2	1.55	173.0	P	10:04:39.262	0.0									m		22032
PUK	1.76	347.0	P	10:04:42.916	0.0									m		22034

DATA\_TYPE COMMENT GSE2.1  
 Event 1646

Official Magnitude:  
 Ml 2.82

Error ellipse:

	Azim	Dip	Mag
Max:	293	68	1.5700
Intermediate:	114	21	0.5100
Min:	204	0	0.2700

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115688 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1653 0.6 km from Spile, Vlorë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/05	17:47:35.49		0.22	40.0957	19.7298				14.4	1.0	17	11	140	0.30	2.28	m	

OrigID  
1714

Magnitude	Err	Nsta	Author	OrigID
M1	4.2	0.0	5	1714

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
SRN	0.30	135.0	Sg	17:47:47.823	0.2									m		22093
SRN	0.30	135.0	Pg	17:47:42.525	0.1									m		22092
SRN	0.30	135.0	AM1	17:47:51.060								41.4	0.44	a	M1	3.7
KEK	0.39	172.0	S	17:47:55.451	5.7									m		22095
KEK	0.39	172.0	P	17:47:48.856	5.2									m		22094
VLO	0.41	335.0	Sg	17:47:49.596	0.2									m		22097
VLO	0.41	335.0	Pg	17:47:43.550	0.1									m		22096
VLO	0.41	335.0	AM1	17:47:57.960								104.5	0.40	a	M1	4.2
IGT	0.73	140.0	S	17:48:00.866	-0.1									m		22099
IGT	0.73	140.0	P	17:47:50.298	0.2									m		22098
KBN	0.96	56.0	S	17:48:07.917	0.1									m		22101
KBN	0.96	56.0	P	17:47:53.771	-0.2									m		22100
KBN	0.96	56.0	AM1	17:48:09.120								15.3	0.86	a	M1	4.0
FNA	1.44	60.0	S	17:48:23.294	-0.0									m		22103
FNA	1.44	60.0	P	17:48:02.368	-0.5									m		22102
LKD2	1.49	150.0	S	17:48:26.277	1.3									m		22105
LKD2	1.49	150.0	P	17:48:05.343	1.6									m		22104
PUK	1.95	3.0	S	17:48:38.810	0.4									m		22107
PUK	1.95	3.0	P	17:48:11.317	-0.1									m		22106
NOCI	2.15	290.0	S	17:48:43.562	-0.2									m		22109
NOCI	2.15	290.0	P	17:48:14.491	-0.0									m		22108
NOCI	2.15	290.0	AM1	17:48:57.070								12.0	0.60	a	M1	4.6
BCI	2.28	6.0	S	17:48:47.072	0.0									m		22111
BCI	2.28	6.0	P	17:48:16.356	-0.0									m		22110
BCI	2.28	6.0	AM1	17:49:01.020								9.0	0.66	a	M1	4.6

DATA\_TYPE COMMENT GSE2.1  
 Event 1653

Official Magnitude:  
 M1 4.16

Error ellipse:

	Azim	Dip	Mag
Max:	162	69	1.0900
Intermediate:	55	6	0.5200
Min:	323	20	0.3500

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115688 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1655 2.8 km from Kapit, Kukës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/06	12:13:58.44		0.04	42.0100	20.2752				13.1	9.3	6	9	168	0.29	1.48	m	
OrigID 1716																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.8	0.0	2	1716
Md	2.5	0.0	3	1716

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
PUK	0.29	277.0	Sg	12:14:09.230	0.0					---				m		22122	
PUK	0.29	277.0	Pg	12:14:04.624	0.0					---				m		22121	
PUK	0.29	277.0	AMl	12:14:11.550						---		7.2	0.12	a	Ml	2.9	11624
PUK	0.29	277.0	AMd	12:14:42.241						---		0.0	37.62	a	Md	2.5	11621
BCI	0.39	337.0	Sg	12:14:12.568	0.0					---				m		22124	
BCI	0.39	337.0	Pg	12:14:06.463	-0.0					---				m		22123	
BCI	0.39	337.0	AMl	12:14:15.540						---		3.4	0.38	a	Ml	2.7	11625
BCI	0.39	337.0	AMd	12:14:49.813						---		0.0	43.35	a	Md	2.0	11622
FNA	1.48	145.0	Sn	12:14:47.842	-0.0					---				m		22126	
FNA	1.48	145.0	Pn	12:14:26.755	0.1					---				m		22125	
FNA	1.48	145.0	AMd	12:15:31.747						---		0.0	64.99	a	Md	2.5	11623

DATA\_TYPE COMMENT GSE2.1  
Event 1655

Official Magnitude:  
Ml 2.76

Error ellipse:

	Azim	Dip	Mag
Max:	293	68	9.9900
Intermediate:	45	8	0.6600
Min:	138	20	0.2900

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115688 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1656 1.0 km from Pocestë, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/07	05:09:25.48		0.37	40.6890	20.7085				7.9	2.1	10	10	120	0.09	1.90	m	

Magnitude	Err	Nsta	Author	OrigID
M1	2.9	0.0	2	1717

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
KBN	0.09	137.0	Sg	05:09:30.309	1.4					---				m_		22128	
KBN	0.09	137.0	Pg	05:09:27.906	0.5					---				mc_		22127	
FNA	0.52	79.0	Sg	05:09:44.065	0.0					---				m_		22130	
FNA	0.52	79.0	Pg	05:09:35.669	-0.4					---				mc_		22129	
SRN	0.97	215.0	Sg	05:09:59.206	-0.6					---				m_		22132	
SRN	0.97	215.0	Pg	05:09:41.791	-3.3					---				md_		22131	
IGT	1.19	195.0	Sg	05:10:06.423	-0.0					---				m_		22134	
IGT	1.19	195.0	Pg	05:09:46.627	-2.3					---				mc_		22133	
KEK	1.20	216.0	S	05:10:06.929	0.2					---				m_		22136	
KEK	1.20	216.0	P	05:09:49.592	0.6					---				md_		22135	
PUK	1.48	336.0	Sn	05:10:15.563	0.2					---				m_		22138	
PUK	1.48	336.0	Pn	05:09:53.553	-0.4					---				mc_		22137	
PUK	1.48	336.0	AM1	05:10:18.800						---		0.4	0.54	a_	M1	2.8	11626
LKD2	1.90	182.0	Sn	05:10:28.257	-0.1					---				m_		22140	
LKD2	1.90	182.0	Pn	05:09:58.489	-2.9					---				mc_		22139	
LKD2	1.90	182.0	AM1	05:10:35.200						---		0.3	0.52	a_	M1	3.0	11627

DATA\_TYPE COMMENT GSE2.1  
 Event 1656

Official Magnitude:  
 M1 2.86

Error ellipse:

	Azim	Dip	Mag
Max:	98	71	2.2100
Intermediate:	301	16	0.8300
Min:	209	7	0.5900

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115688 athena



DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1657 0.8 km from Shalqizë, Tirana, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/08	02:58:43.01		0.05	41.1952	19.8743				19.3	2.7	9	6	158	0.78	1.21	m	

Magnitude	Err	Nsta	Author	OrigID
M1	2.1	0.0	5	1718

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.15	0.0	Pg	02:58:46.619	0.0					---				mdi		22152
TIR	0.15	358.0	Sg	02:58:50.637	-0.5					---				m__		22141
TIR	0.15	358.0	AM1	02:58:50.030						---		1.8	0.38	a__ M1	2.2	11628
VLO	0.78	202.0	Sn	02:59:08.783	-0.0					---				m__		22143
VLO	0.78	202.0	Pn	02:58:57.815	0.1					---				mce		22142
VLO	0.78	202.0	AM1	02:59:14.950						---		0.9	0.38	a__ M1	2.6	11629
PUK	0.85	0.0	Sn	02:59:11.835	-0.0					---				m__		22145
PUK	0.85	0.0	Pn	02:58:58.738	-0.8					---				mde		22144
PUK	0.85	0.0	AM1	02:59:18.190						---		0.2	0.20	a__ M1	1.9	11630
KBN	0.90	129.0	Sn	02:59:12.801	-0.0					---				m__		22147
KBN	0.90	129.0	Pn	02:59:00.086	0.0					---				mdi		22146
KBN	0.90	129.0	AM1	02:59:20.400						---		0.1	0.40	a__ M1	1.8	11631
BCI	1.18	6.0	Sn	02:59:22.296	0.1					---				m__		22149
BCI	1.18	6.0	Pn	02:59:05.319	-0.1					---				mce		22148
BCI	1.18	6.0	AM1	02:59:25.260						---		0.2	0.42	a__ M1	2.1	11632
FNA	1.21	109.0	Sn	02:59:23.524	0.0					---				m__		22151
FNA	1.21	109.0	Pn	02:59:06.150	-0.0					---				mci		22150

DATA\_TYPE COMMENT GSE2.1

Event 1657

Official Magnitude:

M1 2.11

Error ellipse:

	Azim	Dip	Mag
Max:	236	88	2.6600
Intermediate:	81	1	0.4600
Min:	351	1	0.2800

BEGIN GSE2.1

MSG\_TYPE DATA

MSG\_ID 1572115688 athena

DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1658 1.8 km from Krej-Lurë, Dibër, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/08	03:40:56.68		0.01	41.8507	20.1863				2.9	2.2	4	6	173	0.29	1.40	m	

Magnitude	Err	Nsta	Author	OrigID
M1	1.4	0.0	2	1719

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
PUK	0.29	0.0	Pg	03:41:03.151	0.0									mce		22158	
PUK	0.29	312.0	Sg	03:41:07.761	-0.0									m		22153	
PUK	0.29	312.0	AM1	03:41:09.570								0.4	0.28	a	M1	1.6	11633
BCI	0.52	351.0	Sg	03:41:15.554	0.0									m		22155	
BCI	0.52	351.0	Pg	03:41:06.691	-0.8									mce		22154	
BCI	0.52	351.0	AM1	03:41:17.490								0.1	0.28	a	M1	1.2	11634
FNA	1.40	139.0	S	03:41:44.837	0.0									m		22157	
FNA	1.40	139.0	P	03:41:24.201	0.0									m		22156	

DATA\_TYPE COMMENT GSE2.1  
Event 1658

Official Magnitude:  
M1 1.42

Error ellipse:

	Azim	Dip	Mag
Max:	248	85	2.2400
Intermediate:	55	4	1.2300
Min:	145	1	0.3000

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115688 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1660 0.9 km from Qershizë, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/09	08:10:15.60		0.35	40.8578	20.7125				15.2	1.6	14	11	123	0.24	2.07	m	

Magnitude	Err	Nsta	Author	OrigID
M1	3.2	0.0	3	1721

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
-----	------	------	-------	------	------	------	-------	------	------	-----	-----	-----	-----	------	-----------	-------

KBN	0.24	166.0	Sg	08:10:24.978	0.4	---	m_	22171
KBN	0.24	166.0	Pg	08:10:20.227	-0.5	---	mc_	22170
FNA	0.52	98.0	Sg	08:10:34.268	0.1	---	m_	22173
FNA	0.52	98.0	Pg	08:10:26.058	-0.1	---	mc_	22172
SRN	1.12	210.0	Sg	08:10:54.407	0.3	---	m_	22175
SRN	1.12	210.0	Pg	08:10:37.160	-0.5	---	mc_	22174
SRN	1.12	210.0	AM1	08:10:58.840		0.4	0.46 a_ M1	2.5 11644
PUK	1.33	333.0	Sn	08:11:00.102	0.1	---	m_	22177
PUK	1.33	333.0	Pn	08:10:40.204	-0.8	---	mc_	22176
PUK	1.33	333.0	AM1	08:11:05.030		1.3	0.44 a_ M1	3.2 11645
KEK	1.34	212.0	S	08:11:03.024	2.6	---	m_	22179
KEK	1.34	212.0	P	08:10:43.973	2.8	---	mc_	22178
IGT	1.36	193.0	Sn	08:11:01.143	0.3	---	m_	22181
IGT	1.36	193.0	Pn	08:10:41.351	-0.1	---	mc_	22180
BCI	1.58	343.0	Sn	08:11:07.757	0.1	---	m_	22183
BCI	1.58	343.0	Pn	08:10:45.940	0.6	---	mc_	22182
BCI	1.58	343.0	AM1	08:11:13.790		1.2	0.70 a_ M1	3.3 11646
LKD2	2.07	182.0	Sn	08:11:21.648	0.0	---	m_	22185
LKD2	2.07	182.0	Pn	08:10:52.506	-0.8	---	md_	22184

DATA\_TYPE COMMENT GSE2.1  
Event 1660

Official Magnitude:  
M1 3.16

Error ellipse:

	Azim	Dip	Mag
Max:	92	63	1.7800
Intermediate:	258	25	0.8000
Min:	351	6	0.5400

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115687 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1661 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/10	02:21:10.60		0.60	40.7392	20.2850				0.0	3.1	15	9	91	0.40	1.63	m	1722

Magnitude	Err	Nsta	Author	OrigID
M1	2.8	0.0	5	1722

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
-----	------	------	-------	------	------	------	-------	------	------	-----	-----	-----	-----	------	-----------	-------

KBN	0.40	106.0	S	02:21:25.872	0.6	---											m		22187
KBN	0.40	106.0	Pg	02:21:18.617	-0.4	---											m		22186
KBN	0.40	106.0	AM1	02:21:28.870		---				4.7	0.40	a	M1		2.8				11647
BPA1	0.48	269.0	Sg	02:21:28.108	-0.7	---											m		22189
BPA1	0.48	269.0	P	02:21:19.943	-1.1	---											m		22188
VLO	0.66	247.0	S	02:21:34.380	0.8	---											m		22191
VLO	0.66	247.0	Pg	02:21:23.423	-0.3	---											m		22190
VLO	0.66	247.0	AM1	02:21:36.990		---				6.3	0.30	a	M1		3.3				11648
TIR	0.69	0.0	P	02:21:24.020	0.0	---											m		22201
TIR	0.69	333.0	Sg	02:21:35.040	-0.7	---											m		22192
TIR	0.69	333.0	AM1	02:21:35.890		---				0.5	0.28	a	M1		2.2				11649
FNA	0.84	86.0	Sg	02:21:40.310	-0.4	---											m		22194
FNA	0.84	86.0	Pg	02:21:26.294	-1.5	---											m		22193
SRN	0.88	195.0	Sg	02:21:42.585	-0.5	---											m		22196
SRN	0.88	195.0	P	02:21:28.287	-0.9	---											m		22195
PUK	1.33	348.0	Sn	02:21:57.675	0.5	---											m		22198
PUK	1.33	348.0	P	02:21:36.280	-1.0	---											m		22197
PUK	1.33	348.0	AM1	02:22:03.470		---				0.5	0.68	a	M1		2.7				11650
BCI	1.63	355.0	Sn	02:22:07.022	0.4	---											m		22200
BCI	1.63	355.0	Pn	02:21:42.520	-0.1	---											m		22199
BCI	1.63	355.0	AM1	02:22:16.060		---				0.5	0.76	a	M1		3.0				11651

DATA\_TYPE COMMENT GSE2.1  
Event 1661

Official Magnitude:  
M1 2.77

Error ellipse:

	Azim	Dip	Mag
Max:	178	86	3.0900
Intermediate:	23	3	0.8800
Min:	293	2	0.8500

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115687 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1663 1.1 km from Kopaçez, Vlorë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/11	04:41:19.43		0.09	39.9952	20.0467				0.4	0.9	7	6	299	0.12	1.29	m	
1724																	

Magnitude	Err	Nsta	Author	OrigID
M1	1.1	0.0	1	1724

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
SRN	0.12	198.0	Sg	04:41:25.199	-0.0					---				m__		22214
SRN	0.12	198.0	Pg	04:41:20.317	-2.4					---				mdi		22213
SRN	0.12	198.0	AMl	04:41:25.380						---		0.2	0.28	a__ Ml	1.1	11654
KEK	0.34	215.0	Sg	04:41:33.037	0.1					---				m__		22216
KEK	0.34	215.0	Pg	04:41:27.029	-0.1					---				mde		22215
IGT	0.51	154.0	Sn	04:41:38.632	-0.0					---				m__		22218
IGT	0.51	154.0	Pn	04:41:30.317	-0.1					---				m__		22217
NEST	0.87	61.0	S	04:41:47.121	-3.7					---				m__		22219
FNA	1.29	51.0	S	04:42:03.710	-0.9					---				m__		22220
LKD2	1.29	158.0	S	04:42:04.783	-0.0					---				m__		22222
LKD2	1.29	158.0	P	04:41:45.494	0.1					---				m__		22221

DATA\_TYPE COMMENT GSE2.1  
Event 1663

Official Magnitude:  
Ml 1.06

Error ellipse:

	Azim	Dip	Mag
Max:	300	56	1.0300
Intermediate:	179	18	0.8000
Min:	79	27	0.4500

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115687 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1664 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/11	04:52:13.07		0.02	40.5092	20.7782				11.1	1.2	5	4	139	0.12	0.87	m	
1725																	

Magnitude	Err	Nsta	Author	OrigID
Ml	1.4	0.0	2	1725

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
NEST	0.00	0.0	Pg	04:52:17.806	0.0					---				mci		22229
NEST	0.23	114.0	Sg	04:52:22.000	0.0					---				m__		22225
NEST	0.23	114.0	AMl	04:52:23.160						---		0.3	0.12	a__ Ml	1.5	11656
KBN	0.11	3.0	Sg	04:52:17.784	0.0					---				m__		22224
KBN	0.11	3.0	Pg	04:52:12.356	-3.4					---				mce		22223
KBN	0.11	3.0	AMl	04:52:18.650						---		0.3	0.14	a__ Ml	1.3	11655

FNA	0.54	59.0	Sg	04:52:32.158	0.0	---	m	22227
FNA	0.54	59.0	Pg	04:52:23.946	-0.0	---	mdi	22226
SRN	0.87	224.0	S	04:52:43.823	0.0	---	m	22228

DATA\_TYPE COMMENT GSE2.1  
Event 1664

Official Magnitude:  
Ml 1.41

Error ellipse:

	Azim	Dip	Mag
Max:	329	77	1.2300
Intermediate:	114	10	0.4500
Min:	205	7	0.4200

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115687 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1667 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/11	08:32:38.31		0.05	40.5558	21.0892				24.1	13.3	8	4	149	0.14	1.07	m	1728

Magnitude	Err	Nsta	Author	OrigID
Ml	3.0	0.0	1	1728
Md	2.1	0.0	4	1728

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
NEST	0.14	193.0	Sg	08:32:45.544	0.0					---				m		22247
NEST	0.14	193.0	Pg	08:32:42.433	0.0					---				m		22246
NEST	0.14	193.0	AMl	08:32:47.598						---		9.6	0.24	a	Ml	3.0
NEST	0.14	193.0	AMd	08:33:18.178						---		0.0	35.75	a	Md	2.4
KBN	0.24	287.0	Sg	08:32:47.653	-0.0					---				m		22249
KBN	0.24	287.0	Pg	08:32:43.810	0.2					---				m		22248
KBN	0.24	287.0	AMd	08:33:17.256						---		0.0	33.45	a	Md	1.7
FNA	0.32	44.0	Sg	08:32:50.894	-0.0					---				m		22251
FNA	0.32	44.0	Pg	08:32:45.561	0.0					---				m		22250
FNA	0.32	44.0	AMd	08:33:26.733						---		0.0	41.17	a	Md	1.9
SRN	1.07	232.0	Sn	08:33:14.997	0.0					---				m		22253
SRN	1.07	232.0	Pn	08:32:59.161	-0.1					---				m		22252
SRN	1.07	232.0	AMd	08:33:50.304						---		0.0	51.14	a	Md	2.2

DATA\_TYPE COMMENT GSE2.1



Event 1667

Official Magnitude:  
Ml 3.00

Error ellipse:

	Azim	Dip	Mag
Max:	0	90	13.3000
Intermediate:	312	0	0.4900
Min:	42	0	0.2900

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115687 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1668 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/11	08:39:51.68		0.04	40.5773	21.0883				9.4	4.2	6	5	144	0.16	0.30	m	
OrigID 1729																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.0	0.0	1	1729
Md	1.9	0.0	3	1729

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
NEST	0.17	191.0	Sg	08:39:58.493	0.0											22255
NEST	0.17	191.0	Pg	08:39:55.367	-0.2											22254
NEST	0.17	191.0	AMl	08:39:59.638								1.4	0.20	a	Ml	2.0
NEST	0.17	191.0	AMd	08:40:26.969								0.0	31.60	a	Md	2.3
KBN	0.23	282.0	Sg	08:39:59.896	0.0											22257
KBN	0.23	282.0	Pg	08:39:56.311	-0.1											22256
KBN	0.23	282.0	AMd	08:40:22.727								0.0	26.42	a	Md	1.5
FNA	0.30	47.0	Sg	08:40:02.959	-0.0											22259
FNA	0.30	47.0	Pg	08:39:58.198	0.1											22258
FNA	0.30	47.0	AMd	08:40:39.000								0.0	40.80	a	Md	1.9

DATA\_TYPE COMMENT GSE2.1  
 Event 1668

Official Magnitude:  
Ml 2.01

Error ellipse:

	Azim	Dip	Mag
Max:	181	82	4.2000

Intermediate: 324 6 0.4300  
 Min: 55 5 0.2900

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115345 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1671 1.2 km from Hoseckë, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/12	03:07:20.72		0.23	40.2298	20.6060				6.5	1.8	12	9	117	0.39	1.89	m	1732

Magnitude	Err	Nsta	Author	OrigID
M1	2.2	0.0	2	1732

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
NEST	0.39	61.0	Sg	03:07:34.805	0.1									m_		22275
NEST	0.39	61.0	Pg	03:07:28.446	-0.3									mc_		22274
NEST	0.39	61.0	AM1	03:07:36.050								0.9	0.34	a_ M1	2.0	11688
KBN	0.42	19.0	Sg	03:07:36.182	1.3									m_		22277
KBN	0.42	19.0	Pg	03:07:29.100	0.3									md_		22276
SRN	0.58	234.0	Sg	03:07:41.958	0.1									m_		22279
SRN	0.58	234.0	Pg	03:07:31.739	-1.1									md_		22278
IGT	0.73	198.0	Sg	03:07:46.377	0.2									m_		22281
IGT	0.73	198.0	Pg	03:07:35.038	-0.2									mc_		22280
FNA	0.81	46.0	Sg	03:07:49.028	0.2									m_		22283
FNA	0.81	46.0	Pg	03:07:36.074	-0.7									md_		22282
LKD2	1.44	178.0	Sn	03:08:09.696	0.2									m_		22285
LKD2	1.44	178.0	Pn	03:07:47.948	-0.7									md_		22284
PUK	1.89	344.0	Sn	03:08:23.208	-0.1									m_		22287
PUK	1.89	344.0	Pn	03:07:56.484	0.0									md_		22286
PUK	1.89	344.0	AM1	03:08:27.570								0.1	0.56	a_ M1	2.3	11689

DATA\_TYPE COMMENT GSE2.1  
 Event 1671

Official Magnitude:  
 M1 2.15

Error ellipse:

	Azim	Dip	Mag
Max:	113	82	1.7900
Intermediate:	299	7	0.6700
Min:	209	1	0.3500

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115345 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1674 1.5 km from Tërnova e Madhe, Dibër, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/14	03:58:10.26		0.33	41.4302	20.3453				18.1	3.0	16	19	141	0.70	1.57 m		

Magnitude	Err	Nsta	Author	OrigID
M1	3.5	0.0	5	1735

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.37	258.0	Pg	03:58:16.911	-1.4									m		22310	
PUK	0.70	332.0	Sg	03:58:35.151	0.5									m		22312	
PUK	0.70	332.0	Pg	03:58:24.040	-0.2									m		22311	
PUK	0.70	332.0	AM1	03:58:39.350								11.4	0.36	a	M1	3.6	11700
PUK	0.70	332.0	AM1	03:58:39.710								13.5	0.30	a	M1	3.7	11699
KBN	0.87	157.0	Sg	03:58:39.900	0.5									m		22314	
KBN	0.87	157.0	Pg	03:58:27.413	0.5									m		22313	
KBN	0.87	157.0	AM1	03:58:45.390								4.8	0.80	a	M1	3.4	11701
BPA1	0.88	217.0	Sg	03:58:40.916	0.5									m		22316	
BPA1	0.88	217.0	Pg	03:58:26.953	-0.5									m		22315	
BPA1	0.88	217.0	AM1	03:58:49.780								2.9	0.68	a	M1	3.2	11702
BCI	0.96	348.0	Sg	03:58:42.644	-0.1									m		22318	
BCI	0.96	348.0	Pg	03:58:28.909	0.1									m		22317	
BCI	0.96	348.0	AM1	03:58:45.600								7.6	0.58	a	M1	3.6	11703
FNA	1.02	129.0	Sn	03:58:44.690	-0.1									m		22320	
FNA	1.02	129.0	Pn	03:58:29.616	-0.4									m		22319	
NEST	1.15	152.0	Sn	03:58:48.702	-0.0									m		22322	
NEST	1.15	152.0	Pn	03:58:32.143	-0.1									m		22321	
VLO	1.16	215.0	Sn	03:58:47.462	-0.4									m		22324	
VLO	1.16	215.0	Pn	03:58:32.097	0.4									m		22323	
SRN	1.57	190.0	Sn	03:59:02.586	0.0									m		22326	
SRN	1.57	190.0	Pn	03:58:39.735	-0.4									m		22325	
SRN	1.57	190.0	AM1	03:59:12.570								0.7	0.68	a	M1	3.0	11704

DATA\_TYPE COMMENT GSE2.1  
 Event 1674

Official Magnitude:  
 M1 3.49

Error ellipse:

Azim Dip Mag

Max: 342 82 3.0300  
 Intermediate: 73 0 0.8600  
 Min: 163 8 0.4800

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115345 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1675 1.3 km from Kolanec, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/15	19:42:42.88		0.06	40.6910	20.6880				13.2	0.4	5	4	305	0.10	0.54	m	
OrigID 1736																	

Magnitude	Err	Nsta	Author	OrigID
Ml	1.5	0.0	1	1736

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.10	131.0	Sg	19:42:47.040	0.0					---				m_		22328
KBN	0.10	131.0	Pg	19:42:45.748	0.5					---				mc_		22327
NEST	0.39	135.0	Sg	19:42:56.776	0.0					---				m_		22330
NEST	0.39	135.0	Pg	19:42:50.717	-0.1					---				mc_		22329
NEST	0.39	135.0	AMl	19:42:57.300						---		0.2	0.12	a_ Ml	1.5	11705
FNA	0.54	80.0	Sg	19:43:01.531	-0.0					---				m_		22332
FNA	0.54	80.0	Pg	19:42:53.635	0.1					---				md_		22331

DATA\_TYPE COMMENT GSE2.1  
 Event 1675

Official Magnitude:  
 Ml 1.47

Error ellipse:

	Azim	Dip	Mag
Max:	115	20	0.5200
Intermediate:	247	59	0.4300
Min:	17	21	0.2300

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115345 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1676 2.1 km from Kozel, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/16	16:18:12.66		0.01	40.4567	20.7593				16.1	0.1	5	19	267	0.17	0.58	m	

Magnitude	Err	Nsta	Author	OrigID
M1	1.8	0.0	2	1737

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
KBN	0.17	7.0	Sg	16:18:19.073	-0.0									m		22334	
KBN	0.17	7.0	Pg	16:18:16.342	0.0									m		22333	
KBN	0.17	7.0	AM1	16:18:19.600								0.8	0.34	a	M1	1.9	11706
NEST	0.22	100.0	Sg	16:18:21.521	0.0									m		22336	
NEST	0.22	100.0	Pg	16:18:17.457	-0.3									m		22335	
NEST	0.22	100.0	AM1	16:18:23.790								0.4	0.38	a	M1	1.6	11708
NEST	0.22	100.0	AM1	16:18:25.340								0.6	0.46	a	M1	1.8	11707
FNA	0.58	55.0	Sg	16:18:32.686	0.0									m		22338	
FNA	0.58	55.0	Pg	16:18:24.087	-0.0									m		22337	

DATA\_TYPE COMMENT GSE2.1  
Event 1676

Official Magnitude:  
M1 1.78

Error ellipse:

	Azim	Dip	Mag
Max:	232	52	0.0800
Intermediate:	35	36	0.0600
Min:	131	8	0.0300

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115345 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1678 1.7 km from Nikolicë, Korçë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/19	04:52:20.49		0.01	40.4673	20.7897				12.6	0.1	4	3	256	0.15	0.55	m	

Magnitude	Err	Nsta	Author	OrigID
M1	2.3	0.0	2	1739

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
-----	------	------	-------	------	------	------	-------	------	------	-----	-----	-----	-----	------	-----------	-------

NEST	0.00	0.0	Pg	04:52:25.008	0.0	---											m	22350
NEST	0.20	104.0	S	04:52:28.343	-0.0	---											m	22347
NEST	0.20	104.0	AM1	04:52:29.080		---					1.9	0.20	a	M1	2.2			11711
KBN	0.16	0.0	Sg	04:52:26.039	-0.0	---											m	22346
KBN	0.16	0.0	Pg	04:52:23.655	-0.0	---											m	22345
KBN	0.16	0.0	AM1	04:52:27.900		---					3.1	0.16	a	M1	2.4			11710
FNA	0.55	55.0	S	04:52:39.622	-0.0	---											m	22349
FNA	0.55	55.0	P	04:52:30.895	-0.5	---											m	22348

DATA\_TYPE COMMENT GSE2.1  
Event 1678

Official Magnitude:  
M1 2.30

Error ellipse:

	Azim	Dip	Mag
Max:	234	70	0.1500
Intermediate:	40	18	0.0600
Min:	131	5	0.0300

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115345 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1679 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/19	05:00:30.05		0.03	40.4467	20.7728				20.0	2.6	4	3	265	0.18	0.57	m	
1740																	

Magnitude	Err	Nsta	Author	OrigID
M1	3.0	0.0	2	1740

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
NEST	0.00	0.0	Pg	05:00:35.379	0.0					---						m	22356
NEST	0.21	98.0	S	05:00:38.888	0.0					---						m	22353
NEST	0.21	98.0	AM1	05:00:39.560						---		6.6	0.22	a	M1	2.8	11713
KBN	0.18	3.0	Sg	05:00:36.977	0.0					---						m	22352
KBN	0.18	3.0	Pg	05:00:33.945	-0.0					---						m	22351
KBN	0.18	3.0	AM1	05:00:37.220						---		12.2	0.28	a	M1	3.1	11712
FNA	0.57	54.0	Sg	05:00:50.014	-0.0					---						m	22355
FNA	0.57	54.0	Pg	05:00:41.172	-0.3					---						m	22354

DATA\_TYPE COMMENT GSE2.1  
Event 1679



Official Magnitude:  
Ml 2.96

Error ellipse:

	Azim	Dip	Mag
Max:	0	90	2.5800
Intermediate:	223	0	0.2700
Min:	313	0	0.1000

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115345 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1680 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/19	05:02:06.43		0.06	40.4740	20.7653				23.2	5.2	6	3	261	0.15	0.56	m	1741

Magnitude	Err	Nsta	Author	OrigID
Ml	2.3	0.0	1	1741

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.15	6.0	S	05:02:12.542	0.1					---				m		22358
KBN	0.15	6.0	P	05:02:09.846	-0.0					---				m		22357
NEST	0.22	105.0	Sg	05:02:15.682	0.1					---				m		22360
NEST	0.22	105.0	P	05:02:11.610	-0.1					---				m		22359
NEST	0.22	105.0	AMl	05:02:16.970						---		1.8	0.18	a	Ml 2.3	11714
FNA	0.56	56.0	Sg	05:02:26.022	-0.1					---				m		22362
FNA	0.56	56.0	Pg	05:02:17.733	0.1					---				m		22361

DATA\_TYPE COMMENT GSE2.1  
Event 1680

Official Magnitude:  
Ml 2.30

Error ellipse:

	Azim	Dip	Mag
Max:	0	90	5.1900
Intermediate:	236	0	0.4300
Min:	326	0	0.1800

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115345 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1681 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/19	06:15:39.96		0.03	40.4722	20.8022				6.2	2.4	4	13	250	0.15	0.54	m	

Magnitude	Err	Nsta	Author	OrigID
M1	1.7	0.0	2	1742

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
KBN	0.15	356.0	Sg	06:15:44.797	-0.0					---				m		22364
KBN	0.15	356.0	Pg	06:15:42.782	0.0					---				m		22363
KBN	0.15	356.0	AM1	06:15:45.970						---		1.3	0.28	a	M1	1.9
NEST	0.20	0.0	Pg	06:15:44.164	0.0					---				m		22368
NEST	0.20	106.0	Sg	06:15:47.148	0.0					---				m		22365
NEST	0.20	106.0	AM1	06:15:48.390						---		0.6	0.20	a	M1	1.7
NEST	0.20	106.0	AM1	06:15:48.280						---		0.7	0.20	a	M1	1.7
FNA	0.54	54.0	Sg	06:15:58.636	0.0					---				m		22367
FNA	0.54	54.0	Pg	06:15:50.274	-0.4					---				m		22366

DATA\_TYPE COMMENT GSE2.1  
 Event 1681

Official Magnitude:  
 M1 1.69

Error ellipse:

	Azim	Dip	Mag
Max:	276	89	2.3800
Intermediate:	44	0	0.2100
Min:	134	1	0.0800

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115344 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1683 Region N/A

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

2019/09/21 09:37:06.50 0.47 41.6057 19.5638 26.4 1.5 15 15 221 0.34 2.93 m  
1744

Magnitude Err Nsta Author OrigID  
M1 3.2 0.0 7 1744

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.33	0.0	P	09:37:15.448	0.0									m		22394
TIR	0.34	138.0	Sg	09:37:19.949	-0.1									m		22377
TIR	0.34	138.0	AM1	09:37:20.290								6.0	0.30	a	M1	2.9
BPA1	0.88	175.0	Sg	09:37:36.396	0.1									m		22379
BPA1	0.88	175.0	Pg	09:37:23.709	0.2									m		22378
BPA1	0.88	175.0	AM1	09:37:43.670								1.1	0.58	a	M1	2.8
VLO	1.14	183.0	Sg	09:37:42.889	0.0									m		22381
VLO	1.14	183.0	Pg	09:37:26.277	-1.0									m		22380
VLO	1.14	183.0	AM1	09:37:49.720								4.8	0.28	a	M1	3.6
KBN	1.35	136.0	Sg	09:37:50.404	0.7									m		22383
KBN	1.35	136.0	Pg	09:37:30.894	-0.3									m		22382
KBN	1.35	136.0	AM1	09:37:59.750								1.0	0.52	a	M1	3.1
KEK	1.90	174.0	Sn	09:38:05.502	-0.2									m		22385
KEK	1.90	174.0	Pn	09:37:40.878	0.5									m		22384
NOCI	2.05	248.0	Sn	09:38:10.386	0.7									m		22387
NOCI	2.05	248.0	Pn	09:37:42.751	0.1									m		22386
NOCI	2.05	248.0	AM1	09:38:21.470								1.2	0.36	a	M1	3.6
IGT	2.15	164.0	Pn	09:37:43.700	-0.4									m		22389
IGT	2.15	164.0	Sn	09:38:11.846	-0.4									m		22388
SGRT	2.85	275.0	Sn	09:38:29.527	-0.7									m		22391
SGRT	2.85	275.0	Pn	09:37:54.880	0.5									m		22390
SGRT	2.85	275.0	AM1	09:38:40.870								0.2	0.26	a	M1	3.2
LKD2	2.93	163.0	Sn	09:38:25.458	-6.9									m		22393
LKD2	2.93	163.0	Pn	09:37:53.651	-1.9									m		22392
LKD2	2.93	163.0	AM1	09:38:36.630								0.3	0.70	a	M1	3.4

DATA\_TYPE COMMENT GSE2.1  
Event 1683

Official Magnitude:  
M1 3.17

Error ellipse:

	Azim	Dip	Mag
Max:	35	8	1.8900
Intermediate:	146	66	1.6900
Min:	302	22	0.7700

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115344 athena

DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1685 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	14:15:52.39		0.78	41.4492	19.4702				38.3	2.3	14	15	188	0.73	2.81	m	

