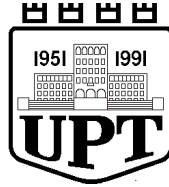


BULETINI I TËRMETEVE TË RRJETIT SIZMOLOGJIK SHQIPTAR

Korrik 2013

PARAMETRIC DATA
AND ALBANIAN'S EARTHQUAKE ANALYSIS
July 2013



UNIVERSITETI POLITEKNIK I TIRANËS
INSTITUTI I GJEOSHKENCAVE, ENERGJISË, UJIT DHE MJEDISIT
Departamenti i Sizmologjisë

BULETINI MUJOR I RRJETIT SIZMOLOGJIK
TË SHQIPERISË

Korrik 2013

MONTHLY BULLETIN OF THE ALBANIAN
SEISMOLOGICAL NETWORK

July 2013

Përliluar nga:
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Tiranë, 2013

INFORMACION I PERGJITSEM**Prezantim**

Buletini i Rrjetit Sizmologjik Shqiptar është një publikim periodik i parametrave valore, parametrave vatrore dhe madhësisë së tërmeteve brenda territorit të Shqipërisë dhe rrotull saj, përpiluar nga Departamenti i Sizmologjisë i Institutit të Gjeoshkencave, Energjisë, Ujit dhe Mjedisit pranë Universitetit Politeknik të Tiranës.

Parametrat e vlerësuar i referohen kuadrantit gjeografik të kufizuar nga koordinatat: 39.0° - 43.0° V dhe 18.5° - 21.5° L.

Buletini përmban pjesën shpjeguese të përbërë nga informacioni i përgjithshëm, simbolet e përdorura për parametrat e vlerësuar, të dhënat fazore valore për secilin nga tërmetet e regjistruar dhe përpunuar, katalogu mujor i tërmeteve, informacionin makrosimik, statistikor, mekanizmin vatrore dhe hartën e shpërndarjes së epiqendrave. Në të përfshihen disa kategori tërmetesh, bazuar në informacionin e regjistruar dhe përpunuar për secilin prej tyre. Ato janë: **1-** tërmetet e lokalizuar; **2-** tërmetet e regjistruar nga më shumë se një stacion lokal, por jo të lokalizuar dhe **3-** tërmete të regjistruar të paktën nga një stacion lokal, por me më shumë se një fazë valore.

Të dhënat parametrike, si më sipër, vlerësohen në mënyrë të pandërprerë nëpërmjet monitorimit sizmologjik dhe bazohen në analizën sasiore të regjistrimit instrumental valor. Llogaritja e vlerave të tyre është produkt i aplikimit të metodave analitike të njohura, në mënyrë

GENERAL INFORMATION**Introduction**

The Albanian Seismologic Network's bulletin is a periodic publication of earthquake wave data, source parameters and their magnitudes, for every seismic event occurring inside the Albanian territory and its surroundings. This publication is compiled in the Department of Seismology of the Institute of Geosciences, Energy, Water and Environment under the Polytechnic University of Tirana. All the estimated values, of the parameters, refer to the geographic quadrant confined by the coordinates: 39° - 43° N and 18.5° - 21.5° E. Bulletin comprises a description section, containing the most general information, the section of the used symbols corresponding to all the evaluated parameters, phases data for each of the recorded and located earthquakes. It contains also the event catalogue, the macroseismic information, the statistical information, the focal mechanism solutions and an aerial epicenter distribution map.

Different earthquake information categories are included, depending on their recorded and elaborated information, for each of them. They are: **1-** localized earthquakes; **2-** earthquakes recorded from more than one local station, but not located and **3-** earthquakes recorded at least by one station, but having more than one seismic phase.

The parametric data, as above, are permanently evaluated throughout the seismological monitoring routine, based upon quantitative analyze of instrumental waveform recordings. Their computed values are the direct application

iterative dhe interaktive, të aplikuara në programe llogarites të çertifikuar dhe të njohur globalisht. Kështu, për përcaktimin e të dhënave kohore valore hyrëse përdoret programi Atlas, ndërsa lokalizimi i tërmeteve kryhet nëpërmjet programit Hypoinverse.

Në këtë analizë merret në konsideratë modeli lokal për strukturën e shpejtësisë së përhapjes së valëve sizmike (Ormëni 2007) (kryesisht atyre volumore, primare dhe sekondare, P dhe S). Vlerësimi i magnitudës realizohet duke aplikuar modele të njohur parametrik si ai Richter & Gutenberg (1956) dhe Eaton (1992).

Analiza e të dhënave të publikuara realizohet nga grupi i punës i përbere nga punonjësit kërkues shkencor Rrapo Ormeni dhe Edmond Dushi si edhe ata ndihmës shkencor Ardian Minarolli dhe Ervin Kasa.

Informacioni instrumental valor përftohet nëpërmjet një rrjeti stacionesh lokal, ku përfshihen: stacioni sizmologjik qëndror i Tiranës (TIR), B. Currit (BCI), Pukës (PUK), Peshkopisë (PHP), Vlorës (VLO), Tepelenës (TPE), Sarandës (SRN) dhe Korçës (KBN), të cilët janë të paisur me sensor me bandë të gjerë regjistrimi. Gjithashtu, rrjeti lokal përmban edhe një numër stacionesh me regjistrim me period të shkurtër, ku përfshihen: Shkodra (SDA), Laçi (LACI) dhe Leskoviku (LSK).

Në analizë përfshihen edhe të dhënat valore të regjistruara e përcaktuara nga një numër stacionesh sizmologjik të rajonit dhe Mesdheut, të cilët i përkasin rrjetit sizmologjik të Universitetit "Aristotel" të Selanikut (AUTH), rrjetit sizmologjik Italian të menaxhuar nga Instituti Kombëtar i Gjeofizikës dhe Vullkanologjisë (INGV), si edhe stacione të rrjetit sizmologjik të Observatorit Sizmologjik të Malit të Zi (MSO).

result of known analytical methods, iteratively and interactively, within certified and globally known computational programs.

Hence, for the onset time data determination, the Atlas program is used, whereas the earthquake location is done by mean of Hypoinverse program. For this analyze, a local velocity model accounting for the local and accurate seismic wave paths, is used (Ormëni, 2007). Mainly body seismic waves are concerned, primary P-phases and secondary S-phases, within computation and location process. Magnitude determination is achieved through known parametric models as the one of Richter (1956) and Eaton (1992).

Analyzes of the published data is undertaken from a dedicated working group, comprising by scientific staff Rrapo Ormeni & Edmond Dushi and technical staff Ardian Minarolli & Ervin Kasa.

Instrumental information is achieved through a network of local seismological stations, as listed: Tirana central station (TIR), B. Curri (BCI), Puka (PUK), Peshkopia (PHP), Vlora (VLO), Tepelena (TPE), Saranda (SRN) and Korça (KBN), which are equipped with broad band seismic sensors.

Also, the local network enumerates some short period recording stations, situated at Shkodra (SDA), Laçi (LACI) and Leskoviku (LSK).

In this analyze, data from a number of regional stations, are included as well. They are distributed along the Mediterranean coast and belong to the AUTH network of the "Aristotle" university of Thessaloniki, Italian National Seismological Network managed from National Institute of Geophysics and Volcanoes (INGV) as well as seismological stations of the Seismological Observatory of Montenegro (MSO).

