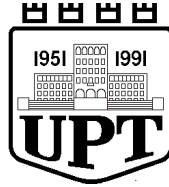


## BULETINI I TËRMETEVE TË RRJETIT SIZMOLOGJIK SHQIPTAR

Qershor 2013

PARAMETRIC DATA  
AND ALBANIAN'S EARTHQUAKE ANALYSIS  
June 2013



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

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**BULETINI MUJOR I RRJETIT SIZMOLOGJIK**  
**TË SHQIPERISË**  
**QERSHOR 2013**

***MONTHLY BULLETIN OF THE ALBANIAN***  
***SEISMOLOGICAL NETWORK***

*June 2013*

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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:  $39.0^{\circ}$ - $43.0^{\circ}$  V dhe  $18.5^{\circ}$ - $21.5^{\circ}$  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:  $39^{\circ}$ - $43^{\circ}$ N and  $18.5^{\circ}$ - $21.5^{\circ}$  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 tërmeteëve 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 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

<i>Nr</i>	Numuri i stacioneve (station's number)	(International code of Network identification on FDSN is AC) Nr. Stacioneve te perdorur ne lokalizim (No. Of used stations)
<i>STAT</i>	Kodi i stacionit (station code)	Kodi nderkombetar qe perdoret per te identifikuar stacionin perkates sizmologjik (tre karaktere) (international stn code)
<i>SP</i>	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
<i>IPHASW</i>	Faza valore sizmike (seismic wave phase)	tipi i valës P ( $P_g / P_n$ ) ose S ( $S_g / S_n$ ) (wave phase type)
<i>D</i>	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)
<i>HRMM SECON</i>	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
<i>AZIMU</i>	Kendi azimutal (station-source azimuth angle)	Azimuti stacion- vater termeti Station-focus azimuthal angle
<i>RES</i>	Diferenca kohore (time residual)	Ndryshimi ndërmjet kohës teorike të llogaritur nga modeli dhe kohës faktike, nga regjistrimi Time residuals between calculated and observed times
<i>DIS</i>	Largesia epiqendrore (epicentral distance)	Largesia hoeizontale epiqender-stacion Distance from epicenter to the station
<i>DUR</i>	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	6	1	0844	34.21	41.10	20.16	13	ASN	5	0.2	2.4	S-E ELBASAN -ALBANIA
			GAP=131		hor.err=1km				ver.err=1KM			
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
TIR	SZ	IPG		0434	28.10	323	0.0	37	15	2.2		
TIR	SE	ISG		0434	34.20	323	-0.1	37				