Magnitude	Err	Nsta	Author	OrigID
M1	5.3	0.0	9	1748

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.32	0.0	Pg	14:15:58.965	0.0									m		22466	
TIR	0.31	108.0	Sg	14:16:02.609	-4.4									m		22449	
TIR	0.31	108.0	AM1	14:16:05.050								865.5	0.52	a	M1	5.2	11759
TIR	0.31	108.0	AM1	14:16:03.950								1365.6	0.80	a	M1	5.4	11758
BPA2	0.73	171.0	Pg	14:16:06.985	-0.0									m		22451	
BPA2	0.73	171.0	Sg	14:16:18.291	0.3									m		22450	
BPA2	0.73	171.0	AM1	14:16:47.440								411.2	1.46	a	M1	5.2	11760
BPA1	0.74	168.0	Pg	14:16:06.251	-0.9									m		22453	
BPA1	0.74	168.0	Sg	14:16:18.263	-0.0									m		22452	
BPA1	0.74	168.0	AM1	14:16:36.730								282.7	1.12	a	M1	5.1	11761
VLO	0.98	178.0	Pg	14:16:12.186	1.8									m		22455	
VLO	0.98	178.0	Sg	14:16:23.984	0.0									m		22454	
VLO	0.98	178.0	AM1	14:16:28.690								753.1	0.70	a	M1	5.7	11762
KBN	1.29	129.0	Pg	14:16:16.258	0.6									m		22457	
KBN	1.29	129.0	Sg	14:16:33.933	0.9									m		22456	
KBN	1.29	129.0	AM1	14:16:37.130								165.0	0.76	a	M1	5.3	11763
KEK	1.75	171.0	Pn	14:16:26.364	3.3									m		22458	
NOCI	1.93	251.0	Pn	14:16:25.839	0.1									m		22459	
IGT	2.02	160.0	Pn	14:16:27.833	0.7									m		22461	
IGT	2.02	160.0	Sn	14:16:52.037	-1.1									m		22460	
IGT	2.02	160.0	AM1	14:17:08.540								71.5	0.64	a	M1	5.4	11764
THE	2.77	106.0	Pn	14:16:37.183	-0.8									m		22462	
THE	2.77	106.0	AM1	14:17:15.680								25.5	0.96	a	M1	5.3	11765
SGRT	2.80	278.0	Sn	14:17:10.180	-2.9									m		22464	
SGRT	2.80	278.0	Pn	14:16:38.635	0.2									m		22463	
SGRT	2.80	278.0	AM1	14:17:32.740								25.2	0.84	a	M1	5.3	11766
LKD2	2.81	160.0	Pn	14:16:37.254	-1.4									m		22465	
LKD2	2.81	160.0	AM1	14:17:20.480								46.3	0.78	a	M1	5.5	11767

DATA\_TYPE COMMENT GSE2.1  
Event 1685

Official Magnitude:  
M1 5.26

Error ellipse:

Azim Dip Mag

Max: 215 39 3.5500  
 Intermediate: 68 45 2.4100  
 Min: 320 17 1.9500

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115344 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1686 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	14:04:23.25		0.64	41.4195	19.5093				28.8	1.7	17	11	186	0.28	2.83	m	
OrigID 1747																	

Magnitude	Err	Nsta	Author	OrigID
ML	5.8	0.0	10	1747

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.28	0.0	Pg	14:04:30.829	0.0									m		22448	
TIR	0.28	104.0	Sg	14:04:35.733	0.4									m		22429	
TIR	0.28	104.0	Sg	14:04:34.923	-0.4									m		22428	
TIR	0.28	104.0	AM1	14:04:35.930								3201.4	0.62	a	M1	5.6	11745
TIR	0.28	104.0	AM1	14:04:35.940								3753.8	0.58	a	M1	5.7	11744
BPA2	0.69	173.0	Pg	14:04:38.780	1.8									m		22431	
BPA2	0.69	173.0	Sg	14:04:46.796	-0.5									m		22430	
BPA2	0.69	173.0	AM1	14:05:15.380								1680.8	1.20	a	M1	5.8	11746
BPA1	0.70	170.0	Pg	14:04:37.794	0.6									m		22433	
BPA1	0.70	170.0	Sg	14:04:47.234	-0.4									m		22432	
BPA1	0.70	170.0	AM1	14:05:12.680								447.8	1.24	a	M1	5.2	11747
VLO	0.95	181.0	S	14:04:57.421	3.5									m		22435	
VLO	0.95	181.0	Pg	14:04:43.302	2.6									m		22434	
VLO	0.95	181.0	AM1	14:05:07.780								2190.0	0.94	a	M1	6.1	11749
VLO	0.95	181.0	AM1	14:05:04.870								2278.6	0.72	a	M1	6.1	11748
KBN	1.25	129.0	Pn	14:04:46.601	0.4									m		22437	
KBN	1.25	129.0	Sg	14:05:02.722	-0.7									m		22436	
KBN	1.25	129.0	AM1	14:05:09.580								1572.5	0.84	a	M1	6.2	11750
KEK	1.72	172.0	S	14:05:19.464	2.0									m		22439	
KEK	1.72	172.0	Pn	14:04:57.826	3.6									m		22438	
NOCI	1.95	252.0	S	14:05:23.713	0.2									m		22441	
NOCI	1.95	252.0	Pn	14:04:57.539	-0.1									m		22440	
NOCI	1.95	252.0	AM1	14:05:45.550								143.9	0.42	a	M1	5.6	11752
NOCI	1.95	252.0	AM1	14:05:38.870								151.5	0.46	a	M1	5.6	11751
IGT	1.99	161.0	Pn	14:04:59.109	0.9									m		22443	
IGT	1.99	161.0	Sn	14:05:26.012	1.7									m		22442	
IGT	1.99	161.0	AM1	14:05:34.310								300.7	0.84	a	M1	6.0	11753
THE	2.73	105.0	Pn	14:05:09.160	0.1									m		22444	

THE	2.73	105.0	AM1	14:05:45.380	---	104.0	0.98	a__	M1	5.8	11755
THE	2.73	105.0	AM1	14:05:48.950	---	186.2	0.64	a__	M1	6.1	11754
LKD2	2.77	161.0	Pn	14:05:08.985	-0.7	---	---	m__	---	---	22445
LKD2	2.77	161.0	AM1	14:06:01.160	---	362.7	0.88	a__	M1	6.4	11756
SGRT	2.83	278.0	S	14:05:44.613	-1.5	---	---	m__	---	---	22447
SGRT	2.83	278.0	Pg	14:05:10.232	-0.4	---	---	m__	---	---	22446
SGRT	2.83	278.0	AM1	14:06:17.020	---	56.1	0.66	a__	M1	5.6	11757

DATA\_TYPE COMMENT GSE2.1  
Event 1686

Official Magnitude:  
M1 5.82

Error ellipse:

	Azim	Dip	Mag
Max:	110	56	2.0200
Intermediate:	15	3	1.6900
Min:	283	34	0.9600

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115342 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1687 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
OrigID																		
2019/09/21	16:10:36.79		0.64	41.4247	19.4322				46.2	3.1	14	15	187	0.71	2.79	m		
1749																		

Magnitude	Err	Nsta	Author	OrigID
M1	4.2	0.0	8	1749

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.33	0.0	Pg	16:10:43.006	0.0									m__		22483	
TIR	0.33	103.0	Sg	16:10:46.893	-6.3									m__		22467	
TIR	0.33	103.0	AM1	16:10:46.620								79.2	0.36	a__	M1	4.2	11769
TIR	0.33	103.0	AM1	16:10:48.280								68.5	0.38	a__	M1	4.1	11768
BPA2	0.71	168.0	Sg	16:11:02.240	0.1									m__		22469	
BPA2	0.71	168.0	Pg	16:10:51.577	0.3									m__		22468	
BPA2	0.71	168.0	AM1	16:11:07.460								11.8	0.28	a__	M1	3.7	11770
BPA1	0.72	166.0	Sg	16:11:02.545	0.0									m__		22471	
BPA1	0.72	166.0	Pg	16:10:51.324	-0.2									m__		22470	
BPA1	0.72	166.0	AM1	16:11:23.510								13.2	0.66	a__	M1	3.8	11771
VLO	0.96	177.0	Sg	16:11:07.486	-0.2									m__		22473	
VLO	0.96	177.0	Pg	16:10:56.835	2.4									m__		22472	

VLO	0.96	177.0	AM1	16:11:15.430	---	53.8	0.30	a	M1	4.6	11773
VLO	0.96	177.0	AM1	16:11:12.950	---	48.5	0.60	a	M1	4.5	11772
KBN	1.30	127.0	Sg	16:11:17.416	0.2	---	---	m	---	---	22475
KBN	1.30	127.0	Pg	16:11:00.753	0.8	---	---	m	---	---	22474
KBN	1.30	127.0	AM1	16:11:20.630	---	19.1	0.44	a	M1	4.3	11774
NOCI	1.90	252.0	Sn	16:11:32.680	-0.8	---	---	m	---	---	22477
NOCI	1.90	252.0	Pn	16:11:09.859	0.7	---	---	m	---	---	22476
IGT	2.01	159.0	Sn	16:11:37.036	0.7	---	---	m	---	---	22479
IGT	2.01	159.0	Pn	16:11:10.507	-0.3	---	---	m	---	---	22478
IGT	2.01	159.0	AM1	16:11:44.040	---	3.9	0.46	a	M1	4.1	11775
SGRT	2.77	278.0	Pn	16:11:22.668	0.6	---	---	m	---	---	22480
THE	2.79	105.0	Pn	16:11:20.868	-1.4	---	---	m	---	---	22481
THE	2.79	105.0	AM1	16:11:57.690	---	1.2	0.46	a	M1	4.0	11776
LKD2	2.79	159.0	Pn	16:11:20.907	-1.5	---	---	m	---	---	22482
LKD2	2.79	159.0	AM1	16:12:08.190	---	3.4	0.54	a	M1	4.4	11777

DATA\_TYPE COMMENT GSE2.1  
Event 1687

Official Magnitude:  
M1 4.15

Error ellipse:

	Azim	Dip	Mag
Max:	196	53	3.8500
Intermediate:	37	34	2.1500
Min:	300	10	1.3700

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115342 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1689 5 km from Bishtkamzë, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	15:54:09.73		0.86	41.4487	19.4213				37.2	3.1	15	15	187	0.73	2.82	m	1753

Magnitude	Err	Nsta	Author	OrigID
M1	3.3	0.0	5	1753

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.36	0.0	Pg	15:54:16.818	0.0					---				m		22556	
TIR	0.35	106.0	Sg	15:54:18.497	-6.5					---				m		22538	
TIR	0.35	106.0	AM1	15:54:23.160						---		10.5	0.26	a	M1	3.2	11795
TIR	0.35	106.0	AM1	15:54:20.430						---		11.2	0.32	a	M1	3.3	11794

BPA2	0.73	168.0	Sg	15:54:33.904	-1.5	---	m	---	22540
BPA2	0.73	168.0	Pg	15:54:24.891	0.5	---	m	---	22539
BPA1	0.75	166.0	Sg	15:54:36.310	0.5	---	m	---	22542
BPA1	0.75	166.0	Pg	15:54:24.584	-0.0	---	m	---	22541
BPA1	0.75	166.0	AM1	15:55:01.850		---	1.6	0.62 a M1	2.8 11796
VLO	0.98	176.0	Sg	15:54:42.031	0.6	---	m	---	22544
VLO	0.98	176.0	Pg	15:54:30.987	3.1	---	m	---	22543
VLO	0.98	176.0	AM1	15:54:47.240		---	4.7	0.34 a M1	3.5 11797
KBN	1.32	128.0	Sg	15:54:51.458	0.2	---	m	---	22546
KBN	1.32	128.0	Pg	15:54:33.318	-0.2	---	m	---	22545
NOCI	1.90	251.0	Sn	15:55:06.379	-1.0	---	m	---	22548
NOCI	1.90	251.0	Pn	15:54:43.733	1.1	---	m	---	22547
IGT	2.04	159.0	Sn	15:55:11.232	0.3	---	m	---	22550
IGT	2.04	159.0	Pn	15:54:45.632	0.9	---	m	---	22549
SGRT	2.76	278.0	Sn	15:55:28.754	-0.8	---	m	---	22552
SGRT	2.76	278.0	Pn	15:54:56.827	1.5	---	m	---	22551
SGRT	2.76	278.0	AM1	15:55:31.790		---	0.3	0.24 a M1	3.3 11798
THE	2.80	105.0	Pn	15:54:54.990	-0.9	---	m	---	22553
THE	2.80	105.0	AM1	15:55:29.780		---	0.4	0.70 a M1	3.4 11799
LKD2	2.82	159.0	Sn	15:55:25.980	-5.1	---	m	---	22555
LKD2	2.82	159.0	Pn	15:54:55.061	-1.2	---	m	---	22554

DATA\_TYPE COMMENT GSE2.1  
Event 1689

Official Magnitude:  
M1 3.28

Error ellipse:

	Azim	Dip	Mag
Max:	195	44	4.3600
Intermediate:	51	39	2.5300
Min:	305	19	1.4700

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115343 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1690 0.7 km from Maliq Muço, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	14:48:02.57		1.27	41.3408	19.5228				26.8	4.1	13	15	168	0.26	2.85	m	
1754																	

Magnitude	Err	Nsta	Author	OrigID
M1	3.4	0.0	8	1754



Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.00	0.0	Pg	14:48:09.512	0.0									m		22572
TIR	0.26	88.0	Sg	14:48:13.197	-0.7									m		22557
TIR	0.26	88.0	AM1	14:48:13.190								29.3	0.34	a	M1	3.6
BPA2	0.61	173.0	Pg	14:48:14.544	-0.3									m		22558
BPA2	0.61	173.0	AM1	14:48:45.780								1.8	0.62	a	M1	2.7
BPA1	0.63	170.0	Sg	14:48:22.964	-1.4									m		22560
BPA1	0.63	170.0	Pg	14:48:10.762	-4.3									m		22559
BPA1	0.63	170.0	AM1	14:48:46.370								2.9	1.04	a	M1	3.0
BPA1	0.63	170.0	AM1	14:48:36.990								0.6	0.52	a	M1	2.3
VLO	0.87	182.0	Sg	14:48:31.522	0.8									m		22562
VLO	0.87	182.0	Pg	14:48:23.366	4.7									m		22561
VLO	0.87	182.0	AM1	14:48:41.510								7.4	0.36	a	M1	3.6
VLO	0.87	182.0	AM1	14:48:38.910								9.3	0.32	a	M1	3.7
KBN	1.20	126.0	Sg	14:48:43.146	2.0									m		22564
KBN	1.20	126.0	Pg	14:48:27.158	2.6									m		22563
KBN	1.20	126.0	AM1	14:48:47.050								2.8	0.52	a	M1	3.4
IGT	1.91	160.0	Sn	14:49:00.177	-1.8									m		22566
IGT	1.91	160.0	Pn	14:48:37.892	1.4									m		22565
IGT	1.91	160.0	AM1	14:49:16.360								0.8	0.94	a	M1	3.4
NOCI	1.94	255.0	Sn	14:49:04.371	1.6									m		22568
NOCI	1.94	255.0	Pn	14:48:36.683	-0.3									m		22567
NOCI	1.94	255.0	AM1	14:49:18.170								1.5	0.48	a	M1	3.6
LKD2	2.69	160.0	Pn	14:48:47.212	-0.8									m		22569
THE	2.70	104.0	Pn	14:48:47.829	-0.3									m		22570
THE	2.70	104.0	AM1	14:49:24.420								0.3	0.48	a	M1	3.3
SGRT	2.85	280.0	Pn	14:48:49.199	-1.2									m		22571

DATA\_TYPE COMMENT GSE2.1  
Event 1690

Official Magnitude:  
M1 3.38

Error ellipse:

	Azim	Dip	Mag
Max:	92	60	4.7400
Intermediate:	191	4	3.4600
Min:	283	30	2.2400

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115342 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1691 2.8 km from Hamallaj, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	16:32:39.01		2.00	41.4698	19.5160				37.0	5.7	13	15	197	0.29	2.83	m	

Magnitude	Err	Nsta	Author	OrigID
ML	3.0	0.0	7	1755

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.29	0.0	Pg	16:32:45.076	0.0					---				m		22587	
TIR	0.29	114.0	Sg	16:32:48.513	-4.3					---				m		22573	
TIR	0.29	114.0	AMl	16:32:53.240						---		2.8	0.36	a	Ml	2.6	11811
TIR	0.29	114.0	AMl	16:32:49.780						---		2.4	0.60	a	Ml	2.6	11810
BPA1	0.75	171.0	Sg	16:33:04.094	-1.1					---				m		22575	
BPA1	0.75	171.0	Pg	16:32:54.766	0.8					---				m		22574	
BPA1	0.75	171.0	AMl	16:33:07.470						---		0.2	0.46	a	Ml	1.9	11813
BPA1	0.75	171.0	AMl	16:33:06.560						---		0.6	0.26	a	Ml	2.4	11812
VLO	1.00	181.0	Sg	16:33:11.466	0.2					---				m		22577	
VLO	1.00	181.0	Pg	16:32:59.732	2.3					---				m		22576	
VLO	1.00	181.0	AMl	16:33:18.800						---		2.7	0.50	a	Ml	3.3	11815
VLO	1.00	181.0	AMl	16:33:18.100						---		2.9	0.22	a	Ml	3.3	11814
KBN	1.28	130.0	Sg	16:33:17.983	-1.5					---				m		22579	
KBN	1.28	130.0	Pn	16:33:04.716	2.6					---				m		22578	
KBN	1.28	130.0	AMl	16:33:26.530						---		0.7	0.44	a	Ml	2.9	11816
KEK	1.77	172.0	Pn	16:33:12.847	2.8					---				m		22580	
NOCI	1.97	251.0	Pn	16:33:11.956	-1.1					---				m		22581	
NOCI	1.97	251.0	AMl	16:33:49.260						---		0.4	0.46	a	Ml	3.1	11817
IGT	2.03	161.0	Sn	16:33:37.798	-2.3					---				m		22583	
IGT	2.03	161.0	Pn	16:33:14.391	0.5					---				m		22582	
LKD2	2.82	161.0	Sn	16:33:39.972	-10.0					---				m		22585	
LKD2	2.82	161.0	Pn	16:33:19.368	-6.1					---				m		22584	
LKD2	2.82	161.0	AMl	16:33:43.450						---		0.3	0.68	a	Ml	3.4	11818
SGRT	2.83	277.0	Pn	16:33:24.007	-1.7					---				m		22586	
SGRT	2.83	277.0	AMl	16:34:03.410						---		0.2	0.60	a	Ml	3.0	11819

DATA\_TYPE COMMENT GSE2.1  
Event 1691

Official Magnitude:  
ML 2.96

Error ellipse:

	Azim	Dip	Mag
Max:	210	20	8.4900
Intermediate:	81	58	6.6900
Min:	309	23	5.0900

BEGIN GSE2.1

MSG\_TYPE DATA  
 MSG\_ID 1572115341 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1693 2.8 km from Bishtkamzë, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	17:58:12.01		1.44	41.4250	19.4408				48.7	4.9	15	15	209	0.71	2.79	m	
OrigID 1757																	

Magnitude	Err	Nsta	Author	OrigID
Ml	3.0	0.0	6	1757

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.27	0.0	Pg	17:58:18.469	0.0									m		22604
TIR	0.33	103.0	S	17:58:21.573	-7.2									m		22588
TIR	0.33	103.0	AMl	17:58:23.330								7.1	0.40	a	Ml	3.2
TIR	0.33	103.0	AMl	17:58:22.770								4.3	0.26	a	Ml	2.9
BPA2	0.71	168.0	Pg	17:58:28.807	2.2									m		22590
BPA2	0.71	168.0	Sg	17:58:38.538	1.0									m		22589
BPA1	0.72	166.0	Sg	17:58:36.035	-1.9									m		22592
BPA1	0.72	166.0	Pg	17:58:24.445	-2.4									m		22591
BPA1	0.72	166.0	AMl	17:58:46.710								0.9	0.78	a	Ml	2.6
VLO	0.96	177.0	Sg	17:58:43.363	0.4									m		22594
VLO	0.96	177.0	Pg	17:58:32.126	2.4									m		22593
VLO	0.96	177.0	AMl	17:58:50.800								2.8	0.22	a	Ml	3.3
KBN	1.30	127.0	Sg	17:58:50.782	-1.3									m		22596
KBN	1.30	127.0	Pg	17:58:36.215	1.3									m		22595
KBN	1.30	127.0	AMl	17:58:57.680								0.8	1.06	a	Ml	3.0
NOCI	1.90	252.0	Pn	17:58:45.204	0.9									m		22597
NOCI	1.90	252.0	AMl	17:59:25.460								0.6	0.50	a	Ml	3.2
IGT	2.01	159.0	Sn	17:59:11.748	0.5									m		22599
IGT	2.01	159.0	Pn	17:58:46.686	0.8									m		22598
IGT	2.01	159.0	AMl	17:59:25.990								0.3	0.46	a	Ml	3.0
SGRT	2.78	278.0	Sn	17:59:29.586	-1.6									m		22601
SGRT	2.78	278.0	Pn	17:58:57.509	0.3									m		22600
LKD2	2.79	160.0	Sn	17:59:28.323	-3.2									m		22603
LKD2	2.79	160.0	Pn	17:58:56.330	-1.1									m		22602

DATA\_TYPE COMMENT GSE2.1  
 Event 1693

Official Magnitude:  
 Ml 2.96

Error ellipse:

	Azim	Dip	Mag
Max:	213	30	8.1500
Intermediate:	52	58	5.7600

Min: 308 9 2.9200

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115341 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1694 5.0 km from Bishtkamzë, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	19:06:36.18		0.71	41.4177	19.3783				37.6	2.1	15	15	207	0.71	2.80	m	1758

Magnitude	Err	Nsta	Author	OrigID
M1	3.2	0.0	4	1758

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.38	0.0	Pg	19:06:42.876	0.0					___				m		22621	
TIR	0.37	100.0	Sg	19:06:44.630	-7.4					___				m		22605	
TIR	0.37	100.0	AM1	19:06:47.110						___		6.5	0.24	a	M1	3.1	11828
TIR	0.37	100.0	AM1	19:06:47.450						___		6.0	0.26	a	M1	3.0	11827
BPA2	0.71	165.0	Sg	19:07:00.420	-0.8					___				m		22607	
BPA2	0.71	165.0	Pg	19:06:50.789	0.3					___				m		22606	
BPA1	0.72	163.0	Sg	19:07:01.333	-0.3					___				m		22609	
BPA1	0.72	163.0	Pg	19:06:50.919	0.2					___				m		22608	
VLO	0.95	174.0	Sg	19:07:07.670	0.6					___				m		22611	
VLO	0.95	174.0	Pg	19:06:56.593	2.8					___				m		22610	
VLO	0.95	174.0	AM1	19:07:16.000						___		3.9	0.30	a	M1	3.4	11830
VLO	0.95	174.0	AM1	19:07:16.310						___		3.7	0.36	a	M1	3.4	11829
KBN	1.33	126.0	Sg	19:07:17.753	-0.1					___				m		22613	
KBN	1.33	126.0	Pg	19:06:59.835	-0.2					___				m		22612	
KBN	1.33	126.0	AM1	19:07:21.350						___		0.9	0.64	a	M1	3.0	11831
NOCI	1.86	251.0	Sn	19:07:32.233	-0.5					___				m		22615	
NOCI	1.86	251.0	Pn	19:07:09.481	1.0					___				m		22614	
NOCI	1.86	251.0	AM1	19:07:47.020						___		1.0	0.30	a	M1	3.4	11832
IGT	2.02	158.0	Sn	19:07:37.479	0.6					___				m		22617	
IGT	2.02	158.0	Pn	19:07:13.199	2.4					___				m		22616	
SGRT	2.73	279.0	Sn	19:07:54.725	-0.5					___				m		22619	
SGRT	2.73	279.0	Pn	19:07:21.709	0.3					___				m		22618	
LKD2	2.80	159.0	Pn	19:07:20.617	-1.8					___				m		22620	

DATA\_TYPE COMMENT GSE2.1  
Event 1694

Official Magnitude:  
M1 3.21

Error ellipse:

	Azim	Dip	Mag
Max:	201	34	3.7100
Intermediate:	61	47	2.2700
Min:	306	21	1.1400

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115342 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1695 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	17:12:13.79		0.24	41.6155	19.6572				34.6	0.8	11	15	224	0.31	2.92	m	
1759																	

Magnitude	Err	Nsta	Author	OrigID
M1	3.1	0.0	6	1759

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.31	0.0	Pg	17:12:25.195	0.0									m		22636	
TIR	0.31	149.0	Sg	17:12:27.587	-0.1									m		22622	
TIR	0.31	149.0	AM1	17:12:29.960								6.8	0.38	a	M1	3.0	11834
TIR	0.31	149.0	AM1	17:12:30.300								4.6	0.28	a	M1	2.9	11833
BPA2	0.88	182.0	Sg	17:12:43.629	-0.1									m		22624	
BPA2	0.88	182.0	Pg	17:12:31.128	0.2									m		22623	
BPA1	0.89	181.0	Sg	17:12:43.991	0.0									m		22626	
BPA1	0.89	181.0	Pg	17:12:30.656	-0.4									m		22625	
BPA1	0.89	181.0	AM1	17:12:51.590								1.1	0.76	a	M1	2.8	11835
VLO	1.15	187.0	Sg	17:12:50.802	0.3									m		22628	
VLO	1.15	187.0	Pg	17:12:38.431	3.6									m		22627	
VLO	1.15	187.0	AM1	17:12:55.620								4.2	0.48	a	M1	3.6	11837
VLO	1.15	187.0	AM1	17:12:55.880								5.6	0.34	a	M1	3.7	11836
KBN	1.31	138.0	Sg	17:12:55.088	-0.2									m		22630	
KBN	1.31	138.0	Pg	17:12:42.802	5.3									m		22629	
KBN	1.31	138.0	AM1	17:13:03.890								0.8	0.52	a	M1	3.0	11838
IGT	2.14	165.0	Sn	17:13:17.980	-0.1									m		22632	
IGT	2.14	165.0	Pn	17:12:46.504	-4.0									m		22631	
IGT	2.14	165.0	AM1	17:13:29.027								0.4	0.62	a	M1	3.2	11839
SGRT	2.92	274.0	Sn	17:13:37.897	-0.2									m		22634	
SGRT	2.92	274.0	Pn	17:13:02.146	0.2									m		22633	
LKD2	2.92	164.0	Pn	17:13:02.489	0.5									m		22635	
LKD2	2.92	164.0	AM1	17:13:49.580								0.3	0.58	a	M1	3.4	11840

DATA\_TYPE COMMENT GSE2.1  
Event 1695

Official Magnitude:  
Ml 3.10

Error ellipse:

	Azim	Dip	Mag
Max:	220	3	1.2100
Intermediate:	122	64	0.8500
Min:	311	26	0.5300

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115344 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1696 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	14:22:26.17		0.84	41.2907	19.2400				74.2	6.4	12	15	197	0.65	2.72	m	1760

Magnitude	Err	Nsta	Author	OrigID
Ml	3.1	0.0	4	1760

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.44	0.0	Pg	14:22:33.044	0.0					---				m		22651	
TIR	0.47	82.0	Sg	14:22:34.614	-10.0					---				m		22637	
TIR	0.47	82.0	AMl	14:22:36.870						---		14.8	0.28	a	Ml	3.7	11842
TIR	0.47	82.0	AMl	14:22:36.780						---		13.6	0.36	a	Ml	3.7	11841
BPA1	0.65	150.0	Sg	14:22:52.415	-0.6					---				m		22639	
BPA1	0.65	150.0	Pg	14:22:40.591	-0.9					---				m		22638	
VLO	0.84	166.0	Sn	14:22:56.718	0.8					---				m		22641	
VLO	0.84	166.0	Pn	14:22:44.619	1.4					---				m		22640	
VLO	0.84	166.0	AMl	14:23:06.820						---		1.7	0.26	a	Ml	3.1	11843
KBN	1.35	119.0	Sg	14:23:08.086	-0.3					---				m		22643	
KBN	1.35	119.0	Pg	14:22:51.064	0.8					---				m		22642	
KBN	1.35	119.0	AMl	14:23:13.950						---		0.9	0.52	a	Ml	3.1	11844
KEK	1.63	164.0	Pn	14:23:00.831	6.0					---				m		22644	
IGT	1.94	154.0	Sn	14:23:24.335	0.2					---				m		22646	
IGT	1.94	154.0	Pn	14:22:58.098	-1.2					---				m		22645	
IGT	1.94	154.0	AMl	14:23:35.500						---		0.2	0.36	a	Ml	2.7	11845
SGRT	2.65	282.0	Sn	14:23:41.249	-1.0					---				m		22648	
SGRT	2.65	282.0	P	14:23:10.831	1.2					---				m		22647	
LKD2	2.72	156.0	Sn	14:23:43.892	-0.2					---				m		22650	
LKD2	2.72	156.0	Pn	14:23:10.450	-0.2					---				m		22649	

DATA\_TYPE COMMENT GSE2.1

Event 1696

Official Magnitude:  
Ml 3.10

Error ellipse:

	Azim	Dip	Mag
Max:	193	71	6.7500
Intermediate:	36	17	5.2400
Min:	304	7	1.9300

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115341 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1697 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	20:00:48.63		1.34	41.5490	19.4863				36.0	4.0	15	15	192	0.35	2.90	m	
OrigID 1761																	

Magnitude	Err	Nsta	Author	OrigID
Ml	3.5	0.0	7	1761

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.35	0.0	Pg	20:00:57.521	0.0					---				m		22669
TIR	0.35	125.0	Sg	20:01:01.938	-1.7					---				m		22652
TIR	0.35	125.0	AMl	20:01:01.320						---		27.9	0.40	a	Ml 3.7	11846
BPA1	0.83	171.0	Sg	20:01:13.107	-4.1					---				m		22654
BPA1	0.83	171.0	Pg	20:01:05.614	0.7					---				m		22653
BPA1	0.83	171.0	AMl	20:01:25.800						---		2.0	0.62	a	Ml 3.0	11848
BPA1	0.83	171.0	AMl	20:01:17.520						---		0.4	0.52	a	Ml 2.3	11847
VLO	1.08	179.0	Sg	20:01:23.838	0.6					---				m		22656
VLO	1.08	179.0	Pg	20:01:11.130	2.7					---				m		22655
VLO	1.08	179.0	AMl	20:01:32.120						---		9.3	0.42	a	Ml 3.9	11849
KBN	1.35	132.0	Sg	20:01:30.124	-1.0					---				m		22658
KBN	1.35	132.0	Pg	20:01:15.388	2.5					---				m		22657
KBN	1.35	132.0	AMl	20:01:35.930						---		2.9	0.56	a	Ml 3.5	11850
NOCI	1.98	249.0	Sn	20:01:46.754	-1.8					---				m		22660
NOCI	1.98	249.0	Pn	20:01:22.565	-0.3					---				m		22659
NOCI	1.98	249.0	AMl	20:02:03.460						---		1.8	0.46	a	Ml 3.7	11851
IGT	2.12	162.0	Sn	20:01:51.805	-0.2					---				m		22662
IGT	2.12	162.0	Pn	20:01:25.882	1.0					---				m		22661
THE	2.78	108.0	Sn	20:02:08.003	-1.2					---				m		22664
THE	2.78	108.0	Pn	20:01:35.670	1.0					---				m		22663
THE	2.78	108.0	AMl	20:02:13.700						---		0.3	0.54	a	Ml 3.3	11852

SGRT	2.80	276.0	Sn	20:02:08.531	-1.1	---											m	22666
SGRT	2.80	276.0	Pn	20:01:37.225	2.3	---											m	22665
LKD2	2.90	161.0	Sn	20:02:06.336	-5.8	---											m	22668
LKD2	2.90	161.0	Pn	20:01:35.597	-0.8	---											m	22667
LKD2	2.90	161.0	AM1	20:02:19.650		---					0.4	0.44	a	M1	3.5			11853

DATA\_TYPE COMMENT GSE2.1  
Event 1697

Official Magnitude:  
M1 3.50

Error ellipse:

	Azim	Dip	Mag
Max:	21	17	5.0500
Intermediate:	162	67	4.3100
Min:	287	14	2.2100

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115344 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1698 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	14:27:13.05		1.08	41.4327	19.6582				29.1	2.1	14	15	188	0.18	2.94	m	
1762																	

Magnitude	Err	Nsta	Author	OrigID
M1	2.9	0.0	5	1762

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.18	0.0	Pg	14:27:19.726	0.0											22686
TIR	0.18	118.0	Sg	14:27:22.371	-0.6											22670
TIR	0.18	118.0	AM1	14:27:22.840								7.5	0.24	a	M1	3.0
TIR	0.18	118.0	AM1	14:27:23.340								7.5	0.28	a	M1	3.0
BPA1	0.71	181.0	Sg	14:27:38.037	0.5											22672
BPA1	0.71	181.0	Pg	14:27:26.926	-0.1											22671
BPA1	0.71	181.0	AM1	14:27:43.380								0.2	0.30	a	M1	1.8
BPA1	0.71	181.0	AM1	14:27:41.420								0.4	0.20	a	M1	2.2
VLO	0.97	188.0	Sg	14:27:43.301	-1.0											22674
VLO	0.97	188.0	Pg	14:27:32.702	1.8											22673
VLO	0.97	188.0	AM1	14:27:50.600								3.5	0.26	a	M1	3.3
KBN	1.18	133.0	Sg	14:27:50.745	-0.2											22676
KBN	1.18	133.0	Pg	14:27:35.406	0.7											22675
KBN	1.18	133.0	AM1	14:27:55.450								0.6	0.72	a	M1	2.7



KEK	1.72	176.0	Pn	14:27:45.523	1.5	---	m	22677
IGT	1.97	164.0	Sn	14:28:12.991	-0.6	---	m	22679
IGT	1.97	164.0	Pn	14:27:47.348	-0.3	---	m	22678
IGT	1.97	164.0	AMl	14:28:21.040		---	a	11860
NOCI	2.06	253.0	Pn	14:27:50.313	1.3	---	m	22680
THE	2.63	106.0	Pn	14:27:57.953	0.6	---	m	22681
LKD2	2.75	163.0	Sn	14:28:27.899	-5.8	---	m	22683
LKD2	2.75	163.0	Pn	14:27:57.252	-1.9	---	m	22682
SGRT	2.94	278.0	Sn	14:28:28.384	-10.0	---	m	22685
SGRT	2.94	278.0	Pn	14:28:00.190	-1.8	---	m	22684

DATA\_TYPE COMMENT GSE2.1  
Event 1698

Official Magnitude:  
Ml 2.90

Error ellipse:

	Azim	Dip	Mag
Max:	189	24	3.7000
Intermediate:	77	38	3.3700
Min:	303	42	2.7500

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115341 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1699 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	21:02:06.97		0.92	41.3712	19.3938				42.2	6.5	13	15	204	0.67	2.75	m	1763

Magnitude	Err	Nsta	Author	OrigID
Ml	3.0	0.0	4	1763

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.35	0.0	Pg	21:02:12.226	0.0					---				md		22702
TIR	0.36	93.0	Sg	21:02:15.289	-7.9					---				m		22687
TIR	0.36	93.0	AMl	21:02:17.480						---		4.6	0.40	a	Ml	11861
BPA1	0.68	162.0	Sg	21:02:30.271	-1.0					---				m		22689
BPA1	0.68	162.0	Pg	21:02:09.645	-10.0					---				mc		22688
BPA1	0.68	162.0	AMl	21:02:56.390						---		0.5	0.74	a	Ml	11862
VLO	0.90	175.0	Sg	21:02:36.498	0.2					---				m		22691
VLO	0.90	175.0	Pg	21:02:26.072	2.3					---				md		22690
VLO	0.90	175.0	AMl	21:02:46.480						---		2.4	0.44	a	Ml	11863

KBN	1.29	124.0	Sg	21:02:47.342	-0.1	---	m_	22693
KBN	1.29	124.0	Pg	21:02:30.820	0.7	---	mc_	22692
NOCI	1.85	253.0	Sn	21:03:03.126	0.3	---	m_	22695
NOCI	1.85	253.0	Pn	21:02:39.450	0.5	---	mc_	22694
NOCI	1.85	253.0	AM1	21:03:03.610		---	0.4 0.38 a_ M1 3.0	11864
IGT	1.97	158.0	Sn	21:03:07.471	1.6	---	m_	22697
IGT	1.97	158.0	Pn	21:02:40.305	-0.3	---	mc_	22696
SGRT	2.75	280.0	Sn	21:03:25.302	-0.7	---	m_	22699
SGRT	2.75	280.0	Pn	21:02:52.253	0.1	---	mc_	22698
LKD2	2.75	158.0	Sn	21:03:25.304	-0.7	---	m_	22701
LKD2	2.75	158.0	Pn	21:02:50.588	-1.6	---	mc_	22700