STACIONET E RRJETIT SIZMOLOGJIK (SEISMOLOGICAL NETWORK STATION)

Kodi Stacionit (Stn. Code)	Regjistrimi (po/jo) (Registered)	Koordinatat (Coordinates)		Lartesia (Elevation)	Tipi Stacionit (Stn. Type)	Sizometri (Sensor Type)	Sistemi regjistrimit (Recording system)	Sistemi i komunikimit (Communication system)	Perioda natyrore e sensorit (Natural Sensor period)
		V-J (N-S)	L-P (E-W)						
TIR	Po (y)	41.3477	19.8650	198	3C-VBB	STS-2	Quantera	VSAT	120 s
BCI	Po	42.3666	20.0675	500	3C-BB	CMG-40T	Trident	VSAT	40 s
KKS	Po	42.0756	20.4113	300	3C-BB	SM-4 (B)	GBD-x16	Dial Up	0.2 s
PHP	Po	41.6847	20.4408	670	3C-BB	Trillium-40	Trident	VSAT	40 s
PUK	Po	42.0426	19.8926	900	3C-BB	Trillium-40	Trident	VSAT	40 s
SDA	Po	42.0519	19.4986	80	3C-SP	SM-4 (B)	GBD-x16	Dial Up	0.2 s
LACI	Po	41.6363	19.7094	40	3C-SP	SM-4 (B)	GBD-x16	Dial Up	0.2 s
KBN	Po	40.6236	20.7874	800	3C-BB	Trillium-40	Trident	VSAT	40 s
LSK	Po	40.1500	20.6000	920	3C-SP	SM-4 (B)	GBD-x16	Dial Up	0.2 s
TPE	Po	40.2952	20.0109	240	3C-BB	CMG-40T	Trident	VSAT	40 s
VLO	Po	40.4686	19.4955	80	3C-BB	Trillium-40	Trident	VSAT	40 s
SRN	Po	39.8800	20.0005	20	3C-BB	Trillium-40	Trident	VSAT	40 s

SIMBOLIKA E PERDORUR NE PERMBAJTJEN E BULETINIT SIZMOLOGJIK
SYMBOLIC USED IN SEISMOLOGICAL BULLETIN CONTAIN

Simboli (Symbol)	Parametri korrespondues (Corresponding parameter)	Pershkrimi (Description)
<i>Y</i>	Viti (year)	Viti ndodhjes se ngjarjes (year of occurrence)
<i>M</i>	Muaji (month)	Muaji i ndodhjes së ngjarjes (month of occurrence)
<i>D</i>	Dita (day)	Data e ndodhjes së ngjarjes (date of occurrence)
<i>H</i>	Ora (hour)	Ora ne origjine (UTC) (origine time universal)
<i>M</i>	Minuta (minute)	Minuta (origine time minute)
<i>Sec</i>	Sekonda (second)	Sekonda (origine time second)
<i>Lat</i>	Gjerësia gjeografike (latitude)	Gjeresia gjeografike e epiqendrës Veri-Jug(°) Geographical latitude N-S direction
<i>Lon</i>	Gjatësia gjeografike (longitude)	Gjatesia gjeografike e epiqendrës Lindje-Perendim(°) Geographical longitude E-W direction
<i>Dep</i>	Thellësia (depth)	Thellësia vatrore (focal depth)-km
<i>Hor. err</i>	Gabimi horizontal (horizontal error)	Gabimi i bërë në vlerësimin e epiqendres (km) Estimation error of epicentre
<i>Ver. err</i>	Gabimi vertikal (vertical error)	Gabimi i bërë në vlerësimin e thellësisë (km) Depth estimation error
<i>Gap</i>	Mosmbulimi me stacione minitorimi (azimutal gap)	Zona e sferës fokale (imagjinare), e pa mbuluar me stacione regjistruar Azimutal station gap
<i>Rms</i>	Gabimi mesatar kuadratik (Root mean squarre)	Gabimi i pergjithshem (Total estimation error-sec)
<i>Mag</i>	Magnituda (magnitude)	Madhesia e termetit sipas shkalles lokale te kalibruar (local calibrated measure of the earthquake size)
<i>Net</i>	Emërtimi i rrjetit sizmologjik (network code)	Kodi nderkombetar i identifikimit te rrjetit ne FDSN (Federation of Digital seismologies network) eshte AC

		(International code of Network identification on FDSN is AC)
Nr	Numuri i stacioneve (station's number)	Nr. Stacioneve te perdorur ne lokalizim (No. Of used stations)
STAT	Kodi i stacionit (station code)	Kodi nderkombetar qe perdoret per te identifikuar stacionin perkates sizmologjik (tre karaktere) (international stn code)
SP	Komponentja e regjistrimit (recording component)	Kodimi i komponenteve te regjistrimit ne perputhje e orientimin gjeografik 3D (Z, N ose E) Component code according to recording direction
IPHASW	Faza valore sizmike (seismic wave phase)	tipi i valës P (P_g / P_n) ose S (S_g / S_n) (wave phase type)
D	Polariteti i hyrjes së parë në komponenten vertikale (first vertical onset polarity)	Polariteti i vales renes ne statcion, ne komponenten Z (first onset polarity on Z)
HRMM SECON	Ora, minuta dhe sekonda (time onsets for each phase)	Te dhenat kohore per mbrritjen e seciles faze ne regjistrim Time data for each phases on recording
AZIMU	Kendi azimutal (station-source azimuth angle)	Azimuti stacion- vater termeti Station-focus azimuthal angle
RES	Diferenca kohore (time residual)	Ndryshimi ndermjet kohës teorike të llogaritur nga modeli dhe kohës faktike, nga regjistrimi Time residuals between calculated and observed times
DIS	Largesia epiqendrore (epicentral distance)	Largesia hoeizontale epiqender-stacion Distance from epicenter to the station
DUR	Zgjatshmeria e sinjalit sizmik (signal time duration)	Shpreh zgjatshmerinë e plotë të sinjalit sizmik ne sizmogram Total Signal Duration

INFORMACIONI PARAMETRIK FAZOR DHE LOKALIZIMI (PARAMETRIC PHASES INFORMATION AND LOCATION)

TËRMETE TË AFËRTA (NEAR EARTHQUAKE)

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	1	1528	37.09	41.86	20.50	11	ASN	3	0.2	2.8	RADOMIR-DIBER -ALBANIA
			GAP=170		hor.err=1km				ver.err=1KM			
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
PHP	SZ	IPG		1528	41.62	196	0.0	20	28	2.6		

PHP	SE	ISG	1528	44.36	196	-0.1	20					
BCI	SZ	IPG	1528	48.38	328	0.1	66	29			2.8	
BCI	SE	ISG	1528	58.26	326	0.0	66					
TIR	SZ	IPG	1528	50.72	224	-0.1	78	40			3.0	
TIR	SE	ISG	1529	01.97	224	0.1	78					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013 7 2 0705 17.51

GAP=170

hor.err=

ver.err=

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0705	05.14					
PHP	SE	ISG		0705	10.66					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013 7 2 0705 17.51

GAP=

hor.err=

ver.err=

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0705	51.18					
PHP	SE	ISG		0705	55.88					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013 7 2 0815 21.83 39.22 18.85 10 ASN 7 0.1 3.7 SOUTHERN ITALY

GAP=246

hor.err=1km

ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SCTE	SZ	IPG		0815	39.68	343	0.0	100		
SCTE	SE	ISG		0815	53.01	343	-0.1	100		
SRN	SZ	IPG		0815	44.16	53	0.1	125	81	3.7
SRN	SE	ISG		0816	00.90	53	0.2	125		
IGT	SZ	IPN		0815	46.01	74	0.2	135		
IGT	SE	ISN		0816	03.23	74	-0.1	135		
VLO	SZ	IPN		0815	48.09	22	0.1	150	80	3.7
VLO	SE	ISN		0816	07.65	22	0.1	150		
TPE	SZ	IPN		0815	48.99	40	-0.2	157	82	3.7
TPE	SE	ISN		0816	09.36	40	-0.1	157		
NOCI	SZ	IPN		0816	00.14	320	-0.1	230		
NOCI	SE	ISN		0816	28.89	320	0.1	230		
PHP	SZ	IPN		0815	48.09	26	0.2	306		
PHP	SE	ISN		0816	07.65	26	-0.1	306		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013 7 2 1045 23.64 40.22 21.86 20 ASN 9 0.2 4.7 GREECE

