

BULETINI I TËRMETEVE TË RRJETIT SIZMOLOGJIK SHQIPTAR

Gusht 2014

PARAMETRIC DATA
AND ALBANIAN'S EARTHQUAKE ANALYSIS
AUGUST 2014



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

BULETINI MUJOR I RRJETIT SIZMOLOGJIK
TË SHQIPERISË

Gusht 2014

MONTHLY BULLETIN OF THE ALBANIAN
SEISMOLOGICAL NETWORK

August 2014

Përliluar nga:
Compiled by:
Prof.Asoc.Dr. Rrapo ORMËNI
Dr. Edmond DUSHI

Redaktor përgjegjës
Redactor in Chief
Prof.Asoc.Dr. Rrapo ORMËNI

Drejtori i Institutit
Director of Institute
Prof.Asoc.Dr. Fatos HOXHA

Tiranë, 2014

INFORMACION I PERGJITSEM**Prezantim**

The Albanian Seismological Network 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: 39.0° - 43.0° V dhe 18.5° - 21.5° L.

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 Seismological Network 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 macro- seismic 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 përbërë nga punonjësit kërkues shkencor **Rrapo Ormeni dhe Edmond Dushi** si edhe ata ndihmës shkencor **Ardian Minarolli, Ervin Kasa dhe Olgert Gjuzi**.

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 & Olgert Gjuzi**.

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 ibërë 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 square)	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

BCI	SZ	IPG	0059	29.16	0	0.0	38	29	2.8
BCI	SE	ISG	0059	34.63	0	0.0	38		
PHP	SZ	IPG	0059	30.28	193	-0.7	49	36	2.8
PHP	SE	ISG	0059	37.84	193	-0.1	49		
TIR	SZ	IPG	0059	35.47	141	0.4	77		
TIR	SE	ISG	0059	46.94	141	0.4	77		
FNA	SZ	IPN	0059	51.05	167	-1.1	176		
FNA	SE	ISN	0100	16.05	167	0.4	176		
LSK	SZ	IPN	0059	59.11	140	0.3	213		
LSK	SE	ISN	0100	25.66	140	-0.2	213		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	01	0124	05.09	41.81	20.23	6	ASN	3	0.1	2.1	LURE PESHKOPI GAP=140 hor.err=2km ver.err=1KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0124	09.48	128	0.0	23	13	2.0
PHP	SE	ISG		0124	13.01	128	-0.1	23		
PUK	SZ	IPG		0124	12.39	313	0.1	38	16	2.3
PUK	SE	ISG		0124	17.47	313	-0.2	38		
FNA	SZ	IPN		0124	29.82	139	-0.1	150		
FNA	SE	ISN		0124	50.90	139	0.1	150		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	01	0411	17.13	36.91	3.13	10	ASN	5			NORTHERN ALGERIA GAP=140 hor.err=2km ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IP		0414	31.02					
VLO	SZ	IP		0414	33.33					
PUK	SZ	IP		0414	34.64					
TIR	SZ	IP		0414	35.56					
PHP	SZ	IP		0414	39.90					
BCI	SZ	IP		0414	42.43					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	01	0730	01.49	40.28	20.78	8	ASN	4	0.3	2.5	GREECE GAP=165 hor.err=7km ver.err=3KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
LSK	SZ	IPG		0730	05.83	227	0.0	21	21	2.4
LSK	SE	ISG		0730	08.90	227	0.0	21		
FNA	SZ	IPG		0730	15.37	42	0.2	76		
FNA	SE	ISG		0730	25.12	42	-0.3	76		
SRN	SZ	IPG		0730	16.18	237	0.3	80	21	2.5
SRN	SE	ISG		0730	26.39	237	-0.4	80		
IGT	SZ	IPG		0730	18.44	205	0.5	92		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	04	0230	37.24	41.19	20.72	3	ASN	7	0.2	2.3	FYR OF MACEDONIA GAP=140
					hor.err=2km						ver.err=1KM	
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
PHP	SZ	IPG		0230	48.19	337	-0.2	60	17	2.3		
PHP	SE	ISG		0230	56.54	337	-0.2	60				
FNA	SZ	IPG		0230	50.77	129	0.3	72				
FNA	SE	ISG		0231	00.28	129	0.2	72				
TIR	SZ	IPG		0230	50.67	284	0.1	74	16	2.3		
TIR	SE	ISG		0231	01.10	284	0.1	74				
LSK	SZ	IPG		0230	58.28	186	0.2	116				
LSK	SE	ISG		0231	14.40	186	0.6	116				
PUK	SZ	IPG		0230	57.99	325	-0.2	117	25	2.7		
PUK	SE	ISG		0231	14.81	325	0.2	117				
BCI	SE	IPN		0231	21.49	338	0.2	141				
SRN	SZ	IPN		0231	06.05	203	0.9	158				
SRN	SE	ISN		0231	25.94	203	-0.1	158				

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	04	1906	14.74	41.92	19.36	8	ASN	4	0.2	2.8	DAJCSH-KODER GAP=263
					hor.err=2km						ver.err=1KM-ALBANIA	
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
PUK	SZ	IPG		1906	23.29	72	0.1	45	22	2.6		
PUK	SE	ISG		1906	29.66	72	-0.2	45				
BCI	SZ	IPG		1906	28.41	49	0.0	76	36	2.9		
BCI	SE	ISG		1906	38.73	49	0.1	76				
TIR	SZ	IPG		1906	28.47	146	0.4	76				
TIR	SE	ISG		1906	38.92	146	0.3	76				
PHP	SZ	IPG		1906	31.16	206	-0.2	93	31	2.8		
PHP	SE	ISG		1906	43.66	206	-0.1	93				