DATA\_TYPE COMMENT GSE2.1  
Event 1699

Official Magnitude:  
Ml 2.95

Error ellipse:

	Azim	Dip	Mag
Max:	88	78	6.5800
Intermediate:	210	5	4.3300
Min:	301	10	1.6700

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115341 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1700 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	22:07:27.65		0.54	41.5853	19.4642				9.6	1.4	14	15	213	0.39	2.94	m	1764

Magnitude	Err	Nsta	Author	OrigID
Ml	4.9	0.0	4	1764

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.38	0.0	Pg	22:07:36.799	0.0					---				md_		22718
TIR	0.38	128.0	Sg	22:07:40.379	-0.8					---				m_		22703
TIR	0.38	128.0	AM1	22:07:42.940						---		204.7	0.44	a_ M1	4.4	11865
BPA2	0.86	172.0	Sg	22:07:57.029	-0.1					---				m_		22705
BPA2	0.86	172.0	Pg	22:07:45.244	0.8					---				md_		22704
BPA2	0.86	172.0	AM1	22:08:19.360						---		84.5	1.44	a_ M1	4.6	11866
VLO	1.12	178.0	Sg	22:08:04.333	0.0					---				m_		22707
VLO	1.12	178.0	Pg	22:07:50.717	2.1					---				mc_		22706



NOCI	2.22	253.0	AM1	14:40:56.560	_____	0.5	0.44	a__	M1	3.3	11870
LKD2	2.79	166.0	Sn	14:41:04.080	0.1	_____		m__			22725
LKD2	2.79	166.0	Pn	14:40:27.839	-2.1	_____		mc_			22724

DATA\_TYPE COMMENT GSE2.1  
Event 1701

Official Magnitude:  
M1 3.13

Error ellipse:

	Azim	Dip	Mag
Max:	215	33	2.9100
Intermediate:	52	55	2.1800
Min:	310	8	1.0000

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115343 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1702 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	14:45:01.47		0.72	41.5990	19.5862				15.2	3.0	9	8	248	0.32	2.14	m	
1766																	

Magnitude	Err	Nsta	Author	OrigID
M1	2.9	0.0	4	1766

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.41	0.0	Pg	14:45:09.414	0.0					_____				md_		22738	
TIR	0.33	140.0	Sg	14:45:12.886	-0.5					_____				m__		22727	
TIR	0.33	140.0	AM1	14:45:13.590						_____		6.1	0.84	a__	M1	2.9	11872
TIR	0.33	140.0	AM1	14:45:13.450						_____		6.4	0.50	a__	M1	2.9	11871
BPA2	0.87	178.0	Sg	14:45:31.092	0.1					_____				m__		22729	
BPA2	0.87	178.0	Pg	14:45:21.745	3.4					_____				mc_		22728	
BPA2	0.87	178.0	AM1	14:45:33.180						_____		1.4	0.50	a__	M1	2.8	11873
VLO	1.13	184.0	Sg	14:45:37.831	-0.2					_____				m__		22731	
VLO	1.13	184.0	Pg	14:45:23.566	1.2					_____				mc_		22730	
VLO	1.13	184.0	AM1	14:45:42.650						_____		7.5	0.50	a__	M1	3.8	11874
KBN	1.33	136.0	Sg	14:45:45.880	1.3					_____				m__		22733	
KBN	1.33	136.0	Pg	14:45:25.993	-0.1					_____				mc_		22732	
NOCI	2.07	248.0	Sn	14:46:07.031	0.1					_____				m__		22735	
NOCI	2.07	248.0	Pn	14:45:36.047	-2.8					_____				mc_		22734	
NOCI	2.07	248.0	AM1	14:46:15.550						_____		0.9	0.42	a__	M1	3.5	11875
IGT	2.14	164.0	Sn	14:46:08.276	-0.5					_____				m__		22737	

IGT 2.14 164.0 Pn 14:45:38.809 -1.1 \_\_\_\_\_ mc\_ 22736

DATA\_TYPE COMMENT GSE2.1  
Event 1702

Official Magnitude:  
Ml 2.87

Error ellipse:

	Azim	Dip	Mag
Max:	160	49	3.9600
Intermediate:	30	28	3.1900
Min:	285	26	1.6800

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115343 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1703 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	14:48:03.94		0.34	41.4960	19.5968				14.6	1.2	9	7	235	0.25	2.04	m	

Magnitude	Err	Nsta	Author	OrigID
Ml	3.7	0.0	3	1767

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.29	0.0	Pg	14:48:09.477	0.0					_____				m		22749	
TIR	0.25	126.0	Sg	14:48:13.293	-0.1					_____				m		22739	
TIR	0.25	126.0	AMl	14:48:14.870						_____		21.1	0.30	a	Ml	3.3	11876
BPA2	0.77	178.0	P	14:48:18.591	-0.3					_____				m		22740	
VLO	1.03	185.0	Sg	14:48:37.706	0.4					_____				m		22742	
VLO	1.03	185.0	Pg	14:48:23.100	0.1					_____				m		22741	
VLO	1.03	185.0	AMl	14:48:44.010						_____		10.8	0.42	a	Ml	3.9	11877
KBN	1.25	133.0	Sg	14:48:45.050	0.4					_____				m		22744	
KBN	1.25	133.0	Pg	14:48:27.909	0.7					_____				m		22743	
NOCI	2.04	251.0	Sn	14:49:06.733	-2.0					_____				m		22746	
NOCI	2.04	251.0	Pn	14:48:41.132	0.2					_____				m		22745	
NOCI	2.04	251.0	AMl	14:49:18.170						_____		1.5	0.48	a	Ml	3.7	11878
IGT	2.04	163.0	Sn	14:49:08.249	-0.5					_____				m		22748	
IGT	2.04	163.0	Pn	14:48:40.633	-0.4					_____				m		22747	

DATA\_TYPE COMMENT GSE2.1  
Event 1703

Official Magnitude:  
Ml 3.66

Error ellipse:

	Azim	Dip	Mag
Max:	27	33	2.1000
Intermediate:	166	48	1.5500
Min:	282	22	0.9500

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115343 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1704 1.3 km from Shkallë, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	15:05:57.45		0.20	41.4552	19.5885				28.4	1.3	6	7	292	0.23	2.00	m	1768

Magnitude	Err	Nsta	Author	OrigID
Ml	2.9	0.0	3	1768

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.23	117.0	Sg	15:06:05.688	-2.8					---				m		22751	
TIR	0.23	117.0	Pg	15:06:01.407	-2.3					---				m		22750	
TIR	0.23	117.0	AMl	15:06:07.300						---		5.6	0.34	a	Ml	2.9	11879
VLO	0.99	0.0	Pg	15:06:15.509	0.0					---				m		22757	
VLO	0.99	185.0	S	15:06:29.250	0.0					---				m		22752	
VLO	0.99	185.0	AMl	15:06:33.730						---		5.4	0.28	a	Ml	3.5	11880
KBN	1.23	132.0	Sg	15:06:36.874	-0.1					---				m		22754	
KBN	1.23	132.0	Pg	15:06:20.322	0.3					---				m		22753	
IGT	2.00	163.0	Sn	15:06:59.141	0.1					---				m		22756	
IGT	2.00	163.0	Pn	15:06:32.405	-0.2					---				m		22755	
IGT	2.00	163.0	AMl	15:07:05.520						---		0.3	0.38	a	Ml	2.9	11881

DATA\_TYPE COMMENT GSE2.1  
Event 1704

Official Magnitude:  
Ml 2.93

Error ellipse:

	Azim	Dip	Mag
Max:	326	1	1.5300
Intermediate:	233	66	1.3600
Min:	56	24	0.8600

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115340 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1705 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	00:28:08.44		0.46	41.5462	19.6067				36.5	2.4	11	15	177	0.82	4.72	m	

Magnitude	Err	Nsta	Author	OrigID
Ml	4.3	0.0	3	1769

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.28	0.0	Pg	00:28:15.590	0.0									md_		22772
TIR	0.28	135.0	Sg	00:28:18.622	-3.3									m_		22758
TIR	0.28	135.0	AMl	00:28:20.460								108.9	0.30	a_	Ml	4.2
BPA2	0.81	179.0	Sg	00:28:36.185	-0.3									m_		22760
BPA2	0.81	179.0	Pg	00:28:24.763	0.3									mc_		22759
VLO	1.08	185.0	Sg	00:28:42.877	-0.1									m_		22762
VLO	1.08	185.0	Pg	00:28:28.998	0.8									mc_		22761
VLO	1.08	185.0	AMl	00:28:45.200								25.2	0.58	a_	Ml	4.3
KBN	1.28	135.0	Sg	00:28:49.082	0.1									m_		22764
KBN	1.28	135.0	Pg	00:28:31.877	0.3									mc_		22763
NOCI	2.06	250.0	Sn	00:29:10.804	0.4									m_		22766
NOCI	2.06	250.0	Pn	00:28:43.086	-0.8									md_		22765
NOCI	2.06	250.0	AMl	00:29:21.290								7.3	0.40	a_	Ml	4.4
IGT	2.09	164.0	Pn	00:28:43.415	-0.8									mc_		22767
LKD2	2.87	163.0	Pn	00:28:53.609	-2.1									md_		22768
SGRT	2.89	276.0	Pn	00:28:56.079	0.1									md_		22769
RDO	4.48	93.0	Pn	00:29:19.453	-0.0									mc_		22770
ITM	4.72	156.0	Pn	00:29:18.945	-3.9									m_		22771

DATA\_TYPE COMMENT GSE2.1  
 Event 1705

Official Magnitude:  
 Ml 4.29

Error ellipse:

	Azim	Dip	Mag
Max:	177	68	2.5300
Intermediate:	25	19	1.5300
Min:	292	10	1.0800

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115340 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1706 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	00:48:56.27		0.41	41.5487	19.5515				25.5	1.7	12	15	192	0.31	2.88	m	

Magnitude	Err	Nsta	Author	OrigID
M1	3.7	0.0	4	1770

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.31	0.0	Pg	00:49:04.325	0.0									md_		22787
TIR	0.31	130.0	Sg	00:49:08.145	-0.6									m_		22773
TIR	0.31	130.0	AM1	00:49:09.430								26.1	0.30	a_	M1	3.5
BPA2	0.82	176.0	Sg	00:49:23.941	-0.1									m_		22775
BPA2	0.82	176.0	Pg	00:49:12.985	0.9									mc_		22774
BPA2	0.82	176.0	AM1	00:49:34.800								3.3	0.50	a_	M1	3.2
VLO	1.08	183.0	Sg	00:49:30.814	0.0									m_		22777
VLO	1.08	183.0	Pg	00:49:17.624	1.6									mc_		22776
VLO	1.08	183.0	AM1	00:49:37.210								10.1	0.56	a_	M1	3.9
KBN	1.31	134.0	Sg	00:49:38.627	0.2									m_		22779
KBN	1.31	134.0	Pg	00:49:21.006	0.6									mc_		22778
NOCI	2.03	249.0	Sn	00:49:59.167	0.3									m_		22781
NOCI	2.03	249.0	Pn	00:49:31.179	-0.9									mc_		22780
NOCI	2.03	249.0	AM1	00:50:10.340								2.0	0.44	a_	M1	3.8
IGT	2.10	163.0	Sn	00:50:00.423	-0.4									m_		22783
IGT	2.10	163.0	Pn	00:49:33.223	0.1									mc_		22782
THE	2.74	108.0	Pn	00:49:42.548	0.0									m_		22784
SGRT	2.85	276.0	P	00:49:43.975	-0.2									m_		22785
LKD2	2.88	162.0	Pn	00:49:42.525	-2.1									m_		22786

DATA\_TYPE COMMENT GSE2.1  
 Event 1706

Official Magnitude:  
 M1 3.66

Error ellipse:

	Azim	Dip	Mag
Max:	136	61	1.9500
Intermediate:	28	9	1.4500
Min:	293	27	0.8200



BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115340 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1707 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	00:18:02.91		0.30	41.4335	19.6297				34.6	1.1	10	10	239	0.71	2.92	m	

Magnitude	Err	Nsta	Author	OrigID
M1	2.5	0.0	4	1771

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.20	0.0	Pg	00:18:07.307	0.0									md_		22800
TIR	0.20	115.0	Sg	00:18:10.198	-4.2									m_		22788
TIR	0.20	115.0	AM1	00:18:13.810								2.0	3.38	a_	M1	2.5
BPA1	0.71	178.0	Sg	00:18:27.703	-0.0									m_		22790
BPA1	0.71	178.0	Pg	00:18:16.892	-0.2									mc_		22789
BPA1	0.71	178.0	AM1	00:18:34.770								0.5	0.60	a_	M1	2.3
VLO	0.97	187.0	Sg	00:18:34.253	0.1									m_		22792
VLO	0.97	187.0	Pg	00:18:20.908	0.1									md_		22791
VLO	0.97	187.0	AM1	00:18:38.320								2.5	0.32	a_	M1	3.2
KBN	1.19	132.0	Sg	00:18:41.359	0.2									m_		22794
KBN	1.19	132.0	Pg	00:18:24.532	-0.2									mc_		22793
IGT	1.97	164.0	Sn	00:19:02.866	0.0									m_		22796
IGT	1.97	164.0	Pn	00:18:35.328	-1.8									mc_		22795
NOCI	2.04	253.0	Sn	00:19:04.348	-0.3									m_		22798
NOCI	2.04	253.0	Pn	00:18:38.640	0.5									mc_		22797
NOCI	2.04	253.0	AM1	00:19:17.240								0.1	3.90	a_	M1	2.5
SGRT	2.92	278.0	Pn	00:18:48.020	-3.1									m_		22799

DATA\_TYPE COMMENT GSE2.1  
 Event 1707

Official Magnitude:  
 M1 2.46

Error ellipse:

	Azim	Dip	Mag
Max:	197	38	1.8300
Intermediate:	38	49	1.0400
Min:	295	11	0.7600

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115340 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1708 4.4 km from Fushë-Draç, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	02:20:45.60		0.16	41.5072	19.4813				11.4	0.7	10	15	241	0.78	2.77	m	

Magnitude	Err	Nsta	Author	OrigID
M1	3.4	0.0	4	1772

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.34	0.0	Pg	02:20:52.063	0.0									md_		22813
TIR	0.33	118.0	Sg	02:20:55.630	-1.8									m_		22801
TIR	0.33	118.0	AM1	02:20:57.990								14.0	0.42	a_	M1	3.2
BPA2	0.78	172.0	Sg	02:21:12.471	0.0									m_		22803
BPA2	0.78	172.0	Pg	02:21:00.943	0.0									mc_		22802
BPA2	0.78	172.0	AM1	02:21:14.970								3.8	0.36	a_	M1	3.2
VLO	1.04	179.0	Sg	02:21:19.500	-0.1									m_		22805
VLO	1.04	179.0	Pg	02:21:05.191	0.2									mc_		22804
VLO	1.04	179.0	AM1	02:21:23.550								14.7	0.70	a_	M1	4.0
KBN	1.32	131.0	Sg	02:21:28.885	-0.0									m_		22807
KBN	1.32	131.0	Pg	02:21:10.260	-0.1									mc_		22806
NOCI	1.96	250.0	Sn	02:21:48.806	-0.2									m_		22809
NOCI	1.96	250.0	Pn	02:21:22.111	0.3									m_		22808
NOCI	1.96	250.0	AM1	02:21:57.110								1.6	0.52	a_	M1	3.7
IGT	2.08	161.0	Sn	02:21:52.222	0.2									m_		22811
IGT	2.08	161.0	Pn	02:21:23.305	-0.2									mc_		22810
THE	2.77	107.0	Pn	02:21:30.608	-3.2									m_		22812

DATA\_TYPE COMMENT GSE2.1  
 Event 1708

Official Magnitude:  
 M1 3.43

Error ellipse:

	Azim	Dip	Mag
Max:	188	49	0.9200
Intermediate:	38	36	0.7000
Min:	296	15	0.4200

BEGIN GSE2.1  
 MSG\_TYPE DATA

MSG\_ID 1572115340 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1709 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	23:22:16.52		0.49	41.4403	19.6842				38.1	6.8	8	7	240	0.98	2.08	m	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.7	0.0	3	1773

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.16	0.0	Pg	23:22:19.609	0.0					---				mc_		22823
TIR	0.16	124.0	Sg	23:22:21.916	-6.4					---				m_		22814
TIR	0.16	124.0	AMl	23:22:23.020						---		2.4	0.18	a_ Ml	2.6	11897
VLO	0.98	189.0	Sg	23:22:48.521	0.3					---				m_		22816
VLO	0.98	189.0	Pg	23:22:34.060	-0.6					---				mc_		22815
VLO	0.98	189.0	AMl	23:22:51.030						---		0.7	0.44	a_ Ml	2.7	11898
KBN	1.17	133.0	Sg	23:22:54.085	0.4					---				m_		22818
KBN	1.17	133.0	Pg	23:22:37.203	-0.6					---				mc_		22817
IGT	1.97	165.0	Sn	23:23:15.477	-0.4					---				m_		22820
IGT	1.97	165.0	Pn	23:22:51.209	0.8					---				m_		22819
NOCI	2.08	253.0	Sn	23:23:18.491	-0.3					---				m_		22822
NOCI	2.08	253.0	Pn	23:22:52.691	0.6					---				m_		22821
NOCI	2.08	253.0	AMl	23:23:28.440						---		0.2	0.44	a_ Ml	2.8	11899

DATA\_TYPE COMMENT GSE2.1  
Event 1709

Official Magnitude:  
Ml 2.68

Error ellipse:

	Azim	Dip	Mag
Max:	25	71	7.1300
Intermediate:	197	18	2.8600
Min:	288	2	1.3700

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115341 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1710 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	22:15:47.47		0.90	41.4548	19.5653				19.2	4.2	9	7	223	0.25	2.01	m	

OrigID  
1774

Magnitude	Err	Nsta	Author	OrigID
Ml	3.1	0.0	3	1774

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.28	0.0	Pg	22:15:53.073	0.0									md_		22835	
TIR	0.25	115.0	Sg	22:15:56.290	-1.2									m_		22824	
TIR	0.25	115.0	AMl	22:15:57.730								3.0	0.14	a_	Ml	2.5	11900
BPA2	0.72	176.0	Pg	22:16:06.689	5.1									mc_		22825	
BPA1	0.73	174.0	Sg	22:16:12.561	0.0									m_		22826	
VLO	0.99	184.0	Sg	22:16:19.256	0.1									m_		22828	
VLO	0.99	184.0	Pg	22:16:06.947	1.4									mc_		22827	
VLO	0.99	184.0	AMl	22:16:32.020								2.7	0.34	a_	Ml	3.2	11901
KBN	1.24	131.0	Sg	22:16:28.100	0.6									m_		22830	
KBN	1.24	131.0	Pg	22:16:11.516	1.2									mc_		22829	
NOCI	2.00	252.0	Sn	22:16:49.945	-0.6									m_		22832	
NOCI	2.00	252.0	Pn	22:16:19.113	-4.4									mc_		22831	
NOCI	2.00	252.0	AMl	22:16:56.740								0.4	0.34	a_	Ml	3.1	11902
IGT	2.01	162.0	Sn	22:16:49.224	-1.4									m_		22834	
IGT	2.01	162.0	Pn	22:16:23.351	-0.2									mc_		22833	

DATA\_TYPE COMMENT GSE2.1  
Event 1710

Official Magnitude:  
Ml 3.11

Error ellipse:

	Azim	Dip	Mag
Max:	38	46	5.6800
Intermediate:	162	27	3.8700
Min:	270	31	2.1000

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115340 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1711 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	23:40:08.09		0.16	41.4720	19.5542				15.7	0.9	7	7	226	0.26	2.03	m	

Magnitude Err Nsta Author OrigID  
Ml 2.6 0.0 3 1775

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.27	0.0	Pg	23:40:14.416	0.0									md_		22845
TIR	0.26	117.0	Sg	23:40:18.099	-0.0									m_		22836
TIR	0.26	117.0	AM1	23:40:18.820								2.3	0.24	a_	Ml	2.4
VLO	1.00	183.0	Sg	23:40:40.618	0.0									m_		22838
VLO	1.00	183.0	Pg	23:40:29.420	2.8									mc_		22837
VLO	1.00	183.0	AM1	23:40:46.770								0.6	0.12	a_	Ml	2.6
KBN	1.26	131.0	Sg	23:40:49.044	0.1									m_		22840
KBN	1.26	131.0	Pg	23:40:34.211	2.8									mc_		22839
NOCI	2.00	251.0	Sn	23:41:11.575	-0.1									m_		22842
NOCI	2.00	251.0	Pn	23:40:44.706	0.3									m_		22841
NOCI	2.00	251.0	AM1	23:41:20.650								0.1	0.36	a_	Ml	2.6
IGT	2.03	162.0	Sn	23:41:12.481	0.1									m_		22844
IGT	2.03	162.0	Pn	23:40:44.541	-0.3									mc_		22843

DATA\_TYPE COMMENT GSE2.1  
Event 1711

Official Magnitude:  
Ml 2.56

Error ellipse:

	Azim	Dip	Mag
Max:	35	44	1.3200
Intermediate:	174	37	0.7400
Min:	282	22	0.3600

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115340 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1712 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	04:46:49.51		0.30	41.3890	19.4337				44.0	2.3	9	15	207	0.67	2.78	m	
1776																	

Magnitude Err Nsta Author OrigID  
Ml 3.7 0.0 3 1776

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.33	0.0	Pg	04:46:54.675	0.0									md_		22857

TIR	0.33	97.0	Sg	04:46:56.656	-8.7	---											m_		22846	
TIR	0.33	97.0	AM1	04:46:59.590		---											a_	M1	3.7	11906
BPA2	0.67	167.0	Pg	04:47:03.434	0.0	---											mc_		22847	
VLO	0.92	177.0	Sg	04:47:19.377	0.1	---											m_		22849	
VLO	0.92	177.0	Pg	04:47:08.521	2.0	---											mc_		22848	
VLO	0.92	177.0	AM1	04:47:28.680		---											a_	M1	3.7	11907
KBN	1.28	126.0	Sg	04:47:30.191	0.6	---											m_		22851	
KBN	1.28	126.0	Pg	04:47:12.055	-0.4	---											md_		22850	
NOCI	1.89	253.0	Sn	04:47:46.105	-0.0	---											m_		22853	
NOCI	1.89	253.0	Pn	04:47:22.199	0.3	---											mc_		22852	
NOCI	1.89	253.0	AM1	04:47:57.740		---											a_	M1	3.5	11908
IGT	1.98	159.0	Sn	04:47:48.348	-0.1	---											m_		22855	
IGT	1.98	159.0	Pn	04:47:22.706	-0.5	---											mc_		22854	
SGRT	2.78	279.0	Pn	04:47:34.962	-0.0	---											md_		22856	

DATA\_TYPE COMMENT GSE2.1  
Event 1712

Official Magnitude:  
Ml 3.67

Error ellipse:

	Azim	Dip	Mag
Max:	79	76	2.3500
Intermediate:	203	7	1.4800
Min:	294	11	0.6500

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115340 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1713 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	05:19:08.13		0.24	41.3715	19.6875				29.0	1.0	7	7	236	0.92	2.07	m	1777

Magnitude	Err	Nsta	Author	OrigID
Ml	2.9	0.0	3	1777

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.16	0.0	Pg	05:19:11.475	0.0											22867	
TIR	0.14	100.0	Sg	05:19:14.122	-3.2											22858	
TIR	0.14	100.0	AM1	05:19:14.820								3.5	0.14	a_	M1	2.6	11909
VLO	0.91	190.0	Sg	05:19:37.828	0.2											22860	
VLO	0.91	190.0	Pg	05:19:24.683	-0.3											22859	

VLO	0.91	190.0	AM1	05:19:44.560	___	1.5	0.22	a__	M1	2.9	11910	
KBN	1.12	131.0	S	05:19:45.713	1.4	___		m__			22862	
KBN	1.12	131.0	P	05:19:28.892	0.1	___		m__			22861	
IGT	1.90	164.0	S	05:20:07.107	0.1	___		m__			22864	
IGT	1.90	164.0	Pn	05:19:41.543	-0.3	___		mc_			22863	
NOCI	2.07	255.0	Sn	05:20:11.088	-0.2	___		m__			22866	
NOCI	2.07	255.0	Pn	05:19:44.576	0.4	___		mc_			22865	
NOCI	2.07	255.0	AM1	05:20:18.300		___	0.3	0.28	a__	M1	2.9	11911

DATA\_TYPE COMMENT GSE2.1  
Event 1713

Official Magnitude:  
M1 2.90

Error ellipse:

	Azim	Dip	Mag
Max:	193	42	1.4000
Intermediate:	44	42	1.0300
Min:	298	17	0.6600

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115340 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1714 2.0 km from Qerret, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	06:25:35.76		0.67	41.3987	19.4695				32.1	3.3	11	15	186	0.69	2.80	m	
1778																	

Magnitude	Err	Nsta	Author	OrigID
M1	3.2	0.0	6	1778

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.31	0.0	Pg	06:25:43.106	0.0					___				md_		22882	
TIR	0.30	99.0	Sg	06:25:44.734	-4.3					___				m__		22868	
TIR	0.30	99.0	AM1	06:25:46.970						___		11.0	0.36	a__	M1	3.2	11913
TIR	0.30	99.0	AM1	06:25:47.040						___		8.0	0.42	a__	M1	3.1	11912
BPA1	0.69	168.0	Sg	06:25:58.625	-1.2					___				m__		22870	
BPA1	0.69	168.0	Pg	06:25:49.233	-0.3					___				m__		22869	
BPA1	0.69	168.0	AM1	06:26:28.090						___		0.5	1.12	a__	M1	2.3	11915
BPA1	0.69	168.0	AM1	06:26:19.990						___		1.8	0.78	a__	M1	2.8	11914
VLO	0.93	178.0	Sg	06:26:07.582	1.8					___				m__		22872	
VLO	0.93	178.0	Pg	06:25:56.345	3.4					___				m__		22871	
VLO	0.93	178.0	AM1	06:26:17.750						___		8.3	0.58	a__	M1	3.7	11916

KBN	1.26	127.0	Sn	06:26:16.673	0.5	---	m_	22874
KBN	1.26	127.0	Pn	06:25:58.933	0.1	---	m_	22873
KBN	1.26	127.0	AMl	06:26:21.570		---	1.3 0.66 a_ Ml 3.1	11917
NOCI	1.92	253.0	Sn	06:26:34.234	-0.4	---	m_	22876
NOCI	1.92	253.0	Pn	06:26:09.825	0.5	---	mc_	22875
NOCI	1.92	253.0	AMl	06:26:50.520		---	1.3 0.32 a_ Ml 3.6	11918
IGT	1.98	160.0	Sn	06:26:36.237	0.1	---	m_	22878
IGT	1.98	160.0	Pn	06:26:13.814	3.6	---	mc_	22877
THE	2.75	105.0	Pn	06:26:21.625	-0.0	---	m_	22879
THE	2.75	105.0	AMl	06:26:57.370		---	0.2 0.54 a_ Ml 3.2	11919
LKD2	2.76	160.0	Pn	06:26:21.074	-0.7	---	mc_	22880
SGRT	2.80	279.0	Pn	06:26:22.660	0.2	---	mc_	22881

DATA\_TYPE COMMENT GSE2.1  
Event 1714

Official Magnitude:  
Ml 3.15

Error ellipse:

	Azim	Dip	Mag
Max:	156	67	3.6000
Intermediate:	30	13	2.4400
Min:	296	18	1.3200

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115339 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1715 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	07:05:51.05		1.04	41.4692	19.4805				37.7	4.1	14	15	188	0.75	2.82	m	1779

Magnitude	Err	Nsta	Author	OrigID
Ml	3.6	0.0	7	1779

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.28	0.0	Pg	07:05:57.339	0.0									m_		22900
TIR	0.31	112.0	Sg	07:06:00.159	-5.4									m_		22883
TIR	0.31	112.0	AMl	07:06:01.140								37.6	0.38	a_ Ml	3.8	11921
TIR	0.31	112.0	AMl	07:06:02.840								19.4	0.36	a_ Ml	3.5	11920
BPA2	0.75	171.0	Pg	07:06:05.091	-0.9									m_		22884
BPA1	0.76	169.0	Sg	07:06:17.552	0.1									m_		22886
BPA1	0.76	169.0	Pg	07:06:06.291	0.2									m_		22885



BPA1	0.76	169.0	AM1	07:06:34.620	---	3.3	0.68	a	M1	3.2	11923
BPA1	0.76	169.0	AM1	07:06:36.350	---	1.3	0.64	a	M1	2.8	11922
VLO	1.00	179.0	Sg	07:06:23.848	0.6	---	---	m	---	---	22888
VLO	1.00	179.0	Pg	07:06:10.997	1.6	---	---	m	---	---	22887
VLO	1.00	179.0	AM1	07:06:31.510	---	16.5	0.30	a	M1	4.1	11924
KBN	1.30	130.0	Sn	07:06:33.274	1.3	---	---	m	---	---	22890
KBN	1.30	130.0	Pn	07:06:14.544	0.1	---	---	m	---	---	22889
NOCI	1.95	251.0	Sn	07:06:48.560	-1.3	---	---	m	---	---	22892
NOCI	1.95	251.0	Pn	07:06:24.361	-0.3	---	---	m	---	---	22891
NOCI	1.95	251.0	AM1	07:07:01.710	---	2.5	0.34	a	M1	3.9	11925
IGT	2.04	161.0	Sn	07:06:48.122	-4.2	---	---	m	---	---	22894
IGT	2.04	161.0	Pn	07:06:25.259	-0.8	---	---	m	---	---	22893
IGT	2.04	161.0	AM1	07:06:53.820	---	0.7	0.38	a	M1	3.3	11926
THE	2.76	106.0	Pn	07:06:35.947	-0.7	---	---	m	---	---	22895
THE	2.76	106.0	AM1	07:07:12.940	---	0.5	0.54	a	M1	3.6	11927
SGRT	2.80	278.0	Sn	07:07:13.885	2.0	---	---	m	---	---	22897
SGRT	2.80	278.0	Pn	07:06:37.433	0.2	---	---	m	---	---	22896
SGRT	2.80	278.0	AM1	07:07:43.360	---	0.7	0.54	a	M1	3.7	11928
LKD2	2.82	160.0	Sn	07:07:07.260	-5.2	---	---	m	---	---	22899
LKD2	2.82	160.0	Pn	07:06:35.318	-2.2	---	---	m	---	---	22898

DATA\_TYPE COMMENT GSE2.1  
Event 1715

Official Magnitude:  
M1 3.56

Error ellipse:

	Azim	Dip	Mag
Max:	187	53	5.0600
Intermediate:	37	32	3.6700
Min:	298	15	1.9400

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115339 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1716 6 km from Mali i Durrsit, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	07:09:53.03		0.55	41.3405	19.3527				43.5	3.5	15	15	202	0.64	2.74	m	
1780																	

Magnitude	Err	Nsta	Author	OrigID
M1	3.4	0.0	4	1780

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.39	0.0	Pg	07:09:58.573	0.0									m		22918
TIR	0.39	88.0	Sg	07:10:01.926	-8.1									m		22901
TIR	0.39	88.0	AMl	07:10:02.350								13.2	0.36	a	Ml	3.4
TIR	0.39	88.0	AMl	07:10:03.020								7.2	0.32	a	Ml	3.1
BPA2	0.64	161.0	Sn	07:10:16.457	-0.0									m		22903
BPA2	0.64	161.0	Pn	07:10:06.559	0.1									m		22902
BPA1	0.66	159.0	Sg	07:10:16.608	-0.3									m		22905
BPA1	0.66	159.0	Pg	07:10:06.462	-0.2									m		22904
BPA1	0.66	159.0	AMl	07:10:26.560								0.9	0.56	a	Ml	2.6
VLO	0.88	172.0	Sn	07:10:21.826	0.2									m		22907
VLO	0.88	172.0	Pn	07:10:09.595	0.2									m		22906
VLO	0.88	172.0	AMl	07:10:30.730								4.0	0.24	a	Ml	3.4
KBN	1.30	122.0	Sn	07:10:33.435	-0.3									m		22909
KBN	1.30	122.0	Pn	07:10:16.278	0.0									m		22908
KEK	1.66	168.0	Pn	07:10:25.632	3.6									m		22910
NOCI	1.82	254.0	Sn	07:10:47.586	-0.2									m		22912
NOCI	1.82	254.0	Pn	07:10:25.235	0.9									m		22911
NOCI	1.82	254.0	AMl	07:11:00.280								0.9	0.26	a	Ml	3.4
IGT	1.95	157.0	Sn	07:10:51.471	0.1									m		22914
IGT	1.95	157.0	Pn	07:10:27.287	0.9									m		22913
SGRT	2.73	280.0	Sn	07:11:10.396	-0.9									m		22916
SGRT	2.73	280.0	Pn	07:10:38.251	0.5									m		22915
LKD2	2.74	158.0	Pn	07:10:36.356	-1.5									m		22917

DATA\_TYPE COMMENT GSE2.1  
Event 1716

Official Magnitude:  
Ml 3.36

Error ellipse:

	Azim	Dip	Mag
Max:	152	72	3.6300
Intermediate:	33	8	2.5900
Min:	301	16	0.9700

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115339 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1717 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	08:51:03.01		1.72	41.5592	19.3842				6.1	19.5	7	15	232	0.42	2.15	m	
1781																	

Magnitude Err Nsta Author OrigID  
Ml 2.4 0.0 3 1781

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.00	0.0	Pg	08:51:13.519	0.0									m		22927
TIR	0.42	120.0	Sg	08:51:15.574	-2.1									m		22919
TIR	0.42	120.0	AM1	08:51:18.030								1.3	0.20	a	M1	2.3
TIR	0.42	120.0	AM1	08:51:17.100								1.7	0.38	a	M1	2.4
BPA2	0.85	167.0	Sg	08:51:31.626	-0.3									m		22921
BPA2	0.85	167.0	Pg	08:51:19.106	-0.4									m		22920
BPA2	0.85	167.0	AM1	08:51:36.740								2.0	0.24	a	M1	3.0
KEK	1.87	170.0	Pn	08:51:42.322	4.1									m		22922
NOCI	1.91	248.0	Sn	08:52:03.480	-2.5									m		22924
NOCI	1.91	248.0	Pn	08:51:40.462	1.5									m		22923
NOCI	1.91	248.0	AM1	08:52:19.600								0.1	0.42	a	M1	2.4
IGT	2.15	160.0	Sn	08:52:03.102	-9.2									m		22926
IGT	2.15	160.0	Pn	08:51:43.065	0.5									m		22925

DATA\_TYPE COMMENT GSE2.1  
Event 1717

Official Magnitude:  
Ml 2.37

Error ellipse:

	Azim	Dip	Mag
Max:	158	69	20.8500
Intermediate:	17	16	10.2200
Min:	283	13	3.8200

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115339 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1718 12 km from Currilat, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	09:08:56.06		0.98	41.3048	19.2880				39.5	4.8	10	15	199	0.63	2.72	m	
1782																	

Magnitude Err Nsta Author OrigID  
Ml 2.7 0.0 5 1782

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.39	0.0	Pg	09:09:01.630	0.0									m		22940