GAP=246

hor.err=2km

ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
THE	SZ	IPG		1045	41.78	63	0.1	104		
THE	SE	ISG		1045	55.25	63	-0.1	104		
IGT	SZ	IPN		1045	49.48	240	-0.1	152		
IGT	SE	ISN		1046	08.72	240	0.1	152		
TPE	SZ	IPN		1045	50.51	274	0.1	158	225	4.7
TPE	SE	ISN		1046	11.52	274	-0.1	158		
SRN	SZ	IPN		1045	50.86	257	0.1	163	210	4.7
SRN	SE	ISN		1046	11.52	257	0.2	163		
LKD2	SZ	IPN		1045	54.16	214	-0.3	190		
LKD2	SE	ISN		1046	19.53	214	0.2	190		
PHP	SZ	IPN		1045	57.01	324	0.1	201	190	4.6
PHP	SE	ISN		1046	21.95	324	-0.1	201		
VLO	SZ	IPN		1045	57.16	279	0.2	203	212	4.7
VLO	SE	ISN		1046	22.48	279	-0.1	203		
TIR	SZ	IPN		1045	22.48	308	-0.2	210	215	4.7
TIR	SE	ISN		1046	24.09	308	0.2	210		
BCI	SZ	IPN		1046	07.62	329	-0.3	329	177	4.6

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013	7	3	0101	57.57	40.21	21.84	5	ASN	5	0.2	3.3	GREECE
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GAP=174

hor.err=1km

ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
IGT	SZ	IPN		0102	23.61	241	0.1	149		
IGT	SE	ISN		0102	43.84	241	-0.1	149		
TPE	SZ	IPN		0102	28.24	275	0.1	156	53	3.3
TPE	SE	ISN		0102	45.96	275	0.1	156		
SRN	SZ	IPN		0102	25.78	256	-0.1	161	52	3.3
SRN	SE	ISN		0102	48.02	256	0.1	161		
PHP	SZ	IPN		0102	31.56	325	0.1	202	53	3.3
PHP	SE	ISN		0102	55.31	325	-0.1	202		
TIR	SZ	IPN		0102	34.06	209	-0.1	209	55	3.3
TIR	SE	ISN		0103	00.66	209	-0.2	209		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013	7	3	0107	31.73	40.95	20.07	1	ASN	6	0.1	3.2	GRAMSH-ALBANIA
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GAP=163

hor.err=1km

ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0107	42.58	339	-0.1	46	39	3
TIR	SE	ISG		0107	50.01	339	-0.1	46		
TPE	SZ	IPG		0107	48.58	185	0.0	73	44	3.1
TPE	SE	ISG		0107	58.37	185	0.1	73		

PHP	SZ	IPG	0107	50.61	20	0.0	86	50	3.3
PHP	SE	ISG	0108	02.11	20	-0.1	86		
SRN	SZ	IPG	0107	56.07	183	0.0	119	51	3.3
SRN	SE	ISG	0108	13.84	183	0.1	119		
PUK	SZ	IPG	0107	56.56	185	0.1	121	52	3.3
PUK	SE	ISG	0108	14.18	185	0.0	121		
BCI	SZ	IPN	0108	02.37	0	0.1	156	52	3.3
BCI	SE	ISN	0108	23.19	0	0.1	156		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	3	1309	11.19	40.12	21.84	9	ASN	8	0.2	4.2	GREECE
				GAP=110			hor.err=2km			ver.err=1KM		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
THE	SZ	IPG		1309	30.87	59	0.2	104		
THE	SE	ISG		1309	45.07	59	0.1	104		
IGT	SZ	IPN		1309	36.50	244	0.1	152		
IGT	SE	ISN		1309	55.58	244	-0.1	152		
TPE	SZ	IPN		1309	38.49	278	-0.1	158	124	4.1
TPE	SE	ISN		1309	58.71	278	-0.1	158		
SRN	SZ	IPN		1309	38.66	261	0.3	163	120	4.1
SRN	SE	ISN		1309	59.36	261	0.1	163		
VOL	SZ	IPN		1309	46.93	282	-0.2	190	120	4.2
VLO	SE	ISN		1310	11.68	282	0.1	190		
PHP	SZ	IPN		1309	46.19	326	0.1	201	115	4.1
PHP	SE	ISN		1310	13.06	326	-0.1	201		
TIR	SZ	IPN		1309	47.37	310	-0.2	210	125	4.2
TIR	SE	ISN		1310	14.54	310	0.1	210		
BCI	SZ	IPN		1309	55.38	330	-0.3	329	118	4.2

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	3	1328	23.91	40.12	21.85	10	ASN	9	0.3	4.2	GREECE
				GAP=158			hor.err=2km			ver.err=1KM		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
THE	SZ	IPG		1328	42.88	59	-0.1	107		
THE	SE	ISG		1328	57.42	59	0.1	107		
IGT	SZ	IPN		1328	50.08	244	0.1	148		
IGT	SE	ISN		1329	09.01	244	-0.1	148		
TPE	SZ	IPN		1328	51.43	278	-0.2	160	311	4.9
TPE	SE	ISN		1329	12.19	278	0.3	160		
SRN	SZ	IPN		1328	52.05	261	-0.1	163	292	4.8
SRN	SE	ISN		1329	13.97	261	0.2	163		
LKD2	SZ	IPN		1328	55.06	214	-0.3	182		
LKD2	SE	ISN		1329	18.35	214	0.1	182		
VOL	SZ	IPN		1328	59.19	282	-0.2	207	301	4.7
VLO	SE	ISN		1329	26.47	282	0.1	207		
PHP	SZ	IPN		1328	58.29	326	-0.1	212	240	4.7

PHP	SE	ISN	1329	26.49	326	0.1	212		
TIR	SZ	IPN	1329	00.91	310	-0.2	218	287	4.9
TIR	SE	ISN	1329	27.79	310	-0.1	218		
BCI	SZ	IPN	1329	09.25	330	-0.2	291	240	4.8

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	3	1454	14.17	40.15	21.85	1	ASN	9	0.4	3.6	GREECE
				GAP=155			hor.err=2km			ver.err=1KM		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
THE	SZ	IPG		1454	33.86	59	-0.1	107		
THE	SE	ISG		1454	48.82	59	0.1	107		
IGT	SZ	IPN		1454	40.95	243	0.1	148		
IGT	SE	ISN		1455	00.85	243	0.1	148		
TPE	SZ	IPN		1454	42.18	277	0.1	158	55	3.4
TPE	SE	ISN		1455	03.52	277	-0.2	158		
SRN	SZ	IPN		1454	43.15	260	-0.1	161	72	3.6
SRN	SE	ISN		1455	04.28	260	0.2	161		
LKD2	SZ	IPN		1454	46.28	215	-0.1	183		
LKD2	SE	ISN		1455	10.67	215	0.1	183		
VOL	SZ	IPN		1454	49.45	281	-0.2	207	67	3.6
VLO	SE	ISN		1455	15.01	281	-0.1	204		
PHP	SZ	IPN		1454	48.92	326	-0.3	208	67	3.6
PHP	SE	ISN		1455	17.24	326	0.2	208		
TIR	SZ	IPN		1454	51.78	309	0.1	214	77	3.7
TIR	SE	ISN		1455	20.79	309	0.3	214		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	3	1933	24.26	40.18	21.90	14	ASN	9	0.2	3.4	GREECE
				GAP=156			hor.err=3km			ver.err=1KM		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
THE	SZ	IPG		1933	42.59	60	0.1	102		
THE	SE	ISG		1933	55.98	60	-0.1	102		
IGT	SZ	IPN		1933	50.80	243	0.2	153		
IGT	SE	ISN		1934	11.74	243	0.2	153		
TPE	SZ	IPN		1933	51.55	276	-0.1	162	48	3.4
TPE	SE	ISN		1934	12.57	276	-0.2	162		
SRN	SZ	IPN		1933	52.71	259	-0.1	166	46	3.3
SRN	SE	ISN		1934	14.23	259	0.2	166		
LKD2	SZ	IPN		1933	55.56	216	-0.3	188		
LKD2	SE	ISN		1934	20.04	216	0.1	188		
VOL	SZ	IPN		1933	59.92	280	0.2	207	46	3.4
PHP	SZ	IPN		1933	57.14	324	-0.3	208		
PHP	SE	ISN		1934	24.83	324	0.2	208		
TIR	SZ	IPN		1934	00.05	308	0.1	215	49	3.4
TIR	SE	ISN		1934	27.12	308	0.2	215		
BCI	SZ	IPN		1934	10.00	329	-0.3	287	68	3.7