PHP	SZ	IPG	0434	32.20	20	0.0	72	18	2.4
PHP	SE	ISG	0434	43.31	20	0.0	72		
PUK	SZ	IPG	0434	39.60	350	0.0	109	20	2.5
PUK	SE	ISG	0434	55.00	350	-0.1	109		
FNA	SZ	IPN	0434	40.60	106	0.0	110		
FNA	SE	ISN	0434	56.10	106	0.0	110		
BCI	SZ	IPN	0434	45.82	358	-0.1	140		
BCI	SE	ISN	0435	03.47	358	0.1	140		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	1	2303	40.46	40.23	21.75	6	ASN	7	0.2	3.8	GREECE
				GAP=145			hor.err=3km	ver.err=2KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TPE	SZ	IPN		2304	06.85	277	0.2	152	80	3.7
TPE	SE	ISN		2304	25.17	277	-0.3	152		
SRN	SZ	IPN		2304	07.66	257	0.4	157	54	3.4
SRN	SE	ISN		2304	27.34	257	0.1	157		
VLO	SZ	IPN		2304	15.05	279	0.3	192	82	3.8
VLO	SE	ISN		2304	40.32	279	-0.1	192		
PHP	SZ	IPN		2304	14.70	326	0.3	198	80	3.7
PHP	SE	ISN		2304	39.54	326	0.2	198		
TIR	SZ	IPN		2304	15.56	309	-0.4	205	80	3.9
TIR	SE	ISN		2304	41.13	309	0.2	205		
PUK	SZ	IPN		2304	21.87	323	0.3	257	87	3.9
PUK	SE	ISN		2304	55.10	323	-0.4	257		
BCI	SZ	IPN		2304	23.79	330	0.3	278	92	3.9
BCI	SE	ISN		2304	58.76	330	-0.4	278		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	2	0248	24.98	36.98	20.62	10	ASN	5	0.3	4.4	
MEDITERRANEAN SEA				GAP=352			hor.err=12km	ver.err=10KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPN		0249	06.31	355	0.2	328	130	4.3
SRN	SE	ISN		0249	56.11	355	0.3	328		
TPE	SZ	IPN		0249	08.11	351	-0.3	371	137	4.4
TPE	SE	ISN		0250	00.51	351	0.4	371		
PHP	SZ	IPN		0249	17.48	352	0.1	521		
PHP	SE	ISN		0250	12.17	352	-0.3	521		
PUK	SZ	IPN		0249	36.33	359	0.2	564	146	4.4
PUK	SE	ISN		0250	46.81	359	0.3	564		
BCI	SZ	IPN		0249	41.51	356	-0.1	599		
BCI	SE	ISN		0250	01.12	356	0.4	599		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013 6 2 1254 39.76 41.96 19.06 48 ASN 4 0.3 3.2 ADRIATIC SEA  
GAP=262 hor.err=1km ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPG		1254	56.12	62	0.2	94	26	3.2
BCI	SE	ISG		1255	10.72	62	0.3	94		
TIR	SZ	IPG		1254	57.15	135	-0.2	96	22	3.1
TIR	SE	ISG		1255	10.26	135	0.3	96		
PHP	SZ	IPG		1255	00.40	105	0.2	119	22	3.1
PHP	SE	ISG		1255	15.05	105	-0.3	119		
SRN	SZ	IPN		1255	44.03	160	0.1	245		

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
2013 6 3 0435 21.53 41.34 19.97 11 ASN 4 0.4 2.8 SHKALLE, TIRANES  
GAP=224 hor.err=1km ver.err=2KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0435	24.41	270	-0.1	9	26	2.6
TIR	SE	ISG		0435	36.48	270	0.0	9		
PHP	SZ	IPG		0435	31.12	46	0.0	53	28	2.8
PHP	SE	ISG		0435	38.97	46	-0.1	53		
PUK	SZ	IPG		0435	35.71	355	-0.1	77	32	2.9
PUK	SE	ISG		0435	46.25	355	0.1	77		
BCI	SZ	IPG		0435	41.70	3	0.0	113	32	2.9
BCI	SE	ISG		0435	55.01	3	0.1	113		

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
2013 6 3 0957 13.47 41.46 19.85 7 ASN 2 0.1 1.9 FUSHE KRUJE  
GAP=249 hor.err=3.4km ver.err=15KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0957	16.52	174	0.1	13	12	1.9
TIR	SN	ISG		0957	18.48	174	0.0	13		
PHP	SZ	IPG		0957	23.40	63	-0.1	54	12	1.9
PHP	SN	ISG		0957	31.18	63	0.0	54		

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
2013 6 4 0858 00.15 41.14 20.33 11 ASN 4 0.2 2.7 LIBRAZHD-  
ALBANIA  
GAP=159 hor.err=1km ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0858	09.53	8	0.0	61	24	2.7
PHP	SE	ISG		0858	18.01	8	0.1	61		
FNA	SZ	IPG		0858	15.59	113	0.1	96		



FNA	SE	ISG	0858	28.67	113	0.1	96				
BCI	SZ	IPN	0858	22.24	351	0.0	137	25	2.7		
BCI	SE	ISN	0858	40.52	351	0.1	137				
SRN	SZ	IPN	0858	23.37	192	-0.1	142	25	2.7		
SRN	SE	ISN	0858	43.36	192	-0.1	142				