TIR	0.44	84.0	Sg	09:09:04.841	-9.0	---												m		22928
TIR	0.44	84.0	AM1	09:09:06.150		---				2.7	0.20	a	M1	2.7				a		11939
TIR	0.44	84.0	AM1	09:09:07.140		---				2.4	0.16	a	M1	2.7				a		11938
BPA2	0.63	156.0	Pg	09:09:08.132	-1.0	---												m		22929
VLO	0.85	169.0	Sg	09:09:29.058	5.1	---												m		22931
VLO	0.85	169.0	Pg	09:09:13.629	1.6	---												m		22930
VLO	0.85	169.0	AM1	09:09:31.330		---				1.4	0.06	a	M1	2.9				a		11940
KBN	1.32	120.0	Pn	09:09:19.535	-0.2	---												m		22932
NOCI	1.76	254.0	Sn	09:09:49.489	-0.3	---												m		22934
NOCI	1.76	254.0	Pn	09:09:27.730	1.0	---												m		22933
NOCI	1.76	254.0	AM1	09:10:07.450		---				0.3	0.32	a	M1	2.8				a		11941
IGT	1.94	155.0	Sn	09:09:54.064	-0.4	---												m		22936
IGT	1.94	155.0	Pn	09:09:30.395	1.0	---												m		22935
IGT	1.94	155.0	AM1	09:09:58.050		---				0.1	0.62	a	M1	2.5				a		11942
SGRT	2.69	281.0	Sn	09:10:12.525	-1.1	---												m		22938
SGRT	2.69	281.0	Pn	09:09:41.100	0.7	---												m		22937
SGRT	2.69	281.0	AM1	09:10:16.240		---				0.1	0.40	a	M1	2.6				a		11943
LKD2	2.72	156.0	Pn	09:09:39.487	-1.5	---												m		22939

DATA\_TYPE COMMENT GSE2.1  
Event 1718

Official Magnitude:  
M1 2.71

Error ellipse:

	Azim	Dip	Mag
Max:	33	30	8.1800
Intermediate:	189	57	5.7100
Min:	297	11	2.1700

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115339 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1719 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	09:14:54.90		1.71	41.2915	19.5965				18.9	14.4	9	15	177	0.21	2.63	m	1783

Magnitude	Err	Nsta	Author	OrigID
M1	2.5	0.0	3	1783

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.24	0.0	Pg	09:15:00.148	0.0					---						22950



NOCI	1.92	255.0	Sn	11:19:11.797	0.0	---										m		22963
NOCI	1.92	255.0	Pn	11:18:46.601	0.0	---										m		22962
NOCI	1.92	255.0	AM1	11:19:25.470		---					0.1	0.42	a	M1	2.4			11953
LKD2	2.68	160.0	Sn	11:19:31.440	0.0	---										m		22965
LKD2	2.68	160.0	Pn	11:18:57.902	0.1	---										m		22964

DATA\_TYPE COMMENT GSE2.1  
Event 1720

Official Magnitude:  
M1 2.25

Error ellipse:

		Azim	Dip	Mag
Max:		28	47	4.8100
Intermediate:		203	42	0.4200
Min:		295	3	0.1400

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115339 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1721 1.5 km from Perlat, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	11:46:15.21		1.15	41.4498	19.5525				48.3	6.3	14	15	188	0.72	2.86	m	1786

Magnitude	Err	Nsta	Author	OrigID
M1	2.9	0.0	4	1786

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.26	0.0	Pg	11:46:20.524	0.0					---						m	22982
TIR	0.26	113.0	Sn	11:46:22.087	-8.5					---						m	22967
TIR	0.26	113.0	AM1	11:46:23.780						---		5.4	0.26	a	M1	3.0	11955
TIR	0.26	113.0	AM1	11:46:23.820						---		8.4	0.16	a	M1	3.2	11954
BPA2	0.72	175.0	Pg	11:46:29.649	-0.4					---						m	22968
BPA1	0.73	173.0	Sg	11:46:41.635	0.3					---						m	22970
BPA1	0.73	173.0	Pg	11:46:28.892	-1.3					---						m	22969
BPA1	0.73	173.0	AM1	11:46:50.490						---		0.2	0.68	a	M1	1.9	11957
BPA1	0.73	173.0	AM1	11:46:44.720						---		0.4	0.54	a	M1	2.3	11956
VLO	0.98	183.0	Sg	11:46:47.368	0.5					---						m	22972
VLO	0.98	183.0	Pg	11:46:34.869	1.6					---						m	22971
VLO	0.98	183.0	AM1	11:46:51.290						---		2.1	0.22	a	M1	3.2	11958
KBN	1.25	131.0	Sn	11:46:55.638	1.6					---						m	22974
KBN	1.25	131.0	Pn	11:46:38.286	0.9					---						m	22973

NOCI	1.99	252.0	Sn	11:47:10.926	-3.2	---	m	22976
NOCI	1.99	252.0	Pn	11:46:50.265	1.4	---	m	22975
IGT	2.01	162.0	Sn	11:47:12.865	-1.6	---	m	22978
IGT	2.01	162.0	Pn	11:46:49.460	0.4	---	m	22977
IGT	2.01	162.0	AM1	11:47:16.120		---	0.2 0.50 a M1 2.8	11959
THE	2.71	106.0	Pn	11:46:58.614	-0.8	---	m	22979
LKD2	2.79	161.0	Pn	11:46:58.645	-1.9	---	m	22980
SGRT	2.86	278.0	Pn	11:47:00.927	-0.7	---	m	22981

DATA\_TYPE COMMENT GSE2.1  
Event 1721

Official Magnitude:  
M1 2.91

Error ellipse:

	Azim	Dip	Mag
Max:	214	52	7.8500
Intermediate:	35	37	3.9500
Min:	125	0	3.2000

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115339 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1722 1.5 km from Currilat, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	13:23:33.66		0.48	41.3280	19.4158				49.8	2.5	12	15	203	0.63	2.78	m	1787

Magnitude	Err	Nsta	Author	OrigID
M1	2.8	0.0	4	1787

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.32	0.0	Pn	13:23:38.583	0.0					---				m		22997
TIR	0.34	86.0	Sg	13:23:42.461	-8.3					---				m		22983
TIR	0.34	86.0	AM1	13:23:43.530						---		3.3	0.26	a M1	2.8	11960
BPA1	0.63	163.0	S	13:23:56.911	-0.5					---				m		22984
VLO	0.86	175.0	S	13:24:02.105	0.0					---				m		22986
VLO	0.86	175.0	P	13:23:50.874	1.0					---				m		22985
KBN	1.25	123.0	P	13:23:55.904	-0.0					---				m		22988
KBN	1.25	123.0	Sn	13:24:13.087	0.5					---				m		22987
NOCI	1.86	254.0	Sn	13:24:29.215	0.2					---				m		22990
NOCI	1.86	254.0	Pn	13:24:05.207	-0.1					---				m		22989
NOCI	1.86	254.0	AM1	13:24:46.010						---		0.3	0.50	a M1	2.9	11962

NOCI	1.86	254.0	AM1	13:24:44.350	---	0.3	0.36	a	M1	2.9	11961
IGT	1.92	158.0	Sn	13:24:30.647	-0.1	---	---	m	---	---	22992
IGT	1.92	158.0	Pn	13:24:06.188	-0.1	---	---	m	---	---	22991
IGT	1.92	158.0	AM1	13:24:40.050	---	0.1	0.52	a	M1	2.5	11963
LKD2	2.71	159.0	Sn	13:24:48.335	-2.6	---	---	m	---	---	22994
LKD2	2.71	159.0	Pn	13:24:16.679	-1.1	---	---	m	---	---	22993
LKD2	2.71	159.0	AM1	13:24:52.610	---	0.1	0.38	a	M1	2.7	11964
SGRT	2.78	280.0	Sn	13:24:52.142	-0.5	---	---	m	---	---	22996
SGRT	2.78	280.0	Pn	13:24:18.955	0.2	---	---	m	---	---	22995

DATA\_TYPE COMMENT GSE2.1  
Event 1722

Official Magnitude:  
M1 2.83

Error ellipse:

	Azim	Dip	Mag
Max:	198	64	2.7200
Intermediate:	31	25	2.2200
Min:	299	5	0.8900

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115338 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1723 1.2 km from Guzaj, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	13:52:25.31		0.37	41.3813	19.5682				25.0	12.2	6	8	204	0.22	2.72	m	1788

Magnitude	Err	Nsta	Author	OrigID
Md	2.6	0.0	4	1788
M1	2.3	0.0	3	1788

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.23	98.0	Sg	13:52:34.070	-0.5	---	---	---	---	---	---	---	---	m	---	22999	
TIR	0.23	98.0	Pg	13:52:30.976	0.4	---	---	---	---	---	---	---	---	m	---	22998	
TIR	0.23	98.0	AMd	13:53:05.520	---	---	---	---	---	---	---	0.0	34.54	a	Md	2.4	11965
TIR	0.23	98.0	AM1	13:52:36.800	---	---	---	---	---	---	---	1.7	0.22	a	M1	2.3	11969
IGT	1.94	162.0	Sn	13:53:25.549	-0.2	---	---	---	---	---	---	---	---	m	---	23001	
IGT	1.94	162.0	Pn	13:52:59.763	-0.1	---	---	---	---	---	---	---	---	m	---	23000	
IGT	1.94	162.0	AMd	13:54:09.423	---	---	---	---	---	---	---	0.0	69.66	a	Md	2.6	11966
NOCI	1.98	254.0	Sn	13:53:26.001	-0.9	---	---	---	---	---	---	---	---	m	---	23003	
NOCI	1.98	254.0	Pn	13:53:00.588	0.1	---	---	---	---	---	---	---	---	m	---	23002	



NOCI	1.98	254.0	AMd	13:54:21.860	_____	0.0	81.27	a__	Md	3.3	11967	
NOCI	1.98	254.0	AMl	13:53:35.780	_____	0.1	0.30	a__	Ml	2.4	11971	
LKD2	2.72	161.0	Pn	13:53:09.462	-1.9	_____		m__			23004	
LKD2	2.72	161.0	AMd	13:54:22.718		_____	0.0	73.26	a__	Md	2.7	11968
BPA1			AMl	13:52:34.310		_____	0.1	0.34	a__	Ml	1.4	11970

DATA\_TYPE COMMENT GSE2.1  
Event 1723

Official Magnitude:  
Ml 2.31

Error ellipse:

	Azim	Dip	Mag
Max:	24	56	14.7200
Intermediate:	166	27	1.8000
Min:	265	18	0.9500

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115338 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1724 12 km from Bishtkamzë, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	14:35:08.93		0.02	41.4780	19.3427				7.8	0.7	6	8	219	0.41	2.87	m	1789

Magnitude	Err	Nsta	Author	OrigID
Ml	2.2	0.0	3	1789
Md	2.9	0.0	3	1789

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.38	0.0	Pg	14:35:06.467	0.0									m__		23012	
TIR	0.41	108.0	Sg	14:35:23.399	0.0									m__		23005	
TIR	0.41	108.0	AMl	14:35:29.530								1.3	0.32	a__	Ml	2.2	11975
KBN	1.39	127.0	Sn	14:35:54.603	0.0									m__		23006	
KBN	1.39	127.0	AMl	14:36:03.020								0.1	0.62	a__	Ml	2.3	11976
NOCI	1.85	249.0	Sn	14:36:12.191	2.3									m__		23008	
NOCI	1.85	249.0	Pn	14:35:43.779	0.0									m__		23007	
NOCI	1.85	249.0	AMl	14:36:32.350								0.1	0.34	a__	Ml	2.2	11977
NOCI	1.85	249.0	AMd	14:37:13.200								0.0	89.42	a__	Md	3.4	11972
IGT	2.08	158.0	Sn	14:36:16.228	0.0									m__		23010	
IGT	2.08	158.0	Pn	14:35:47.416	0.0									m__		23009	
IGT	2.08	158.0	AMd	14:37:12.563								0.0	85.15	a__	Md	2.8	11973
LKD2	2.87	159.0	Pn	14:35:58.878	-0.0									m__		23011	

LKD2 2.87 159.0 AMd 14:37:22.850 \_\_\_\_\_ 0.0 83.97 a\_\_ Md 2.9 11974

DATA\_TYPE COMMENT GSE2.1  
Event 1724

Official Magnitude:  
Ml 2.24

Error ellipse:

	Azim	Dip	Mag
Max:	13	37	1.1500
Intermediate:	180	51	0.1100
Min:	278	6	0.0600

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115338 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1725 6 km from Bishtkamzë, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	14:35:13.72		0.17	41.4317	19.3825				2.0	2.8	5	8	211	0.37	2.03	m	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.2	0.0	4	1790
Md	3.1	0.0	2	1790

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.37	0.0	Pg	14:35:23.352	0.0					___				m__		23019
TIR	0.37	102.0	Sg	14:35:27.473	0.1					___				m__		23013
TIR	0.37	102.0	AMl	14:35:29.530						___		1.3	0.32	a__	Ml 2.2	11980
KBN	1.33	126.0	Sn	14:35:58.555	-0.2					___				m__		23014
KBN	1.33	126.0	AMl	14:36:03.020						___		0.1	0.62	a__	Ml 2.2	11981
NOCI	1.87	251.0	Sn	14:36:16.110	0.1					___				m__		23016
NOCI	1.87	251.0	Pn	14:35:49.133	-0.2					___				m__		23015
NOCI	1.87	251.0	AMl	14:36:32.040						___		0.1	0.42	a__	Ml 2.5	11982
NOCI	1.87	251.0	AMd	14:37:10.786						___		0.0	81.65	a__	Md 3.4	11978
IGT	2.03	158.0	Sn	14:36:19.827	-1.1					___				m__		23018
IGT	2.03	158.0	Pn	14:35:52.371	0.2					___				m__		23017
IGT	2.03	158.0	AMl	14:36:30.950						___		0.1	0.54	a__	Ml 2.3	11983
IGT	2.03	158.0	AMd	14:37:20.440						___		0.0	88.07	a__	Md 2.8	11979

DATA\_TYPE COMMENT GSE2.1  
Event 1725

Official Magnitude:  
Ml 2.24

Error ellipse:

	Azim	Dip	Mag
Max:	2	54	3.3700
Intermediate:	184	35	1.6700
Min:	93	1	0.3500

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115338 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1726 0.2 km from Çetë, Tirana, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	14:59:08.59		0.04	41.1925	19.5708				2.0	0.6	5	8	155	0.27	1.94	m	1791

Magnitude	Err	Nsta	Author	OrigID
Md	3.1	0.0	2	1791
Ml	2.4	0.0	2	1791

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.27	0.0	Pg	14:59:14.368	0.0					---				m		23026	
TIR	0.27	54.0	Sg	14:59:18.772	-0.0					---				m		23020	
TIR	0.27	54.0	AMl	14:59:20.090						---		2.6	0.28	a	Ml	2.4	11986
KBN	1.08	121.0	Sn	14:59:45.243	0.0					---				m		23021	
IGT	1.76	160.0	Sn	15:00:07.513	-0.1					---				m		23023	
IGT	1.76	160.0	Pn	14:59:42.264	-0.0					---				m		23022	
IGT	1.76	160.0	AMd	15:01:03.249						---		0.0	80.99	a	Md	2.7	11984
NOCI	1.94	259.0	Sn	15:00:13.243	0.0					---				m		23025	
NOCI	1.94	259.0	Pn	14:59:41.582	-3.9					---				m		23024	
NOCI	1.94	259.0	AMd	15:01:12.049						---		0.0	90.47	a	Md	3.4	11985
NOCI	1.94	259.0	AMl	15:00:25.950						---		0.1	0.30	a	Ml	2.5	11987

DATA\_TYPE COMMENT GSE2.1  
Event 1726

Official Magnitude:  
Ml 2.43

Error ellipse:

	Azim	Dip	Mag
Max:	24	66	0.6500
Intermediate:	150	14	0.1100

Min: 245 19 0.0800

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115338 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1727 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	14:59:07.19		0.06	41.3212	19.4395				2.7	0.9	5	8	190	0.32	1.91	m	1792

Magnitude	Err	Nsta	Author	OrigID
Ml	2.4	0.0	2	1792
Md	3.0	0.0	2	1792

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.32	0.0	Pg	14:59:15.326	0.0					---				m		23033	
TIR	0.32	85.0	Sg	14:59:19.041	-0.0					---				m		23027	
TIR	0.32	85.0	AMl	14:59:20.090						---		2.6	0.28	a	Ml	2.4	11990
KBN	1.24	123.0	Sn	14:59:48.913	0.1					---				m		23028	
NOCI	1.87	255.0	Sn	15:00:09.653	0.0					---				m		23030	
NOCI	1.87	255.0	Pn	14:59:39.622	-3.3					---				m		23029	
NOCI	1.87	255.0	AMl	15:00:25.950						---		0.1	0.30	a	Ml	2.4	11991
NOCI	1.87	255.0	AMd	15:01:05.276						---		0.0	85.65	a	Md	3.4	11988
IGT	1.91	158.0	Sn	15:00:10.784	-0.1					---				m		23032	
IGT	1.91	158.0	Pn	14:59:43.533	-0.0					---				m		23031	
IGT	1.91	158.0	AMd	15:00:56.521						---		0.0	72.99	a	Md	2.6	11989

DATA\_TYPE COMMENT GSE2.1  
Event 1727

Official Magnitude:  
Ml 2.44

Error ellipse:

	Azim	Dip	Mag
Max:	55	86	0.8700
Intermediate:	178	2	0.2600
Min:	268	3	0.1200

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115338 athena

DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1728 1.4 km from Fllakë, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	15:38:50.03		0.01	41.3622	19.5208				21.4	0.3	4	7	199	0.26	1.94	m	

OrigID 1793

Magnitude	Err	Nsta	Author	OrigID
Ml	2.1	0.0	2	1793
Md	2.5	0.0	2	1793

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.26	93.0	Sg	15:38:59.525	-0.8					---				m		23035	
TIR	0.26	93.0	Pg	15:38:55.897	0.0					---				m		23034	
TIR	0.26	93.0	AMl	15:39:02.110						---		0.6	0.28	a	Ml	1.8	11994
TIR	0.26	93.0	AMd	15:39:30.113						---		0.0	34.22	a	Md	2.3	11992
KBN	1.21	0.0	Sn	15:39:28.319	0.0					---				m		23039	
IGT	1.93	161.0	Sn	15:39:50.843	0.0					---				m		23037	
IGT	1.93	161.0	Pn	15:39:24.777	0.0					---				m		23036	
IGT	1.93	161.0	AMd	15:40:39.073						---		0.0	74.30	a	Md	2.7	11993
NOCI	1.94	254.0	Sn	15:39:51.188	0.0					---				m		23038	
NOCI	1.94	254.0	AMl	15:39:54.690						---		0.1	0.62	a	Ml	2.4	11995

DATA\_TYPE COMMENT GSE2.1

Event 1728

Official Magnitude:

Ml 2.10

Error ellipse:

	Azim	Dip	Mag
Max:	29	55	0.4200
Intermediate:	169	27	0.0400
Min:	269	19	0.0300

BEGIN GSE2.1

MSG\_TYPE DATA

MSG\_ID 1572115338 athena

DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1729 0.6 km from Lis-Patros, Tirana, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	17:28:00.81		0.06	41.2003	19.6462				13.3	0.5	6	5	149	0.22	2.00	m	

OrigID 1794

Magnitude	Err	Nsta	Author	OrigID
Ml	2.7	0.0	3	1794
Md	2.8	0.0	3	1794

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.22	48.0	Sg	17:28:08.635	-0.6					---					m	23041
TIR	0.22	48.0	Pg	17:28:05.597	-0.0					---					m	23040
TIR	0.22	48.0	AMl	17:28:09.530						---		5.3	0.12	a	Ml	2.7
TIR	0.22	48.0	AMd	17:28:39.098						---		0.0	33.50	a	Md	2.3
KBN	1.04	123.0	Sn	17:28:35.090	0.0					---					m	23042
IGT	1.75	162.0	Sg	17:28:57.825	-0.0					---					m	23044
IGT	1.75	162.0	Pg	17:28:33.951	0.5					---					m	23043
IGT	1.75	162.0	AMd	17:29:56.565						---		0.0	82.61	a	Md	2.8
NOCI	2.00	259.0	Sn	17:29:04.704	-0.1					---					m	23046
NOCI	2.00	259.0	Pn	17:28:37.446	0.1					---					m	23045
NOCI	2.00	259.0	AMl	17:29:14.570						---		0.3	0.34	a	Ml	3.0
NOCI	2.00	259.0	AMd	17:30:00.591						---		0.0	83.15	a	Md	3.4
VLO			AMl	17:28:39.100						---		1.3	0.28	a	Ml	2.7

DATA\_TYPE COMMENT GSE2.1  
Event 1729

Official Magnitude:  
Ml 2.68

Error ellipse:

	Azim	Dip	Mag
Max:	35	56	0.5500
Intermediate:	185	29	0.1400
Min:	283	14	0.1000

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115338 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1730 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	17:44:50.72		0.50	41.6163	19.3372				40.4	28.9	6	14	273	1.91	2.22	m	
																	1795

Magnitude	Err	Nsta	Author	OrigID
Ml	2.1	0.0	3	1795
Md	3.0	0.0	2	1795

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.48	0.0	Pg	17:44:57.129	0.0					---						23054
TIR	0.48	123.0	Sg	17:45:00.385	-9.3					---						23047
TIR	0.48	123.0	AMl	17:45:02.020						---		0.5	0.22	a_	Ml	2.0
NOCI	1.90	246.0	Sn	17:45:47.661	-0.4					---						23049
NOCI	1.90	246.0	Pn	17:45:23.927	0.5					---						23048
NOCI	1.90	246.0	AMl	17:46:03.730						---		0.1	0.54	a_	Ml	2.3
NOCI	1.90	246.0	AMl	17:45:57.380						---		0.0	0.16	a_	Ml	2.0
NOCI	1.90	246.0	AMd	17:46:45.158						---		0.0	81.23	a_	Md	3.3
KEK	1.93	169.0	Sn	17:45:49.056	0.2					---						23051
KEK	1.93	169.0	Pn	17:45:24.023	0.1					---						23050
IGT	2.22	159.0	Sn	17:45:55.424	-0.7					---						23053
IGT	2.22	159.0	Pn	17:45:27.214	-0.9					---						23052
IGT	2.22	159.0	AMl	17:46:03.010						---		0.0	0.46	a_	Ml	2.2
IGT	2.22	159.0	AMd	17:46:42.915						---		0.0	75.70	a_	Md	2.7

DATA\_TYPE COMMENT GSE2.1  
Event 1730

Official Magnitude:  
Ml 2.12

Error ellipse:

	Azim	Dip	Mag
Max:	25	63	32.2300
Intermediate:	207	26	4.7700
Min:	117	1	1.7100

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115338 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1731 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	18:42:59.79		1.22	41.3983	19.4653				40.4	12.0	15	15	208	0.67	2.80	m	
1796																	

Magnitude	Err	Nsta	Author	OrigID
Ml	3.0	0.0	5	1796

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.30	0.0	Pg	18:43:05.217	0.0					---						23072
TIR	0.30	99.0	Sg	18:43:07.428	-7.2					---						23055
TIR	0.30	99.0	AMl	18:43:10.500						---		4.7	0.26	a_	Ml	2.9
TIR	0.30	99.0	AMl	18:43:10.640						---		4.3	0.26	a_	Ml	2.9

BPA2	0.68	170.0	Sg	18:43:24.196	0.1	---										m		23057
BPA2	0.68	170.0	Pg	18:43:14.557	0.9	---										m		23056
BPA1	0.69	167.0	Sg	18:43:23.296	-1.1	---										m		23059
BPA1	0.69	167.0	Pg	18:43:12.555	-1.3	---										m		23058
VLO	0.93	178.0	Sg	18:43:30.867	1.1	---										m		23061
VLO	0.93	178.0	Pg	18:43:19.263	2.3	---										m		23060
VLO	0.93	178.0	AM1	18:43:34.970		---				4.8	0.38	a	M1		3.5		12010	
KBN	1.26	127.0	Sn	18:43:40.169	0.7	---										m		23063
KBN	1.26	127.0	Pn	18:43:22.911	0.5	---										m		23062
KBN	1.26	127.0	AM1	18:43:45.770		---				0.5	0.64	a	M1		2.8		12011	
KEK	1.70	171.0	Pn	18:43:34.838	5.3	---										m		23064
NOCI	1.91	253.0	Sn	18:43:54.547	-2.8	---										m		23066
NOCI	1.91	253.0	Pn	18:43:33.115	0.4	---										m		23065
NOCI	1.91	253.0	AM1	18:44:03.900		---				0.7	0.28	a	M1		3.3		12012	
IGT	1.98	160.0	Sn	18:43:56.419	-2.6	---										m		23068
IGT	1.98	160.0	Pn	18:43:33.690	0.1	---										m		23067
LKD2	2.76	160.0	Pn	18:43:43.139	-2.0	---										m		23069
SGRT	2.80	279.0	Sn	18:44:19.897	-0.3	---										m		23071
SGRT	2.80	279.0	Pn	18:43:45.938	0.2	---										m		23070
SGRT	2.80	279.0	AM1	18:44:49.970		---				0.2	0.46	a	M1		3.1		12013	

DATA\_TYPE COMMENT GSE2.1  
Event 1731

Official Magnitude:  
M1 3.02

Error ellipse:

	Azim	Dip	Mag
Max:	140	78	12.2800
Intermediate:	35	2	5.5000
Min:	305	12	2.3300

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115343 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1732 1.2 km from Shetaj, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	14:29:48.90		0.82	41.5557	19.4770				12.9	5.0	13	15	209	0.36	2.91	m	
1797																	

Magnitude	Err	Nsta	Author	OrigID
M1	3.1	0.0	5	1797



Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.38	0.0	Pg	14:29:57.979	0.0									m		23088
TIR	0.36	125.0	Sg	14:30:00.856	-0.9									m		23073
TIR	0.36	125.0	AM1	14:30:01.600								4.6	0.50	a	M1	2.7
TIR	0.36	125.0	AM1	14:30:03.720								5.4	0.40	a	M1	2.8
BPA2	0.83	172.0	Sg	14:30:17.255	-0.1									m		23075
BPA2	0.83	172.0	Pg	14:30:06.585	1.5									m		23074
BPA2	0.83	172.0	AM1	14:30:19.140								1.2	0.28	a	M1	2.7
BPA1	0.84	170.0	Pg	14:30:05.781	0.4									m		23077
BPA1	0.84	170.0	Sg	14:30:17.855	0.2									m		23076
VLO	1.09	179.0	Sg	14:30:23.170	-1.1									m		23079
VLO	1.09	179.0	Pg	14:30:09.841	0.7									m		23078
VLO	1.09	179.0	AM1	14:30:31.660								3.9	0.26	a	M1	3.5
KBN	1.36	132.0	Sn	14:30:34.221	1.1									m		23081
KBN	1.36	132.0	Pn	14:30:14.260	0.1									m		23080
NOCI	1.98	248.0	Sn	14:30:53.152	0.7									m		23083
NOCI	1.98	248.0	Pn	14:30:23.881	-1.3									m		23082
NOCI	1.98	248.0	AM1	14:30:57.440								0.5	0.30	a	M1	3.1
NOCI	1.98	248.0	AM1	14:30:59.120								0.5	0.30	a	M1	3.1
IGT	2.12	161.0	Sn	14:30:50.783	-5.4									m		23085
IGT	2.12	161.0	Pn	14:30:26.425	-0.9									m		23084
SGRT	2.79	276.0	Pn	14:30:37.254	0.1									m		23086
SGRT	2.79	276.0	AM1	14:31:16.220								0.2	0.40	a	M1	3.1
SGRT	2.79	276.0	AM1	14:31:14.840								0.1	0.16	a	M1	3.0
LKD2	2.91	161.0	Pn	14:30:36.071	-2.8									m		23087

DATA\_TYPE COMMENT GSE2.1  
Event 1732

Official Magnitude:  
M1 3.05

Error ellipse:

	Azim	Dip	Mag
Max:	79	68	5.4300
Intermediate:	201	12	2.8300
Min:	295	18	1.5100

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115337 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1733 1.8 km from Kuratën, Durrës, Albania

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

2019/09/22 20:08:41.25 0.53 41.4840 19.5892 38.1 1.5 14 15 190 0.76 2.88 m  
1801

Magnitude Err Nsta Author OrigID  
M1 4.3 0.0 6 1801

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.25	0.0	Pg	20:08:47.632	0.0									m		23156
TIR	0.25	123.0	Sn	20:08:49.983	-4.5									m		23140
TIR	0.25	123.0	AM1	20:08:51.110								319.1	0.42	a	M1	4.7
BPA2	0.75	178.0	Sn	20:09:07.367	-0.2									m		23142
BPA2	0.75	178.0	Pn	20:08:56.785	0.5									m		23141
BPA2	0.75	178.0	AM1	20:09:13.630								31.7	0.36	a	M1	4.1
BPA1	0.76	176.0	Sn	20:09:07.273	-0.6									m		23144
BPA1	0.76	176.0	Pn	20:08:57.044	0.6									m		23143
BPA1	0.76	176.0	AM1	20:09:31.040								6.0	0.62	a	M1	3.4
BPA1	0.76	176.0	AM1	20:09:23.840								14.4	0.56	a	M1	3.8
VLO	1.02	185.0	Sg	20:09:14.005	0.1									m		23146
VLO	1.02	185.0	Pg	20:09:02.628	2.7									m		23145
VLO	1.02	185.0	AM1	20:09:25.720								63.3	0.52	a	M1	4.6
KBN	1.25	133.0	Sn	20:09:21.429	0.7									m		23148
KBN	1.25	133.0	Pn	20:09:03.899	0.1									m		23147
NOCI	2.03	251.0	Sn	20:09:42.504	0.4									m		23150
NOCI	2.03	251.0	Pn	20:09:15.981	-0.1									m		23149
NOCI	2.03	251.0	AM1	20:09:58.190								7.8	0.42	a	M1	4.4
NOCI	2.03	251.0	AM1	20:09:56.480								9.0	0.58	a	M1	4.5
IGT	2.03	163.0	Sn	20:09:41.714	-0.4									m		23152
IGT	2.03	163.0	Pn	20:09:16.336	0.3									m		23151
THE	2.69	107.0	Pn	20:09:24.319	-1.4									m		23153
THE	2.69	107.0	AM1	20:09:58.650								1.3	0.40	a	M1	3.9
LKD2	2.81	162.0	Pn	20:09:26.286	-1.3									m		23154
SGRT	2.88	277.0	Pn	20:09:28.269	-0.3									m		23155

DATA\_TYPE COMMENT GSE2.1  
Event 1733

Official Magnitude:  
M1 4.27

Error ellipse:

	Azim	Dip	Mag
Max:	203	37	2.4100
Intermediate:	54	47	1.7400
Min:	306	16	1.2100

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115337 athena

DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1734 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	20:33:28.43		0.76	41.4800	19.4898				25.0	22.7	5	15	197	0.31	2.81	m	

Magnitude	Err	Nsta	Author	OrigID
M1	1.8	0.0	2	1802

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.31	0.0	Pg	20:33:36.525	0.0					---				m		23163	
TIR	0.31	114.0	Sg	20:33:39.435	-0.9					---				m		23157	
TIR	0.31	114.0	AM1	20:33:40.680						---		0.5	0.36	a	M1	1.8	12052
TIR	0.31	114.0	AM1	20:33:41.230						---		0.4	0.22	a	M1	1.7	12051
NOCI	1.96	251.0	Sn	20:34:23.488	-5.9					---				m		23159	
NOCI	1.96	251.0	Pn	20:34:02.987	-0.3					---				m		23158	
IGT	2.05	161.0	Sn	20:34:31.018	-0.7					---				m		23161	
IGT	2.05	161.0	Pn	20:34:05.853	1.3					---				m		23160	
IGT	2.05	161.0	AM1	20:34:42.560						---		0.0	0.32	a	M1	1.8	12053
SGRT	2.81	277.0	Pn	20:34:15.567	-0.2					---				m		23162	

DATA\_TYPE COMMENT GSE2.1

Event 1734

Official Magnitude:

M1 1.81

Error ellipse:

	Azim	Dip	Mag
Max:	31	50	29.2200
Intermediate:	196	38	4.5900
Min:	292	8	2.1600

BEGIN GSE2.1

MSG\_TYPE DATA

MSG\_ID 1572115337 athena

DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1735 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	21:16:03.93		1.20	41.5517	19.4677				35.6	4.7	9	15	235	0.36	2.91	m	

Magnitude Err Nsta Author OrigID  
 M1 2.2 0.0 4 1803

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.36	0.0	Pg	21:16:13.583	0.0									m		23174
TIR	0.36	124.0	S	21:16:16.253	-3.0									m		23164
TIR	0.36	124.0	AM1	21:16:18.890								1.3	0.20	a	M1	2.3
TIR	0.36	124.0	AM1	21:16:18.890								0.8	0.34	a	M1	2.1
VLO	1.08	178.0	Sg	21:16:39.384	0.8									m		23166
VLO	1.08	178.0	Pg	21:16:23.976	0.2									m		23165
KBN	1.36	132.0	Sn	21:16:47.693	0.9									m		23168
KBN	1.36	132.0	Pn	21:16:27.451	-1.0									m		23167
KBN	1.36	132.0	AM1	21:16:54.210								0.1	1.02	a	M1	2.2
NOCI	1.97	249.0	Sn	21:17:03.197	-0.4									m		23170
NOCI	1.97	249.0	Pn	21:16:44.787	6.8									m		23169
NOCI	1.97	249.0	AM1	21:17:23.750								0.1	0.50	a	M1	2.6
NOCI	1.97	249.0	AM1	21:17:21.090								0.1	0.38	a	M1	2.5
IGT	2.12	161.0	Sn	21:17:05.491	-2.0									m		23172
IGT	2.12	161.0	Pn	21:16:42.260	2.0									m		23171
IGT	2.12	161.0	AM1	21:17:15.590								0.0	0.44	a	M1	2.2
LKD2	2.91	161.0	Pn	21:16:51.646	-0.2									m		23173

DATA\_TYPE COMMENT GSE2.1  
 Event 1735

Official Magnitude:  
 M1 2.24

Error ellipse:

	Azim	Dip	Mag
Max:	186	26	7.7400
Intermediate:	35	60	5.4400
Min:	282	13	3.4500

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115337 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1736 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	21:56:37.98		1.37	41.4767	19.5533				25.1	7.7	13	15	201	0.27	2.86	m	
1804																	

Magnitude Err Nsta Author OrigID  
 M1 2.7 0.0 6 1804

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.00	0.0	Pg	21:56:44.218	0.0									m		23189
TIR	0.27	118.0	Sg	21:56:46.843	-2.4									m		23175
TIR	0.27	118.0	AM1	21:56:49.280								3.2	0.16	a	M1	12061
TIR	0.27	118.0	AM1	21:56:49.590								2.1	0.30	a	M1	12060
BPA1	0.76	174.0	Sg	21:57:02.433	-1.3									m		23177
BPA1	0.76	174.0	Pg	21:56:52.335	-0.4									m		23176
BPA1	0.76	174.0	AM1	21:57:11.540								0.3	0.36	a	M1	12062
VLO	1.01	183.0	Sg	21:57:12.035	1.7									m		23179
VLO	1.01	183.0	Pg	21:56:57.165	0.7									m		23178
VLO	1.01	183.0	AM1	21:57:18.700								1.2	0.32	a	M1	12063
KBN	1.26	131.0	Sn	21:57:17.222	-1.4									m		23181
KBN	1.26	131.0	Pn	21:57:01.470	0.3									m		23180
KBN	1.26	131.0	AM1	21:57:24.800								0.2	0.44	a	M1	12064
NOCI	2.00	251.0	Sn	21:57:39.589	-0.5									m		23183
NOCI	2.00	251.0	Pn	21:57:11.785	-1.7									m		23182
NOCI	2.00	251.0	AM1	21:57:49.700								0.2	0.24	a	M1	12066
NOCI	2.00	251.0	AM1	21:57:46.150								0.2	0.24	a	M1	12065
IGT	2.03	162.0	Sn	21:57:36.474	-4.3									m		23185
IGT	2.03	162.0	Pn	21:57:14.426	0.6									m		23184
LKD2	2.81	162.0	Pn	21:57:22.207	-3.2									m		23186
SGRT	2.86	277.0	Sn	21:57:54.056	-8.0									m		23188
SGRT	2.86	277.0	Pn	21:57:26.814	0.8									m		23187
SGRT	2.86	277.0	AM1	21:57:52.810								0.2	1.50	a	M1	12067

DATA\_TYPE COMMENT GSE2.1  
Event 1736

Official Magnitude:  
M1 2.72

Error ellipse:

	Azim	Dip	Mag
Max:	119	62	8.6800
Intermediate:	24	2	4.9900
Min:	293	28	2.4800

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115337 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1737 0.6 km from Lalëz, Durrës, Albania