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	5	1048	21.389	42.43	19.30	7	ASN	3	0.2	3.2	MONTENEGRO
				GAP=170			hor.err=17km			ver.err=2KM		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		1048	31.32	96	0.1	63	30	2.8
PUK	SE	ISG		1048	41.99	96	-0.2	63		
BCI	SZ	IPG		1048	32.52	132	0.1	65	30	2.8
BCI	SE	ISG		1048	42.57	132	-0.3	65		
PHP	SZ	IPG		1048	43.82	131	0.1	125	45	3.2
PHP	SE	ISG		1049	00.21	131	0.1	125		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	5	1838	57.30								
GAP=				hor.err=			ver.err=					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		1838	57.30					
PHP	SE	ISG		1839	04.25					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	5	2151	25.75	40.27	20.66	12	ASN	3	0.4	2.5	SOUTH ERSEKA
GAP=240				hor.err=1km			ver.err=3KM			-ALBANIA		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TPE	SZ	IPG		2151	36.17	273	0.0	55	19	2.4
TPE	SE	ISG		2151	43.56	273	-0.1	55		
SRN	SZ	IPG		2151	38.46	233	0.1	71	21	2.5
SRN	SE	ISG		2151	48.48	233	0.0	71		
IGT	SZ	IPG		2151	41.36	200	0.1	87		
IGT	SE	ISG		2151	53.09	200	-0.1	87		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	6	1313	05.33								
GAP=				hor.err=			ver.err=					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		1313	05.33					
PHP	SE	ISG		1313	08.30					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013 7 8 0920 05.59 41.18 20.15 3 ASN 5 0.1 2.9 N-E ELBASAN
GAP=163 hor.err=2km ver.err=1KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0920	11.73	306	0.1	30	26	2.6
TIR	SE	ISG		0920	16.34	306	0.1	30		
PHP	SZ	IPG		0920	16.87	303	0.0	60	31	2.9
PHP	SE	ISG		0920	25.31	303	0.1	60		
BCI	SZ	IPG		0920	29.01	352	0.1	131	34	2.9
BCI	SE	ISG		0920	46.71	352	0.1	131		
SRN	SZ	IPN		0920	32.13	186	-0.1	145	36	3
SRN	SE	ISN		0920	50.11	186	0.1	145		
IGT	SZ	IPN		0920	37.01	175	0.2	183		
IGT	SE	ISN		0921	00.61	175	-0.1	183		

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter
2013 7 8 2030 32.50 41.50 20.43 2 ASN 3 0.1 2.3 GJORICE, DIBER
GAP=248 hor.err=1km ver.err=2KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		2030	31.83	2	0.0	20	18	2.3
PHP	SE	ISG		2030	36.59	2	0.1	20		
TIR	SZ	IPG		2030	35.56	250	0.2	50	16	2.3
TIR	SE	ISG		2030	47.18	250	0.1	50		
BCI	SZ	IPG		2030	52.01	343	0.0	100	19	2.3
BCI	SE	ISG		2031	02.58	343	0.1	100		

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter
2013 7 8 0226 21.12
GAP= hor.err= ver.err=

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0226	21.12					
PHP	SE	ISG		0226	24.53					

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter
2013 7 9 0818 13.77 42.57 19.76 7 ASN 3 0.1 2.7 EAST VERMOSH
GAP=323 hor.err=1km ver.err=2KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPG		0818	20.25	133	0.0	33	28	2.7
BCI	SE	ISG		0818	24.93	133	0.1	33		
PUK	SZ	IPG		0818	24.68	170	0.1	60	29	2.7
PUK	SE	ISG		0818	32.92	170	0.1	60		
PHP	SZ	IPG		0818	33.96	150	0.0	113	29	2.7
PHP	SE	ISG		0818	46.78	150	0.1	113		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013	7	11	0029	09.47								
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GAP=

hor.err=

ver.err=

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0029	09.47					
TIR	SE	ISG		0029	14.60					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013	7	11	0049	13.96	41.48	19.76	16	ASN	3	0.1	2.4	FUSHE-KRUJE
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GAP=218

hor.err=2km

ver.err=1KM

-ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0049	16.43	151	0.2	18	17	2.3
TIR	SE	ISG		0049	21.58	151	0.1	18		
PHP	SZ	IPG		0049	25.13	68	0.0	60		
PHP	SE	ISG		0049	33.48	68	0.1	60		
PUK	SZ	IPG		0049	25.44	9	0.0	62	17	2.4
PUK	SE	ISG		0049	33.07	9	0.0	62		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013	7	11										
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GAP=

hor.err=

PHP

ver.err=

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0353	04.38					
PHP	SE	ISG		0353	08.22					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013	7	11	0650	27.20	40.29	19.69	26	ASN	4	0.1	2.5	26KM S-E VLORE
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GAP=218

hor.err=2km

ver.err=1KM

-ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
VLO	SZ	IPG		0650	33.60	319	0.0	26	17	2.5
VLO	SE	ISG		0650	38.44	319	0.0	26		
TPE	SZ	IPG		0650	33.61	90	-0.1	26	17	2.5
TPE	SE	ISG		0650	38.62	90	-0.1	26		
SRN	SZ	IPG		0650	37.49	150	0.1	53	20	2.6
SRN	SE	ISG		0650	45.02	150	0.1	53		
PUK	SZ	IPN		0650	59.98	4	0.1	194		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013 7 11 2316 45.10 41.09 20.18 9 ASN 4 0.1 2.7 SHUSHIC-ELBASAN
GAP=299 hor.err=1km ver.err=1KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2316	52.04	318	0.1	38	22	2.5
TIR	SE	ISG		2316	58.71	318	0.1	38		
PHP	SZ	IPG		2316	57.88	17	0.0	69	32	2.9
PHP	SE	ISG		2317	06.11	17	-0.1	69		
PUK	SZ	IPG		2317	04.05	348	0.0	108	31	2.9
PUK	SE	ISG		2317	09.18	348	0.1	108		
BCI	SZ	IPN		2317	10.33	352	0.0	141	32	2.9
BCI	SE	ISN		2317	28.31	352	0.1	141		

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter
2013 7 11 2336 53.73 41.09 20.21 7 ASN 4 0.1 2.8 SHUSHIC-ELBASAN
GAP=300 hor.err=1km ver.err=1KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2337	01.12	316	0.0	40	28	2.8
TIR	SE	ISG		2337	07.41	316	0.0	40		
PHP	SZ	IPG		2337	06.11	16	0.1	68	28	2.8
PHP	SE	ISG		2337	15.71	16	-0.1	68		
PUK	SZ	IPG		2337	09.37	347	0.0	109	31	2.9
PUK	SE	ISG		2337	27.48	347	-0.1	109		
BCI	SZ	IPN		2337	19.49	356	-0.1	142	34	3
BCI	SE	ISN		2337	37.41	356	0.0	142		

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter
2013 7 12 0228 44.25 41.91 20.34 7 ASN 3 0.1 2.4 SKAVICE,KUKES
GAP=184 hor.err=1km ver.err=1KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0228	27.54	161	0.1	25	19	2.4
PHP	SE	ISG		0228	31.28	161	0.0	25		
PUK	SZ	IPG		0228	19.97	293	0.0	40	21	2.5
PUK	SE	ISG		0228	35.67	293	0.1	40		
BCI	SZ	IPG		0228	32.61	332	0.1	56	28	2.8
BCI	SE	ISG		0228	40.44	3332	0.0	56		

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter
2013 7 12 0330 48.25 41.09 20.20 7 ASN 3 0.1 2.5 SHUSHIC-ELBASAN
GAP=300 hor.err=1km ver.err=1KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0330	55.65	316	0.0	40	21	2.5

TIR	SE	ISG	0331	01.51	316	0.0	40					
PHP	SZ	IPG	0331	00.96	16	-0.1	69	22	2.5			
PHP	SE	ISG	0331	10.05	16	0.0	69					
PUK	SZ	IPG	0331	07.25	348	0.1	108	22	2.5			
PUK	SE	ISG	0331	22.55	348	-0.1	108					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013 7 12 1254 43.86

GAP=

hor.err=

ver.err=

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		1254	43.86					
PHP	SE	ISG		1254	45.86					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013 7 13 1028 52.70