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	5	0226	20.78	43.15	18.73	4	ASN	3	0.4	3.4	MONTENEGRO
				hor.err=12km			ver.err=7KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPN		0226	45.41	128	-0.1	139	57	3.4
BCI	SE	ISN		0227	04.10	128	0.1	139		
PUK	SZ	IPN		0226	47.92	142	-0.1	155	57	3.4
PUK	SE	ISN		0227	08.42	142	-0.1	155		
PHP	SZ	IPN		0226	58.20	138	-0.1	214	58	3.4
PHP	SE	ISN		0227	25.74	138	0.2	214		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	5	0607	25.06	41.88	20.16	7	ASN	2	0.07	2.2	ARREN,MIRDITE
GAP=186				hor.err=9.5km			ver.err=10KM			-ALBANIA		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		0607	30.56	308	-0.1	28	18	2.3
PUK	SN	ISG		0607	34.88	308	0.0	28		
PHP	SZ	IPG		0607	31.09	318	-0.1	31	13	2.1
PHP	SN	ISG		0607	35.80	318	0.1	31		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	5	0620	13.81	41.47	19.61	7	ASN	5	0.1	3.1	KURATEN,DURRES
GAP=214				hor.err=0.74km			ver.err=2.75KM			-ALBANIA		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		0620	25.98	19	0.0	67	36	3
PUK	SN	ISG		0620	35.19	19	0.0	67		
PHP	SZ	IPG		0620	26.81	70	-0.1	72	47	3.2
PHP	SN	ISG		0620	36.84	70	0.1	72		
BCI	SZ	IPG		0620	32.82	20	0.1	106	38	3.1
BCI	SN	ISG		0620	46.77	20	-0.0	106		
TPE	SZ	IPN		0620	37.41	165	-0.2	134		
TPE	SN	ISN		0620	55.70	165	0.2	134		
FNA	SZ	IPN		0620	42.36	116	-0.1	167		
FNA	SN	ISN		0621	04.34	116	-0.1	167		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013 6 6 0140 17.27 41.71 20.39 10 ASN 2 0.07 2.2

SOHODOLL, PESHKOPI

GAP=182

hor.err=4km

ver.err=8KM

-ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0140	19.90	318	0.0	5	13	2
PHP	SN	ISG		0140	20.76	318	0.0	5		
PUK	SZ	IPG		0140	26.94	308	-0.1	55	19	2.4
PUK	SN	ISG		0140	35.32	308	0.1	55		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013 6 6 0314 52.25

GAP=

hor.err= km

ver.err= KM

PHP

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	MdV
PHP	SZ	IPG		0314	52.25					
PHP	SN	ISG		0314	55.94					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013 6 6 0344 05.38

GAP=

hor.err= km

ver.err= KM

PHP

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0344	05.38					
PHP	SN	ISG		0344	07.84					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013 6 6 0428 58.14

GAP=

hor.err= km

ver.err= KM

PHP

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0428	58.14					
PHP	SN	ISG		0429	01.63					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013 6 7 2241 48.25 41.02 20.29 7 ASN 4 0.2 2.5 ELBASAN-ALBANIA

GAP=211

hor.err=1km

ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2241	57.63	316	0.1	51	20	2.5
TIR	SN	ISG		2242	04.91	316	-0.1	51		
PHP	SZ	IPG		2242	01.28	6	-0.1	74	22	2.6
PHP	SN	ISG		2242	11.31	6	0.0	74		

FNA	SZ	IPG	2242	05.18	105	-0.1	95					
FNA	SN	ISG	2242	18.37	105	0.0	95					
PUK	SZ	IPG	2242	09.05	344	0.0	118	22		2.6		
PUK	SN	ISG	2242	25.2	344	-0.1	118					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	7	2338	18.40	41.48	20.57	15	ASN	4	0.1	2.6	
DIBER, MACEDONIA												
GAP=163												
hor.err=1km												
ver.err=1KM												

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		2338	23.61	335	-0.1	25	22	2.4
PHP	SN	ISG		2338	27.86	335	0.0	25		
TIR	SZ	IPG		2338	29.96	257	0.0	61	25	2.7
TIR	SN	ISG		2338	37.89	257	-0.1	61		
PUK	SZ	IPG		2338	33.28	319	0.1	84	25	2.7
PUK	SN	ISG		2338	45.04	319	-0.1	84		
FNA	SZ	IPG		2338	36.90	138	-0.1	103		
FNA	SN	ISG		2338	50.18	138	-0.1	103		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	8	0151	41.56	41.47	20.99	7	ASN	5	0.2	2.9	MACEDONIA
GAP=193												
hor.err=1km												
ver.err=2KM												