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

2019/09/22 22:03:00.61 0.40 41.5307 19.5607 41.9 7.2 10 15 217 0.80 2.86 m  
1805

Magnitude Err Nsta Author OrigID  
M1 4.0 0.0 7 1805

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.30	0.0	Pg	22:03:06.434	0.0									m		23202
TIR	0.29	128.0	Sg	22:03:08.936	-6.5									m		23190
TIR	0.29	128.0	AM1	22:03:10.090								55.1	0.34	a	M1	4.0
BPA2	0.80	176.0	Sn	22:03:28.601	0.3									m		23192
BPA2	0.80	176.0	Pg	22:03:16.773	0.3									m		23191
BPA2	0.80	176.0	AM1	22:03:32.530								6.2	0.46	a	M1	3.5
BPA1	0.81	174.0	Sg	22:03:28.351	-0.2									m		23194
BPA1	0.81	174.0	Pg	22:03:16.067	-0.5									m		23193
BPA1	0.81	174.0	AM1	22:03:31.430								5.2	0.54	a	M1	3.4
VLO	1.06	183.0	Sg	22:03:34.382	0.1									m		23196
VLO	1.06	183.0	Pg	22:03:21.611	1.8									m		23195
VLO	1.06	183.0	AM1	22:03:41.240								14.1	0.84	a	M1	4.0
KBN	1.30	133.0	Sn	22:03:40.946	-0.2									m		23198
KBN	1.30	133.0	Pn	22:03:23.633	-0.2									m		23197
KBN	1.30	133.0	AM1	22:03:43.980								3.3	0.72	a	M1	3.6
NOCI	2.03	250.0	Pn	22:03:34.837	-0.2									m		23199
NOCI	2.03	250.0	AM1	22:04:16.830								5.4	0.52	a	M1	4.2
IGT	2.08	163.0	Pn	22:03:34.845	-1.1									m		23200
SGRT	2.86	276.0	Pn	22:03:46.937	-0.4									m		23201
SGRT	2.86	276.0	AM1	22:04:52.150								1.6	0.62	a	M1	4.1

DATA\_TYPE COMMENT GSE2.1  
Event 1737

Official Magnitude:  
M1 3.98

Error ellipse:

	Azim	Dip	Mag
Max:	159	76	7.4400
Intermediate:	43	6	1.8100
Min:	312	12	1.0600

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115337 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1738 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	22:06:20.25		0.83	41.4735	19.4800				51.4	61.3	9	15	239	1.01	2.83	m	

Magnitude	Err	Nsta	Author	OrigID
M1	2.9	0.0	3	1806

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.00	0.0	Pg	22:06:25.455	0.0									m		23213	
TIR	0.32	113.0	Sg	22:06:27.278	-9.9									m		23203	
TIR	0.32	113.0	AM1	22:06:28.710								10.7	0.26	a	M1	3.4	12076
TIR	0.32	113.0	AM1	22:06:28.800								9.1	0.20	a	M1	3.3	12075
VLO	1.00	179.0	Sg	22:06:52.918	0.6									m		23205	
VLO	1.00	179.0	Pg	22:06:38.889	0.3									m		23204	
VLO	1.00	179.0	AM1	22:07:02.720								1.1	0.36	a	M1	2.9	12077
KBN	1.30	130.0	Sn	22:07:00.630	0.2									m		23207	
KBN	1.30	130.0	Pn	22:06:43.492	0.3									m		23206	
NOCI	1.95	251.0	Sn	22:07:17.286	-0.6									m		23209	
NOCI	1.95	251.0	Pn	22:06:54.096	0.9									m		23208	
NOCI	1.95	251.0	AM1	22:07:35.760								0.2	0.40	a	M1	2.8	12079
NOCI	1.95	251.0	AM1	22:07:31.230								0.2	0.32	a	M1	2.8	12078
IGT	2.05	161.0	Sn	22:07:16.968	-3.4									m		23211	
IGT	2.05	161.0	Pn	22:06:54.621	0.0									m		23210	
LKD2	2.83	161.0	Pn	22:07:04.047	-2.1									m		23212	

DATA\_TYPE COMMENT GSE2.1  
Event 1738

Official Magnitude:  
M1 2.91

Error ellipse:

	Azim	Dip	Mag
Max:	179	87	61.3300
Intermediate:	13	2	5.5500
Min:	283	1	2.1900

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115337 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1739 2.8 km from Jubë, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	22:06:20.25		0.83	41.4735	19.4800				51.4	61.3	9	15	239	1.01	2.83	m	

2019/09/22 23:41:56.06 0.32 41.4218 19.4807 37.5 2.3 10 15 210 0.70 2.81 m  
1807

Magnitude Err Nsta Author OrigID  
M1 3.4 0.0 5 1807

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.31	0.0	Pg	23:42:01.934	0.0									m		23226
TIR	0.30	104.0	Sg	23:42:04.505	-5.7									m		23214
TIR	0.30	104.0	AM1	23:42:05.050								14.0	0.34	a	M1	3.4
BPA2	0.70	171.0	Sg	23:42:20.518	-0.2									m		23216
BPA2	0.70	171.0	Pn	23:42:10.979	0.8									m		23215
BPA1	0.71	169.0	Sg	23:42:20.729	-0.4									m		23218
BPA1	0.71	169.0	Pg	23:42:10.320	-0.0									m		23217
VLO	0.95	179.0	Sg	23:42:27.227	0.3									m		23220
VLO	0.95	179.0	Pg	23:42:15.641	1.9									m		23219
VLO	0.95	179.0	AM1	23:42:35.260								4.4	0.50	a	M1	3.4
VLO	0.95	179.0	AM1	23:42:34.040								4.1	0.28	a	M1	3.4
KBN	1.27	128.0	Sn	23:42:35.922	-0.2									m		23222
KBN	1.27	128.0	Pn	23:42:19.012	0.0									m		23221
KBN	1.27	128.0	AM1	23:42:39.660								1.7	0.90	a	M1	3.3
NOCI	1.93	252.0	Pn	23:42:29.348	-0.1									m		23223
NOCI	1.93	252.0	AM1	23:43:01.170								1.3	0.24	a	M1	3.6
IGT	2.00	160.0	Pn	23:42:30.573	0.2									m		23224
IGT	2.00	160.0	AM1	23:43:00.920								0.4	0.34	a	M1	3.1
SGRT	2.81	278.0	Pn	23:42:42.149	-0.2									m		23225

DATA\_TYPE COMMENT GSE2.1  
Event 1739

Official Magnitude:  
M1 3.38

Error ellipse:

	Azim	Dip	Mag
Max:	206	43	3.2700
Intermediate:	73	35	1.0800
Min:	323	26	0.7800

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115337 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1740 0.7 km from Patog, Lezhë, Albania

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



2019/09/23 00:21:49.55 0.16 41.6247 19.6185 15.0 1.2 7 7 250 0.33 2.16 m  
1808

Magnitude Err Nsta Author OrigID  
M1 2.6 0.0 3 1808

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.31	0.0	Pg	00:21:58.050	0.0					---				m		23235
TIR	0.33	146.0	Sg	00:22:01.526	-0.2					---				m		23227
TIR	0.33	146.0	AM1	00:22:01.310						---		1.6	0.22	a	M1 2.3	12086
VLO	1.16	185.0	Sg	00:22:27.105	0.2					---				m		23229
VLO	1.16	185.0	P	00:22:12.101	1.2					---				m		23228
VLO	1.16	185.0	AM1	00:22:32.230						---		0.5	0.22	a	M1 2.6	12087
KBN	1.33	138.0	S	00:22:32.739	-0.1					---				m		23231
KBN	1.33	138.0	Pg	00:22:14.950	0.7					---				m		23230
NOCI	2.10	248.0	S	00:22:55.617	-0.2					---				m		23233
NOCI	2.10	248.0	Pn	00:22:27.607	0.2					---				m		23232
NOCI	2.10	248.0	AM1	00:22:57.400						---		0.1	0.28	a	M1 2.7	12088
IGT	2.16	165.0	P	00:22:28.354	0.0					---				m		23234

DATA\_TYPE COMMENT GSE2.1  
Event 1740

Official Magnitude:  
M1 2.60

Error ellipse:

	Azim	Dip	Mag
Max:	110	69	1.2600
Intermediate:	203	1	1.0300
Min:	293	21	0.3600

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115337 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1741 4.7 km from Bizë, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/23	02:27:10.45		0.65	41.5965	19.5332				16.1	4.9	7	7	246	0.35	2.15 m		

1809

Magnitude Err Nsta Author OrigID  
M1 2.7 0.0 3 1809

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
-----	------	------	-------	------	------	------	-------	------	------	-----	-----	-----	-----	------	-----------	-------

TIR	0.35	0.0	Pg	02:27:18.909	0.0	---	m	---	23244
TIR	0.35	134.0	S	02:27:22.832	-0.4	---	m	---	23236
TIR	0.35	134.0	AMl	02:27:22.610		---	4.6	0.32 a	Ml 2.7 12089
VLO	1.13	182.0	Sg	02:27:46.795	0.0	---	m	---	23238
VLO	1.13	182.0	P	02:27:32.609	1.4	---	m	---	23237
VLO	1.13	182.0	AMl	02:27:52.520		---	0.7	0.20 a	Ml 2.7 12090
KBN	1.36	135.0	Sg	02:27:53.901	-0.4	---	m	---	23240
KBN	1.36	135.0	Pg	02:27:36.618	1.1	---	m	---	23239
NOCI	2.03	248.0	Pn	02:27:46.578	-0.6	---	m	---	23241
NOCI	2.03	248.0	AMl	02:28:18.850		---	0.1	0.24 a	Ml 2.6 12091
IGT	2.15	163.0	S	02:28:14.880	-3.0	---	m	---	23243
IGT	2.15	163.0	Pn	02:27:48.844	-0.1	---	m	---	23242

DATA\_TYPE COMMENT GSE2.1  
Event 1741

Official Magnitude:  
Ml 2.74

Error ellipse:

	Azim	Dip	Mag
Max:	70	66	5.3100
Intermediate:	194	14	3.8300
Min:	289	19	1.9300

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115336 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1742 1.5 km from Zgërdhesh, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/23	02:43:19.06		0.40	41.4773	19.7475				31.9	2.2	7	5	243	1.03	2.14	m	1810

Magnitude	Err	Nsta	Author	OrigID
Ml	2.9	0.0	3	1810

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.16	0.0	Pg	02:43:23.041	0.0				---					md		23254
TIR	0.16	145.0	Sg	02:43:25.534	-3.7				---					m		23245
TIR	0.16	145.0	AMl	02:43:29.700					---			1.0	0.20	a	Ml 2.1	12092
VLO	1.03	191.0	Sg	02:43:52.213	0.3				---					m		23247
VLO	1.03	191.0	Pg	02:43:37.221	-0.6				---					mc		23246
VLO	1.03	191.0	AMl	02:44:01.980					---			1.1	0.28	a	Ml 2.9	12093
KBN	1.16	136.0	Sg	02:43:58.689	2.3				---					m		23249

KBN	1.16	136.0	Pg	02:43:41.009	0.6	---	m	23248
IGT	1.99	166.0	Sn	02:44:19.877	0.0	---	m	23251
IGT	1.99	166.0	Pn	02:43:53.380	-0.4	---	mc	23250
NOCI	2.14	253.0	Sn	02:44:23.977	0.3	---	m	23253
NOCI	2.14	253.0	Pn	02:43:55.870	-0.1	---	mc	23252
NOCI	2.14	253.0	AM1	02:44:37.780		---	0.2 0.28 a M1 2.9	12094

DATA\_TYPE COMMENT GSE2.1  
Event 1742

Official Magnitude:  
M1 2.86

Error ellipse:

	Azim	Dip	Mag
Max:	154	69	2.3500
Intermediate:	30	11	2.1000
Min:	297	17	1.1600

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115343 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1743 1.7 km from Damaj, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	14:55:42.76		0.90	41.5033	19.5663				36.0	3.2	12	15	216	0.78	2.86	m	
1811																	

Magnitude	Err	Nsta	Author	OrigID
M1	3.3	0.0	5	1811

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.25	0.0	Pg	14:55:48.928	0.0									m		23269
TIR	0.27	124.0	Sg	14:55:51.606	-4.5									m		23255
TIR	0.27	124.0	AM1	14:55:52.140								13.3	0.44	a M1	3.3	12096
TIR	0.27	124.0	AM1	14:55:52.770								15.1	0.26	a M1	3.4	12095
BPA2	0.77	177.0	Sg	14:56:06.202	-3.3									m		23256
BPA1	0.78	175.0	Sg	14:56:08.980	-0.8									m		23258
BPA1	0.78	175.0	Pg	14:55:57.539	-0.7									m		23257
BPA1	0.78	175.0	AM1	14:56:15.590								2.4	0.72	a M1	3.0	12098
BPA1	0.78	175.0	AM1	14:56:13.730								0.9	0.66	a M1	2.6	12097
VLO	1.04	183.0	Sg	14:56:16.659	0.6									m		23260
VLO	1.04	183.0	Pg	14:56:02.738	1.0									m		23259
VLO	1.04	183.0	AM1	14:56:22.170								4.1	0.26	a M1	3.5	12099
KBN	1.27	133.0	Sn	14:56:23.503	0.4									m		23262

KBN	1.27	133.0	Pn	14:56:06.662	0.8	---											m		23261			
KBN	1.27	133.0	AM1	14:56:26.120		---											2.3	0.40	a	M1	3.4	12100
NOCI	2.02	251.0	Sn	14:56:43.803	0.1	---													m			23264
NOCI	2.02	251.0	Pn	14:56:19.122	1.6	---													m			23263
NOCI	2.02	251.0	AM1	14:56:55.450		---											0.6	0.40	a	M1	3.3	12101
IGT	2.05	163.0	Sn	14:56:44.128	-0.4	---													m			23266
IGT	2.05	163.0	Pn	14:56:17.209	-0.9	---													m			23265
LKD2	2.84	162.0	Pn	14:56:26.907	-2.7	---													m			23267
SGRT	2.86	277.0	Pn	14:56:28.659	-1.3	---													m			23268

DATA\_TYPE COMMENT GSE2.1  
Event 1743

Official Magnitude:  
M1 3.31

Error ellipse:

	Azim	Dip	Mag
Max:	203	41	4.8100
Intermediate:	49	45	2.9700
Min:	305	14	1.9000

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115344 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1744 1.2 km from Breg i Kaçito, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	14:27:12.37		0.80	41.5033	19.6032				25.0	7.5	12	15	211	0.25	2.89	m	1812

Magnitude	Err	Nsta	Author	OrigID
M1	3.0	0.0	6	1812

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.24	0.0	Pg	14:27:19.756	0.0					---						23284	
TIR	0.25	128.0	Sg	14:27:21.482	-0.9					---						23270	
TIR	0.25	128.0	AM1	14:27:23.340						---		7.5	0.28	a	M1	3.0	12103
TIR	0.25	128.0	AM1	14:27:22.840						---		7.5	0.24	a	M1	3.0	12102
BPA1	0.78	177.0	Sg	14:27:39.146	0.4					---						23272	
BPA1	0.78	177.0	Pg	14:27:26.801	-0.7					---						23271	
BPA1	0.78	177.0	AM1	14:27:50.490						---		0.7	0.66	a	M1	2.5	12104
VLO	1.04	185.0	Sg	14:27:45.542	0.0					---						23274	
VLO	1.04	185.0	Pg	14:27:32.737	1.4					---						23273	
VLO	1.04	185.0	AM1	14:27:49.560						---		5.5	0.34	a	M1	3.6	12105

KBN	1.25	134.0	Sg	14:27:52.540	-0.2	---	m	23276
KBN	1.25	134.0	Pg	14:27:37.151	1.7	---	m	23275
KBN	1.25	134.0	AMl	14:27:55.450		---	0.6 0.72 a Ml	2.8 12106
NOCI	2.05	251.0	Sn	14:28:15.537	-0.1	---	m	23280
NOCI	2.05	251.0	Pn	14:27:49.012	0.5	---	m	23279
NOCI	2.05	251.0	AMl	14:28:28.860		---	0.3 0.28 a Ml	3.0 12108
IGT	2.05	164.0	Sn	14:28:10.850	-4.8	---	m	23278
IGT	2.05	164.0	Pn	14:27:48.533	0.0	---	m	23277
IGT	2.05	164.0	AMl	14:28:21.040		---	0.3 0.86 a Ml	2.9 12107
LKD2	2.83	163.0	Pn	14:27:57.416	-2.6	---	m	23281
SGRT	2.89	277.0	Sn	14:28:32.169	-5.2	---	m	23283
SGRT	2.89	277.0	Pn	14:28:00.324	-0.6	---	m	23282

DATA\_TYPE COMMENT GSE2.1  
Event 1744

Official Magnitude:  
Ml 2.95

Error ellipse:

	Azim	Dip	Mag
Max:	146	69	7.9700
Intermediate:	29	9	3.1600
Min:	296	18	1.5400

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115343 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1745 2.1 km from Shetaj, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	15:31:15.95		1.83	41.5732	19.4767				46.3	15.6	12	15	218	0.86	2.92	m	1813

Magnitude	Err	Nsta	Author	OrigID
Ml	3.2	0.0	4	1813

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.41	0.0	Pg	15:31:23.401	0.0				---					m		23298
TIR	0.37	127.0	Sg	15:31:25.310	-7.7				---					m		23285
TIR	0.37	127.0	AMl	15:31:27.250					---			8.2	0.40	a Ml	3.2	12110
TIR	0.37	127.0	AMl	15:31:27.960					---			5.3	0.26	a Ml	3.0	12109
BPA1	0.86	170.0	Sg	15:31:44.173	-1.3				---					m		23287
BPA1	0.86	170.0	Pg	15:31:34.393	1.6				---					m		23286
BPA1	0.86	170.0	AMl	15:32:13.930					---			1.2	0.80	a Ml	2.8	12111

VLO	1.10	179.0	Sg	15:31:52.563	1.7	---	m	23289
VLO	1.10	179.0	Pg	15:31:36.929	1.0	---	m	23288
VLO	1.10	179.0	AM1	15:32:07.850		---	3.1 0.32 a M1	3.4 12113
VLO	1.10	179.0	AM1	15:31:54.900		---	2.7 0.24 a M1	3.4 12112
KBN	1.37	133.0	Sn	15:31:59.420	1.2	---	m	23291
KBN	1.37	133.0	Pn	15:31:38.712	-1.4	---	m	23290
NOCI	1.98	248.0	Sn	15:32:09.543	-5.2	---	m	23293
NOCI	1.98	248.0	Pn	15:31:46.741	-2.8	---	m	23292
NOCI	1.98	248.0	AM1	15:32:27.380		---	0.4 0.20 a M1	3.1 12114
IGT	2.14	162.0	Sn	15:32:14.383	-4.5	---	m	23295
IGT	2.14	162.0	Pn	15:31:53.535	1.7	---	m	23294
SGRT	2.79	275.0	Pn	15:32:02.740	1.3	---	m	23296
LKD2	2.92	161.0	Pn	15:32:01.467	-2.0	---	m	23297

DATA\_TYPE COMMENT GSE2.1  
Event 1745

Official Magnitude:  
M1 3.15

Error ellipse:

	Azim	Dip	Mag
Max:	212	52	19.7900
Intermediate:	43	37	7.8900
Min:	309	5	5.0800

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115342 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1746 1.0 km from Rrotull, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	16:17:49.67		1.12	41.5053	19.5580				32.4	5.0	12	15	207	0.28	2.86	m	1814

Magnitude	Err	Nsta	Author	OrigID
M1	2.8	0.0	4	1814

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.23	0.0	Pg	16:17:57.365	0.0									m		23311
TIR	0.28	124.0	Sg	16:18:00.124	-2.3									m		23299
TIR	0.28	124.0	AM1	16:18:02.810								3.3	0.24	a M1	2.7	12116
TIR	0.28	124.0	AM1	16:18:01.150								5.7	0.32	a M1	2.9	12115
BPA1	0.79	174.0	Sg	16:18:16.114	-0.5									m		23301
BPA1	0.79	174.0	Pg	16:18:05.093	0.0									m		23300









Md 2.9 0.0 3 1817

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.36	0.0	Pg	13:50:04.547	0.0									m		23351
TIR	0.36	84.0	Sg	13:50:07.953	-5.0									m		23343
TIR	0.36	84.0	AMl	13:50:09.500								1.4	0.12	a	Ml	2.4
BPA1	0.62	161.0	Sg	13:50:19.950	0.0									m		23345
BPA1	0.62	161.0	Pg	13:50:10.200	-0.1									m		23344
BPA1	0.62	161.0	AMl	13:50:33.890								0.3	0.82	a	Ml	1.9
BPA1	0.62	161.0	AMd	13:51:06.045								0.0	55.84	a	Md	2.9
KBN	1.26	122.0	Sn	13:50:37.362	-0.2									m		23346
NOCI	1.83	255.0	Sn	13:50:53.421	-0.2									m		23348
NOCI	1.83	255.0	Pn	13:50:29.856	0.3									m		23347
NOCI	1.83	255.0	AMl	13:50:55.490								0.1	0.14	a	Ml	2.4
NOCI	1.83	255.0	AMd	13:51:32.850								0.0	62.99	a	Md	3.1
IGT	1.92	157.0	Sn	13:50:55.856	0.1									m		23350
IGT	1.92	157.0	Pn	13:50:31.248	0.4									m		23349
IGT	1.92	157.0	AMd	13:51:34.133								0.0	62.88	a	Md	2.5

DATA\_TYPE COMMENT GSE2.1  
Event 1749

Official Magnitude:  
Ml 2.37

Error ellipse:

	Azim	Dip	Mag
Max:	199	16	1.6000
Intermediate:	63	68	0.8300
Min:	293	14	0.4700

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115336 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1750 0.4 km from Plazh, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/23	14:02:39.44		0.18	41.3097	19.4867				16.7	9.5	4	7	187	0.29	1.90	m	
1818																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.3	0.0	3	1818
Md	2.9	0.0	2	1818

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
-----	------	------	-------	------	------	------	-------	------	------	-----	-----	-----	-----	------	-----------	-------

TIR	0.29	0.0	Pg	14:02:46.991	0.0	---											m		23357
TIR	0.29	82.0	Sg	14:02:50.219	-0.1	---											m		23352
TIR	0.29	82.0	AMl	14:02:52.000		---					1.1	0.26	a	Ml	2.1				12144
IGT	1.89	159.0	Sn	14:03:39.841	-0.2	---											m		23354
IGT	1.89	159.0	Pn	14:03:14.354	0.3	---											m		23353
IGT	1.89	159.0	AMl	14:03:43.710		---					0.1	0.88	a	Ml	2.3				12145
IGT	1.89	159.0	AMd	14:04:25.409		---					0.0	71.05	a	Md	2.6				12142
NOCI	1.90	255.0	Sn	14:03:37.662	-2.8	---											m		23356
NOCI	1.90	255.0	Pn	14:03:14.190	-0.1	---											m		23355
NOCI	1.90	255.0	AMl	14:03:46.530		---					0.1	0.26	a	Ml	2.4				12146
NOCI	1.90	255.0	AMd	14:04:24.371		---					0.0	70.18	a	Md	3.2				12143

DATA\_TYPE COMMENT GSE2.1  
Event 1750

Official Magnitude:  
Ml 2.26

Error ellipse:

	Azim	Dip	Mag
Max:	24	48	12.7500
Intermediate:	139	20	0.9000
Min:	244	35	0.5300

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115336 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1751 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/23	17:19:40.53		0.19	41.3927	19.5175				15.6	6.0	5	7	206	0.27	1.96	m	1819

Magnitude	Err	Nsta	Author	OrigID
Ml	2.5	0.0	4	1819
Md	2.9	0.0	2	1819

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.24	0.0	Pg	17:19:46.790	0.0											23364	
TIR	0.27	99.0	Sg	17:19:50.474	-0.1											23358	
TIR	0.27	99.0	AMl	17:19:53.810								2.3	0.20	a	Ml	2.4	12149
KBN	1.23	128.0	Sn	17:20:20.501	0.0											23359	
KBN	1.23	128.0	AMl	17:20:25.900								0.4	0.84	a	Ml	2.5	12151
NOCI	1.95	253.0	Sn	17:20:42.763	-0.1											23361	
NOCI	1.95	253.0	Pn	17:20:17.818	1.7											23360	

NOCI	1.95	253.0	AMl	17:20:47.690	---	0.1	0.50	a__	Ml	2.5	12152
NOCI	1.95	253.0	AMd	17:21:27.083	---	0.0	69.27	a__	Md	3.2	12147
IGT	1.96	161.0	Sn	17:20:42.979	-0.1	---	---	m__	---	---	23363
IGT	1.96	161.0	Pn	17:20:16.750	0.5	---	---	m__	---	---	23362
IGT	1.96	161.0	AMd	17:21:22.256	---	0.0	65.51	a__	Md	2.5	12148
VLO	---	---	AMl	17:20:17.850	---	1.2	0.22	a__	Ml	2.8	12150

DATA\_TYPE COMMENT GSE2.1  
Event 1751

Official Magnitude:  
Ml 2.49

Error ellipse:

	Azim	Dip	Mag
Max:	25	40	9.3100
Intermediate:	157	38	0.9100
Min:	270	27	0.4300

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115336 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1752 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/24	05:22:30.69		0.56	41.4032	19.4493				17.3	2.9	11	7	235	0.68	2.81	m	
1821																	

Magnitude	Err	Nsta	Author	OrigID
Ml	3.5	0.0	6	1821

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
BPA2	0.68	169.0	Sg	05:22:54.081	-0.2					---				m__		23379	
BPA2	0.68	169.0	Pg	05:22:44.936	0.8					---				m__		23378	
BPA1	0.70	166.0	Sg	05:22:54.277	-0.4					---				m__		23381	
BPA1	0.70	166.0	Pg	05:22:44.561	0.2					---				m__		23380	
BPA1	0.70	166.0	AMl	05:22:59.710						---		1.0	0.30	a__	Ml	2.5	12159
VLO	0.93	177.0	Sg	05:23:01.078	0.2					---				m__		23383	
VLO	0.93	177.0	Pg	05:22:50.422	2.5					---				m__		23382	
VLO	0.93	177.0	AMl	05:23:10.860						---		12.6	0.34	a__	Ml	3.8	12160
KBN	1.28	127.0	Sg	05:23:12.058	0.1					---				m__		23385	
KBN	1.28	127.0	Pg	05:22:54.542	0.3					---				m__		23384	
KBN	1.28	127.0	AMl	05:23:14.540						---		2.7	0.52	a__	Ml	3.4	12161
NOCI	1.90	252.0	Sn	05:23:32.127	0.6					---				m__		23387	
NOCI	1.90	252.0	P	05:23:04.499	-1.0					---				m__		23386	



IGT	2.00	163.0	Pn	18:56:35.324	0.5	---										m_		23398
NOCI	2.04	252.0	Sn	18:56:54.660	-7.6	---										m_		23401
NOCI	2.04	252.0	Pn	18:56:35.724	0.4	---										m_		23400
NOCI	2.04	252.0	AM1	18:57:05.240		---					0.2	0.18	a_	M1			2.9	12170
NOCI	2.04	252.0	AM1	18:56:55.450		---					0.2	0.10	a_	M1			2.9	12169

DATA\_TYPE COMMENT GSE2.1  
Event 1753

Official Magnitude:  
M1 2.61

Error ellipse:

	Azim	Dip	Mag
Max:	181	53	3.7800
Intermediate:	39	29	2.9100
Min:	298	19	2.2700

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115336 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1754 0.3 km from Allësaush, Tirana, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/24	16:53:08.43		0.22	41.3808	19.6342				35.3	1.3	7	6	236	0.92	2.03	m	
1823																	

Magnitude	Err	Nsta	Author	OrigID
M1	2.9	0.0	2	1823

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.18	0.0	Pg	16:53:11.434	0.0									md_		23411
TIR	0.18	100.0	Sg	16:53:14.348	-5.4									m_		23403
TIR	0.18	100.0	AM1	16:53:16.220								3.6	0.14	a_	M1	2.7
VLO	0.92	187.0	Pg	16:53:25.379	-0.1									mc_		23404
KBN	1.15	130.0	Sg	16:53:45.526	-0.1									m_		23406
KBN	1.15	130.0	Pg	16:53:29.562	-0.1									m_		23405
IGT	1.92	163.0	Sn	16:54:07.084	0.2									m_		23408
IGT	1.92	163.0	Pn	16:53:40.425	-1.4									mc_		23407
NOCI	2.03	254.0	Sn	16:54:09.464	-0.2									m_		23410
NOCI	2.03	254.0	Pn	16:53:43.812	0.4									md_		23409
NOCI	2.03	254.0	AM1	16:54:21.760								0.3	0.34	a_	M1	3.0

DATA\_TYPE COMMENT GSE2.1  
Event 1754

Official Magnitude:  
Ml 2.86

Error ellipse:

	Azim	Dip	Mag
Max:	19	17	1.7300
Intermediate:	191	72	1.3600
Min:	288	2	0.5400

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115336 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1755 1.6 km from Gorre, Lezhë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/24	20:27:25.74		0.79	41.6285	19.6578				32.8	3.1	8	5	251	0.32	2.16	m	1824

Magnitude	Err	Nsta	Author	OrigID
Ml	3.0	0.0	3	1824

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.32	0.0	Pg	20:27:34.011	0.0					---				md_		23421	
TIR	0.32	150.0	Sg	20:27:37.570	-2.0					---				m_		23412	
TIR	0.32	150.0	AMl	20:27:38.350						---		1.3	0.14	a_	Ml	2.3	12173
VLO	1.16	187.0	Sg	20:28:02.412	-0.5					---				m_		23414	
VLO	1.16	187.0	Pg	20:27:48.124	1.2					---				mc_		23413	
VLO	1.16	187.0	AMl	20:28:07.250						---		2.1	0.46	a_	Ml	3.3	12174
KBN	1.32	139.0	Sg	20:28:08.043	0.4					---				m_		23416	
KBN	1.32	139.0	Pg	20:27:52.321	2.6					---				mc_		23415	
NOCI	2.13	248.0	Sn	20:28:30.625	0.7					---				m_		23418	
NOCI	2.13	248.0	Pn	20:28:01.250	-1.2					---				mc_		23417	
NOCI	2.13	248.0	AMl	20:28:36.470						---		0.3	0.28	a_	Ml	3.0	12175
IGT	2.16	166.0	Sn	20:28:30.282	-0.4					---				m_		23420	
IGT	2.16	166.0	Pn	20:28:02.496	-0.3					---				mc_		23419	

DATA\_TYPE COMMENT GSE2.1  
Event 1755

Official Magnitude:  
Ml 3.02

Error ellipse:

Azim Dip Mag

Max: 202 25 5.0100  
 Intermediate: 40 63 3.4200  
 Min: 295 7 1.9700

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115336 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1756 4.0 km from Bizë, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/25	01:24:02.20		0.38	41.5922	19.5468				36.7	2.0	13	15	178	0.87	4.53	m	
OrigID 1825																	

Magnitude	Err	Nsta	Author	OrigID
Ml	3.8	0.0	6	1825

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.34	0.0	Pg	01:24:09.991	0.0									md_		23438
TIR	0.34	135.0	Sg	01:24:14.324	-2.9									m_		23422
TIR	0.34	135.0	AMl	01:24:15.160								35.8	0.34	a_	Ml	3.8
BPA1	0.87	174.0	Sg	01:24:32.089	0.2									m_		23424
BPA1	0.87	174.0	Pg	01:24:18.747	-0.4									md_		23423
BPA1	0.87	174.0	AMl	01:25:08.840								2.5	1.98	a_	Ml	3.1
BPA1	0.87	174.0	AMl	01:24:46.840								10.0	0.82	a_	Ml	3.7
VLO	1.12	182.0	Sg	01:24:37.888	-0.0									m_		23426
VLO	1.12	182.0	Pg	01:24:23.162	0.6									mc_		23425
VLO	1.12	182.0	AMl	01:24:42.250								26.5	0.56	a_	Ml	4.3
KBN	1.35	135.0	Sg	01:24:44.219	-0.3									m_		23428
KBN	1.35	135.0	Pg	01:24:26.978	0.6									mc_		23427
KBN	1.35	135.0	AMl	01:24:47.620								5.7	0.76	a_	Ml	3.8
NOCI	2.04	248.0	Sn	01:25:03.654	0.2									m_		23430
NOCI	2.04	248.0	Pn	01:24:36.541	-0.7									md_		23429
NOCI	2.04	248.0	AMl	01:25:17.400								6.4	0.40	a_	Ml	4.3
IGT	2.14	163.0	Sn	01:25:03.739	-2.5									m_		23432
IGT	2.14	163.0	Pn	01:24:38.385	-0.4									m_		23431
THE	2.75	109.0	Sn	01:25:21.885	-0.0									m_		23434
THE	2.75	109.0	Pn	01:24:48.138	0.4									m_		23433
THE	2.75	109.0	AMl	01:25:24.190								1.0	0.78	a_	Ml	3.8
SGRT	2.84	275.0	P	01:24:49.324	0.3									md_		23435
LKD2	2.93	162.0	Pn	01:24:47.576	-2.7									mc_		23436
RDO	4.53	93.0	Pn	01:25:13.609	-0.3									mc_		23437

DATA\_TYPE COMMENT GSE2.1  
 Event 1756



Official Magnitude:  
Ml 3.82

Error ellipse:

	Azim	Dip	Mag
Max:	185	66	2.2200
Intermediate:	7	23	1.2500
Min:	277	1	0.8700

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115335 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1757 2.0 km from Mazha e Madhe, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/25	01:47:29.67		0.26	41.4653	19.6137				30.8	0.6	9	8	229	0.22	2.79	m	1826

Magnitude	Err	Nsta	Author	OrigID
Ml	3.1	0.0	4	1826

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.26	0.0	Pg	01:47:35.826	0.0					___				md_		23450
TIR	0.22	121.0	Sg	01:47:40.697	-0.2					___				m_		23439
TIR	0.22	121.0	AML	01:47:41.180						___		4.7	0.26	a_ Ml	2.8	12183
VLO	1.00	186.0	Sg	01:48:01.752	-0.0					___				m_		23441
VLO	1.00	186.0	Pg	01:47:48.149	0.1					___				mc_		23440
VLO	1.00	186.0	AML	01:48:05.210						___		2.1	0.32	a_ Ml	3.1	12184
KBN	1.22	133.0	Sg	01:48:09.383	0.5					___				m_		23443
KBN	1.22	133.0	Pg	01:47:54.117	2.0					___				mc_		23442
IGT	2.01	163.0	Sn	01:48:30.812	-0.2					___				m_		23445
IGT	2.01	163.0	Pn	01:48:04.345	-0.4					___				md_		23444
NOCI	2.04	252.0	Sn	01:48:32.055	0.2					___				m_		23447
NOCI	2.04	252.0	Pn	01:48:02.539	-2.7					___				mc_		23446
NOCI	2.04	252.0	AML	01:48:42.310						___		0.3	0.34	a_ Ml	3.0	12185
LKD2	2.79	162.0	Sn	01:48:51.141	-0.0					___				m_		23449
LKD2	2.79	162.0	Pn	01:48:13.837	-2.4					___				m_		23448
LKD2	2.79	162.0	AML	01:49:11.340						___		0.4	1.32	a_ Ml	3.5	12186

DATA\_TYPE COMMENT GSE2.1  
Event 1757

Official Magnitude:  
Ml 3.07

Error ellipse:

	Azim	Dip	Mag
Max:	22	21	1.4600
Intermediate:	135	44	0.8500
Min:	274	38	0.5400

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115335 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1758 1.1 km from Fushë-Draç, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/25	02:06:10.37		0.58	41.5460	19.5212				28.4	1.7	13	15	192	0.32	4.74	m	
1827																	