GAP=

hor.err=

ver.err=

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		1028	52.70					
PHP	SE	ISG		1028	58.60					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013 7 13 1254 51.08 41.04 20.23 8 ASN 3 0.2 2.6 S-E ELBASAN
GAP=305 hor.err=0km ver.err=1km -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		1255	00.39	318	0.0	46	16	2.3
TIR	SE	ISG		1255	06.84	318	0.0	46		
PHP	SZ	IPG		1255	05.06	13	0.1	73	25	2.6
PHP	SE	ISG		1255	15.02	13	0.0	73		
BCI	SZ	IPN		1255	18.56	355	-0.1	148	28	2.8
BCI	SE	ISN		1255	37.01	355	0.1	148		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013 7 13 1458 30.85

GAP=

hor.err=

ver.err=

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		1458	30.85					
TIR	SE	ISG		1458	34.21					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013 7 14 2055 07.38

GAP=

hor.err=

ver.err=

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		2055	07.38					
PHP	SE	ISG		2055	12.73					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	15	0031	08.24	42.48	20.06	7	ASN	4	0.1	2.6	NORTH B.CURRI -ALBANIA
GAP=302				hor.err=0km			ver.err=1km					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPG		0031	11.20	175	0.0	11	25	2.6
BCI	SE	ISG		0031	13.81	175	0.1	11		
PUK	SZ	IPG		0031	17.48	196	0.0	50	24	2.6
PUK	SE	ISG		0031	24.60	196	0.0	50		
PHP	SZ	IPG		0031	23.95	160	0.0	94	25	2.6
PHP	SE	ISG		0031	37.66	160	0.1	94		
TIR	SZ	IPG		0031	34.15	188	0.0	126	25	2.6
TIR	SE	ISG		0031	47.42	188	-0.1	126		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	16	2007	50.22	38.23	21.10	8	ASN	9	0.2	3.9	GREECE
GAP=297				hor.err=3km			ver.err=4KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
LKD2	SZ	IPN		2008	39.58	334	-0.2	163		
LKD2	SE	ISN		2008	19.13	334	0.2	163		
IGT	SZ	IPN		2008	31.50	337	0.1	250		
IGT	SE	ISN		2009	02.96	337	-0.1	250		
SRN	SZ	IPN		2008	37.44	335	-0.1	297	71	3.8
SRN	SE	ISN		2009	13.38	335	-0.2	297		
TPE	SZ	IPN		2008	43.16	339	-0.1	338	80	3.9
TPE	SE	ISN		2009	22.61	339	0.1	338		
SCTE	SZ	IPN		2008	50.57	319	0.2	391		
TIR	SZ	IPN		2008	58.14	343	0.1	452	83	4
TIR	SE	ISN		2009	49.45	343	-0.1	452		
PHP	SZ	IPN		2008	58.42	350	0.3	476		
PHP	SE	ISN		2009	51.15	350	-0.3	476		
BCI	SZ	IPN		2009	08.45	348	-0.2	556		
SGRT	SZ	IPN		2009	28.24	316	-0.2	684		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	17	0124	01.58	41.26	20.32	12	ASN	3	0.3	2.1	N-E ELBASAN -ALBANIA
GAP=274				hor.err=1km			ver.err=2KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0124	09.07	285	0.0	39	12	2.0
TIR	SE	ISG		0124	14.51	285	-0.1	39		
PHP	SZ	IPG		0124	10.50	11	0.0	48	13	2.1
PHP	SE	ISG		0124	17.20	11	0.0	48		
PUK	SZ	IPG		0124	18.15	328	0.1	93	14	2.2
PUK	SE	ISG		0124	30.93	328	-0.1	93		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	18	1908	17.09	42.49	20.16	8	ASN	4	0.1	2.6	NORTH B.CURRI -ALBANIA
				GAP=302		hor.err=2km						ver.err=1km

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPG		1908	20.65	208	0.0	16	23	2.5
BCI	SE	ISG		1908	23.19	208	-0.1	16		
PUK	SZ	IPG		1908	27.12	204	-0.1	55	23	2.6
PUK	SE	ISG		1908	34.81	204	0.1	55		
PHP	SZ	IPG		1908	33.92	165	0.2	93	37	3
PHP	SE	ISG		1908	46.12	165	-0.1	93		
TIR	SZ	IPG		1908	40.12	191	0.0	130		
TIR	SE	ISG		1908	57.47	191	0.1	130		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	19	1119	02.08	40.09	20.02	3	ASN	5	0.2	2.6	6KM S HIMARA -ALBANIA
				GAP=160		hor.err=2km						ver.err=2km

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TPE	SZ	IPG		1119	05.53	357	0.0	22	26	2.6
TPE	SE	ISG		1119	09.62	357	-0.1	22		
SRN	SZ	IPG		1119	06.41	186	0.0	23	26	2.6
SRN	SE	ISG		1119	10.51	186	-0.1	23		
VLO	SZ	IPG		1119	13.26	313	0.1	61	27	2.6
VLO	SE	ISG		1119	23.75	313	0.1	61		
IGT	SZ	IPG		1119	14.32	157	-0.1	67		
IGT	SE	ISG		1119	25.70	157	0.1	67		
PHP	SZ	IPN		1119	34.51	12	0.1	180		
PHP	SE	ISN		1119	58.86	12	0.2	180		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	20	0247	52.86	41.77	20.17	17	ASN	3	0.1	2.1	6Km E KURBNESH -ALBANIA
				GAP=207		hor.err=1km						ver.err=1km

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0247	57.51	115	0.0	24	14	2.0
PHP	SE	ISG		0248	01.42	115	-0.1	24		
PUK	SZ	IPG		0247	59.56	322	-0.1	37	14	2.0

PUK	SE	ISG	0248	05.56	322	0.1	37		
BCI	SZ	IPG	0248	04.98	353	0.0	65	15	2.0
BCI	SE	ISG	0248	13.64	353	0.1	65		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	21	0133	00.87	43.52	13.71	7	ASN	9	8.2	5.1	CENTRAL ITALY
GAP=330					hor.err=23km			ver.err=14KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SGRT	SZ	IPN		0133	01.03					
SGRT	SE	ISN		0133	49.15					
MVRN	SZ	IPN		0133	13.06					
MVRN	SE	ISN		0134	02.17					
NOCI	SZ	IPN		0133	20.15					
NOCI	SE	ISN		0134	25.31					
PUK	SZ	IPN		0133	38.18					
PUK	SE	ISN		0135	02.09					
BCI	SZ	IPN		0133	39.88					
BCI	SE	ISN		0135	03.58					
TIR	SZ	IPN		0133	40.47					
TIR	SE	ISN		0135	30.02					
PHP	SZ	IPN		0133	30.06					
PHP	SE	ISN		0135	45.69					
TPE	SZ	IPN		0133	48.73					
TPE	SE	ISN		0135	46.07					
SRN	SZ	IPN		0133	52.01					
SRN	SE	ISN		0135	51.33					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	21	0600	24.42	40.62	19.81	18	ASN	6	0.1	3.2	6Km N-E BALLSH
GAP=132					hor.err=1km			ver.err=1KM		-ALBANIA		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
VLO	SZ	IPG		0600	30.49	238	0.0	31	38	3.1
VLO	SE	ISG		0600	35.86	238	0.0	31		
TPE	SZ	IPG		0600	32.38	155	0.1	40	41	3.2
TPE	SE	ISG		0600	38.16	155	-0.1	40		
TIR	SZ	IPG		0600	38.97	3	0.0	81	42	3.2
TIR	SE	ISG		0600	49.86	3	0.1	81		
SRN	SZ	IPG		0600	39.66	168	0.1	84	42	3.2
SRN	SE	ISG		0600	50.64	168	0.1	84		
PHP	SZ	IPG		0600	46.45	23	0.0	129	43	3.2
PHP	SE	ISG		0601	03.41	23	-0.1	129		
BCI	SZ	IPN		0600	56.89	6	0.0	195	49	3.4
BCI	SE	ISN		0601	21.43	6	0.1	195		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	23	1038	15.62	41.88	20.19	7	ASN	3	0.1	2.3	ARRE-MOLLE -ALBANIA
				hor.err=1km			ver.err=1km					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		1038	20.96	325	0.0	30	17	2.3
PHP	SE	ISG		1038	26.10	325	0.0	30		
PUK	SZ	IPG		1038	21.32	188	0.1	31	17	2.3
PUK	SE	ISG		1038	26.31	188	0.0	31		
BCI	SZ	IPG		1038	25.50	302	0.0	55	17	2.3
BCI	SE	ISG		1038	33.59	302	0.1	55		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	23	2331	16.17	41.07	20.12	7	ASN	3	0.1	2.5	4KM S ELBASAN -ALBANIA
				hor.err=1km			ver.err=1km					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2331	25.17	320	0.0	37	21	2.5
TIR	SE	ISG		2331	30.41	320	0.0	37		
PHP	SZ	IPG		2331	31.43	138	0.1	73	21	2.5
PHP	SE	ISG		2331	41.30	168	-0.1	73		
PUK	SZ	IPG		2331	37.41	220	0.0	109	21	2.5
PUK	SE	ISG		2331	50.41	220	0.1	109		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	24	0237	52.90	41.53	20.21	15	ASN	4	0.1	2.7	6KM N-W BULQIZE -ALBANIA
				hor.err=1km			ver.err=1km					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0237	58.28	49	0.0	26	28	2.7
PHP	SE	ISG		0238	02.36	49	0.0	26		
TIR	SZ	IPG		0237	59.96	225	0.1	35	28	2.7
TIR	SE	ISG		0238	04.97	225	-0.1	35		
PUK	SZ	IPG		0238	03.76	334	-0.1	26	28	2.7
PUK	SE	ISG		0238	07.96	334	0.1	26		
BCI	SZ	IPG		0238	09.42	356	0.0	26	30	2.8
BCI	SE	ISG		0238	11.98	356	0.1	26		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	25	2206	51.52	41.11	20.05	17	ASN	4	0.1	2.6	4KM W ELBASAN -ALBANIA
				hor.err=0km			ver.err=1km					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2206	57.80	330	0.1	30	23	2.6
TIR	SE	ISG		2207	02.56	330	0.1	30		