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	05	0633	22.88	40.84	21.33	17	ASN	3	0.3	3.1	GREECE GAP=195
					hor.err=3km						ver.err=2KM	
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
FNA	SZ	IPG		0633	26.83	155	0.1	7				
FNA	SE	ISG		0633	29.24	155	-0.1	7				
LSK	SZ	IPG		0633	40.38	220	-0.5	100	42	3.2		
LSK	SE	ISG		0633	54.39	220	0.3	100				
PHP	SZ	IPG		0633	44.57	322	0.3	120	33	3.0		
PHP	SE	ISG		0633	59.61	322	-0.2	120				

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	05	1317	18.15	41.76	20.36	6	ASN	4	0.1	2.4	SHUMBAT-PESHKOPI GAP=143
					hor.err=2km				ver.err=1KM		-ALBANIA	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		1317	20.85	145	0.0	11	20	2.3
PHP	SE	ISG		1317	22.57	145	0.0	11		
PUK	SZ	IPG		1317	27.83	309	0.1	50	22	2.5
PUK	SE	ISG		1317	35.32	309	-0.1	50		
TIR	SZ	IPG		1317	30.33	223	0.1	62		
TIR	SE	ISG		1317	39.77	223	-0.2	62		
BCI	SZ	IPG		1317	31.84	340	-0.2	71		
BCI	SE	ISG		1317	42.73	340	-0.4	71		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	07	0434	35.97	39.23	18.91	21	ASN	6	0.5	2.8	SOUTHERN ITALY GAP=265
					hor.err=20km				ver.err=3KM			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SCTE	SZ	IPG		0434	53.28	339	-0.5	102		
SCTE	SE	ISG		0435	07.31	339	0.2	102		
SRN	SZ	IPG		0434	57.26	51	0.8	118	24	2.8
SRN	SE	ISG		0435	11.55	51	-0.2	118		
IGT	SZ	IPG		0434	57.87	74	-0.1	123		
IGT	SE	ISG		0435	13.88	74	0.2	123		
LSK	SZ	IPG		0435	05.11	54	0.7	177		
LSK	SE	ISG		0435	27.94	54	0.2	177		
PHP	SZ	IPG		0435	20.35	24	-1.3	302		
PUK	SZ	IPG		0435	23.16	14	-1.3	323		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	10	0141	33.80	40.71	20.46	7	ASN	3	0.1	2.4	NIKOLLARE- KORCE
					hor.err=1km				ver.err=13KM		-ALBANIA	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
LSK	SZ	IPG		0141	44.97	168	-0.3	63	18	2.4
LSK	SE	ISG		0141	53.76	168	0.1	63		
SRN	SZ	IPG		0141	51.56	204	0.0	100		
SRN	SE	ISG		0142	04.71	204	-0.1	100		
IGT	SZ	IPN		0141	56.99	158	0.1	131		
IGT	SE	ISN		0142	14.39	158	0.2	131		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	10	0614	15.26	40.61	21.13	2	ASN	6	0.5	3.1	GREECE
GAP=235					hor.err=7km			ver.err=3KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
LSK	SZ	IPG		0614	27.25	222	-0.5	68	50	3.2
LSK	SE	ISG		0614	37.70	222	-0.4	68		
SRN	SZ	IPN		0614	37.49	231	-0.7	126	32	2.9
SRN	SE	ISN		0614	55.02	231	-0.4	126		
PHP	SZ	IPN		0614	38.47	335	0.4	132		
PHP	SE	ISN		0614	56.59	335	0.2	132		
TIR	SZ	IPN		0614	40.06	308	0.2	134		
TIR	SE	ISN		0614	57.58	308	0.7	134		
PUK	SZ	IPN		0614	47.82	328	-0.8	189		
PUK	SE	ISN		0615	13.81	328	0.1	189		
BCI	SZ	IPN		0614	53.05	336	0.8	214		
BCI	SE	ISN		0615	21.09	336	0.5	214		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	12	1629	42.97	42.22	19.59	25	ASN	3	0.2	2.5	NORTH SHKODER
GAP=298					hor.err=2km			ver.err=1KM			-ALBANIA	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		1629	49.89	127	-0.2	32	17	2.5
PUK	SE	ISG		1629	55.32	127	0.1	32		
BCI	SZ	IPG		1629	51.40	67	-0.2	43	17	2.5
BCI	SE	ISG		1629	58.13	67	0.0	43		
PHP	SZ	IPG		1629	59.58	129	0.2	92		
PHP	SE	ISG		1630	11.56	129	0.0	92		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	13	0016	53.98				ASN				PHP
GAP=					hor.err=km			ver.err=KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0016	53.98					
PHP	SE	ISG		0016	58.33					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	13	0113	53.67				ASN				PUK
GAP=					hor.err=km			ver.err=KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		0113	53.67					
PUK	SE	ISG		0113	55.41					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	14	0012	24.16	41.10	19.84	16	ASN	3	0.1	2.0	ELBASAN
GAP=299					hor.err=0km			ver.err=1KM-ALBANIA				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0012	30.10	326	-0.1	28	12	2.1
TIR	SE	ISG		0012	34.52	326	0.0	28		
PHP	SZ	IPG		0012	37.67	27	0.0	69	19	2.6
PHP	SE	ISG		0012	46.14	27	-0.1	69		
PUK	SZ	IPG		0012	42.15	353	0.0	101		
PUK	SE	ISG		0012	55.64	353	-0.2	101		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	14	0608	20.72	41.83	20.08	8	ASN	3	0.1	2.1	BULSHAR-KLOS
GAP=152					hor.err=1km			ver.err=2KM -ALBANIA				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		0608	26.23	326	0.0	28	28	2.7
PUK	SE	ISG		0608	30.48	326	0.1	28		
PHP	SZ	IPG		0608	26.95	118	0.1	33	28	2.7
PHP	SE	ISG		0608	32.13	118	-0.2	33		
TIR	SZ	IPG		0608	30.58	200	-0.2	56		
TIR	SE	ISG		0608	35.04	200	0.1	56		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	17	2357	28.19	41.83	20.59	7	ASN	3	0.2	2.5	KOSOVO
GAP=254					hor.err=2km			ver.err=4KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		2357	32.39	218	0.1	22	23	2.5
PHP	SE	ISG		2357	36.87	218	0.2	22		
PUK	SZ	IPG		2357	40.78	292	0.2	62	23	2.5
PUK	SE	ISG		2357	49.22	292	0.1	62		
BCI	SZ	IPG		2357	43.35	324	-0.3	73	24	2.5
BCI	SE	ISG		2357	51.24	324	-0.3	73		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	18	1046	55.70	41.90	20.13	13	ASN	4	0.2	2.9	S-W KLOS
GAP=137					hor.err=1km			ver.err=3KM-ALBANIA				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		1047	00.78	310	-0.2	26		