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0151	51.00	297	0.1	51	21	2.5
PHP	SN	ISG		0151	57.80	297	0.1	51		
FNA	SZ	IPG		0151	56.86	156	0.1	84		
FNA	SN	ISG		0152	07.71	156	-0.1	84		
TIR	SZ	IPG		0151	58.87	262	0.1	95	32	2.9
TIR	SN	ISG		0152	11.42	262	-0.1	95		
PUK	SZ	IPG		0152	00.44	305	-0.1	110	37	3
PUK	SN	ISG		0152	14.19	305	-0.1	110		
BCI	SZ	IPG		0152	03.81	323	0.1	124	37	3
BCI	SN	ISG		0152	20.19	323	0.1	124		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	8	0252	49.06	41.45	20.94	7	ASN	4	0.3	2.6	MACEDONIA
GAP=188												
hor.err=3km												
ver.err=4KM												

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0252	58.28	302	0.1	49	19	2.4
PHP	SN	ISG		0253	04.95	302	0.1	49		
FNA	SZ	IPG		0253	15.35	153	-0.1	83		
FNA	SN	ISG		0253	03.99	153	0.1	83		
PUK	SZ	IPG		0253	08.57	307	-0.1	108	19	2.4

PUK	SN	ISG	0253	21.04	307	0.1	108					
BCI	SZ	IPG	0253	12.46	325	-0.1	122	27	2.7			
BCI	SN	ISG	0253	37.89	325	-0.1	122					

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Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	8	1903	28.30	41.25	20.28	4	ASN	6	0.2	3.6	KUTURMAN
ELBASAN												
GAP=175												
						hor.err=1km					ver.err=3KM	-ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		1903	35.56	287	0.0	36	71	3.5
TIR	SE	ISG		1903	41.51	287	0.0	36		
PHP	SZ	IPG		1903	38.11	15	-0.1	49	73	3.5
PHP	SE	ISG		1903	46.18	15	0.1	49		
TPE	SZ	IPG		1903	47.38	193	-0.1	109	73	3.6
TPE	SE	ISG		1904	04.03	193	0.1	109		
VLO	SZ	IPN		1903	47.38	218	0.0	109	55	3.4
VLO	SE	ISN		1904	04.14	218	0.1	109		
BCI	SZ	IPN		1903	50.10	352	0.0	124	65	3.5
BCI	SE	ISN		1904	07.88	352	-0.1	124		
SRN	SZ	IPN		1903	55.22	190	0.1	154	67	3.6
SRN	SE	ISN		1904	17.10	190	0.1	154		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	9	0603	36.54	41.10	20.15	12	ASN	4	0.2	2.5	ELBASAN-
ALBANIA												
GAP=209												
						hor.err=1km					ver.err=13KM	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0603	43.02	318	0.2	36	19	2.4
TIR	SE	ISG		0603	48.84	318	-0.1	36		
PHP	SZ	IPG		0603	49.27	20	0.2	68	21	2.5
PHP	SE	ISG		0603	57.86	20	-0.1	68		
PUK	SZ	IPG		0603	55.08	349	0.2	106	23	2.6
PUK	SE	ISG		0604	09.70	349	-0.1	106		
FNA	SZ	IPG		0603	55.74	100	0.2	109		
FNA	SE	ISG		0604	10.64	100	-0.1	109		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	9	0922	16.31	41.14	20.20	7	ASN	4	0.2	2.8	ELBASAN-
ALBANIA												
GAP=205												
						hor.err=0.8km					ver.err=12KM	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0922	23.68	315	0.1	39	20	2.5

TIR	SE	ISG	0922	29.17	315	0.1	39					
PHP	SZ	IPG	0922	28.50	17	-0.1	67	34	2.9			
PHP	SE	ISG	0922	37.77	17	0.1	67					
FNA	SZ	IPG	0922	36.38	109	0.2	106					
FNA	SE	ISG	0922	49.40	109	0.1	106					
PUK	SZ	IPG	0922	35.18	347	-0.2	107					
PUK	SE	ISG	0922	49.79	347	0.1	107					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	9	21.48	50.8	40.35	22.86	7	ASN	4	0.1	2.7	GREECE
				GAP=205	hor.err=2.6km						ver.err=21KM	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
THE	SZ	IPG		2149	01.91	315	0.1	39		
THE	SE	ISG		2148	56.94	315	0.1	39		
FNA	SZ	IPG		2149	32.29	109	0.2	106		
FNA	SE	ISG		2149	14.96	109	0.1	106		
IGT	SZ	IPG		2149	28.21	347	-0.2	107		
SRN	SZ	ISG		2149	33.02	347	0.1	107	29	2.7