Magnitude	Err	Nsta	Author	OrigID
M1	3.2	0.0	4	1827

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.33	0.0	Pg	02:06:18.209	0.0					---				md_		23466	
TIR	0.33	127.0	Sg	02:06:22.962	-0.7					---				m_		23451	
TIR	0.33	127.0	AM1	02:06:28.540						---		5.6	0.34	a_	M1	2.9	12187
BPA1	0.83	172.0	Sg	02:06:38.594	0.1					---				m_		23453	
BPA1	0.83	172.0	Pg	02:06:27.019	0.6					---				mc_		23452	
BPA1	0.83	172.0	AM1	02:06:53.890						---		0.9	0.64	a_	M1	2.6	12188
VLO	1.08	182.0	Sg	02:06:44.603	-0.3					---				m_		23455	
VLO	1.08	182.0	Pg	02:06:31.608	1.5					---				mc_		23454	
VLO	1.08	182.0	AM1	02:06:52.920						---		4.7	0.36	a_	M1	3.5	12189
KBN	1.33	133.0	Sg	02:06:53.200	0.3					---				m_		23457	
KBN	1.33	133.0	Pg	02:06:36.137	1.5					---				mc_		23456	
NOCI	2.00	249.0	Sn	02:07:11.994	0.1					---				m_		23459	
NOCI	2.00	249.0	Pn	02:06:45.006	-0.6					---				mc_		23458	
NOCI	2.00	249.0	AM1	02:07:26.700						---		1.0	3.28	a_	M1	3.5	12190
IGT	2.10	162.0	Sn	02:07:14.321	-0.2					---				m_		23461	
IGT	2.10	162.0	Pn	02:06:46.285	-0.8					---				mc_		23460	
THE	2.76	108.0	Pn	02:06:56.634	-0.0					---				m_		23462	
SGRT	2.83	276.0	Pn	02:06:57.848	0.2					---				m_		23463	
LKD2	2.89	162.0	Pn	02:06:56.124	-2.4					---				md_		23464	
ITM	4.74	156.0	Pn	02:07:21.797	-4.1					---				mc_		23465	

DATA\_TYPE COMMENT GSE2.1  
Event 1758

Official Magnitude:  
M1 3.20

Error ellipse:

	Azim	Dip	Mag
Max:	169	51	2.1900
Intermediate:	39	26	1.8400
Min:	295	26	1.0500

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115335 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1759 0.4 km from Goleme, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/25	02:23:50.59		0.39	41.5817	19.6383				33.8	1.1	13	15	222	0.29	2.91	m	

Magnitude	Err	Nsta	Author	OrigID
Ml	3.4	0.0	5	1828

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.29	0.0	Pg	02:23:58.719	0.0									md_		23482
TIR	0.29	143.0	Sg	02:24:03.476	-0.4									m_		23467
TIR	0.29	143.0	AM1	02:24:03.290								8.7	0.34	a_	Ml	3.1
BPA1	0.86	179.0	Sg	02:24:19.759	0.0									m_		23469
BPA1	0.86	179.0	Pg	02:24:07.257	0.0									mc_		23468
BPA1	0.86	179.0	AM1	02:24:21.850								2.2	0.52	a_	Ml	3.1
VLO	1.12	186.0	Sg	02:24:26.441	0.2									m_		23471
VLO	1.12	186.0	Pg	02:24:11.744	0.8									mc_		23470
VLO	1.12	186.0	AM1	02:24:30.080								12.2	0.74	a_	Ml	4.0
KBN	1.29	137.0	Sg	02:24:32.220	0.5									m_		23473
KBN	1.29	137.0	Pg	02:24:14.482	0.4									mc_		23472
NOCI	2.10	249.0	Sn	02:24:54.207	0.4									m_		23475
NOCI	2.10	249.0	Pn	02:24:25.390	-1.3									mc_		23474
NOCI	2.10	249.0	AM1	02:25:02.000								1.9	0.46	a_	Ml	3.8
IGT	2.11	165.0	Sn	02:24:53.581	-0.7									m_		23477
IGT	2.11	165.0	Pn	02:24:26.974	0.0									mc_		23476
LKD2	2.90	164.0	Sn	02:25:13.877	-0.5									m_		23479
LKD2	2.90	164.0	Pn	02:24:36.590	-1.9									mc_		23478
SGRT	2.91	275.0	Sn	02:25:14.663	-0.1									m_		23481
SGRT	2.91	275.0	Pn	02:24:38.224	-0.4									mc_		23480
SGRT	2.91	275.0	AM1	02:25:18.010								0.3	0.34	a_	Ml	3.4

DATA\_TYPE COMMENT GSE2.1  
 Event 1759

Official Magnitude:  
Ml 3.40

Error ellipse:

	Azim	Dip	Mag
Max:	210	7	1.5900
Intermediate:	102	65	1.2100
Min:	303	24	0.6900

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115335 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1760 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/25	03:01:15.93		0.17	41.5168	19.6615				36.0	0.4	6	7	246	0.22	2.09	m	1829

Magnitude	Err	Nsta	Author	OrigID
Ml	2.7	0.0	3	1829

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.23	0.0	Pg	03:01:23.321	0.0					---				md_		23490
TIR	0.23	137.0	Sg	03:01:28.215	-0.1					---				m_		23483
TIR	0.23	137.0	AMl	03:01:28.340						---		0.8	0.20	a_ Ml	2.1	12196
VLO	1.05	187.0	Sg	03:01:49.902	0.1					---				m_		23485
VLO	1.05	187.0	Pg	03:01:36.766	1.5					---				mc_		23484
VLO	1.05	187.0	AMl	03:01:52.280						---		0.7	0.42	a_ Ml	2.7	12197
IGT	2.05	165.0	Sn	03:02:17.367	-0.2					---				m_		23487
IGT	2.05	165.0	Pn	03:01:51.408	0.3					---				mc_		23486
NOCI	2.09	251.0	Sn	03:02:18.626	-0.1					---				m_		23489
NOCI	2.09	251.0	Pn	03:01:50.145	-1.7					---				m_		23488
NOCI	2.09	251.0	AMl	03:02:26.580						---		0.2	0.48	a_ Ml	2.7	12198

DATA\_TYPE COMMENT GSE2.1  
Event 1760

Official Magnitude:  
Ml 2.69

Error ellipse:

	Azim	Dip	Mag
Max:	28	13	0.9300
Intermediate:	128	35	0.6300
Min:	281	52	0.3600

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115335 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1761 0.2 km from GerÅšani, Fier, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/25	04:29:27.18		0.29	40.6653	19.8112				27.7	0.5	12	15	155	0.13	3.24	m	

Magnitude	Err	Nsta	Author	OrigID
M1	2.7	0.0	4	1830

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
BPA1	0.13	297.0	Sg	04:29:36.112	0.1					---				m_		23492
BPA1	0.13	297.0	Pg	04:29:32.280	0.1					---				mc_		23491
BPA1	0.13	297.0	AM1	04:29:41.910						---		3.4	0.36	a_	M1	2.6
VLO	0.30	0.0	Pg	04:29:34.208	0.0					---				mc_		23505
VLO	0.31	231.0	Sg	04:29:38.762	-0.0					---				m_		23493
VLO	0.31	231.0	AM1	04:29:41.800						---		15.6	0.40	a_	M1	3.3
TIR	0.68	3.0	Sg	04:29:53.984	3.2					---				m_		23495
TIR	0.68	3.0	Pg	04:29:43.220	2.5					---				md_		23494
TIR	0.68	3.0	AM1	04:30:02.890						---		0.5	0.28	a_	M1	2.2
KBN	0.74	92.0	Sg	04:29:52.144	0.3					---				m_		23497
KBN	0.74	92.0	Pg	04:29:41.097	-0.2					---				md_		23496
IGT	1.20	160.0	Sn	04:30:06.790	0.1					---				m_		23499
IGT	1.20	160.0	Pn	04:29:49.448	-0.3					---				m_		23498
LKD2	1.98	160.0	Sn	04:30:28.776	0.4					---				m_		23501
LKD2	1.98	160.0	Pn	04:30:01.724	-0.4					---				m_		23500
NOCI	2.09	275.0	Sn	04:30:31.515	0.4					---				m_		23503
NOCI	2.09	275.0	Pn	04:30:02.995	-0.7					---				m_		23502
NOCI	2.09	275.0	AM1	04:30:38.660						---		0.2	0.30	a_	M1	2.7
SGRT	3.24	291.0	Pn	04:30:20.546	-0.1					---				m_		23504

DATA\_TYPE COMMENT GSE2.1  
 Event 1761

Official Magnitude:  
 M1 2.71

Error ellipse:

	Azim	Dip	Mag
Max:	16	28	0.9500
Intermediate:	239	53	0.6600
Min:	118	21	0.5200

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115335 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1763 2.1 km from Zhulat, Gjirokastër, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/25	08:38:24.26		0.10	40.1152	19.9647				27.3	0.5	11	9	131	0.50	2.31	m	
OrigID 1832																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.8	0.0	6	1832
Md	2.7	0.0	6	1832

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
VLO	0.50	315.0	Sg	08:38:41.127	-0.1					___				m		23524
VLO	0.50	315.0	Pg	08:38:32.958	-1.0					___				m		23523
VLO	0.50	315.0	AMl	08:38:45.528						___		10.8	0.42	a	Ml	3.3
VLO	0.50	315.0	AMd	08:39:21.580						___		0.0	48.62	a	Md	2.7
IGT	0.65	154.0	Sg	08:38:46.279	-0.5					___				m		23526
IGT	0.65	154.0	Pg	08:38:37.303	0.2					___				m		23525
IGT	0.65	154.0	AMl	08:38:51.588						___		1.8	0.28	a	Ml	2.8
IGT	0.65	154.0	AMd	08:39:33.607						___		0.0	56.30	a	Md	2.3
BPA1	0.66	0.0	Pg	08:38:32.466	0.0					___				m		23536
BPA1	0.65	339.0	Sg	08:38:47.049	0.1					___				m		23527
BPA1	0.65	339.0	AMl	08:39:04.418						___		1.7	0.90	a	Ml	2.8
KBN	0.81	50.0	Sn	08:38:50.892	0.0					___				m		23529
KBN	0.81	50.0	Pn	08:38:39.353	-0.1					___				m		23528
KBN	0.81	50.0	AMl	08:38:59.038						___		1.4	0.52	a	Ml	2.8
KBN	0.81	50.0	AMd	08:39:30.139						___		0.0	50.79	a	Md	2.2
TIR	1.23	357.0	Sn	08:39:04.923	0.1					___				m		23531
TIR	1.23	357.0	Pn	08:38:47.342	-0.1					___				m		23530
TIR	1.23	357.0	AMl	08:39:13.358						___		0.6	0.56	a	Ml	2.8
TIR	1.23	357.0	AMd	08:39:39.718						___		0.0	52.38	a	Md	2.8
LKD2	1.43	157.0	Sn	08:39:10.689	-0.0					___				m		23533
LKD2	1.43	157.0	Pn	08:38:50.806	0.0					___				m		23532
LKD2	1.43	157.0	AMd	08:40:02.951						___		0.0	72.14	a	Md	2.6
NOCI	2.31	288.0	Sn	08:39:33.297	-0.7					___				m		23535
NOCI	2.31	288.0	Pn	08:39:04.116	0.0					___				m		23534
NOCI	2.31	288.0	AMl	08:39:37.918						___		1.0	0.46	a	Ml	3.7
NOCI	2.31	288.0	AMd	08:40:28.018						___		0.0	83.90	a	Md	3.4

DATA\_TYPE COMMENT GSE2.1  
 Event 1763

Official Magnitude:  
Ml 2.79

Error ellipse:

	Azim	Dip	Mag
Max:	24	81	0.5400
Intermediate:	249	5	0.2800
Min:	158	6	0.1600

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115335 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1764 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/26	00:24:19.33		0.20	41.3658	19.6075				29.1	0.9	8	6	234	0.90	2.01	m	

OrigID  
1833

Magnitude	Err	Nsta	Author	OrigID
Ml	1.6	0.0	1	1833

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.19	0.0	Pg	00:24:22.389	0.0					---				md_		23546
TIR	0.19	95.0	Sg	00:24:26.989	-2.6					---				m_		23537
TIR	0.19	95.0	AML	00:24:27.650						---		0.3	0.28	a_	Ml 1.6	12219
VLO	0.90	186.0	Sg	00:24:48.611	0.2					---				m_		23539
VLO	0.90	186.0	Pg	00:24:35.679	-0.3					---				md_		23538
KBN	1.16	129.0	Sg	00:24:56.925	0.2					---				m_		23541
KBN	1.16	129.0	Pg	00:24:40.551	-0.2					---				m_		23540
IGT	1.91	163.0	Sn	00:25:18.338	-0.2					---				m_		23543
IGT	1.91	163.0	Pn	00:24:53.583	0.4					---				m_		23542
NOCI	2.01	255.0	Sn	00:25:20.869	-0.0					---				m_		23545
NOCI	2.01	255.0	Pn	00:24:54.703	0.2					---				mc_		23544

DATA\_TYPE COMMENT GSE2.1  
Event 1764

Official Magnitude:  
Ml 1.62

Error ellipse:

	Azim	Dip	Mag
Max:	190	44	1.2400
Intermediate:	30	43	0.8900
Min:	290	10	0.4900

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115335 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1765 0.7 km from Gërdec, Tirana, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/26	13:16:58.37		0.70	41.4235	19.6353				37.3	4.1	8	8	239	0.96	2.04	m	

Magnitude	Err	Nsta	Author	OrigID
M1	2.9	0.0	2	1834

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.19	0.0	P	13:17:00.592	0.0					---				m		23556	
TIR	0.19	113.0	Sg	13:17:06.020	-4.3					---				m		23547	
TIR	0.19	113.0	AM1	13:17:07.110						---		2.7	0.30	a	M1	2.6	12220
VLO	0.96	187.0	S	13:17:30.172	0.7					---				m		23549	
VLO	0.96	187.0	Pg	13:17:15.793	-0.4					---				m		23548	
VLO	0.96	187.0	AM1	13:17:31.630						---		2.7	0.26	a	M1	3.2	12221
KBN	1.18	132.0	S	13:17:36.796	0.7					---				m		23551	
KBN	1.18	132.0	Pg	13:17:19.759	-0.2					---				m		23550	
IGT	1.96	164.0	Sn	13:17:56.047	-1.6					---				m		23553	
IGT	1.96	164.0	Pn	13:17:31.334	-0.9					---				m		23552	
NOCI	2.04	253.0	Sn	13:17:59.424	-0.3					---				m		23555	
NOCI	2.04	253.0	Pn	13:17:34.282	0.9					---				m		23554	

DATA\_TYPE COMMENT GSE2.1  
 Event 1765

Official Magnitude:  
 M1 2.93

Error ellipse:

	Azim	Dip	Mag
Max:	193	43	6.0200
Intermediate:	24	46	3.0400
Min:	288	6	1.8900

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115334 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT



Event 1766 0.7 km from Gërdec, Tirana, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/26	13:16:58.37		0.70	41.4232	19.6353				37.2	4.1	8	8	239	0.96	2.04	m	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.9	0.0	2	1835

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.19	0.0	P	13:17:00.592	0.0					---				m		23566	
TIR	0.19	113.0	Sg	13:17:06.307	-4.0					---				m		23557	
TIR	0.19	113.0	AM1	13:17:07.110						---		2.7	0.30	a	Ml	2.6	12222
VLO	0.96	187.0	S	13:17:30.172	0.7					---				m		23559	
VLO	0.96	187.0	Pg	13:17:15.793	-0.4					---				m		23558	
VLO	0.96	187.0	AM1	13:17:31.630						---		2.7	0.26	a	Ml	3.2	12223
KBN	1.18	132.0	S	13:17:36.796	0.7					---				m		23561	
KBN	1.18	132.0	Pg	13:17:19.759	-0.2					---				m		23560	
IGT	1.96	164.0	Sn	13:17:56.047	-1.6					---				m		23563	
IGT	1.96	164.0	Pn	13:17:31.334	-0.9					---				m		23562	
NOCI	2.04	253.0	Sn	13:17:59.424	-0.3					---				m		23565	
NOCI	2.04	253.0	Pn	13:17:34.282	0.9					---				m		23564	

DATA\_TYPE COMMENT GSE2.1  
Event 1766

Official Magnitude:  
Ml 2.93

Error ellipse:

	Azim	Dip	Mag
Max:	193	43	6.0200
Intermediate:	23	46	3.0500
Min:	288	5	1.8900

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115334 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1767 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/26	14:33:50.79		0.12	41.7320	19.4308				11.5	0.7	6	8	279	1.03	2.30	m	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.3	0.0	3	1836
Md	3.2	0.0	3	1836

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.50	0.0	Pg	14:34:03.463	0.0					---				m		23574
TIR	0.50	139.0	S	14:34:06.897	-1.4					---				m		23567
TIR	0.50	139.0	AMl	14:34:08.880						---		1.1	0.20	a	Ml	2.3
BPA1	1.02	170.0	Sg	14:34:25.519	-0.0					---				m		23569
BPA1	1.02	170.0	Pg	14:34:10.687	0.1					---				m		23568
BPA1	1.02	170.0	AMl	14:34:31.560						---		0.2	0.42	a	Ml	2.2
BPA1	1.02	170.0	AMd	14:35:23.668						---		0.0	72.98	a	Md	3.2
NOCI	2.02	243.0	Sn	14:34:55.726	0.1					---				m		23571
NOCI	2.02	243.0	Pn	14:34:27.687	-0.2					---				m		23570
NOCI	2.02	243.0	AMl	14:35:10.570						---		0.1	0.36	a	Ml	2.4
NOCI	2.02	243.0	AMd	14:35:37.460						---		0.0	69.77	a	Md	3.2
IGT	2.30	162.0	Sg	14:35:02.888	-0.1					---				m		23573
IGT	2.30	162.0	Pn	14:34:32.320	0.3					---				m		23572
IGT	2.30	162.0	AMd	14:35:36.896						---		0.0	64.58	a	Md	2.6

DATA\_TYPE COMMENT GSE2.1  
Event 1767

Official Magnitude:  
Ml 2.30

Error ellipse:

	Azim	Dip	Mag
Max:	39	19	1.1200
Intermediate:	181	66	0.8100
Min:	304	14	0.3700

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115334 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1768 4.8 km from Mullini i Danit, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/26	14:49:01.81		0.31	41.4738	19.4883				6.3	16.8	5	7	222	0.31	2.04	m	
																	1837

Magnitude	Err	Nsta	Author	OrigID
Ml	2.4	0.0	4	1837
Md	2.5	0.0	3	1837

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.31	113.0	Sg	14:49:12.477	-0.3					---				m		23576
TIR	0.31	113.0	Pg	14:49:08.652	0.6					---				m		23575
TIR	0.31	113.0	AM1	14:49:13.370						---		2.1	0.26	a	M1	2.3
TIR	0.31	113.0	AMd	14:49:35.928						---		0.0	27.28	a	Md	2.1
NOCI	1.95	251.0	Sn	14:50:04.168	-1.8					---				m		23578
NOCI	1.95	251.0	Pn	14:49:38.385	-0.1					---				m		23577
NOCI	1.95	251.0	AM1	14:50:12.490						---		0.1	0.32	a	M1	2.4
NOCI	1.95	251.0	AMd	14:50:45.571						---		0.0	67.19	a	Md	3.2
IGT	2.04	161.0	Sn	14:50:08.500	0.2					---				m		23580
IGT	2.04	161.0	Pn	14:49:39.545	-0.3					---				m		23579
IGT	2.04	161.0	AMd	14:50:40.339						---		0.0	60.79	a	Md	2.5
KBN			AM1	14:49:48.800						---		0.3	0.62	a	M1	2.5
BPA2			AM1	14:49:36.230						---		0.2	0.06	a	M1	2.0

DATA\_TYPE COMMENT GSE2.1  
Event 1768

Official Magnitude:  
M1 2.37

Error ellipse:

	Azim	Dip	Mag
Max:	22	41	25.4000
Intermediate:	167	42	1.6700
Min:	275	19	0.9600

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115334 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1769 0.6 km from Bishtkamzë, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/26	18:41:45.52		0.09	41.4050	19.4302				20.5	2.8	5	6	234	1.29	1.99	m	1838

Magnitude	Err	Nsta	Author	OrigID
M1	2.0	0.0	3	1838
Md	2.9	0.0	2	1838

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.33	0.0	Pg	18:41:51.454	0.0					---				m		23587
TIR	0.33	99.0	Sg	18:41:56.131	-1.9					---				m		23581
TIR	0.33	99.0	AM1	18:41:56.420						---		0.4	0.28	a	M1	1.7

KBN	1.29	126.0	Sn	18:42:26.749	-0.2	---												m				23582	
KBN	1.29	126.0	AMl	18:42:34.080		---												0.1	0.38	a	Ml	2.0	12240
NOCI	1.89	252.0	Sn	18:42:45.391	-0.1	---																	23584
NOCI	1.89	252.0	Pn	18:42:19.774	0.0	---																	23583
NOCI	1.89	252.0	AMd	18:43:32.890		---												0.0	73.12	a	Md	3.2	12237
IGT	1.99	159.0	Sn	18:42:48.054	-0.0	---																	23586
IGT	1.99	159.0	Pn	18:42:21.246	-0.0	---																	23585
IGT	1.99	159.0	AMl	18:42:53.560		---												0.1	1.22	a	Ml	2.3	12241
IGT	1.99	159.0	AMd	18:43:33.406		---												0.0	72.16	a	Md	2.6	12238

DATA\_TYPE COMMENT GSE2.1  
Event 1769

Official Magnitude:  
Ml 1.97

Error ellipse:

	Azim	Dip	Mag
Max:	28	38	4.4300
Intermediate:	182	48	0.7000
Min:	287	13	0.2400

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115334 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1771 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/27	03:04:39.56		1.16	41.5363	19.3847				45.1	8.8	10	15	214	1.07	2.72	m	1840

Magnitude	Err	Nsta	Author	OrigID
Ml	2.3	0.0	4	1840

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.37	0.0	Pg	03:04:45.915	0.0					---						23615	
TIR	0.41	117.0	Sg	03:04:47.988	-9.4					---						23604	
TIR	0.41	117.0	AMl	03:04:52.050						---		0.7	0.20	a	Ml	2.2	12253
TIR	0.41	117.0	AMl	03:04:51.030						---		0.6	0.18	a	Ml	2.1	12252
VLO	1.07	175.0	Sg	03:05:13.411	-0.1					---						23606	
VLO	1.07	175.0	Pg	03:04:58.552	-0.4					---						23605	
VLO	1.07	175.0	AMl	03:05:22.280						---		0.3	0.30	a	Ml	2.4	12254
KBN	1.40	130.0	Sn	03:05:22.414	-0.2					---						23608	
KBN	1.40	130.0	Pn	03:05:01.695	-2.5					---						23607	
KBN	1.40	130.0	AMl	03:05:24.730						---		0.1	0.56	a	Ml	2.2	12255

NOCI	1.90	248.0	Sn	03:05:35.470	-1.0	---											m	23610
NOCI	1.90	248.0	Pn	03:05:16.508	4.4	---											m	23609
NOCI	1.90	248.0	AMl	03:05:54.250		---					0.1	0.36	a	Ml	2.5			12257
NOCI	1.90	248.0	AMl	03:05:48.060		---					0.1	0.18	a	Ml	2.4			12256
IGT	2.13	159.0	Sn	03:05:42.680	0.4	---											m	23612
IGT	2.13	159.0	Pn	03:05:17.299	1.9	---											m	23611
SGRT	2.72	276.0	S	03:05:57.313	-0.3	---											m	23614
SGRT	2.72	276.0	Pn	03:05:25.356	1.2	---											m	23613

DATA\_TYPE COMMENT GSE2.1  
Event 1771

Official Magnitude:  
Ml 2.27

Error ellipse:

	Azim	Dip	Mag
Max:	197	68	9.4800
Intermediate:	29	21	5.7700
Min:	297	4	2.3200

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115334 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1773 1.2 km from Porto-Romano, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/28	14:21:47.18		0.56	41.3730	19.4412				45.0	2.6	14	11	205	0.66	2.79	m	1843

Magnitude	Err	Nsta	Author	OrigID
Ml	3.6	0.0	7	1843

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
TIR	0.35	0.0	Pg	14:21:52.639	0.0					---						m	23657
TIR	0.32	94.0	Sg	14:21:55.667	-7.4					---						m	23641
TIR	0.32	94.0	AMl	14:21:56.180						---		19.9	0.22	a	Ml	3.6	12271
TIR	0.32	94.0	AMl	14:21:56.970						---		24.2	0.36	a	Ml	3.7	12270
BPA2	0.66	168.0	Pg	14:22:01.095	0.2					---						m	23643
BPA2	0.66	168.0	Sg	14:22:08.161	-3.0					---						m	23642
BPA2	0.66	168.0	AMl	14:22:10.080						---		2.0	0.42	a	Ml	2.9	12272
BPA1	0.67	165.0	Sg	14:22:11.405	-0.1					---						m	23645
BPA1	0.67	165.0	Pg	14:22:00.951	-0.1					---						m	23644
BPA1	0.67	165.0	AMl	14:22:33.210						---		0.8	0.60	a	Ml	2.5	12274
BPA1	0.67	165.0	AMl	14:22:21.910						---		2.4	0.64	a	Ml	3.0	12273

VLO	0.90	177.0	Sg	14:22:16.431	-0.2	---											m		23647
VLO	0.90	177.0	Pg	14:22:06.311	2.3	---											m		23646
VLO	0.90	177.0	AM1	14:22:22.440		---				8.0	0.40	a	M1	3.7				12276	
VLO	0.90	177.0	AM1	14:22:29.030		---				7.9	0.54	a	M1	3.7				12275	
KBN	1.26	125.0	Sn	14:22:26.922	0.1	---											m		23649
KBN	1.26	125.0	Pn	14:22:10.511	0.7	---											m		23648
KBN	1.26	125.0	AM1	14:22:31.510		---				3.0	0.48	a	M1	3.5				12277	
NOCI	1.89	253.0	Sn	14:22:44.585	0.9	---											m		23651
NOCI	1.89	253.0	Pn	14:22:19.386	-0.1	---											m		23650
NOCI	1.89	253.0	AM1	14:22:58.200		---				1.7	0.44	a	M1	3.7				12279	
NOCI	1.89	253.0	AM1	14:22:59.010		---				1.5	0.38	a	M1	3.6				12278	
IGT	1.96	159.0	Sn	14:22:45.544	-0.0	---											m		23653
IGT	1.96	159.0	Pn	14:22:20.598	0.1	---											m		23652
LKD2	2.74	159.0	Pn	14:22:30.697	-1.4	---											m		23654
LKD2	2.74	159.0	AM1	14:23:06.400		---				0.3	0.20	a	M1	3.3				12280	
SGRT	2.79	280.0	Sn	14:23:06.151	-0.7	---											m		23656
SGRT	2.79	280.0	Pn	14:22:32.852	0.1	---											m		23655

DATA\_TYPE COMMENT GSE2.1  
Event 1773

Official Magnitude:  
M1 3.57

Error ellipse:

	Azim	Dip	Mag
Max:	200	49	3.4100
Intermediate:	38	38	2.1400
Min:	301	9	0.9900

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115333 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1775 1.0 km from Vadardhë, Durrës, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/29	22:31:23.57		0.01	41.4057	19.5485				24.5	0.5	4	5	210	0.24	1.98	m	1845

Magnitude	Err	Nsta	Author	OrigID
M1	1.9	0.0	2	1845

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.27	0.0	Pg	22:31:28.250	0.0					---				mc		23670
TIR	0.24	103.0	Sg	22:31:33.389	0.0					---				m		23665

TIR	0.24	103.0	AM1	22:31:34.820	---	0.3	0.20	a__	M1	1.6	12287
IGT	1.96	162.0	Sn	22:32:24.780	-0.0	---	---	m__	---	---	23667
IGT	1.96	162.0	Pn	22:31:59.056	0.5	---	---	m__	---	---	23666
NOCI	1.98	253.0	Sn	22:32:25.062	-0.0	---	---	m__	---	---	23669
NOCI	1.98	253.0	Pn	22:31:58.720	0.0	---	---	m__	---	---	23668
NOCI	1.98	253.0	AM1	22:32:31.640	---	0.1	0.56	a__	M1	2.3	12288

DATA\_TYPE COMMENT GSE2.1  
Event 1775

Official Magnitude:  
M1 1.92

Error ellipse:

	Azim	Dip	Mag
Max:	25	54	0.6200
Intermediate:	177	32	0.0600
Min:	276	14	0.0300

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115333 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1776 0.8 km from Dardhë, Lezhë, Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/30	00:51:40.18		0.29	41.9835	20.2302				25.6	1.4	7	7	277	0.69	2.66	m	
1846																	

Magnitude	Err	Nsta	Author	OrigID
M1	2.7	0.0	3	1846

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.69	0.0	Pg	00:51:53.111	0.0									mc__		23680
TIR	0.69	204.0	Sg	00:52:04.042	0.1									m__		23671
TIR	0.69	204.0	AM1	00:52:04.540								0.5	0.32	a__	M1	2.3
KBN	1.42	162.0	Sg	00:52:25.803	0.1									m__		23673
KBN	1.42	162.0	Pg	00:52:05.759	-0.4									m__		23672
VLO	1.61	201.0	Sn	00:52:30.596	-0.1									m__		23675
VLO	1.61	201.0	Pn	00:52:11.821	2.8									m__		23674
VLO	1.61	201.0	AM1	00:52:38.240								0.6	0.54	a__	M1	3.0
IGT	2.45	178.0	Sn	00:52:53.585	-0.1									m__		23677
IGT	2.45	178.0	Pn	00:52:22.786	0.6									m__		23676
NOCI	2.66	245.0	Sn	00:52:57.459	-1.8									m__		23679
NOCI	2.66	245.0	Pn	00:52:25.254	-0.1									m__		23678
NOCI	2.66	245.0	AM1	00:53:02.140								0.1	0.24	a__	M1	2.7

DATA\_TYPE COMMENT GSE2.1  
 Event 1776

Official Magnitude:  
 Ml 2.70

Error ellipse:

	Azim	Dip	Mag
Max:	223	53	1.7500
Intermediate:	31	35	1.3900
Min:	125	6	1.1700

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115333 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1777 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/30	23:48:43.23		1.03	41.5327	19.5855				25.0	3.1	11	15	215	0.28	2.88	m	1847

Magnitude	Err	Nsta	Author	OrigID
Ml	2.1	0.0	4	1847

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
TIR	0.29	0.0	Pg	23:48:52.381	0.0											23694
TIR	0.28	131.0	Sg	23:48:53.478	-1.4											23681
TIR	0.28	131.0	AMl	23:48:55.530								0.8	0.30	a__	Ml	2.0
TIR	0.28	131.0	AMl	23:48:56.250								0.5	0.14	a__	Ml	1.8
VLO	1.06	184.0	Sg	23:49:17.949	0.7											23683
VLO	1.06	184.0	Pg	23:49:02.456	-0.2											23682
VLO	1.06	184.0	AMl	23:49:27.070								0.5	0.60	a__	Ml	2.5
VLO	1.06	184.0	AMl	23:49:23.620								0.3	0.44	a__	Ml	2.4
KBN	1.28	134.0	Sn	23:49:22.937	-1.5											23685
KBN	1.28	134.0	Pn	23:49:08.041	1.2											23684
KEK	1.82	174.0	Pn	23:49:20.411	4.3											23686
NOCI	2.04	250.0	Sn	23:49:45.233	-1.2											23688
NOCI	2.04	250.0	Pn	23:49:24.243	4.9											23687
NOCI	2.04	250.0	AMl	23:49:57.340								0.0	0.34	a__	Ml	2.2
IGT	2.08	163.0	Sn	23:49:47.636	0.4											23690
IGT	2.08	163.0	Pn	23:49:21.368	1.6											23689
IGT	2.08	163.0	AMl	23:49:55.100								0.0	0.46	a__	Ml	2.0
LKD2	2.86	162.0	Pn	23:49:30.730	-0.6											23691
SGRT	2.88	276.0	Sn	23:50:02.221	-5.6											23693



SGRT 2.88 276.0 Pn 23:49:31.719 0.2 \_\_\_\_\_ m\_\_ 23692

DATA\_TYPE COMMENT GSE2.1  
Event 1777

Official Magnitude:  
Ml 2.10

Error ellipse:

	Azim	Dip	Mag
Max:	46	40	4.8300
Intermediate:	177	37	4.0000
Min:	290	27	1.9200

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

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115689 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1652 3.1 km from KarvounẴri, Epirus, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/04	12:29:46.94		0.14	39.3673	20.4990				5.6	2.3	7	9	155	0.21	1.57	m	1713

Magnitude	Err	Nsta	Author	OrigID
Ml	2.2	0.0	1	1713

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
IGT	0.21	322.0	Sg	12:29:55.156	0.1					_____				m		22085
IGT	0.21	322.0	Pg	12:29:51.805	0.2					_____				md		22084

LKD2	0.59	167.0	Sg	12:30:07.953	0.1	---	m_	22087
LKD2	0.59	167.0	Pg	12:29:58.719	-0.2	---	mc_	22086
SRN	0.64	324.0	Sg	12:30:10.022	-0.1	---	m_	22089
SRN	0.64	324.0	Pg	12:29:59.438	-0.8	---	md_	22088
SRN	0.64	324.0	AM1	12:30:14.378		---		
FNA	1.57	25.0	Sn	12:30:39.852	0.0	---	0.5 0.24 a_ M1 2.2	11608
FNA	1.57	25.0	Pn	12:30:15.813	-1.4	---	m_	22091
						---	mc_	22090

DATA\_TYPE COMMENT GSE2.1  
Event 1652

Official Magnitude:  
Ml 2.16

Error ellipse:

	Azim	Dip	Mag
Max:	237	78	2.3200
Intermediate:	71	11	0.7300
Min:	340	3	0.3200

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115688 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1659 2.8 km from Apraos, Ionian Islands, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/08	19:57:36.71		0.03	39.8177	19.9045				7.9	0.9	10	6	165	0.10	2.38	m	1720

Magnitude	Err	Nsta	Author	OrigID
Ml	2.9	0.0	3	1720
Md	2.4	0.0	6	1720

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
SRN	0.10	49.0	Sg	19:57:41.864	0.0					---				m_		22160
SRN	0.10	49.0	Pg	19:57:39.590	-0.1					---				m_		22159
SRN	0.10	49.0	AM1	19:57:42.358						---		17.1	0.26	a_ M1	2.9	11641
SRN	0.10	49.0	AMd	19:58:09.534						---		0.0	29.94	a_ Md	1.6	11635
IGT	0.44	130.0	Sg	19:57:52.376	0.0					---				m_		22162
IGT	0.44	130.0	Pg	19:57:45.657	0.0					---				m_		22161
IGT	0.44	130.0	AMd	19:58:37.850						---		0.0	52.19	a_ Md	2.2	11636
VLO	0.72	335.0	Sn	19:58:00.094	-0.7					---				m_		22164
VLO	0.72	335.0	Pn	19:57:50.492	0.1					---				m_		22163
VLO	0.72	335.0	AM1	19:58:08.718						---		1.8	0.40	a_ M1	2.8	11642
VLO	0.72	335.0	AMd	19:58:45.075						---		0.0	54.58	a_ Md	2.9	11637

KBN	1.05	39.0	Sn	19:58:12.155	-0.0	---	m_	22166
KBN	1.05	39.0	Pn	19:57:57.005	0.0	---	m_	22165
KBN	1.05	39.0	AMd	19:58:52.145		---	0.0 55.14 a_ Md	2.3 11638
FNA	1.49	49.0	Pn	19:58:05.314	0.0	---	m_	22167
FNA	1.49	49.0	AMd	19:59:14.195		---	0.0 68.88 a_ Md	2.6 11639
NOCI	2.38	295.0	Sn	19:58:52.144	-0.0	---	m_	22169
NOCI	2.38	295.0	Pn	19:58:19.775	-0.0	---	m_	22168
NOCI	2.38	295.0	AM1	19:58:59.778		---	0.5 0.42 a_ M1	3.4 11643
NOCI	2.38	295.0	AMd	19:59:48.327		---	0.0 88.55 a_ Md	3.5 11640

DATA\_TYPE COMMENT GSE2.1  
Event 1659

Official Magnitude:  
M1 2.94

Error ellipse:

	Azim	Dip	Mag
Max:	72	59	1.0400
Intermediate:	187	14	0.3900
Min:	284	27	0.3000

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115687 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1662 2.1 km from Korisos, West Macedonia, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/11	02:41:20.86		0.10	40.4977	21.3545				0.2	1.7	9	7	216	0.29	1.43	m	1723