PUK	SE	ISG	1047	04.83	310	0.0	26
PHP	SZ	IPG	1047	02.21	132	-0.3	35
PHP	SE	ISG	1047	07.73	132	0.1	35
BCI	SZ	IPG	1047	05.44	355	0.0	53
BCI	SE	ISG	1047	12.95	355	0.2	53
TIR	SZ	IPG	1047	06.69	200	-0.9	65
TIR	SE	ISG	1047	16.55	200	0.1	65

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	18	1048	15.40	41.89	20.11	14	ASN	4	0.1	2.8	S-W KLOS GAP=134
				hor.err=1km	ver.err=1KM		ALBANIA					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		1048	20.29	313	-0.4	25	32	2.8
PUK	SE	ISG		1048	24.66	313	0.1	25	25	2.7
PHP	SZ	IPG		1048	21.77	130	-0.6	36		
PHP	SE	ISG		1048	27.60	130	0.0	36		
BCI	SZ	IPG		1048	25.27	356	0.0	53		
BCI	SE	ISG		1048	32.75	356	0.2	53		
TIR	SZ	IPG		1048	27.12	200	-0.1	64		
TIR	SE	ISG		1048	35.92	200	0.0	64		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	18	1151	43.21	32.62	47.54	10	ASN	6	5.7		IRAN-IRAQ
				GAP=	hor.err=km		ver.err=KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
LSK	SZ	IP		1156	36.26					
SRN	SZ	IP		1156	40.15					
PHP	SZ	IP		1156	40.12					
TIR	SZ	IP		1156	43.56					
PUK	SZ	IP		1156	44.52					
BCI	SZ	IP		1156	50.38					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	18	1808	23.61	32.50	47.79	10	ASN	6	5.8		IRAN-IRAQ
				GAP=	hor.err=km		ver.err=KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IP		1813	29.97					
SRN	SZ	IP		1813	31.35					
PHP	SZ	IP		1813	32.89					
TIR	SZ	IP		1813	35.58					
PUK	SZ	IP		1813	36.52					
VLO	SZ	IP		1813	37.91					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	18	2346	37.24	41.34	20.47	7	ASN 3	0.1	2.2	GOSTIVISHT	
					hor.err=11km		ver.err=1KMPERMET-ALBANIA					
GAP=293												
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
LSK	SZ	IPG		2346	41.88	152	-0.1	23	15	2.1		
LSK	SE	ISG		2346	45.55	152	0.1	23				
SRN	SZ	IPG		2346	48.89	219	-0.2	65	17	2.3		
SRN	SE	ISG		2346	57.86	219	0.1	65				
IGT	SZ	IPG		2346	53.37	188	0.1	90				
IGT	SE	ISG		2347	06.27	188	0.1	90				

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	19	0837	01.91	41.18	20.08	13	ASN 5	0.2	2.7	ELBASAN	
					hor.err=1km		ver.err=1KM -ALBANIA					
GAP=158												
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
TIR	SZ	IPG		0837	07.08	316	-0.2	26	28	2.7		
TIR	SE	ISG		0837	11.47	316	0.1	26				
PHP	SZ	IPG		0837	13.61	28	-0.1	63	28	2.7		
PHP	SE	ISG		0837	23.08	28	0.2	63				
PUK	SZ	IPG		0837	19.02	351	-0.1	96				
PUK	SE	ISG		0837	32.31	351	0.3	96				
LSK	SZ	IPG		0837	23.74	158	0.1	122	30	2.8		
LSK	SE	ISG		0837	39.46	158	0.4	122				
BCI	SZ	IPN		0837	24.58	0	-0.4	131				
BCI	SE	ISN		0837	42.32	0	0.2	131				