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	12	1705	09.31	40.77	20.27	2	ASN	6	0.1	3.1	GRAMSH-ALBANIA
				GAP=89	hor.err=0.3km						ver.err=0.7KM	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TPE	SZ	IPG		1705	28.75	204	0	58	32	2.8
TPE	SE	ISG		1705	19.86	204	-0.1	58		
TIR	SZ	IPG		1705	22.05	332	-0.1	72	35	2.9
TIR	SE	ISG		1705	32.43	332	0	72		
VLO	SZ	IPG		1705	33.33	244	0.1	74	42	3.1
VLO	SE	ISG		1705	22.93	244	-0.1	74		
FNA	SZ	IPG		1705	25.93	89	0.1	93		
FNA	SE	ISG		1705	38.74	89	-0.1	93		
SRN	SZ	IPG		1705	27.36	194	-0.1	102	51	3.3
SRN	SE	ISG		1705	19.86	194	0.0	102		
PHP	SZ	IPG		1705	41.30	7	0.1	102	49	3.7
PHP	SE	ISG		1705	27.76	7	-0.1	102		
IGT	SZ	IPN		1705	33.58	178	0.1	138		
IGT	SE	ISN		1705	52.12	178	0.1	138		
BCI	SZ	IPN		1706	03.13	355	0.1	178		
BCI	SE	ISN		1706	40.68	355	0.1	178		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	13	0303	48.91	41.84	20.08	7	ASN	4	0.1	2.7	KURBNESH- ALBANIA
				GAP=177	hor.err=1.1km						ver.er=11KM	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		0303	58.49	325	0.1	27	19	2.3
PUK	SE	ISG		0303	54.28	325	-0.1	27		
PHP	SZ	IPG		0304	00.39	120	0.1	34	17	2.3
PHP	SZ	ISG		0303	55.42	120	-0.1	34		
BCI	SE	IPG		0304	07.66	359	-0.2	58		
BCI	SZ	ISG		0303	58.75	359	-0.1	58		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	13	0343	46.40	41.85	20.12	10	ASN	4	0.1	2.5	KLOS-ALBANIA
				GAP=132			hor.err=2km			ver.er=4KM		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		0343	52.40	317	0.1	28	17	2.3
PUK	SE	IPG		0343	56.48	317	-0.1	28		
PHP	SZ	IPG		0343	53.17	126	0.1	32	18	2.3
PHP	SE	IPG		0343	57.69	126	-0.1	32		
BCI	SZ	IPG		0343	57.09	355	-0.1	57	29	2.8
BCI	SE	IPG		0344	05.06	355	0.1	57		
FNA	SZ	IPN		0344	14.20	138	-0.1	138		
FNA	SE	IPN		0344	35.01	138	0.1	138		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	14	0151	06.59								
GAP=				hor.err= km			ver.err= KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0151	06.59					
TIR	SN	ISG		0151	12.21					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	13	2006	32.14	40.85	21.56	9	asn	6	0.4	3.2	GREECE
GAP=132				hor.err=2km			ver.er=4KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPN		2006	53.89	315	-0.2	131	44	3.2
PHP	SE	ISN		2007	13.42	315	0.1	131		
TPE	SZ	IPN		2006	58.65	246	0.3	145	41	3.1
TPE	SE	ISN		2007	15.88	246	-0.2	145		
TIR	SZ	IPN		2006	57.89	292	0.3	152	46	3.2
TIR	SE	ISN		2007	17.66	292	0.4	152		
SRN	SZ	IPN		2007	01.42	232	0.3	170	39	3.1
SRN	SE	ISN		2007	23.07	232	0.4	170		
VLO	SZ	IPN		2007	04.44	258	0.3	179		
VLO	SE	ISN		2007	27.33	258	0.2	179		
BCI	SZ	IPN		2007	07.30	325	-0.2	209	62	3.3