PHP	SZ	IPG	2207	05.23	26	0.1	71	25	2.7
PHP	SE	ISG	2207	14.18	26	0.1	71		
PUK	SZ	IPG	2207	09.80	353	0.1	104	20	2.6
PUK	SE	ISG	2207	23.51	353	-0.1	104		
BCI	SZ	IPN	2207	14.37	0	-0.1	134		
BCI	SE	ISN	2207	33.61	0	-0.1	134		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	25	2321	00.17	41.28	19.96	12	ASN	3	0.1	2	4KM WEST ELBASAN -ALBANIA
				GAP=304	hor.err=0km							ver.err=1km

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2321	03.67	312	-0.1	11	12	1.8
TIR	SE	ISG		2321	05.31	312	0.1	11		
PHP	SZ	IPG		2321	11.16	41	0.1	59	15	2.2
PHP	SE	ISG		2321	19.90	41	0.1	59		
PUK	SZ	IPG		2321	14.91	357	0.1	84		
PUK	SE	ISG		2321	27.15	357	-0.1	84		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	27	0124	22.32	42.18	2327	7	ASN	4	0.6	4.1	BULGARIA
				GAP=353	hor.err=3km							ver.err=4km

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPN		0125	01.47	258	0.2	241	112	4.1
PHP	SE	ISN		0125	31.44	258	0.1	241		
BCI	SZ	IPN		0125	05.67	276	-0.2	265	125	4.2
BCI	SE	ISN		0125	43.93	276	0.1	265		
PUK	SZ	IPN		0125	07.72	280	0.2	280	111	4.1
PUK	SE	ISN		0125	47.11	280	-0.3	280		
TIR	SZ	IPN		0125	10.94	298	-0.3	298		
TIR	SE	ISN		0125	46.94	298	-0.4	298		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	27	0438	32.27	40.22	21.75	5	ASN	7	0.1	4.2	GREECE
				GAP=265	hor.err=2km							ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
IGT	SZ	IPN		0438	57.96	239	0.1	146		
IGT	SE	ISN		0439	18.50	239	0.1	146		
SRN	SZ	IPN		0439	00.31	275	-0.2	151	122	4.2
SRN	SE	ISN		0439	18.91	275	-0.1	151		
TPE	SZ	IPN		0439	00.71	275	0.1	156	125	4.2
TPE	SE	ISN		0439	19.36	275	-0.1	156		
PHP	SZ	IPN		0439	06.34	326	0.1	197	138	4.3
PHP	SE	ISN		0439	36.01	326	0.1	197		

TIR	SZ	IPN	0439	07.30	309	-0.2	204
TIR	SE	ISN	0439	38.11	309	0.1	204
PUK	SZ	IPN	0439	14.71	323	0.1	256
PUK	SE	ISN	0439	47.99	323	0.3	256
BCI	SZ	IPN	0439	16.73	330	-0.2	277
BCI	SE	ISN	0439	56.11	330	0.2	277

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	27	1329	11.28	41.17	19.94	23	ASN	3	0.1	2.6	18KM S-E TIRANE
				GAP=306	hor.err=2km							-ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		1329	16.26	341	0.1	20	20	2.4
TIR	SE	ISG		1329	19.80	341	-0.1	20		
PHP	SZ	IPG		1329	23.89	35	-0.1	70	23	2.7
PHP	SE	ISG		1329	33.79	35	0.1	70		
PUK	SZ	IPG		1329	28.32	358	-0.1	96	18	2.5
PUK	SE	ISG		1329	40.79	358	0.1	96		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	28	1151	53.21								
				GAP=	hor.err=							

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		1151	53.21					
TIR	SE	ISG		1151	57.50					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	28	1354	30.77	37.59	21.25	5	ASN	9	0.4	4.2	GREECE
				GAP=324	hor.err=1km							

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
LKD2	SZ	IPN		1354	56.19	142	0.1	146		
LKD2	SE	ISN		1355	14.52	142	-0.1	146		
IGT	SZ	IPN		1355	10.42	229	0.2	146		
IGT	SE	ISN		1355	38.47	229	-0.1	146		
SRN	SZ	IPN		1355	15.87	275	0.2	151	105	4.1
SRN	SE	ISN		1355	49.78	275	-0.1	151		
TPE	SZ	IPN		1355	21.55	318	0.2	156	105	4.1
TPE	SE	ISN		1355	57.79	318	-0.3	156		
VLO	SZ	IPN		1355	25.59	352	0.1	197	125	4.3
VLO	SE	ISN		1356	06.56	352	0.2	197		
TIR	SZ	IPN		1355	36.53	432	-0.2	204	109	4.2
TIR	SE	ISN		1356	25.96	432	-0.1	204		
PHP	SZ	IPN		1355	39.65	458	-0.2	197	108	4.2
PHP	SE	ISN		1356	31.86	458	0.2	197		

PUK	SZ	IPN	1355	45.97	506	0.2	256	93	4.2
PUK	SE	ISN	1356	43.56	506	-0.4	256		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013	7	28	1822	48.14								
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GAP=					hor.err=					ver.err=		
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STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		1822	48.14					
TIR	SE	ISG		1822	51.74					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013	7	28	2051	39.82								
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GAP=					hor.err=					ver.err=		
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STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2051	39.82					
TIR	SE	ISG		2051	42.13					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013	7	28	2141	45.34								
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GAP=					hor.err=					ver.err=		
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STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2141	45.34					
TIR	SE	ISG		2141	48.42					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013	7	29	0044	28.56	41.24	20.11	11	ASN	7	0.1	2.8	15KM N ELBASAN
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GAP=156					hor.err=1km					ver.err=1km		-ALBANIA
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STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0044	33.33	299	0.1	24	27	2.7
TIR	SE	ISG		0044	37.32	299	-0.1	24		
PHP	SZ	IPG		0044	39.70	28	-0.1	56	29	2.8
PHP	SE	ISG		0044	46.57	28	0.2	56		
PUK	SZ	IPG		0044	44.91	349	0.1	91	29	2.8
PUK	SE	ISG		0044	57.06	349	-0.1	91		
VLO	SZ	IPG		0044	46.36	212	0.1	101	30	2.9
VLO	SE	ISG		0045	00.02	212	-0.1	101		
TPE	SZ	IPG		0044	47.50	186	0.2	106		
TPE	SE	ISG		0045	01.94	186	-0.1	106		
BCI	SZ	IPG		0044	50.23	359	0.1	125		
BCI	SE	ISG		0045	07.26	359	-0.1	125		