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	19	0915	26.45	38.42	20.95	20	ASN 8	0.2	3.8	GREECE	
					hor.err=1km		ver.err=1KM					
GAP=337												
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
LKD2	SZ	IPG		0915	35.68	328	0.2	48				
LKD2	SE	ISG		0915	42.72	328	-0.3	48				
SRN	SZ	IPN		0915	56.99	334	0.2	181	75	3.8		
SRN	SE	ISN		0916	20.02	334	-0.4	181				
LSK	SZ	IPN		0915	59.06	351	0.4	194	75	3.8		
LSK	SE	ISN		0916	23.26	351	0.3	194				
VLO	SZ	IPN		0916	08.42	332	0.4	259				
TIR	SZ	IPN		0916	19.33	345	0.3	328				
PHP	SZ	IPN		0916	19.69	354	-0.6	365				
PUK	SZ	IPN		0916	24.35	348	0.7	412				
BCI	SZ	IPN		0916	31.65	351	-0.4	444				

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	19	0918	18.80	40.18	20.56	17	ASN 3	0.4	2.5		NORTH LESKOVIK
					hor.err=2km		ver.err=1KM		-ALBANIA			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
LSK	SZ	IPG		0918	22.51	146	-0.2	5	19	2.4
LSK	SE	ISG		0918	24.61	146	0.3	5		
SRN	SZ	IPG		0918	29.37	235	0.5	59	20	2.5
SRN	SE	ISG		0918	38.26	235	-0.3	59		
IGT	SZ	IPG		0918	32.87	196	0.4	75		
IGT	SE	ISG		0918	42.67	196	0.1	75		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	19	0932	33.02	38.86	21.01	18	ASN 3	0.5	3.1		GREECE
					hor.err=20km		ver.err=15KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
LKD2	SZ	IPG		0932	40.10	255	0.5	32		
IGT	SZ	IPG		0932	51.06	322	0.6	94		
SRN	SZ	IPN		0932	57.10	323	-0.4	142		
LSK	SZ	IPN		0932	58.65	347	0.3	147		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	20	0531	11.68	41.07	19.98	24	ASN 5	0.3	2.7		VIDHAS-ELBASAN
					hor.err=2km		ver.err=3KM		-ALBANIA			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0531	19.18	342	0.2	31	26	2.7
TIR	SE	ISG		0531	22.78	342	-0.3	31		
PHP	SZ	IPG		0531	25.04	29	0.4	77	27	2.7
PHP	SE	ISG		0531	36.20	29	-0.7	77		
PUK	SZ	IPG		0531	29.67	356	0.3	107	28	2.7
PUK	SE	ISG		0531	44.09	356	-0.2	107		
LSK	SZ	IPG		0531	34.19	153	0.3	115	28	2.7
LSK	SE	ISG		0531	51.10	153	0.2	115		
BCI	SZ	IPN		0531	36.64	2	0.1	143		
BCI	SE	ISN		0531	55.20	2	-0.6	143		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	20	0738	21.55	41.15	19.94	23	ASN 4	0.3	2.7		SHENGJIN-ELBASAN
					hor.err=1km		ver.err=2KM		-ALBANIA			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0738	27.06	342	-0.2	20	42	2.7

TIR	SE	ISG	0738	30.23	342	0.1	20					
PHP	SZ	IPG	0738	34.26	34	0.4	71	50		2.7		
PHP	SE	ISG	0738	44.38	34	-0.3	71					
PUK	SZ	IPG	0738	38.99	358	0.1	98	55		3.0		
PUK	SE	ISG	0738	51.52	358	-0.4	98					
LSK	SZ	IPN	0738	43.66	153	0.2	124					
LSK	SE	ISN	0738	58.65	153	0.2	124					
BCI	SZ	IPN	0738	44.63	4	-0.1	134					
BCI	SE	ISN	0739	02.63	4	0.5	134					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	22	0427	48.84	40.07	23.76	16	ASN	7	0.5	4.9	AEGEAN SEA
				GAP=307			hor.err=2km	ver.err=2KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
LSK	SZ	IPN		0428	30.89	247	0.2	270	224	4.9
LSK	SE	ISN		0429	03.96	247	-0.3	270		
SRN	SZ	IPN		0428	38.10	268	0.1	322	240	5.0
SRN	SE	ISN		0429	16.40	268	0.4	322		
PHP	SZ	IPN		0438	40.44	304	0.1	333		
PHP	SE	ISN		0439	18.12	304	-0.5	333		
TIR	SZ	IPN		0438	45.13	295	0.7	359		
TIR	SE	ISN		0439	24.26	295	0.3	359		
VLO	SZ	IPN		0438	45.35	279	0.5	366		
VLO	SE	ISN		0439	27.26	279	0.6	366		
PUK	SZ	IPN		0438	48.37	306	-0.2	393		
PUK	SE	ISN		0439	32.06	306	0.2	393		
BCI	SZ	IPN		0438	49.58	402	-0.3	402		
BCI	SE	ISN		0439	35.09	402	0.4	402		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	22	0644	03.60								LSK
GAP=				hor.err=km			ver.err=KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
LSK	SZ	IPG		0644	03.65					
LSK	SE	ISG		0644	05.57					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	22	0630	13.90	41.68	20.42	1	ASN	3	0.2	1.7	3KM N-W
PESHKOPI				GAP=214			hor.err=2km	ver.err=2KM		-ALBANIA		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0630	13.70	98	0.3	1	5	1.7
PHP	SE	ISG		0630	14.71	98	0.1	1		