BCI Y	SE M	ISN D	HM	2007 Sec	35.07 Lat	325 Long	0.3 Dep	209 Net	Nr	Rms	Mag	Epicenter
2013	6	14	1352	27.95	41.13	20.19	1	ASN 4	0.1	2.8	ELBASAN-ALBANIA	
GAP=200				hor.err=1km			ver.er=1KM					
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
TIR	SZ	IPG		1352	35.43	311	0.0	36	32	2.8		
TIR	SE	IPG		1352	40.01	311	0.1	36				
PHP	SZ	IPG		1352	40.08	18	0.0	64	32	2.8		
PHP	SE	IPG		1352	49.20	18	-0.1	64				
FNA	SZ	IPG		1352	47.45	111	-0.1	107				
FNA	SE	IPG		1353	02.15	111	0.1	107				
BCI	SZ	IPN		1352	52.66	356	-0.1	137	32	2.8		
BCI	SE	IPN		1353	11.35	356	-0.1	137				
Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	14	1353	15.48	41.13	20.22	7	ASN 3	0.1	2.6	ELBASAN-ALBANIA	
GAP=198				hor.err=1km			ver.er=1KM					
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
TIR	SZ	IPG		1353	22.16	309	0.1	38	19	2.4		
TIR	SE	IPG		1353	28.56	309	0.0	38				
PHP	SZ	IPG		1353	27.06	16	0.0	64	26	2.7		
PHP	SE	IPG		1353	35.87	16	-0.1	64				
FNA	SZ	IPG		1353	34.71	111	-0.1	104				
FNA	SE	IPG		1353	47.86	111	-0.1	104				
Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	14	2324	36.95	41.12	20.18	7	ASN 3	0.1	2.3	ELBASAN-ALBANIA	
GAP=206				hor.err=1km			ver.er=1KM					
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
TIR	SZ	IPG		2324	43.86	315	0.0	36	14	2.2		
TIR	SE	IPG		2324	49.01	315	0.1	36				
PHP	SZ	IPG		2324	48.02	19	0.0	66	19	2.5		
PHP	SE	IPG		2324	58.41	19	0.1	66				
FNA	SZ	IPG		2324	59.68	109	0.1	108				
FNA	SE	IPG		2325	10.01	109	0.0	108				
Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	15	0043	00.69	41.09	20.22	7	ASN 3	0.1	2.5	ELBASAN-ALBANIA	
GAP=206				hor.err=1km			ver.er=1KM					
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		

TIR	SZ	IPG	0043	08.76	314	0.0	41	18	2.4
TIR	SE	IPG	0043	13.89	314	0.0	41		
PHP	SZ	IPG	0043	13.28	15	0.0	68	21	2.5
PHP	SE	IPG	0043	22.37	15	0.0	68		
FNA	SZ	IPG	0043	32.84	108	0.1	103		
FNA	SE	IPG	0043	20.84	108	-0.1	103		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	15	0318	48.81	41.11	20.21	6	ASN	5	0.1	2.7	ELBASAN-ALBANIA
				hor.err=1km				ver.er=1KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0318	56.15	312	0.0	39	23	2.6
TIR	SE	IPG		0319	01.20	312	0.1	39		
PHP	SZ	IPG		0319	00.54	16	0.0	65	26	2.7
PHP	SE	IPG		0319	09.70	16	-0.1	65		
FNA	SZ	IPG		0319	08.20	110	0.0	105		
FNA	SE	IPG		0319	21.17	110	0.0	105		
PUK	SZ	IPG		0319	07.62	346	-0.1	106	26	2.7
PUK	SE	IPG		0319	21.39	346	-0.1	106		
BCI	SZ	IPN		0319	14.69	355	0.1	139	27	2.7
BCI	SE	IPN		0319	32.57	355	0.1	139		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	15	0747	33.96	39.88	20.88	12	ASN	6	0.1	2.5	GREECE
				hor.err=1km				ver.er=1KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
IGT	SZ	IPG		0747	41.17	231	-0.1	62		
IGT	SE	ISG		0747	52.89	231	0.1	62		
SRN	SZ	IPG		0747	46.61	270	-0.1	76	20	2.5
SRN	SE	ISG		0747	56.79	270	-0.1	76		
TPE	SZ	IPG		0747	48.88	302	0.2	87	37	3
TPE	SE	ISG		0748	00.47	302	0.1	87		
FNA	SZ	IPG		0747	52.17	22	0.1	108		
FNA	SE	ISG		0748	06.48	22	0.1	108		
VLO	SZ	IPG		0747	56.70	300	0.2	135	26	2.8
VLO	SE	ISG		0748	14.10	300	0.1	135		
PHP	SZ	IPN		0748	08.20	350	-0.1	203		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	16	0629	33.06	42.22	19.57	15	ASN	5	0.1	2.8	KOPLIK-ALBANIA
				hor.err=1km				ver.er=11KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		0629	33.39	118	-0.1	37	24	2.6