Magnitude	Err	Nsta	Author	OrigID
M1	1.8	0.0	2	1723

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
NEST	0.25	0.0	Pg	02:41:25.278	0.0					---				mci		22212
NEST	0.25	251.0	Sg	02:41:29.620	-1.3					---				m_		22202
NEST	0.25	251.0	AM1	02:41:29.690						---		1.0	0.12	a_ M1	1.9	11652
FNA	0.28	4.0	Sg	02:41:32.326	0.1					---				m_		22204
FNA	0.28	4.0	Pg	02:41:27.108	-0.3					---				mde		22203
KBN	0.45	287.0	Sg	02:41:37.254	0.0					---				m_		22206
KBN	0.45	287.0	Pg	02:41:29.833	-0.4					---				mce		22205
KBN	0.45	287.0	AM1	02:41:39.990						---		0.3	0.18	a_ M1	1.6	11653
SRN	1.21	240.0	Sn	02:42:04.005	0.0					---				m_		22208
SRN	1.21	240.0	Pn	02:41:45.509	0.0					---				mde		22207

IGT	1.24	220.0	Sn	02:42:04.612	-0.0	---	m	22210
IGT	1.24	220.0	Pn	02:41:45.953	0.1	---	mce	22209
KEK	1.43	238.0	Pn	02:41:49.402	0.1	---	mde	22211

DATA\_TYPE COMMENT GSE2.1  
Event 1662

Official Magnitude:  
Ml 1.79

Error ellipse:

	Azim	Dip	Mag
Max:	103	62	1.8500
Intermediate:	297	26	0.6700
Min:	204	6	0.2900

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115687 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1666 2.1 km from Kostarazi, West Macedonia, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/11	07:36:08.21		0.05	40.4442	21.3878				4.1	2.0	6	5	243	0.26	1.20	m	1727

Magnitude	Err	Nsta	Author	OrigID
Ml	1.9	0.0	3	1727
Md	2.0	0.0	4	1727

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
NEST	0.26	264.0	Sg	07:36:17.904	-0.4					---				m		22239
NEST	0.26	264.0	Pg	07:36:13.912	-0.1					---				m		22238
NEST	0.26	264.0	AMl	07:36:19.288						---		1.4	0.16	a	Ml	2.1
NEST	0.26	264.0	AMd	07:36:50.729						---		0.0	36.82	a	Md	2.4
FNA	0.34	0.0	Sg	07:36:20.839	-0.0					---				m		22241
FNA	0.34	0.0	Pg	07:36:15.516	0.1					---				m		22240
FNA	0.34	0.0	AMd	07:36:58.444						---		0.0	42.93	a	Md	2.0
KBN	0.49	292.0	Sg	07:36:25.250	0.0					---				m		22243
KBN	0.49	292.0	Pg	07:36:17.936	0.0					---				m		22242
KBN	0.49	292.0	AMl	07:36:29.498						---		0.5	0.26	a	Ml	1.9
KBN	0.49	292.0	AMd	07:36:48.190						---		0.0	30.25	a	Md	1.6
SRN	1.20	243.0	Sn	07:36:50.498	0.0					---				m		22245
SRN	1.20	243.0	Pn	07:36:32.009	-0.4					---				m		22244
SRN	1.20	243.0	AMl	07:36:54.908						---		0.1	0.30	a	Ml	1.7
SRN	1.20	243.0	AMd	07:37:14.452						---		0.0	42.44	a	Md	2.0

DATA\_TYPE COMMENT GSE2.1  
Event 1666

Official Magnitude:  
Ml 1.88

Error ellipse:

	Azim	Dip	Mag
Max:	124	69	2.0900
Intermediate:	308	20	0.8500
Min:	218	1	0.3300

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115687 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1669 2.6 km from Krepeni, West Macedonia, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/11	09:49:58.33		0.04	40.4772	21.3538				10.8	1.1	6	5	237	0.24	1.20	m	

Magnitude	Err	Nsta	Author	OrigID
Ml	1.7	0.0	3	1730
Md	2.0	0.0	4	1730

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
NEST	0.24	256.0	Sg	09:50:07.681	-0.0					---				m		22261	
NEST	0.24	256.0	Pg	09:50:03.396	-0.3					---				m		22260	
NEST	0.24	256.0	AMl	09:50:09.228						---		1.8	0.22	a	Ml	2.2	11681
NEST	0.24	256.0	AMd	09:50:49.968						---		0.0	46.57	a	Md	2.7	11677
FNA	0.30	4.0	Sg	09:50:09.434	-0.3					---				m		22263	
FNA	0.30	4.0	Pg	09:50:04.846	-0.0					---				m		22262	
FNA	0.30	4.0	AMd	09:50:52.330						---		0.0	47.48	a	Md	2.1	11678
KBN	0.46	289.0	Sg	09:50:13.885	-0.0					---				m		22265	
KBN	0.46	289.0	Pg	09:50:07.327	0.1					---				m		22264	
KBN	0.46	289.0	AMl	09:50:20.008						---		0.3	0.50	a	Ml	1.7	11682
KBN	0.46	289.0	AMd	09:50:39.830						---		0.0	32.50	a	Md	1.7	11679
SRN	1.20	241.0	Sn	09:50:39.777	0.0					---				m		22267	
SRN	1.20	241.0	Pn	09:50:21.959	-0.0					---				m		22266	
SRN	1.20	241.0	AMl	09:50:44.038						---		0.0	0.28	a	Ml	1.4	11683
SRN	1.20	241.0	AMd	09:50:59.652						---		0.0	37.69	a	Md	1.9	11680

DATA\_TYPE COMMENT GSE2.1  
Event 1669

Official Magnitude:

Ml 1.73

Error ellipse:

	Azim	Dip	Mag
Max:	326	51	1.4400
Intermediate:	120	35	0.6500
Min:	219	13	0.4100

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115686 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1670 1.2 km from Neo Kostarazi, West Macedonia, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/11	10:02:15.57		0.11	40.4425	21.3210				25.0	2.4	5	5	256	0.21	0.45	m	
OrigID 1731																	

Magnitude	Err	Nsta	Author	OrigID
Ml	2.0	0.0	1	1731
Md	1.9	0.0	3	1731

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
NEST	0.21	263.0	Sg	10:02:25.828	-0.2					---				m		22269	
NEST	0.21	263.0	Pg	10:02:21.660	0.1					---				m		22268	
NEST	0.21	263.0	AMl	10:02:27.048						---		0.8	0.28	a	Ml	2.0	11687
NEST	0.21	263.0	AMd	10:02:54.063						---		0.0	32.40	a	Md	2.3	11684
FNA	0.34	7.0	Sn	10:02:29.379	-0.1					---				m		22271	
FNA	0.34	7.0	Pg	10:02:23.520	0.0					---				m		22270	
FNA	0.34	7.0	AMd	10:02:56.690						---		0.0	33.17	a	Md	1.7	11685
KBN	0.45	295.0	Sg	10:02:31.672	0.1					---				m		22273	
KBN	0.45	295.0	Pg	10:02:23.852	-0.9					---				m		22272	
KBN	0.45	295.0	AMd	10:03:03.971						---		0.0	40.12	a	Md	1.9	11686

DATA\_TYPE COMMENT GSE2.1  
 Event 1670

Official Magnitude:

Ml 1.95

Error ellipse:

	Azim	Dip	Mag
Max:	185	81	2.3900
Intermediate:	319	6	1.3100

Min: 50 6 0.6100

BEGIN GSE2.1  
MSG\_TYPE DATA  
MSG\_ID 1572115345 athena  
DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1673 2.1 km from Elati, Epirus, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/12	18:56:34.63		0.07	39.8170	20.7683				7.0	12.3	11	7	160	0.44	1.07	m	1734

Magnitude	Err	Nsta	Author	OrigID
Ml	1.9	0.0	1	1734
Md	2.2	0.0	6	1734

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
IGT	0.44	231.0	Sg	18:56:50.875	0.3					---				m		22299	
IGT	0.44	231.0	Pg	18:56:43.620	-0.1					---				m		22298	
IGT	0.44	231.0	AMd	18:57:33.238						---		0.0	49.62	a	Md	2.1	11692
SRN	0.59	277.0	Sg	18:56:56.296	0.0					---				m		22301	
SRN	0.59	277.0	Pg	18:56:46.841	-0.2					---				m		22300	
SRN	0.59	277.0	AMd	18:57:36.356						---		0.0	49.51	a	Md	2.2	11693
NEST	0.63	19.0	Sg	18:56:56.960	-0.0					---				m		22303	
NEST	0.63	19.0	Pg	18:56:47.301	-0.1					---				m		22302	
NEST	0.63	19.0	AMl	18:57:05.700						---		0.3	0.36	a	Ml	1.9	11698
NEST	0.63	19.0	AMd	18:57:48.422						---		0.0	61.12	a	Md	3.0	11694
KBN	0.81	1.0	Sg	18:57:01.847	0.0					---				m		22305	
KBN	0.81	1.0	Pg	18:56:50.227	0.1					---				m		22304	
KBN	0.81	1.0	AMd	18:57:37.396						---		0.0	47.17	a	Md	2.1	11695
LKD2	1.03	185.0	Sg	18:57:10.143	-0.0					---				m		22307	
LKD2	1.03	185.0	Pg	18:56:55.020	0.1					---				m		22306	
LKD2	1.03	185.0	AMd	18:57:38.644						---		0.0	43.62	a	Md	2.1	11696
FNA	1.07	25.0	Sg	18:57:11.640	0.1					---				m		22309	
FNA	1.07	25.0	Pg	18:56:55.749	0.0					---				m		22308	
FNA	1.07	25.0	AMd	18:58:01.117						---		0.0	65.37	a	Md	2.5	11697

DATA\_TYPE COMMENT GSE2.1  
Event 1673

Official Magnitude:  
Ml 1.88

Error ellipse:

	Azim	Dip	Mag
Max:	287	89	12.2600

Intermediate: 111 0 0.4800  
 Min: 201 0 0.2400

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115345 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1677 0.5 km from Treboľ, Zhelino, North Macedonia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/19	03:06:25.34		0.27	42.0117	21.0377				9.4	20.5	4	4	339	1.26	1.66	m	1738

Magnitude	Err	Nsta	Author	OrigID
M1	2.8	0.0	1	1738

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID	
FNA	1.26	167.0	S	03:07:07.784	0.2					---				m		22340	
FNA	1.26	167.0	Pg	03:06:49.472	-0.0					---				m		22339	
KBN	1.40	188.0	Sg	03:07:11.477	0.3					---				m		22342	
KBN	1.40	188.0	P	03:06:49.656	-1.9					---				m		22341	
NEST	1.66	0.0	Pg	03:06:53.407	0.0					---				m		22344	
NEST	1.60	179.0	Sg	03:07:17.692	-0.4					---				m		22343	
NEST	1.60	179.0	AM1	03:07:19.020						---		0.4	0.78	a	M1	2.8	11709

DATA\_TYPE COMMENT GSE2.1  
 Event 1677

Official Magnitude:  
 M1 2.83

Error ellipse:

	Azim	Dip	Mag
Max:	357	68	22.1200
Intermediate:	108	8	3.8200
Min:	201	20	2.2800

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115334 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1770 0.9 km from Manassis, Epirus, Greece



Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/27	02:20:17.86		0.45	39.7835	20.8172				9.5	2.6	14	15	99	0.45	2.74	m	

Magnitude	Err	Nsta	Author	OrigID
M1	3.1	0.0	8	1839

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
IGT	0.45	237.0	Sg	02:20:32.965	-0.7									m		23589
IGT	0.45	237.0	Pg	02:20:26.237	-0.6									m		23588
IGT	0.45	237.0	AM1	02:20:34.290								12.3	0.20	a	M1	3.3
KEK	0.79	266.0	Pg	02:20:35.266	1.9									m		23590
KBN	0.84	359.0	Sg	02:20:45.643	-0.1									m		23592
KBN	0.84	359.0	Pg	02:20:34.301	0.5									m		23591
KBN	0.84	359.0	AM1	02:20:53.100								1.7	0.38	a	M1	2.9
LKD2	1.00	188.0	Sn	02:20:52.421	0.5									m		23594
LKD2	1.00	188.0	Pn	02:20:37.757	0.4									m		23593
LKD2	1.00	188.0	AM1	02:20:57.780								2.9	0.42	a	M1	3.3
VLO	1.22	305.0	Sg	02:20:57.942	0.1									m		23596
VLO	1.22	305.0	Pg	02:20:41.431	0.7									m		23595
VLO	1.22	305.0	AM1	02:21:02.040								6.5	0.56	a	M1	3.8
BPA1	1.29	317.0	Sg	02:21:01.567	0.3									m		23598
BPA1	1.29	317.0	Pg	02:20:42.102	-0.6									m		23597
BPA1	1.29	317.0	AM1	02:21:17.490								0.6	0.64	a	M1	2.8
TIR	1.71	0.0	Pg	02:20:49.574	0.0									m		23603
TIR	1.72	336.0	Sg	02:21:14.520	-0.1									m		23599
TIR	1.72	336.0	AM1	02:21:26.380								0.6	0.66	a	M1	3.1
TIR	1.72	336.0	AM1	02:21:24.820								0.8	0.94	a	M1	3.2
THE	1.85	62.0	Sn	02:21:18.042	-0.5									m		23601
THE	1.85	62.0	Pn	02:20:52.565	0.1									m		23600
THE	1.85	62.0	AM1	02:21:24.980								0.3	0.74	a	M1	2.9
THE	1.85	62.0	AM1	02:21:30.690								0.2	0.52	a	M1	2.8
ITM	2.74	161.0	Pn	02:21:04.632	-1.2									m		23602
NOCI			AM1	02:21:53.540								0.8	0.32	a	M1	3.9

DATA\_TYPE COMMENT GSE2.1  
Event 1770

Official Magnitude:  
M1 3.14

Error ellipse:

	Azim	Dip	Mag
Max:	182	79	2.6100
Intermediate:	278	1	0.8600
Min:	8	11	0.6500

BEGIN GSE2.1  
 MSG\_TYPE DATA  
 MSG\_ID 1572115334 athena  
 DATA\_TYPE BULLETIN GSE2.1:SHORT

Event 1774 Region N/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/29	10:53:55.11		0.33	39.2848	20.8435				25.1	1.6	6	7	255	0.47	3.27	m	1844

Magnitude	Err	Nsta	Author	OrigID
Ml	2.5	0.0	3	1844
Md	2.2	0.0	3	1844

Sta	Dist	EvAz	Phase	Time	Tres	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
IGT	0.47	302.0	Sg	10:54:12.019	-0.1											23659
IGT	0.47	302.0	Pg	10:54:04.340	-0.5											23658
IGT	0.47	302.0	AMd	10:54:54.477								0.0	50.14	a	Md	2.1
LKD2	0.52	197.0	Sg	10:54:13.420	-0.1											23661
LKD2	0.52	197.0	Pg	10:54:05.674	0.0											23660
LKD2	0.52	197.0	AMl	10:54:20.140								0.7	0.40	a	Ml	2.2
LKD2	0.52	197.0	AMd	10:55:00.474								0.0	54.80	a	Md	2.2
KEK	0.92	299.0	Sg	10:54:28.538	2.7											23663
KEK	0.92	299.0	Pg	10:54:14.251	1.6											23662
KEK	0.92	299.0	AMl	10:54:34.820								1313.0	0.24	a	Ml	5.9
KEK	0.92	299.0	AMd	10:55:05.700								0.0	51.45	a	Md	2.8
NOCI	3.27	299.0	Sn	10:55:29.658	-0.1											23664
NOCI	3.27	299.0	AMl	10:55:32.750								0.0	0.06	a	Ml	2.5

DATA\_TYPE COMMENT GSE2.1  
 Event 1774

Official Magnitude:  
 Ml 2.50

Error ellipse:

	Azim	Dip	Mag
Max:	70	2	3.9300
Intermediate:	169	76	1.6500
Min:	340	14	0.7400

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
2019-09-21			14:09	06.39								TIR
GAP=					hor.err=		ver.err=					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		14:09:06.39						
TIR	SE	ISG		14:09:10.02						

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			14:13:00.79									TIR
GAP=					hor.err=		ver.err=					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		14:13:00.79						
TIR	SE	ISG		14:13:05.53						

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			14:14:33.56									TIR
GAP=					hor.err=		ver.err=					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md

TIR SZ IPG 14:14:33.56  
TIR SE ISG 14:14:38.02

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 14:17:50.85 TIR  
GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 14:17:50.85  
TIR SE ISG 14:17:53.99

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 14:21:57.87 TIR  
GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 14:21:57.87  
TIR SE ISG 14:22:01.13

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 14:22:32.89 TIR  
GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 14:22:32.89  
TIR SE ISG 14:22:36.66

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 14:24:47.02 TIR  
GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 14:24:47.02

TIR SE ISG 14:24:53.68

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 14:38:41.36 TIR

GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md

TIR SZ IPG 14:38:41.36

TIR SE ISG 14:38:45.65

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 14:38:41.64 TIR

GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md

TIR SZ IPG 14:38:41.64

TIR SE ISG 14:38:44.55

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 14:43:11.00 TIR

GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md

TIR SZ IPG 14:43:11.00

TIR SE ISG 14:43:14.95

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 14:50:23.17 TIR

GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md

TIR SZ IPG 14:50:23.17

TIR SE ISG 14:50:28.31

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			14:57:25.89									TIR
GAP=				hor.err=			ver.err=					
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		14:57:25.89								
TIR	SE	ISG		14:57:29.82								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			15:00:12.14									TIR
GAP=				hor.err=			ver.err=					
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		15:00:12.14								
TIR	SE	ISG		15:00:16.26								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			15:04:32.99									TIR
GAP=				hor.err=			ver.err=					
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		15:04:32.99								
TIR	SE	ISG		15:04:37.51								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			15:09:14.22									TIR
GAP=				hor.err=			ver.err=					
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		15:09:14.22								
TIR	SE	ISG		15:09:17.49								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			15:17:46.41									TIR
GAP=					hor.err=			ver.err=				
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		15:17:46.41								
TIR	SE	ISG		15:17:49.21								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			15:21:42.91									TIR
GAP=					hor.err=			ver.err=				
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		15:21:42.91								
TIR	SE	ISG		15:21:46.69								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			15:24:29.43									TIR
GAP=					hor.err=			ver.err=				
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		15:24:29.43								
TIR	SE	ISG		15:24:33.99								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			15:27:56.56									TIR
GAP=					hor.err=			ver.err=				
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		15:27:56.56								
TIR	SE	ISG		15:27:56.56								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			15:29:07.15									TIR
GAP=					hor.err=			ver.err=				
STAT	SP	IPHASW	D	HRMM	SECON		AZIMU	RES	DIS	DUR		Md
TIR	SZ	IPG		15:29:07.15								
TIR	SE	ISG		15:29:11.12								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			15:33:47.23									TIR
GAP=					hor.err=			ver.err=				
STAT	SP	IPHASW	D	HRMM	SECON		AZIMU	RES	DIS	DUR		Md
TIR	SZ	IPG		15:33:47.23								
TIR	SE	ISG		15:33:51.71								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			15:36:50.48									TIR
GAP=					hor.err=			ver.err=				
STAT	SP	IPHASW	D	HRMM	SECON		AZIMU	RES	DIS	DUR		Md
TIR	SZ	IPG		15:36:50.48								
TIR	SE	ISG		15:36:54.62								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			15:37:05.42									TIR
GAP=					hor.err=			ver.err=				
STAT	SP	IPHASW	D	HRMM	SECON		AZIMU	RES	DIS	DUR		Md
TIR	SZ	IPG		15:37:05.42								
TIR	SE	ISG		15:37:08.86								



Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			15:40:30.00									TIR
GAP=				hor.err=						ver.err=		
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		15:40:30.00								
TIR	SE	ISG		15:40:33.84								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			15:42:37.82									TIR
GAP=				hor.err=						ver.err=		
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		15:42:37.82								
TIR	SE	ISG		15:42:41.80								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			15:43:21.30									TIR
GAP=				hor.err=						ver.err=		
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		15:43:21.30								
TIR	SE	ISG		15:43:25.74								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			15:44:40.28									TIR
GAP=				hor.err=						ver.err=		
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		15:44:40.28								
TIR	SE	ISG		15:43:25.74								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			15:51:24.82									TIR
GAP=				hor.err=						ver.err=		

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
 TIR SZ IPG 15:51:24.82  
 TIR SE ISG 15:51:29.04

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
 2019-09-21 15:52:14.55 TIR  
 GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
 TIR SZ IPG 15:52:14.55  
 TIR SE ISG 15:52:18.41

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
 2019-09-21 15:55:03.94 TIR  
 GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
 TIR SZ IPG 15:55:03.94  
 TIR SE ISG 15:55:08.27

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
 2019-09-21 16:01:19.26 TIR  
 GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
 TIR SZ IPG 16:01:19.26  
 TIR SE ISG 16:01:23.02

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
 2019-09-21 16:03:39.05 TIR  
 GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md

TIR SZ IPG 16:03:39.05  
TIR SE ISG 16:03:43.40

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
2019-09-21 16:05:19.90 TIR  
GAP= hor.err= ver.err=  
STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 16:05:19.90  
TIR SE ISG 16:05:23.61

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
2019-09-21 16:09:10.75 TIR  
GAP= hor.err= ver.err=  
STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 16:09:10.75  
TIR SE ISG 16:09:14.52

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
2019-09-21 16:14:01.82 TIR  
GAP= hor.err= ver.err=  
STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 16:14:01.82  
TIR SE ISG 16:14:06.07

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
2019-09-21 16:23:20.40 TIR  
GAP= hor.err= ver.err=  
STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 16:23:20.40

TIR SE ISG 16:23:24.25

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			16:30	28.81								TIR
GAP=			hor.err=		ver.err=							
STAT	SP	IPHASW	D	HRMM	SECON		AZIMU	RES	DIS	DUR	Md	
TIR	SZ	IPG		16:30	28.81							
TIR	SE	ISG		16:30	32.85							

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			16:35	26.67								TIR
GAP=			hor.err=		ver.err=							
STAT	SP	IPHASW	D	HRMM	SECON		AZIMU	RES	DIS	DUR	Md	
TIR	SZ	IPG		16:35	26.67							
TIR	SE	ISG		16:39	22.39							

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			16:39	19.06								TIR
GAP=			hor.err=		ver.err=							
STAT	SP	IPHASW	D	HRMM	SECON		AZIMU	RES	DIS	DUR	Md	
TIR	SZ	IPG		16:39	19.06							
TIR	SE	ISG		16:39	22.39							

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			16:40	32.05								TIR
GAP=			hor.err=		ver.err=							
STAT	SP	IPHASW	D	HRMM	SECON		AZIMU	RES	DIS	DUR	Md	
TIR	SZ	IPG		16:40	32.05							
TIR	SE	ISG		16:40	35.08							

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			16:44:32.72									TIR
GAP=				hor.err=						ver.err=		
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		16:44:32.72								
TIR	SE	ISG		16:44:37.56								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			16:47:06.57									TIR
GAP=				hor.err=						ver.err=		
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		16:47:06.57								
TIR	SE	ISG		16:47:10.77								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			17:01:14.60									TIR
GAP=				hor.err=						ver.err=		
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		17:01:14.60								
TIR	SE	ISG		17:01:18.06								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			17:08:19.21									TIR
GAP=				hor.err=						ver.err=		
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		17:08:19.21								
TIR	SE	ISG		17:08:22.74								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			17:09:15.36									TIR
GAP=				hor.err=						ver.err=		
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		17:09:15.36								
TIR	SE	ISG		17:09:20.49								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			17:14:20.18									TIR
GAP=				hor.err=						ver.err=		
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		17:14:20.18								
TIR	SE	ISG		17:14:23.53								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			17:15:02.19									TIR
GAP=				hor.err=						ver.err=		
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		17:15:02.19								
TIR	SE	ISG		17:15:05.07								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-21			17:18:15.21									TIR
GAP=				hor.err=						ver.err=		
STAT	SP	IPHASW	D	HRMM	SECON			AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		17:18:15.21								
TIR	SE	ISG		17:18:19.68								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2019-09-21 17:24:00.01 TIR  
 GAP= hor.err= ver.err=  
 STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
 TIR SZ IPG 17:24:00.01  
 TIR SE ISG 17:24:04.68

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
 2019-09-21 17:38:47.46 TIR  
 GAP= hor.err= ver.err=  
 STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
 TIR SZ IPG 17:38:47.46  
 TIR SE ISG 17:38:50.99

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
 2019-09-21 17:44:55.82 TIR  
 GAP= hor.err= ver.err=  
 STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
 TIR SZ IPG 17:44:55.82  
 TIR SE ISG 17:44:59.45

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
 2019-09-21 17:51:22.72 TIR  
 GAP= hor.err= ver.err=  
 STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
 TIR SZ IPG 17:51:22.72  
 TIR SE ISG 17:51:25.83

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 17:59:32.44 TIR  
GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 17:59:32.44  
TIR SE ISG 17:59:36.42

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 18:02:20.00 TIR  
GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 18:02:20.00  
TIR SE ISG 18:02:23.55

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 18:15:50.32 TIR  
GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 18:15:50.32  
TIR SE ISG 18:15:53.84

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 18:16:56.31 TIR  
GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 18:16:56.31  
TIR SE ISG 18:16:59.96

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 18:25:12.49 TIR





TIR SZ IPG 18:32:35.58  
TIR SE ISG 18:32:38.78

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
2019-09-21 18:37:37.42 TIR  
GAP= hor.err= ver.err=  
STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 18:37:37.42  
TIR SE ISG 18:37:40.56

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
2019-09-21 18:49:30.34 TIR  
GAP= hor.err= ver.err=  
STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 18:49:30.34  
TIR SE ISG 18:49:33.61

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
2019-09-21 18:51:09.93 TIR  
GAP= hor.err= ver.err=  
STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 18:51:09.93  
TIR SE ISG 18:51:13.65

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
2019-09-21 18:53:56.43 TIR  
GAP= hor.err= ver.err=  
STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 18:53:56.43

TIR SE ISG 18:54:00.89

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 19:02:16.95 TIR

GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md

TIR SZ IPG 19:02:16.95

TIR SE ISG 19:02:19.41

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 19:05:06.97 TIR

GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md

TIR SZ IPG 19:05:06.97

TIR SE ISG 19:05:11.10

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 19:08:25.62 TIR

GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md

TIR SZ IPG 19:08:25.62

TIR SE ISG 19:08:29.74

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 19:12:09.06 TIR

GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md

TIR SZ IPG 19:12:09.06

TIR SE ISG 19:12:13.15

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 19:13:31.03 TIR  
GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 19:13:31.03  
TIR SE ISG 19:13:35.63

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 19:18:00.38 TIR  
GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 19:18:00.38  
TIR SE ISG 19:18:04.30

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 19:24:52.52 TIR  
GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 19:24:52.52  
TIR SE ISG 19:24:55.90

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 19:35:37.69 TIR  
GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 19:35:37.69  
TIR SE ISG 19:35:41.72

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 19:46:28.22 TIR  
GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 19:46:28.22  
TIR SE ISG 19:46:31.51

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 19:52:48.18 TIR  
GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 19:52:48.18  
TIR SE ISG 19:52:51.30

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 19:56:53.32 TIR  
GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 19:56:53.32  
TIR SE ISG 19:57:02.42

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 19:59:05.76 TIR  
GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
TIR SZ IPG 19:59:05.76  
TIR SE ISG 19:59:08.91

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 20:04:43.67 TIR  
GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
 TIR SZ IPG 20:04:43.67  
 TIR SE ISG 20:04:46.92

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
 2019-09-21 20:08:15.83 TIR  
 GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
 TIR SZ IPG 20:08:15.83  
 TIR SE ISG 20:08:19.48

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
 2019-09-21 20:08:56.44 TIR  
 GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
 TIR SZ IPG 20:08:56.44  
 TIR SE ISG 20:09:00.10

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
 2019-09-21 20:13:23.74 TIR  
 GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
 TIR SZ IPG 20:13:23.74  
 TIR SE ISG 20:13:27.75

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
 2019-09-21 20:16:39.27 TIR  
 GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md  
 TIR SZ IPG 20:16:39.27

TIR SE ISG 20:16:42.93

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-21 20:20:56.54 TIR

GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md

TIR SZ IPG 20:20:56.54

TIR SE ISG 20:21:00.02

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-23 14:14:08.61 TIR

GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md

TIR SZ IPG 14:14:08.61

TIR SE ISG 14:14:16.93

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-23 10:43:10.06 TIR

GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md

TIR SZ IPG 10:43:10.06

TIR SE ISG 10:43:13.71

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter

2019-09-23 14:36:36.57 TIR

GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md

TIR SZ IPG 14:36:36.57

TIR SE ISG 14:36:41.14

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-24			10:43:10.06									TIR
GAP=					hor.err=			ver.err=				
STAT	SP	IPHASW	D	HRMM	SECON		AZIMU	RES	DIS	DUR	Md	
TIR	SZ	IPG		10:43:10.06								
TIR	SE	ISG		10:43:13.71								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-25			00:07:16.52									TIR
GAP=					hor.err=			ver.err=				
STAT	SP	IPHASW	D	HRMM	SECON		AZIMU	RES	DIS	DUR	Md	
TIR	SZ	IPG		00:07:16.52								
TIR	SE	ISG		00:07:20.43								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-25			01:28:30.03									TIR
GAP=					hor.err=			ver.err=				
STAT	SP	IPHASW	D	HRMM	SECON		AZIMU	RES	DIS	DUR	Md	
TIR	SZ	IPG		01:28:30.03								
TIR	SE	ISG		01:28:34.47								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2019-09-25			22:34:20.68									TIR
GAP=					hor.err=			ver.err=				
STAT	SP	IPHASW	D	HRMM	SECON		AZIMU	RES	DIS	DUR	Md	
TIR	SZ	IPG		01:28:30.03								
TIR	SE	ISG		01:28:34.47								

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2019-09-26 14:36:09.68 TIR  
GAP= hor.err= ver.err=

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		14:36:09.48						
TIR	SE	ISG		14:36:13.77						

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2019-09-27 12:37:17.26 TIR  
GAP= hor.err= ver.err=

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		12:37:17.26						
TIR	SE	ISG		12:37:22.98						

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2019-09-30 22:24:50.40 TIR  
GAP= hor.err= ver.err=

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		22:24:50.40						
TIR	SE	ISG		22:24:53.75						

**Katalogu i termeteve**    (Catalog of earthquakes)

Date time.Origin time	Rms	Lat	Long	Mag	Depth	D. err	N. st	N. ph	Gap
2019-09-01 03:18:59	0.09	40.436	20.732	2.1	15.4	0.8	7	9	146
2019-09-03 10:04:08	0.12	40.330	20.437	2.8	1	1.5	13	10	116
2019-09-03 10:04:08	0.12	40.330	20.437	2.8	1	1.5	13	10	116
2019-09-04 12:29:46	0.14	39.367	20.499	2.2	5.6	2.3	9	7	155
2019-09-05 17:47:35	0.22	40.096	19.730	4.2	14.4	1	11	17	140
2019-09-06 12:13:58	0.04	42.010	20.275	2.8	13.1	9.3	9	6	168
2019-09-07 05:09:25	0.37	40.689	20.709	2.9	7.9	2.1	10	10	120
2019-09-08 02:58:43	0.05	41.195	19.874	2.1	19.3	2.7	6	9	158
2019-09-08 03:40:56	0.01	41.851	20.186	1.4	2.9	2.2	6	4	173
2019-09-08 19:57:36	0.03	39.818	19.905	2.9	7.9	0.9	6	10	165
2019-09-09 08:10:15	0.35	40.858	20.713	3.2	15.2	1.6	11	14	123
2019-09-10 02:21:10	0.6	40.739	20.285	2.8	1	3.1	9	15	91
2019-09-11 02:41:20	0.1	40.498	21.355	1.8	0.2	1.7	7	9	216
2019-09-11 04:41:19	0.09	39.995	20.047	1.1	0.4	0.9	6	7	299
2019-09-11 04:52:13	0.02	40.509	20.778	1.4	11.1	1.2	4	5	139
2019-09-11 07:36:08	0.05	40.444	21.388	1.9	4.1	2	5	6	243

2019-09-11 08:32:38	0.05	40.556	21.089	3	24.1	13.3	4	8	149
2019-09-11 08:39:51Z	0.04	40.577	21.088	2	9.4	4.2	5	6	144
2019-09-11 09:49:58	0.04	40.477	21.354	1.7	10.8	1.1	5	6	237
2019-09-11 10:02:15	0.11	40.443	21.321	2	25	2.4	5	5	256
2019-09-12 03:07:20	0.23	40.230	20.606	2.2	6.5	1.8	9	12	117
2019-09-12 18:56:34	0.07	39.817	20.768	1.9	7	12.3	7	11	160
2019-09-14 03:58:10	0.33	41.430	20.345	3.5	18.1	3	19	16	141
2019-09-15 19:42:42	0.06	40.691	20.688	1.5	13.2	0.4	4	5	305
2019-09-16 16:18:12	0.01	40.457	20.759	1.8	16.1	0.06	19	5	267
2019-09-19 03:06:25	0.27	42.012	21.038	2.8	9.4	20.5	4	4	339
2019-09-19 04:52:20	0.01	40.467	20.790	2.3	12.6	0.1	3	4	256
2019-09-19 05:00:30	0.03	40.447	20.773	3	20	2.6	3	4	265
2019-09-19 05:02:06	0.06	40.474	20.765	2.3	23.2	5.2	3	6	261
2019-09-19 06:15:39	0.03	40.472	20.802	1.7	6.2	2.4	13	4	250
2019-09-21 09:37:06	0.47	41.606	19.564	3.2	26.4	1.5	15	15	221
2019-09-21 14:04:23	0.64	41.420	19.509	5.8	28.8	1.7	11	17	186
2019-09-21 14:15:52	0.78	41.449	19.470	5.3	38.3	2.3	15	14	188
2019-09-21 14:22:26	0.84	41.291	19.240	3.1	74.2	6.4	15	12	197
2019-09-21 14:27:12	0.8	41.503	19.603	3	25	7.5	15	12	211
2019-09-21 14:27:13	1.08	41.433	19.658	2.9	29.1	2.1	15	14	188

2019-09-21 14:29:48	0.82	41.556	19.477	3.1	12.9	5	15	13	209
2019-09-21 14:39:44	0.29	41.509	19.848	3.1	46.7	1.8	9	6	273
2019-09-21 14:45:01	0.72	41.599	19.586	2.9	15.2	3	8	9	248
2019-09-21 14:48:02	1.27	41.341	19.523	3.4	26.8	4.1	15	13	168
2019-09-21 14:48:03	0.34	41.496	19.597	3.7	14.6	1.2	7	9	235
2019-09-21 14:55:42	0.9	41.503	19.566	3.3	36	3.2	15	12	216
2019-09-21 15:05:57	0.2	41.455	19.589	2.9	28.4	1.3	7	6	292
2019-09-21 15:31:15	1.83	41.573	19.477	3.2	46.3	15.6	15	12	218
2019-09-21 15:54:09	0.86	41.449	19.421	3.3	37.2	3.1	15	15	187
2019-09-21 16:10:36	0.64	41.425	19.432	4.2	46.2	3.1	15	14	187
2019-09-21 16:17:49	1.12	41.505	19.558	2.8	32.4	5	15	12	207
2019-09-21 16:32:39	2	41.470	19.516	3	37	5.7	15	13	197
2019-09-21 16:48:04	0.92	41.499	19.534	2.8	26.7	3.4	15	11	204
2019-09-21 17:12:13	0.24	41.616	19.657	3.1	34.6	0.8	15	11	224
2019-09-21 17:58:12	1.44	41.425	19.441	3	48.7	4.9	15	15	209
2019-09-21 18:55:59	0.72	41.459	19.609	2.6	26.3	3.1	15	9	240
2019-09-21 19:06:36	0.71	41.418	19.378	3.2	37.6	2.1	15	15	207
2019-09-21 20:00:48	1.34	41.549	19.486	3.5	36	4	15	15	192
2019-09-21 21:02:06	0.92	41.371	19.394	3	42.2	6.5	15	13	204
2019-09-21 22:07:27	0.54	41.585	19.464	4.9	9.6	1.4	15	14	213