PUK	SZ	IPG	0630	25.96	312	-0.1	59	14	2.0
PUK	SE	ISG	0630	33.40	312	0.2	59		
BCI	SZ	IPG	0630	29.40	339	0.4	81		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	22	0719	39.00	39.93	23.39	28	ASN 6	0.3	3.9		AEGEAN SEA
				hor.err=1km			ver.err=1KM			GAP=268		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
THE	SZ	IPG		0719	54.50	335	-0.2	85		
THE	SE	ISG		0720	05.90	335	0.3	85		
LSK	SZ	IPN		0720	16.77	277	-0.4	240	103	3.9
LSK	SE	ISN		0720	44.37	277	0.2	240		
IGT	SZ	IPN		0720	21.11	262	0.3	266		
LKD2	SZ	IPN		0720	21.32	243	0.4	268		
SRN	SZ	IPN		0720	23.70	270	-0.3	290		
SRN	SE	ISN		0720	56.87	270	0.1	290		
PHP	SZ	IPN		0720	26.69	309	0.3	316		
PUK	SE	ISN		0720	35.60	310	0.4	376		
PUK	SE	ISN		0721	16.93	310	-0.1	376		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	22	1401	25.94	42.00	20.32	7	ASN 2	0.2	1.8		16KM N-E KLOS
				hor.err=1km			ver.err=1KM			GAP=248		
											-ALBANIA	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		1401	32.78	277	0.2	36	10	1.8
PUK	SE	ISG		1401	37.98	277	0.3	36		
PHP	SZ	IPG		1401	32.92	165	0.1	36	9	1.8
PHP	SE	ISG		1401	38.09	165	0.1	36		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	22	2336	20.84	40.60	19.66	20	ASN 6	0.2	3.0		WEAST BALLSH
				hor.err=3km			ver.err=1KM			GAP=130		
											-ALBANIA	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
VLO	SZ	IPG		2336	25.54	203	0.2	20	32	3.0
VLO	SE	ISG		2336	29.55	203	0.3	20		
TIR	SZ	IPG		2336	35.73	11	0.4	84	31	3.0
TIR	SE	ISG		2336	47.11	11	-0.3	84		
SRN	SZ	IPG		2336	35.97	160	0.2	85	30	2.9
SRN	SE	ISG		2336	45.66	160	0.1	85		
LSK	SZ	IPG		2336	37.47	122	-0.4	94		
LSK	SE	ISG		2336	50.08	122	0.5	94		
PHP	SZ	IPN		2336	43.59	28	0.3	136	37	3.1
PHP	SE	ISN		2337	00.99	28	0.1	136		

PUK	SZ	IPN	2336	48.12	6	-0.7	160
PUK	SE	ISN	2337	09.16	6	0.4	160

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	22	2337	41.30	40.54	19.73	16	ASN	5	0.2	2.8	SOUTH BALLSH
				hor.err=2km			ver.err=1KM			-ALBANIA		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
VLO	SZ	IPG		2337	45.93	241	0.2	24	28	2.8
VLO	SE	ISG		2337	50.57	241	-0.3	24		
SRN	SZ	IPG		2337	56.24	161	0.1	79	29	2.8
SRN	SE	ISG		2338	06.83	161	0.2	79		
LSK	SZ	IPG		2337	56.53	122	0.3	87	28	2.8
LSK	SE	ISG		2338	08.58	122	-0.7	87		
TIR	SZ	IPG		2337	56.58	7	0.4	87	28	2.8
TIR	SE	ISG		2338	09.31	7	0.2	87		
PHP	SZ	IPN		2338	04.92	25	-0.6	135		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	24	0915	26.72	41.23	20.85	2	ASN	6	0.4	2.8	MACEDONIA
GAP=218				hor.err=2km			ver.err=1KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0915	38.12	326	0.2	62	30	2.8
PHP	SE	ISG		0915	46.91	326	0.0	62		
TIR	SZ	IPG		0915	41.89	280	-0.2	84	30	2.8
TIR	SE	ISG		0915	53.75	280	0.1	84		
PUK	SZ	IPG		0915	47.80	319	0.3	121	30	2.8
PUK	SE	ISG		0916	04.84	319	0.1	121		
LSK	SZ	IPN		0915	48.78	191	-0.7	122	33	2.9
LSK	SE	ISN		0916	05.02	191	0.3	122		
BCI	SZ	IPN		0915	52.15	333	0.4	143		
BCI	SE	ISN		0916	11.42	333	0.3	143		
SRN	SZ	IPN		0915	56.51	207	-0.2	166		
SRN	SE	ISN		0916	18.13	207	0.4	166		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	24	1329	30.27	42.50	20.15	8	ASN	3	0.1	2.3	BAJRAM CURRI
GAP=320				hor.err=3km			ver.err=2KM			-ALBANIA		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPG		1329	33.83	204	0.1	16	16	2.2
BCI	SE	ISG		1329	36.26	204	-0.1	16		
PUK	SZ	IPG		1329	40.23	203	-0.1	55	18	2.4
PUK	SE	ISG		1329	47.94	203	0.1	55		
PHP	SZ	IPN		1329	47.58	164	0.5	93		