SRN	SZ	IPN	0044	55.07	184	-0.1	151	32	3
SRN	SE	ISN	0045	14.67	184	0.2	151		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013	7	29	0045	22.28								
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GAP=					hor.err=					ver.err=		
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STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0045	09.12					
TIR	SE	ISG		0045	13.41					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013	7	29	0356	28.28	40.81	21.70	10	ASN	6	0.1	2.7	GREECE
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GAP=267					hor.err=2km					ver.err=1km		
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STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPN		0356	53.44	313	0.2	143	25	2.7
PHP	SE	ISN		0357	11.72	313	-0.2	143		
TPE	SZ	IPN		0356	54.89	249	-0.1	155		
TPE	SE	ISN		0357	15.38	249	0.1	155		
TIR	SZ	IPN		0356	56.66	292	-0.1	166	23	2.7
TIR	SE	ISN		0357	18.15	292	0.1	166		
SRN	SZ	IPN		0356	58.99	236	0.2	179	21	2.6
SRN	SE	ISN		0357	21.20	236	-0.2	179		
IGT	SZ	IPN		0356	59.85	221	0.1	185		
IGT	SE	ISN		0357	23.34	221	-0.1	185		
PUK	SZ	IPN		0357	02.90	313	0.2	204	26	2.8
PUK	SE	ISN		0357	29.01	313	-0.2	204		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013	7	29	2303	08.71	42.04	20.71	7	ASN	4	0.1	2.4	DRAGAS, KOSOVE
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GAP=261					hor.err=1km					ver.err=1km		
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STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		2303	37.63	211	-0.1	45	20	2.4
PHP	SE	ISG		2303	43.42	211	0.0	45		
BCI	SZ	IPG		2303	39.75	305	0.0	64	19	2.4
BCI	SE	ISG		2303	49.45	305	0.1	64		
PUK	SZ	IPG		2303	42.04	271	0.0	68	20	2.4
PUK	SE	ISG		2303	50.21	271	-0.1	68		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013	7	30	1653	15.71	42.02	20.45	7	ASN	3	0.1	2.4	5KM EAST KUKES
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GAP=156					hor.err=1km					ver.err=1km		-ALBANIA
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STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		1655	22.65	182	-0.1	37	17	2.3
PHP	SE	ISG		1655	27.88	182	0.0	37		
PUK	SZ	IPG		1655	24.36	274	0.0	47	19	2.4
PUK	SE	ISG		1655	30.57	274	0.0	47		
PHP	SZ	IPG		1655	25.04	321	0.1	50	20	2.4
PHP	SE	ISG		1655	31.96	321	-0.1	50		

TERMETET E LARGETA (LONG DISTANCE EARTHQUAKES)

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	3	1928	42.50	1.54	30.70					5.7	LAKE ALBERT REGION
				GAP=246	hor.err=		ver.err=					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IP		1929	18.17					
TPE	SZ	IP		1929	20.96					
TIR	SZ	IP		1929	30.01					
PHP	SZ	IP		1929	31.13					
VLO	SZ	IP		1929	32.55					
BCI	SZ	IP		1929	36.85					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	15	1421	43.06	60.95	25.11		ASN			7.3	SANDWICH ISLANDS REGION
				GAP=	hor.err=		ver.err					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IP		1422	18.06					
TPE	SZ	IP		1422	25.13					
VLO	SZ	IP		1422	26.01					
TIR	SZ	IP		1422	33.74					
PHP	SZ	IP		1422	36.79					
BCI	SZ	IP		1422	42.05					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	22	2356	01.72	34.52	104.23		ASN			6	GANSU KINE
				GAP=	hor.err=		ver.err					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IP		2356	25.01					
PHP	SZ	IP		2356	43.48					
PUK	SZ	IP		2356	28.44					
TIR	SZ	IP		2356	48.64					
VLO	SZ	IP		2356	36.79					
TPE	SZ	IP		2356	49.11					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	7	30	0533	43.85	40.25	25.86	7	ASN	7		5.1	AEGEAN SEA
GAP=				hor.err=			ver.err					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TPE	SZ	IP		0534	25.36					
SRN	SZ	IP		0534	18.76					
PHP	SZ	IP		0534	18.89					
TIR	SZ	IP		0534	26.11					
VLO	SZ	IP		0534	45.53					
PUK	SZ	IP		0534	24.90					
BCI	SZ	IP		0534	23.40					

PËRSHKRIM MAKROSIZMIK I TËRMEVEVE TË NDJESHME NË VENDIN TONË

Intensiteti i tërmetit në epiqendër I_0 është përcaktuar me formulën $I_0 = \dots$. Intensiteti I në qytete është përcaktuar nga informacioni i marrë mbi ndjeshmerinë e tërmetit nga emergjencat civile si dhe burime të tjera.

MACROSEISMIC DESCRIPTION OF EARTHQUAKES FELT IN OUR COUNTRY

The epicentral Intensity of earthquake I_0 is determined by the formula $I_0 = \dots$. The felt

informacion of earthquakes in inhabitation zones
provide by civil emergencies and other source is

used to determine the Intensity I.

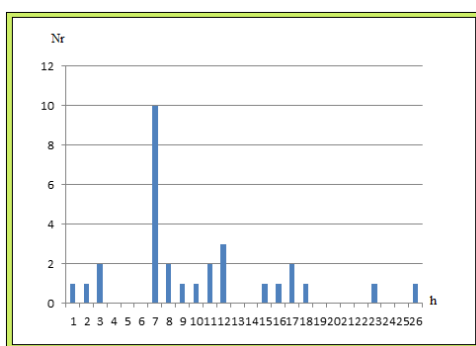
Nr	Data (Date)	Kohëndodhja (Origin time)	Epiqendra dhe të dhëna makrosizmike EMS-98 (Epicenter and macroseismic data EMS-98)
1	3.07.2013	01:07:31.7	Epiqendra: 40.95V; 20.07L, 8 km në Veri të qytetit Gramshit. Intensiteti i tërmetit në epiqendër $I_0=III-IV$ balle Ndjerë: III ballë ne qytetin e Gramshit. (Epicentre: 41.95N; 20.07E, 8 km North of Gramshi town. Epicentral Intensity $I_0=III-IV$. Felt: III at Gramshi town
2	21.07.2013	13:15:14.9	Epiqendra: 40.62V; 19.81L, 6 km në Verilindje të qytetit Ballshit. Intensiteti i tërmetit në epiqendër $I_0=III$ balle Ndjerë: III ballë ne qytetin e Ballshit, (Epicentre: 40.62N; 19.18E, 6 km North-East of Ballshi town. Epicentral Intensity $I_0=III$. Felt: III at Ballshi town.