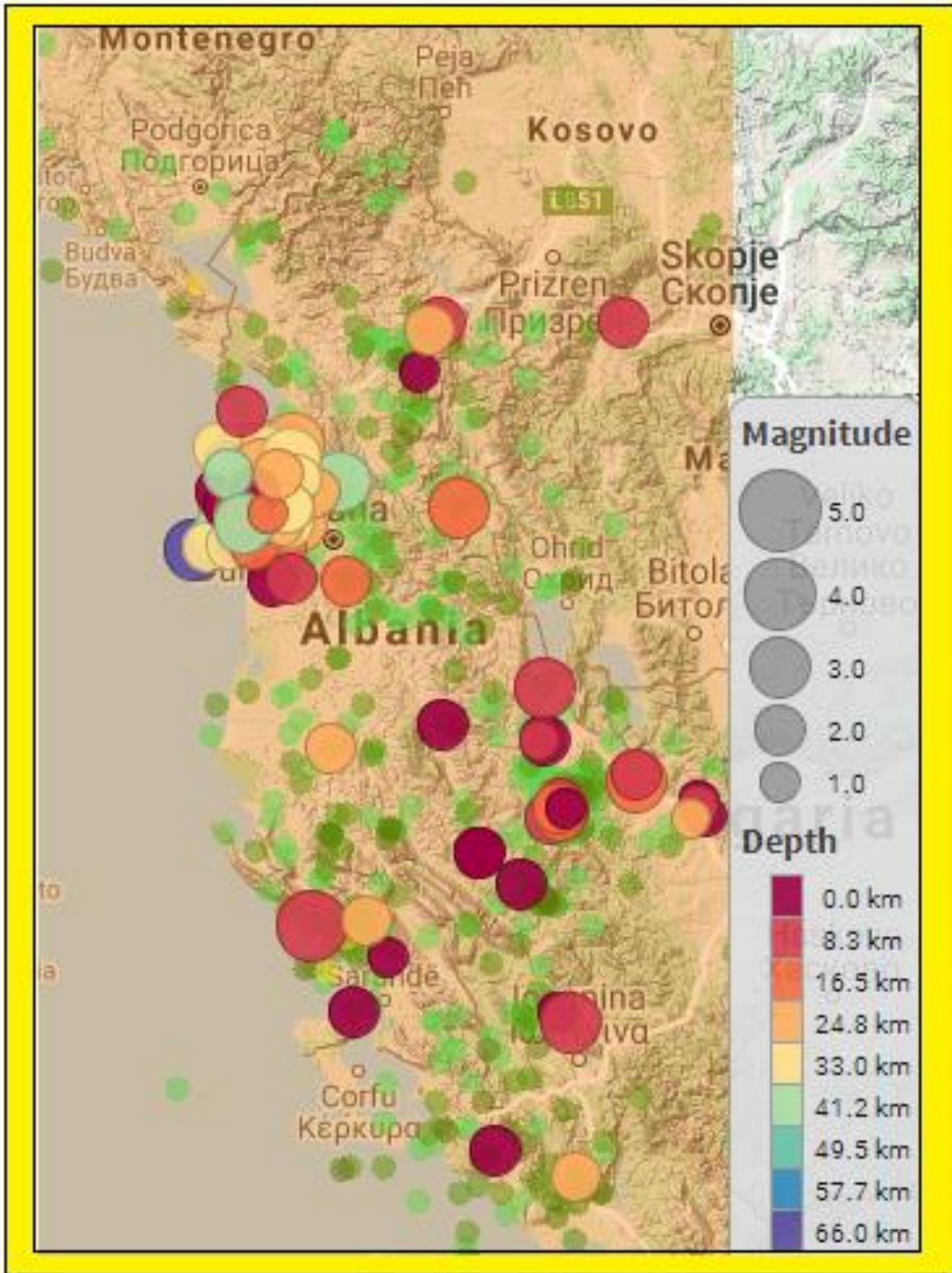
2019-09-21 22:15:47	0.9	41.455	19.565	3.1	19.2	4.2	7	9	223
2019-09-21 23:22:16	0.49	41.440	19.684	2.7	38.1	6.8	7	8	240
2019-09-21 23:40:08	0.16	41.472	19.554	2.6	15.7	0.9	7	7	226
2019-09-22 00:18:02	0.3	41.434	19.630	2.5	34.6	1.1	10	10	239
2019-09-22 00:28:08	0.46	41.546	19.607	4.3	36.5	2.4	15	11	177
2019-09-22 00:48:56	0.41	41.549	19.552	3.7	25.5	1.7	15	12	192
2019-09-22 02:20:45	0.16	41.507	19.481	3.4	11.4	0.7	15	10	241
2019-09-22 04:46:49	0.3	41.389	19.434	3.7	44	2.3	15	9	207
2019-09-22 05:19:08	0.24	41.372	19.688	2.9	29	1	7	7	236
2019-09-22 06:25:35	0.67	41.399	19.470	3.2	32.1	3.3	15	11	186
2019-09-22 07:05:51	1.04	41.469	19.481	3.6	37.7	4.1	15	14	188
2019-09-22 07:09:53	0.55	41.341	19.353	3.4	43.5	3.5	15	15	202
2019-09-22 08:51:03	1.72	41.559	19.384	2.4	6.1	19.5	15	7	232
2019-09-22 09:08:56	0.98	41.305	19.288	2.7	39.5	4.8	15	10	199
2019-09-22 09:14:54	1.71	41.292	19.597	2.5	18.9	14.4	15	9	177
2019-09-22 11:18:12	0.06	41.327	19.505	2.3	33.1	3.6	15	5	265
2019-09-22 11:46:15	1.15	41.450	19.553	2.9	48.3	6.3	15	14	188
2019-09-22 13:23:33	0.48	41.328	19.416	2.8	49.8	2.5	15	12	203
2019-09-22 13:52:25	0.37	41.381	19.568	2.3	25	12.2	8	6	204
2019-09-22 14:35:08	0.02	41.478	19.343	2.2	7.8	0.7	8	6	219

2019-09-22 14:35:13	0.17	41.432	19.383	2.2	2	2.8	8	5	211
2019-09-22 14:59:07	0.06	41.321	19.440	2.4	2.7	0.9	8	5	190
2019-09-22 14:59:08	0.04	41.193	19.571	2.4	2	0.6	8	5	155
2019-09-22 15:38:50	0.01	41.362	19.521	2.1	21.4	0.3	7	4	199
2019-09-22 17:28:00	0.06	41.200	19.646	2.7	13.3	0.5	5	6	149
2019-09-22 17:44:50	0.5	41.616	19.337	2.1	40.4	28.9	14	6	273
2019-09-22 18:42:59	1.22	41.398	19.465	3	40.4	12	15	15	208
2019-09-22 20:08:41	0.53	41.484	19.589	4.3	38.1	1.5	15	14	190
2019-09-22 20:33:28	0.76	41.480	19.490	1.8	25	22.7	15	5	197
2019-09-22 21:16:03	1.2	41.552	19.468	2.2	35.6	4.7	15	9	235
2019-09-22 21:56:37	1.37	41.477	19.553	2.7	25.1	7.7	15	13	201
2019-09-22 22:03:00	0.4	41.531	19.561	4	41.9	7.2	15	10	217
2019-09-22 22:06:20	0.83	41.474	19.480	2.9	51.4	61.3	15	9	239
2019-09-22 23:41:56	0.32	41.422	19.481	3.4	37.5	2.3	15	10	210
2019-09-23 00:21:49	0.16	41.625	19.619	2.6	15	1.2	7	7	250
2019-09-23 02:27:10	0.65	41.597	19.533	2.7	16.1	4.9	7	7	246
2019-09-23 02:43:19	0.4	41.477	19.748	2.9	31.9	2.2	5	7	243
2019-09-23 13:49:57	0.19	41.312	19.391	2.4	36.4	0.8	7	7	227
2019-09-23 14:02:39	0.18	41.310	19.487	2.3	16.7	9.5	7	4	187
2019-09-23 14:55:58	1.61	41.517	19.538	2.6	27.7	4.6	15	13	208

2019-09-23 17:19:40	0.19	41.393	19.518	2.5	15.6	6	7	5	206
2019-09-24 05:22:30	0.56	41.403	19.449	3.5	17.3	2.9	7	11	235
2019-09-24 16:53:08	0.22	41.381	19.634	2.9	35.3	1.3	6	7	236
2019-09-24 20:27:25	0.79	41.629	19.658	3	32.8	3.1	5	8	251
2019-09-25 01:24:02	0.38	41.592	19.547	3.8	36.7	2	15	13	178
2019-09-25 01:47:29	0.26	41.465	19.614	3.1	30.8	0.6	8	9	229
2019-09-25 02:06:10	0.58	41.546	19.521	3.2	28.4	1.7	15	13	192
2019-09-25 02:23:50	0.39	41.582	19.638	3.4	33.8	1.1	15	13	222
2019-09-25 03:01:15	0.17	41.517	19.662	2.7	36	0.4	7	6	246
2019-09-25 04:29:27	0.29	40.665	19.811	2.7	27.7	0.5	15	12	155
2019-09-25 08:38:24	0.1	40.115	19.965	2.8	27.3	0.5	9	11	131
2019-09-26 00:24:19	0.2	41.366	19.608	1.6	29.1	0.9	6	8	234
2019-09-26 13:16:58	0.7	41.423	19.635	2.9	37.2	4.1	8	8	239
2019-09-26 13:16:58	0.7	41.424	19.635	2.9	37.3	4.1	8	8	239
2019-09-26 14:33:50	0.12	41.732	19.431	2.3	11.5	0.7	8	6	279
2019-09-26 14:49:01	0.31	41.474	19.488	2.4	6.3	16.8	7	5	222
2019-09-26 18:41:45	0.09	41.405	19.430	2	20.5	2.8	6	5	234
2019-09-27 02:20:17	0.45	39.784	20.817	3.1	9.5	2.6	15	14	99
2019-09-27 03:04:39	1.16	41.536	19.385	2.3	45.1	8.8	15	10	214
2019-09-28 14:21:47	0.56	41.373	19.441	3.6	45	2.6	11	14	205

2019-09-29 10:53:55	0.33	39.285	20.844	2.5	25.1	1.6	7	6	255
2019-09-29 22:31:23	0.01	41.406	19.549	1.9	24.5	0.5	5	4	210
2019-09-30 00:51:40	0.29	41.984	20.230	2.7	25.6	1.4	7	7	277
2019-09-30 23:48:43	1.03	41.533	19.586	2.1	25	3.1	15	11	215





**-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 Shtator 2019, bazuar në regjistrimet e ASN dhe stacioneve sizmologjike në rajon.  
*(Epicentral map for located seismicity within Albania and surrounding during September 2019)*

## 1. Statistika e ngjarjeve (Events Statistics)

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

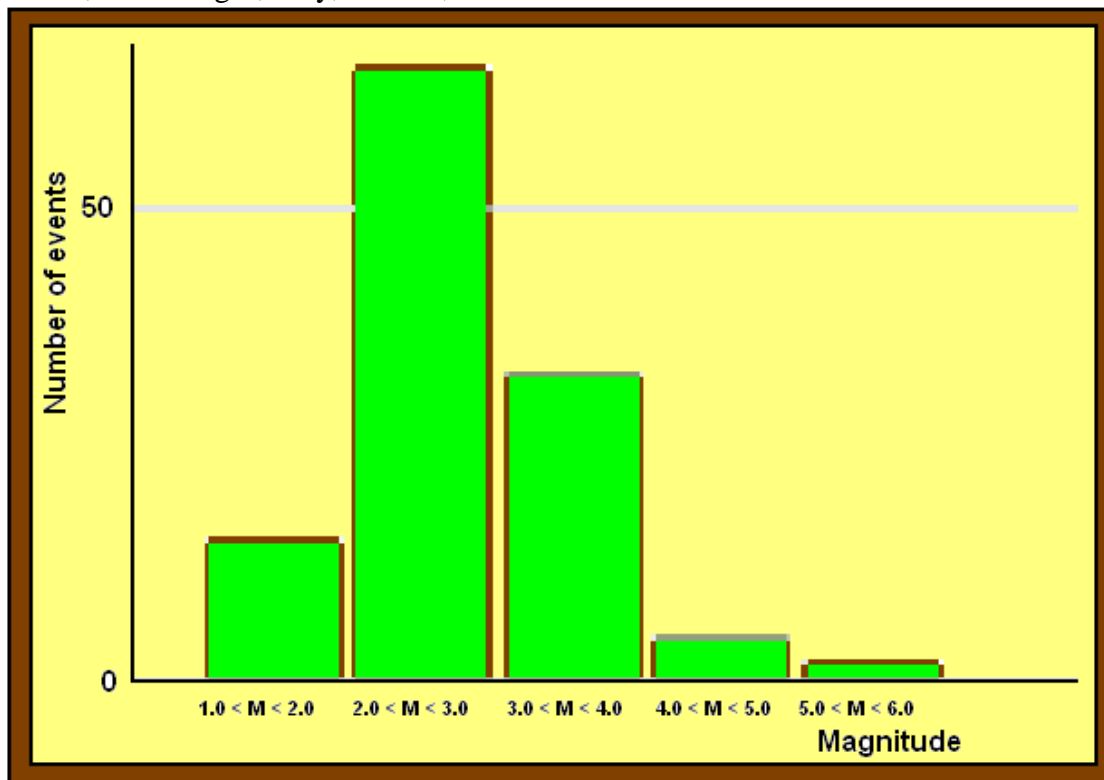
Të dhënat përfaqësuese	Representative Parameters	Vlerat (observed values)
Numuri i përgjithshëm i ngjarjeve të regjistruara (kuandrat 39o-43o V; 18.5o-21.5oL)	[total recorded number of seismic events]	120
Numuri i ngjarjeve sizmike brenda kufirit shtetëror	[earthquakes occurred within state border]	119
Thellësia mesatare e vrojtuar (km)	[mean observed depth]	25
Thellësia maksimale e vrojtuar (km)	[maximum observed depth]	74
Magnituda lokale minimale e vrojtuar ( $M_{L/a}$ )	[minimum observed local magnitude]	1.1
Magnituda lokale maksimale e vrojtuar ( $M_{L/a}$ )	[maximum observed local magnitude]	5.8
Intensiteti maksimal i vrojtuar (MSK-64)	[maximum observed intensity]	VII-VIII

## 2. Karakteristikat kryesore të sizmicitetit për muajin Shtator 2019

Gjatë muajit Shtator, Rrjeti Sizmologjik i Shqipërisë, regjistroi për vendin tone sizmicitetin në nivelin më të lartë në dekadat e fundit. Rritja më e madhe e aktivitetit sizmik u regjistrua në perëndim të Shqipërisë e shprehur me tërmetin e Durrësit  $M_L 5.8$ , më 21 shtator, në orën 16:05 me orën lokale, që është dhe tërmeti më i fortë i 40 viteve të fundit. Ky është tërmeti me magnitudë më të madhe që ka rënë mbas tërmetit të Shkodrës  $M 6.9$  ndodhur më 15 prill 1979. Epiqendra e këtij tërmeti është lokalizuar 12 km në veri të qytetit të Durrësit. Gjatë muajit shtator janë lokalizuar 120 tërmete me magnitudë që varion nga 1.1 në 5.8 (Richter), dhe më i fortë me  $M_L = 5.8$  Richter, 2 prej tyre me magnitudë  $M_L \geq 5.0$  Richter, 8 prej tyre me  $M_L > 4.0$  dhe 45 prej tyre me  $M_L > 3.0$  Richter (Fig 2). Prej tyre 56 kanë ndodhur gjatë ditës dhe 64 gjatë natës. Frekuenca më e madhe në nivelin e magnitudës  $2.0 \leq M < 4.0$  me 99 tërmete (Fig 3). Numuri mesatar i tërmeteve në ditë ishte 4 dhe maksimumi 31 tërmete (ose 25.8% e të gjithë tërmeteve të ndodhura) që u regjistruan gjatë 22 Shtatorit, rrjedhojë e serive të pasgoditjeve të tërmetit të 21 Shtatorit ( $M 5.8$ ) të lokalizuara në zonën sizmogenike të Durrësit, pjesë e brezit tërmetor gjatësor Adriatiko-Jonik. Goditja kryesore u ndje me intensitet VII-VIII ballë (EMS-98) në një zonë brenda 15 kilometrave largësi nga epiqendra, VII ballë në qytetin e Tiranës, Krujës dhe Kavajës deri në distanca 30 km, me intensitet VI ballë (EMS-98) në qytetin e Lezhës, Lushnjës dhe Ulqin; në një zonë deri 60 kilometra largësi, V ballë (EMS-98) në qytetin e Vlorës, Beratit, Librazhdës; Peshkopit dhe Pukës në një zonë rreth 95-105 km, IV ballë në qytetet Tepelene, Korçë, Tetov dhe Niksic në një zonë rreth 150-160 km. Thellësia mesatare 25 km dhe thellësi maksimale 74 km. 47 tërmete ose 40% kanë thellesin nga 25 – 38 km. Ky përqendrimi i 40% të tërmeteve në këtë nivel thellesie lidhet me serinë e goditjeve të 21 shtatorit, të cilët kishin thellesinë të madhe, goditja kryesore ka thellesinë 29 km. Rreth 8 tërmete u ndjen nga popullsia e Shqipërisë. Tërmeti kryesor  $M_L 5.8$  u ndje edhe jashtë në Greqi, Maqedoninë e Veriut, Kosovë, Mal të Zi, Itali, Kroaci, Serbi dhe Bosnje.

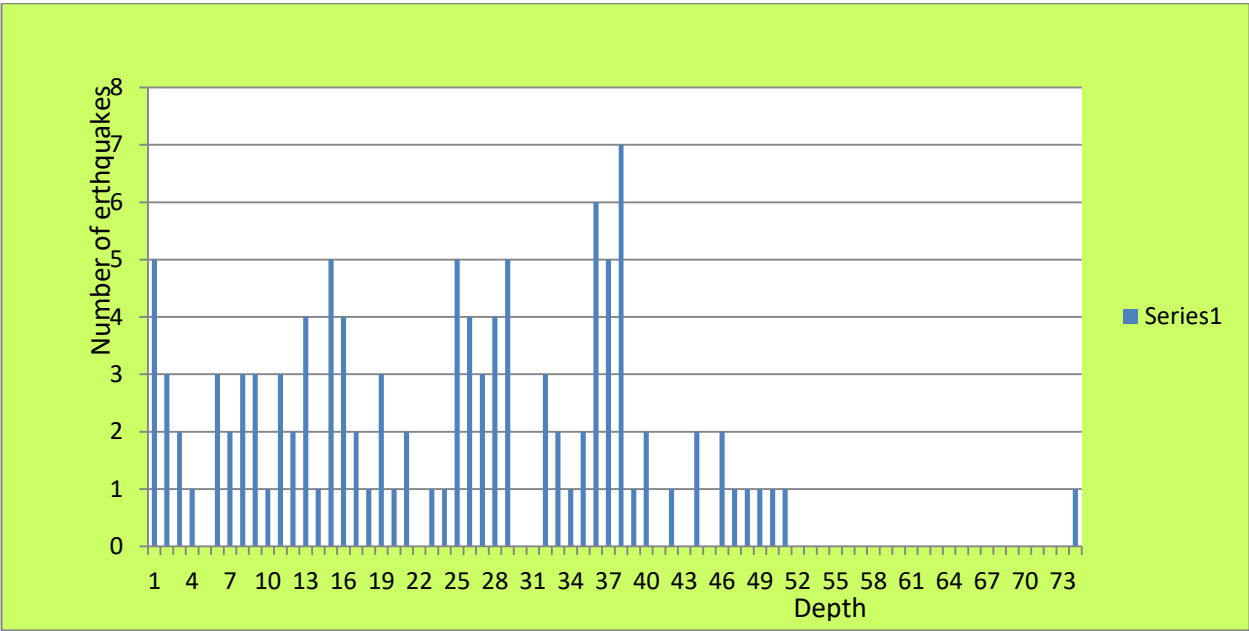
## 2. Main features of seismicity during September month 2019

During September month, the Albanian Seismological Network recorded in our country, the highest seismicity of the last decades. The largest increase of seismic activity was recorded in the west of Albania, expressed by the Durres earthquake  $M_{5.8}$  of September 21 at 16:05 pm local time, the strongest earthquake of the last 40 years. This is the largest magnitude of earthquake that have occurred since the Shkodra earthquake  $M_{6.9}$  of April 15, 1979. The epicenter is located 12 km north of the city of Durres. In this month, 120 earthquakes of magnitude ranging from 1.1 to 5.8 (Richter) have been located, the strongest with  $M_L = 5.8$  Richter, 2 of them with magnitude  $M_L \geq 5.0$  Richter, 8 of them with  $M_L > 4.0$  and 45 of of them with  $M_L > 3.0$  Richter (Fig. 3). There are 56 earthquakes occurred during the day and 64 during the night. Higher frequency is in magnitudes  $2.0 < M < 4.0$  with 99 earthquakes (Fig. 3). The average number of earthquakes per day was 4 and the maximum is 31 (25.8% of all earthquakes occurred) recorded on 22 September as a result of 21 September earthquake ( $M_{5.8}$ ) in the Durres seismogenic zone (Fig 5) . The main impact was felt VII-VIII degree (EMS-98) in an area within 15 kilometers, VII degree e in the city of Tirana, Kruja and Kavaja up to 30 km and VI degree (EMS-98) in the city of Lezhe, Lushnje and Ulcinj in an area up to 60 kilometers distance, V degree (EMS-98) in the city of Vlora, Berat, Librazhde; Peshkopia and Puka, in an area of 95-105 km, IV degree in the Tepelene, Korce, Tetov and Niksic towns, in an area of 150-160 km. Average depth 25 km and maximum depth 74 km. About 47 earthquakes or 40% of all have depths ranging from 25 - 38 km (Fig 4). This concentration of 40% of the earthquakes in this level of depth is explained by the fact that this earthquakes was deep, with a depth 29 km. About 8 earthquakes were felt by the population of Albania. The main earthquake  $M_L 5.8$  was felt outside of Albania in Greece, Northern Macedonia, Kosovo, Montenegro, Italy, Croatia, Serbia and Bosnia.

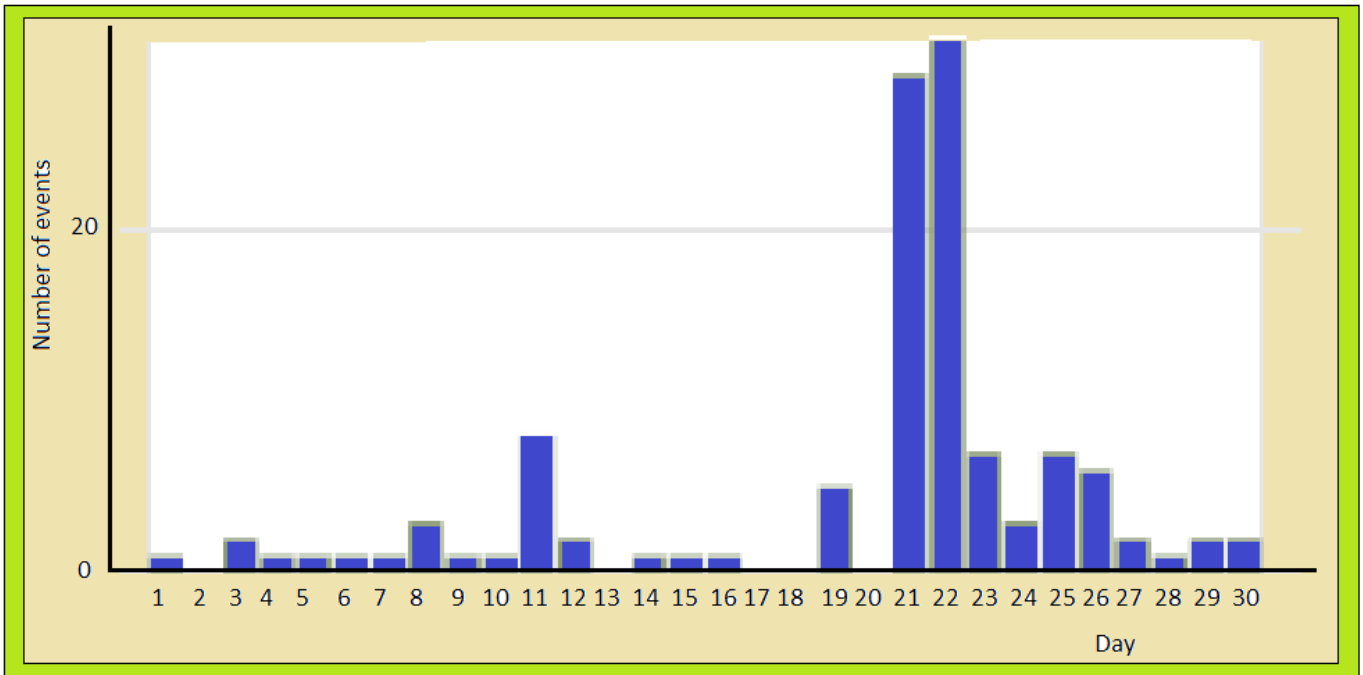


-Fig. 3 -

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



**-Fig. 4 -**  
*Grafiku i frekuencës së tërmeteve në lidhje me thellësin.*



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

#### 4. Përshkrim i të dhënave makrosizmike (*Macro-seismic data description for individual events*)

##### **Ngjarja 1:**

Datë 21.09.2019, në orën 14:04:20.12 (UTC); (16:04:20.12 ora lokale); lokalizuar 41.42V; 19.50L, ne Hamallaj, 12 km në Veri te Durresit. Intensiteti i tërmetit në epiqendër  $I_0 = \text{VII-VIII}$  ballë (EMS-98); Ndjerë: mbi VII ballë në qytetin e Durresit dhe Shijakut; VII ballë në qytetin e Tiranes, Krujes dhe Kavajes; VI ballë në qytetin e Lezhe, Lushnje dhe Ulqin; V ballë në qytetin e Vlore, Berat, Librazhde; Peshkopi dhe Puke; IV ballë ne qytetet Tepelene, Korce, Tetov dhe Niksic.

(Event 1):

(Intensity  $I_0 = \text{VII-VIII}$  degree EMS-98, felt over VII degree in Durresit and Shijaku town; VII degree in Tirana, Kruja and Kavaja town; VI degree in Lezhe, Lushnje and Ulqin towns; V degree in Vloora, Berati, Librazhdi Peshkopi and Puke towns; IV degree in Tepelena, Korca, Tetova and Niksic towns;

##### **Ngjarja 2:**

Datë 21.09.2019, në orën 16:15:49.12 (UTC); (18:15:49.12 ora lokale); lokalizuar 41.44V; 19.47L, ne 14 km në Veri te Durresit. Intensiteti i tërmetit në epiqendër  $I_0 = \text{VI}$  ballë (EMS-98); Ndjerë: VI ballë në qytetin e Durresit dhe Shijakut; V ballë në qytetin e Tiranes, Krujes dhe Kavajes; IV ballë në qytetin e Lezhe, Lushnje dhe Ulqin; III ballë në qytetin e Vlore, Berat, Librazhde; Peshkopi dhe Puke.

(Event 2):

(Intensity  $I_0 = \text{VI}$  degree EMS-98, felt over VI degree in Durresit and Shijaku town; V degree in Tirana, Kruja and Kavaja town; IV degree in Lezhe, Lushnje and Ulqin towns; III degree in Vloora, Berati, Librazhdi Peshkopi and Puke towns.

##### **Ngjarja 3:**

Datë 21.09.2019, në orën 22:07:27.12 (UTC); (16:04:20.12 ora lokale); lokalizuar 41.58V; 19.46L, ne Kepin e Rodonit, 24 km në Veri te Durresit. Intensiteti i tërmetit në epiqendër  $I_0 = \text{V-VI}$  ballë (EMS-98); Ndjerë: mbi V ballë në qytetin e Durresit dhe Shijakut; IV ballë në qytetin e Tiranes, Krujes dhe Kavajes; III ballë në qytetin e Lezhe, Lushnje dhe Ulqin;

(Event 3):

(Intensity  $I_0 = \text{V-VI}$  degree EMS-98, felt over V degree in Durresit and Shijaku town; IV degree in Tirana, Kruja and Kavaja town; III degree in Lezhe, Lushnje and Ulqin towns;

**Shënim:** Intensiteti i tërmetit në epiqendër  $I_0$  është përcaktuar nga relacioni  $I_0 = (\text{Mag} (M_{L/d}) - 1)/0.6$

**Note:** The earthquake Intensity in epicenter  $I_0$  is derived from the relation  $I_0 = (\text{Mag} (ML/d) - 1)/0.6$





**Fig 6.** Harta e izoseisteve te termetit Durrësit (M5.8) ndodhur me 21.09.2019

Pataqitje me foto e disa tipeve te demtimeve ne ndertesave ne rajonin Tirane-Durres



Fig 7. Permbledhje e disa fotove te ndertesave te demtuara ne qytetin e Durresit





Fig 8. Demtim ndertese ne Durres



Fig 9. Demtim ndertese ne Durres





Fig 10. Demtim ndertese ne Manez, Durres



Fig.11- Pamje nga shkemb i Kavajes, Rreshqitje e mases shkembore.



Fig 12. Demtim ndertese ne Vore



Fig. 13. Fig 8. Demtim ndertese ne Fushe-Kruje





Fig 14. Demtim ndertese ne Ndroq, Tirane



Fig 15. Demtim ndertese ne Tirane



Fig 16. Demtim ndertese ne Liqeni i Thate, Tirane



Fig 17. Demtim godines ne Fakultetin Gjeologji dhe Miniera, Tirane

## 2. Mekanizmat fokal (Focal mechanisms) (Fig 6)

### 1. Main shock

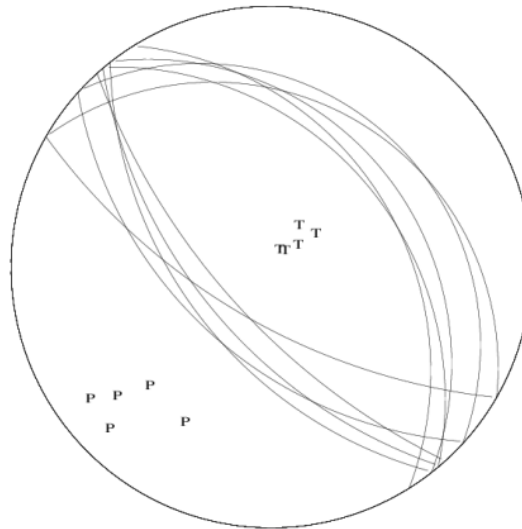
Source parameters (relocated)

<i>Date</i>	<i>Time</i>	<i>Coordinates</i>	<i>Depth</i>	<i>Magnitude</i>
2019 0921	14:04:25	41.443N 19.593E	16	5.5 ( $M_W$ moment magnitude)

Source geometry: FOCMEC F

Active fault plane	<i>Strike</i>	<i>Dip</i>	<i>Rake</i>
	120	66	90

2019 921 1404 25.1 L 41.443 19.593 16.0 GEO 13 0.9 5.5WGEO npol= 13 gap= 88  
 132 52 85 GFZ moment C  
 328 37 95 ING moment B  
 322 31 92 USG moment A  
 120 66 90 GEO FOCMEC  
 138 68 92 GEO FPFIT



## 2. Aftershock

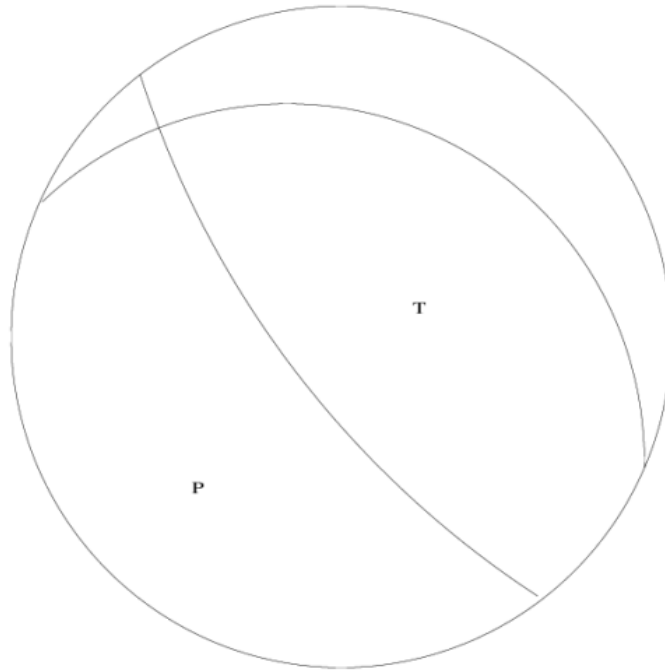
Source parameters (relocated)

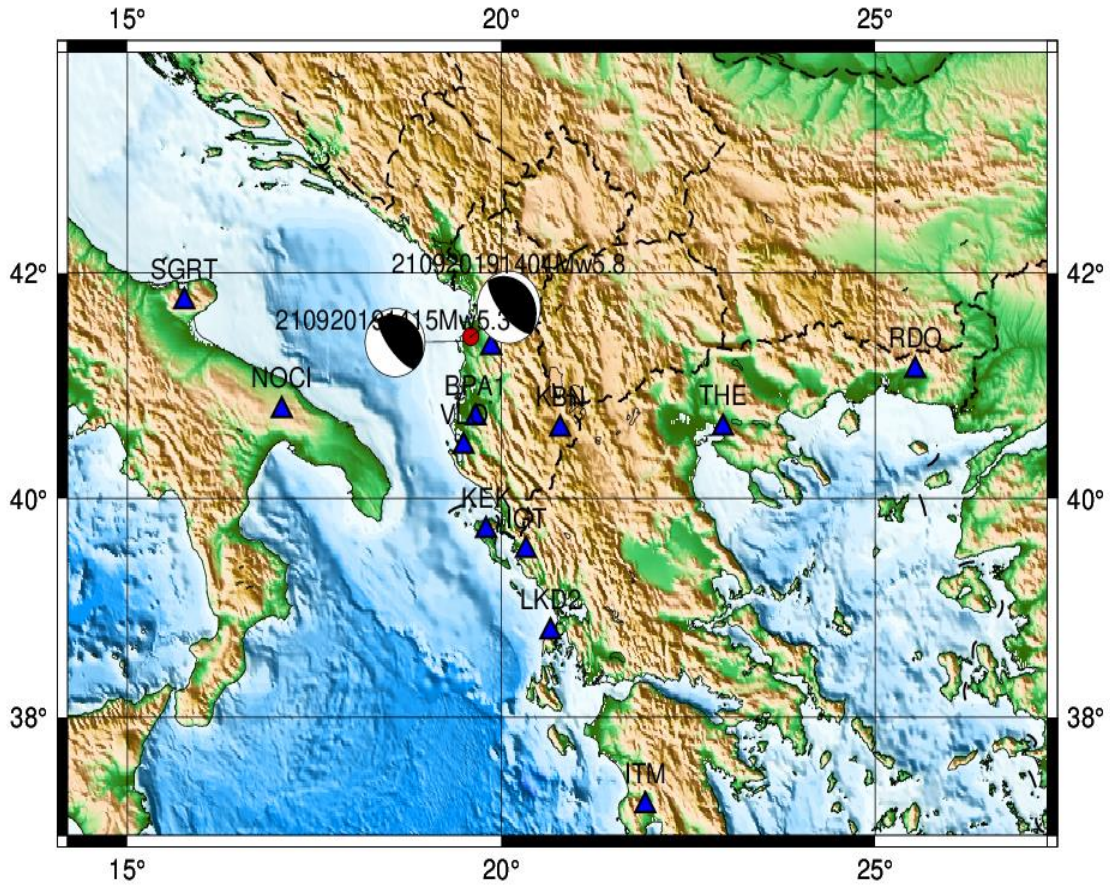
<i>Date</i>	<i>Time</i>	<i>Coordinates</i>	<i>Depth</i>	<i>Magnitude</i>
2019 0921	14:15:52.6	41.397N 19.483E	6	5.2 ( $M_W$ moment magnitude)

Source geometry: FOCMEC F

Active fault plane	<i>Strike</i>	<i>Dip</i>	<i>Rake</i>
	293	22	63

2019 921 1415 52.6 L 41.397 19.483 6.0 GEO 12 0.8 5.2WGEO npol= 12 gap= 92  
293 22 63 GEO FOCMEC





**-Fig. 6 -**

*Harta e paraqitjes se mekanizmave vatror per termetet Shtator 2019*



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