PHP SE ISN 1329 59.56 164 0.0 93

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

2014 08 25 0026 49.06

GAP=

hor.err=km

ASN

ver.err=KM

BCI

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md
 BCI SZ IPG 0026 49.06
 BCI SE ISG 0026 51.25

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

2014 08 27 0005 40.87 41.88 19.57 7 ASN 4 0.2 2.7 11 KM N LEZHE
 GAP=320 hor.err=3km ver.err=2KM -ALBANIA

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md
 PUK SZ IPG 0005 47.63 56 0.2 31 25 2.7
 PUK SE ISG 0005 52.33 56 -0.1 31
 TIR SZ IPG 0005 52.30 157 0.1 64 26 2.7
 TIR SE ISG 0006 01.88 157 0.2 64
 BCI SZ IPG 0005 52.71 67 -0.3 67 26 2.7
 BCI SE ISG 0006 01.89 67 0.2 67
 PHP SZ IPG 0005 53.68 75 0.2 75 25 2.7
 PHP SE ISG 0006 04.22 75 0.3 75

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

2014 08 27 1038 21.42 40.08 19.94 17 ASN 8 0.1 2.9 BORSH-VLORE
 GAP=121 hor.err=1km ver.err=2KM-ALBANIA

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md
 SRN SZ IPG 1038 26.64 166 0.1 23 33 2.9
 SRN SE ISG 1038 30.41 166 0.0 23
 LSK SZ IPG 1038 31.77 81 -0.2 57 36 3.1
 LSK SE ISG 1038 40.10 81 0.2 57
 VLO SZ IPG 1038 32.13 320 0.1 57 28 2.9
 VLO SE ISG 1038 40.02 320 0.0 57
 SCTE SZ IPG 1038 44.04 271 0.9 125
 SCTE SE ISG 1038 59.51 271 0.1 125
 TIR SZ IPN 1038 44.57 358 -1.1 141
 TIR SE ISN 1039 04.32 358 0.5 141
 PHP SZ IPN 1038 52.86 13 0.4 183
 PHP SE ISN 1039 16.06 13 0.4 183
 PUK SZ IPN 1038 56.65 0 0.7 218
 PUK SE ISN 1039 23.68 0 -0.7 218

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

2014 08 28 0240 00.35 41.61 20.36 9 ASN 5 0.1 2.7 GJURAS-PESHKOPI
GAP=195 hor.err=1km ver.err=2KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0240	03.11	40	0.1	11	23	2.4
PHP	SE	ISG		0240	05.06	40	0.0	11		
TIR	SZ	IPG		0240	09.77	235	0.1	51	29	2.7
TIR	SE	ISG		0240	16.62	235	-0.1	51		
PUK	SZ	IPG		0240	11.37	322	-0.2	62	31	2.9
PUK	SE	ISG		0240	20.10	322	0.1	62		
BCI	SZ	IPN		0240	16.18	345	0.2	87		
BCI	SE	ISN		0240	27.91	345	0.2	87		
LSK	SZ	IPN		0240	28.39	172	-0.2	163		
LSK	SE	ISN		0240	49.81	172	0.1	163		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	28	0256	24.37	41.22	20.04	13	ASN 3	0.0	2.4		KRRAB-
					hor.err=1km				ver.err=1KM		ALBANIA	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0256	28.78	314	0.0	20	19	2.4
TIR	SE	ISG		0256	32.09	314	-0.1	20		
PHP	SZ	IPG		0256	35.58	33	0.0	61	17	2.4
PHP	SE	ISG		0256	43.98	33	0.0	61		
PUK	SZ	IPG		0256	40.77	353	0.0	92		
PUK	SE	ISG		0256	53.00	353	0.0	92		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	28	0347	48.00				ASN				PHP
GAP=					hor.err=km				ver.err=KM			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0347	48.00					
PHP	SE	ISG		0347	52.46					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	28	0357	20.28				ASN				PHP
GAP=					hor.err=km				ver.err=KM			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0357	20.28					
PHP	SE	ISG		0357	22.32					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	28	1740	16.67	41.16	20.07	7	ASN	3	0.1	2.1	N-W ELBASAN
GAP=293					hor.err=1km		ver.err=1KM		-ALBANIA			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		1740	22.06	320	0.1	27	12	2.1
TIR	SE	ISG		1740	26.06	320	-0.1	27		
PHP	SZ	IPG		1740	28.61	27	0.0	65	16	2.2
PHP	SE	ISG		1740	37.67	27	0.1	65		
PUK	SZ	IPG		1740	34.16	352	0.0	99		
PUK	SE	ISG		1740	47.49	352	0.1	99		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	28	1740	16.67	41.16	20.07	7	ASN	3	0.1	2.1	N-W ELBASAN
GAP=293					hor.err=1km		ver.err=1KM		-ALBANIA			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2029	32.43	338	0.2	36	24	2.6
TIR	SE	ISG		2029	38.29	338	-0.1	36		
PHP	SZ	IPG		2029	39.46	25	0.1	78	38	3.0
PHP	SE	ISG		2029	51.02	25	0.1	78		
VLO	SZ	IPG		2029	39.49	216	-0.3	78	33	2.9
VLO	SE	ISG		2029	41.10	216	0.2	78		
LSK	SZ	IPG		2029	45.56	154	0.2	110		
LSK	SE	ISG		2030	00.63	154	-0.1	110		
PUK	SZ	IPG		2029	45.00	355	0.2	110	39	3.1
PUK	SE	ISG		2030	01.56	355	0.1	110		
SRN	SZ	IPN		2029	47.96	182	0.5	129	46	3.2
SRN	SE	ISN		2030	05.96	182	0.2	129		
BCI	SZ	IPN		2029	50.43	182	-0.8	146		
BCI	SE	ISN		2030	11.01	182	0.1	146		