KATALOGU I TËRMEVEVE MUJORE (THE MONTHLY EARTHQUAKE CATALOG)

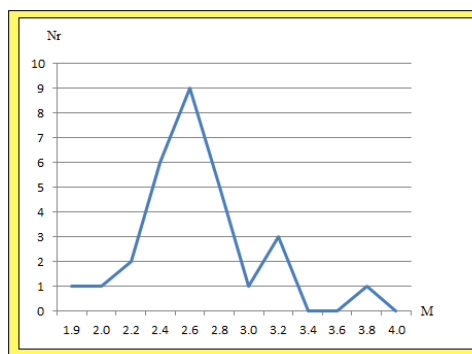
Data Date	Koha Time	Gjer. Lat	Gjat Long.	Thell. Depth (km)	Nr. St. N ₀ . St	Gab Rms	Mag. (M_D)	Vendndodhja Location
2013 7 1	1528	37.09	41.86	20.50	11	3 0.2 2.8	RANDOMIRE DIBER	
2013 7 2	0815	21.83	39.22	18.85	10	7 0.1 3.7	SOUTHERN ITALY	
2013 7 2	1045	23.64	40.22	21.86	20	9 0.2 4.7	GREECE	
2013 7 3	0101	57.57	40.21	21.84	5	5 0.2 3.3	GREECE	

2013	7	3	0107	31.73	40.95	20.07	1	6	0.1	3.2	GRAMSH-ALBANIA
2013	7	3	1309	11.19	40.12	21.84	9	8	0.2	4.2	GREECE
2013	7	3	1328	23.91	40.12	21.85	10	9	0.3	4.2	GREECE
2013	7	3	1454	14.17	40.15	21.85	1	9	0.4	3.6	GREECE
2013	7	3	1933	24.26	40.18	21.90	14	9	0.2	3.4	GREECE
2013	7	5	1048	21.38	42.43	19.30	7	3	0.2	3.2	MONTENEGRO
2013	7	5	2151	25.75	40.27	20.66	12	3	0.4	2.5	7KM SOUTH ERSEKA
2013	7	8	0920	05.59	41.18	20.15	3	5	0.1	2.9	10 KM N-E ELBASAN
2013	7	8	2030	32.50	41.50	20.43	2	3	0.1	2.3	GJORICE, DIBER
2013	7	9	0818	13.77	42.57	19.76	7	3	0.1	2.7	4KM EAST VERMOSH
2013	7	11	0049	13.96	41.48	19.76	16	3	0.1	2.4	3KM EAST FUSHE-KRUJE
2013	7	11	0650	27.20	40.29	19.69	26	4	0.1	2.5	26KM S-E VLORE
2013	7	11	2316	45.10	41.09	20.18	9	4	0.1	2.7	SHUSHICE, ELBASAN
2013	7	11	2336	53.73	41.09	20.21	7	4	0.1	2.8	SHUSHICE, ELBASAN
2013	7	12	0228	44.25	41.91	20.34	7	3	0.1	2.4	SKAVICE, KUKES
2013	7	12	0330	48.25	41.09	20.20	7	3	0.1	2.5	SHUSHICE, ELBASAN
2013	7	13	1254	51.08	41.04	20.23	8	3	0.2	2.6	13KM S-E ELBASAN
2013	7	15	0031	08.24	42.48	20.06	7	4	0.1	2.6	11KM NORTH B. CURRI
2013	7	16	2007	50.22	38.23	21.10	8	9	0.2	3.9	GREECE
2013	7	17	0124	01.58	41.26	20.32	12	3	0.3	2.1	23KM N-E ELBASAN
2013	7	18	1908	17.09	42.49	20.16	8	4	0.1	2.6	16KM NORTH B. CURRI
2013	7	19	1119	02.08	40.09	20.02	3	5	0.2	2.6	6KM SOUTH HIMARA
2013	7	20	0247	52.86	41.77	20.17	17	3	0.1	2.1	6Km EAST KURBNESH
2013	7	21	0600	24.42	40.62	19.81	18	6	0.1	3.2	6Km N-E BALLSH
2013	7	23	1038	15.62	41.88	20.19	7	3	0.1	2.3	ARRE-MOLLE
2013	7	23	2331	16.17	41.07	20.12	7	3	0.1	2.5	4KM SOUTHERN ELBASAN
2013	7	24	0237	52.90	41.53	20.21	15	4	0.1	2.7	6KM N-W BULQIZE
2013	7	25	2206	51.52	41.11	20.05	17	4	0.1	2.6	4KM WESTERN ELBASAN
2013	7	25	2321	00.17	41.28	19.96	12	3	0.1	2	4KM WESTERN ELBASAN
2013	7	27	1329	11.28	41.17	19.94	23	3	0.1	2.6	18KM S-E TIRANE
2013	7	28	1354	30.77	37.59	21.25	5	9	0.4	4.2	GREECE
2013	7	29	0044	28.56	41.24	20.11	11	7	0.1	2.8	15KM NORTH ELBASAN
2013	7	29	0356	28.28	40.81	21.70	10	6	0.1	2.7	GREECE
2013	7	29	2303	08.71	42.04	20.71	7	4	0.1	2.4	DRAGAS, KOSOVE
2013	7	30	1653	15.71	42.02	20.45	7	3	0.1	2.4	5KM EAST KUKES

Karakteristikat e pergjithshme (General Characteristics)	Vlerat (Data values)
➤ Ngjarje sizmike të ndodhura në kuadrantin (39-43 V; 18.5-21.5 L)	30
Events occurred within quadrant	
➤ Ngjarje sizmike të ndodhura brenda kufijve shtetërore	27
Events occurred inside state boundaries	
➤ Thellësia mesatare e ngjarjeve sizmike	10
Mean hypocenter depth	
➤ Thellësia maksimale	26
Maximum hypocenter depth	
➤ Magnituda lokale minimale e regjistruar	2.0
Minimum recorded local magnitude	
➤ Magnituda lokale maksimale e regjistruar	3.7
Maximum recorded local magnitude	
➤ Intensiteti sizmik maksimal ne epiqendër	IV
Maximum seismic intensity	



Grafiku i shpërndarjes së numurit të ngjarjeve
sizmike mujore në vartesi të thellësisë (djathtas)
magnitudës (majtas)



Distribution graphic of monthly seismic event
number according to depth (right) magnitude
(left)

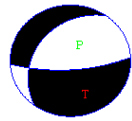
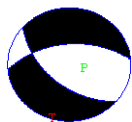
Zgjidhja e mekanizmit vatror (ZMV)

Për zgjidhjen e mekanizmit të vates janë përdorur polaritetet e hyrjeve të para P (Pg/Pn), të përcaktuara mbi format valore që shprehin funksionin kohor të burimit sizmik perkatës, në fushën e shpejtësisë. Janë përdorur regjistrimet në bandë të gjere frekuenciale (0.2 – 30 Hz), të cilat janë modeluar nëpermjet filtrave band-pass: 1.0-5.0 Hz, 2.0-10 Hz dhe 0.1-3.0 Hz. Për të arritur zgjidhjen optimale janë përdorur edhe raporti i amplitudave të valëve volumore AMPSg/AMPPg, (AMPSn/AMPPn), të cilat janë lexuar mbi komponentet e transformuara nga sistemi koordinativ gjeografik në atë sferik (vertikal, radial dhe transversal). Eshtë realizuar një kerkim në rrjetin koordinativ me interval 5.0 – 10 grad, duke vendosur kriteret për gabimin në polaritetet e përdorura. Për zgjidhjen përfundimtare është përdorur programi FOCMEC (Snoke. et al., 1984), ndërsa për të optimizuar zgjidhjen është përdorur programi HASH (Hardebeck & Shearer, 2003).

Focal Mechanism Solution (FMS)

For focal mechanism solution, the first onset polarity of P (Pg/Pn) are used, picked on the source time function respective waveforms. This is done for the velocity field recordings. Broadband recordings are used within the frequency range 0.2-30 Hz, witch are modeled by band-pass filtering in the ranges: 1.0-5.0 Hz, To achieve the optimum solution also the amplitude ratio of the type AMPSg/AMPPg, (AMPSn/AMPPn), are used. These amplitudes are red on rotated and corrected components, from the geographic system to the spherical one (vertical, radial and transversal). A grid search at the 5.0-10 degree cells interval has been applied, setting first the allowed error threshold for polarity readings. For final solution the FOCMEC program has been used (Snoke. et al., 1984). Whereas, to optimize the solution HASH routine(Hardebeck& Shearer, 2003), has been

applied as well.

Identifikimi i ngjarjes (Event ID)	Parametrat e burimit (Source parameters)	Magnituda (Magnitude)	Parametrat e Mekanizmit (Focal Mechanism parameters)	Tipi (Focal Type)
2013.07.03.01:07	40.96 (N) 20.07 (E) 1 (km)	3.2	P1: 87, 71, -69 P2: 215.9, 28.8, -137.4 T: 160.3, 22.9 P: 27.2, 58.2	
2013.07.21.06:00	40.62 (N) 19.81 (E) 18 (km)	3.2	P1: 131, 50, -57 P2: 265.7, 50, -57 T: 18.4, 00 P: 108.4, 65.3	

Harta e epiqendrave të tërmeteve



Legjenda e Hartes

- Shenja
- ● ● ● ●
- Magnituda 1-3 3-4 4-5 >5