TËRMETE TËLARGËTA (LONGDISTANCE EARTHQUAKE)

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	10	0343	19.7	41.25	142.29	30	ASN	7		6.0	HOKAIDO JAPAN
GAP=					hor.err=km		ver.err=KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IP		0355	33.51					
PUK	SZ	IP		0355	33.70					
BCI	SZ	IP		0355	34.26					
TIR	SZ	IP		0355	36.56					
LSK	SZ	IP		0355	39.98					
VLO	SZ	IP		0355	41.31					
SRN	SZ	IP		0355	41.69					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	18	0232	05.05	32.58	47.62	10	ASN 7		6.2		IRAN-IRAQ
GAP=					hor.err=km		ver.err=KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
LSK	SZ	IP		0237	09.74					
SRN	SZ	IP		0237	13.37					
PHP	SZ	IP		0237	13.88					
TIR	SZ	IP		0237	16.20					
PUK	SZ	IP		0237	18.08					
BCI	SZ	IP		0237	18.51					
VLO	SZ	IP		0237	18.83					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	08	24	2321	41.6	14.64S	73.53W	60	ASN 7		6.0		CENTRAL PERU
GAP=					hor.err=km		ver.err=KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IP		2335	28.59					
VLO	SZ	IP		2335	29.43					
TIR	SZ	IP		2335	29.79					
PUK	SZ	IP		2335	30.16					
LSK	SZ	IP		2335	30.77					
BCI	SZ	IP		2335	31.68					
PHP	SZ	IP		2335	31.98					

**PËRSHKRIM MAKROSIZMIK I
TËRMEVE TË NDJESHME NË
VENDIN TONË**

Intensiteti i tërmetit në epiqendër I_0 është përcaktuar me formulën $I_0 = \frac{M-1}{6}$. 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 $I_0 = \frac{M-1}{6}$. The felt

information 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)
-	--	--	--

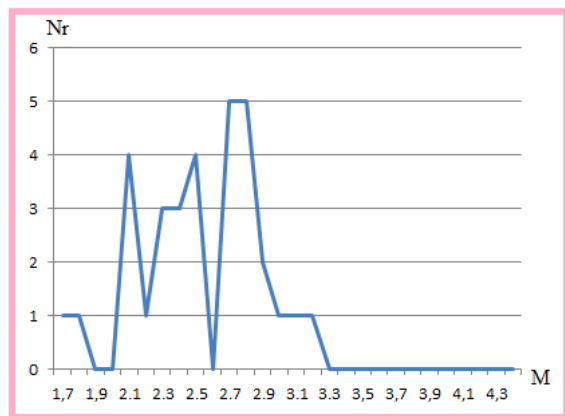
KATALOGU I TËRMEVE MUJORE (THE MONTHLY EARTHQUAKE CATALOG)

Data	Koha	Gjer.Gjat	Thell.Nr.	St. Gab	Mag.	Vendndodhja
Date	Time	Lat	Long.	Depth	N_0 , St Rms	Location
vvvv/mm/dd	hh:mm:ss	(km)		(M_D)		
2014 08 01	0059 21.79	42.03	20.07	17	ASN 6 0.2 2.8	FUSH-ARREZ-PUKE
2014 08 01	0124 05.09	41.81	20.23	6	ASN 3 0.1 2.1	KRAJ-LURE PESHKOPI
2014 08 01	0411 17.13	36.91	3.13	10	ASN 5 5.7	NORTHERN ALGERIA
2014 08 01	0730 01.49	40.28	20.78	8	ASN 4 0.3 2.5	GREECE
2014 08 04	0230 37.24	41.19	20.72	3	ASN 7 0.2 2.3	FYR OF MACEDONIA
2014 08 04	1906 14.74	41.92	19.36	8	ASN 4 0.2 2.8	DAJC-SHKODER-ALBANIA
2014 08 05	0633 22.88	40.84	21.33	17	ASN 3 0.3 3.1	GREECE
2014 08 05	1317 18.15	41.76	20.36	6	ASN 4 0.1 2.4	SHUMBAT-PESHKOPI

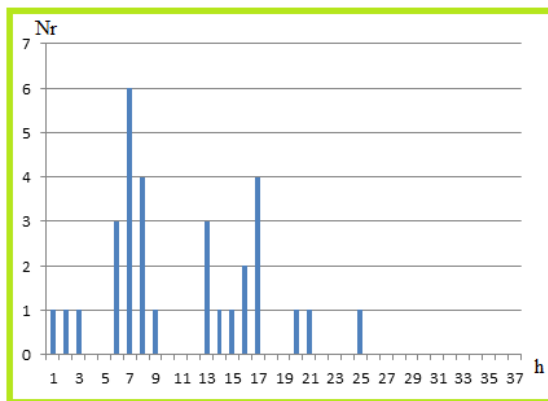
2014 08 07 0434	35.97	39.23	18.91	21	ASN 6	0.5	2.8	SOUTHERN ITALY
2014 08 10 0141	33.80	40.71	20.46	7	ASN 3	0.1	2.4	NIKOLLARE-KORCE
2014 08 10 0614	15.26	40.61	21.13	2	ASN 6	0.5	3.1	GREECE
2014 08 12 1629	42.97	42.22	19.59	25	ASN 3	0.2	2.5	18KM NORTH SHKODER
2014 08 14 0012	24.16	41.10	19.84	16	ASN 3	0.1	2.3	ELBASAN-ALBANIA
2014 08 14 0608	20.72	41.83	20.08	8	ASN 3	0.1	2.1	BULSHAR-KLOS
2014 08 17 2357	28.19	41.83	20.59	7	ASN 3	0.2	2.5	KOSOVO
2014 08 18 1046	55.70	41.90	20.13	13	ASN 4	0.2	2.9	3KM S-W KLOS-ALBANIA
2014 08 18 1048	15.40	41.89	20.11	14	ASN 4	0.1	2.8	4KM S-W KLOS-ALBANIA
2014 08 18 1808	23.61	32.50	47.79	10	ASN 6		5.8	IRAN-IRAQ BORDER REGION
2014 08 18 2346	37.24	41.34	20.47	7	ASN 3	0.1	2.2	GOSTIVISHT PERMET
2014 08 19 0837	01.91	41.18	20.08	13	ASN 5	0.2	2.7	8KM N-W ELBASAN
2014 08 19 0915	26.45	38.42	20.95	20	ASN 8	0.2	3.8	GREECE
2014 08 19 0918	18.80	40.18	20.56	17	ASN 3	0.4	2.5	5KM NORTH LESKOVIK
2014 08 19 0932	33.02	38.86	21.01	18	ASN 3	0.5	3.1	GREECE
2014 08 20 0531	11.68	41.07	19.98	24	ASN 5	0.3	2.7	VIDHAS 10KM W ELBASAN
2014 08 20 0738	21.55	41.15	19.94	23	ASN 4	0.3	2.7	SHENGJIN, ELBASAN
2014 08 22 0427	48.84	40.07	23.76	16	ASN 7	0.5	4.9	AEGEAN SEA
2014 08 22 0630	13.90	41.68	20.42	1	ASN 3	0.2	1.7	3KM N-W PESHKOPI
2014 08 22 0719	39.00	39.93	23.39	28	ASN 6	0.3	3.9	AEGEAN SEA
2014 08 22 1401	25.94	42.00	20.32	7	ASN 2	0.2	1.8	16KM N-E KLOS-ALBANIA
2014 08 22 2336	20.84	40.60	19.66	20	ASN 6	0.2	3.0	6KM WEAST BALLSH
2014 08 22 2337	41.30	40.54	19.73	16	ASN 5	0.2	2.8	4KM SOUTH BALLSH
2014 08 24 0915	26.72	41.23	20.85	2	ASN 6	0.4	2.8	FYR OF MACEDONIA
2014 08 24 1329	30.27	42.50	20.15	8	ASN 3	0.1	2.3	16 KM N-E BAJRAM CURRI
2014 08 27 0005	40.87	41.88	19.57	7	ASN 4	0.2	2.7	11 KM N LEZHE
2014 08 27 1038	21.42	40.08	19.94	17	ASN 8	0.1	2.9	BORSH-VLORE-ALBANIA
2014 08 28 0240	00.35	41.61	20.36	9	ASN 5	0.1	2.7	GJURAS-PESHKOPI
2014 08 28 0256	24.37	41.22	20.04	13	ASN 3	0.0	2.4	KRRAB-TIRANE-ALBANIA
2014 08 28 1740	16.67	41.16	20.07	7	ASN 3	0.1	2.1	5KM N-W ELBASAN
2014 08 28 1740	16.67	41.16	20.07	7	ASN 3	0.1	2.1	5KM N-W ELBASAN

STATISTIKA E NGJARJEVE SIZMIKE (STATISTICS OF SEISMIC EVENTS)

Karakteristikat e pergjithshme (General Characteristics)	Vlerat (Data values)
➤ Ngjarje sizmike të ndodhura në kuadratin (39-43 V; 18.5-21.5 L)	33
Events occured within quadrant	
➤ Ngjarje sizmike të ndodhura brenda kufijve shtetërore	27
Events occured inside state boundaries	
➤ Thellësia mesatare e ngjarjeve sizmike	11
Mean hypocenter depth	
➤ Thellësia maksimale	25
Maximum hypocenter depth	
➤ Magnituda lokale minimale e regjistruar	1.7
Minimum recorded local magnitude	
➤ Magnituda lokale maksimale e regjistruar	3.1
Maximum recorded local magnitude	
➤ Intensiteti sizmik maksimal ne epiqendër	III-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)

Harta e epiqendrave të tërmeteëve (Map of earthquakes epicentre)