PUK	SE	ISG	0629	39.54	118	0.1	37					
BCI	SZ	IPG	0629	35.61	68	0.1	50	24			2.7	
BCI	SE	ISG	0629	42.53	68	-0.1	50					
PHP	SE	IPG	0629	44.61	126	-0.2	97	36			3	
PHP	SZ	ISG	0629	57.06	126	0.1	99					
TIR	SE	IPG	0629	45.91	162	-0.2	97	31			2.9	
TIR	SZ	ISG	0629	59.18	162	0.1	99					
FNA	SE	IPG	0630	04.48	102	-0.2	97					
FNA	SZ	ISG	0630	32.61	102	0.1	99					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	18	0226	47.04	41.15	20.22	7	ASN	4	0.4	2.6	ELBASAN-
ALBANIA												
GAP=266				hor.err=2km				ver.er=1KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0226	53.54	306	0.0	37	22	2.5
TIR	SE	ISG		0226	59.86	306	0.1	37		
PHP	SZ	IPG		0226	57.80	306	0.0	61	22	2.5
PHP	SE	ISG		0227	06.61	306	0.0	61		
PUK	SZ	IPG		0227	04.76	306	0.1	102	25	2.7
PUK	SE	ISG		0227	19.18	306	0.1	102		
FNA	SZ	IPG		0227	05.77	306	0.0	106		
FNA	SE	ISG		0227	20.41	306	0.1	106		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	18	1719	36.75	36.19	22.12		ASN	7		4.5	CRETE,GREECE
GAP=269				hor.err=2km				ver.er=1KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
LKD2	SZ	IPN		1719	08.78					
LKD2	SE	ISN		1719	42.55					
ICT	SZ	IPN		1719	15.71					
ICT	SE	ISN		1719	52.33					
SRN	SZ	IPN		1719	20.14					
SRN	SE	ISN		1719	58.38					
SCTE	SZ	IPN		1719	31.12					
SCTE	SE	ISN		1720	09.23					
TPE	SZ	IPN		1719	25.30					
TPE	SE	ISN		1720	01.93					
NOCI	SZ	IPN		1719	48.20					
NOCI	SE	ISN		1720	32.97					
PHP	SZ	IPN		1719	48.73					
PHP	SE	ISN		1720	02.19					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013 6 18 2310 03.42 54.27 86.27 ASN 6 5.2 SIBERIA , RUSSIA  
 GAP= hor.err=km ver.er=KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IP		2310	20.25					
BCI	SZ	IP		2310	17.75					
PHP	SZ	IP		2310	20.51					
VLO	SZ	IP		2310	30.01					
TIR	SZ	IP		2310	25.66					
SRN	SZ	IP		2310	30.41					

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
 2013 6 18 2002 15.88 40.36 19.69 17 ASN 7 0.4 2.8 VISOKE BALLSH-  
 ALBANIA  
 GAP=147 hor.err=0.3km ver.er=0.5KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
VLO	SZ	IPG		2002	21.45	224	-0.1	26	18	2.3
VLO	SE	ISG		2002	25.72	224	0.1	26		
TPE	SZ	IPG		2002	24.68	145	-0.1	46	25	2.7
TPE	SE	ISG		2002	31.27	145	0.1	46		
SRN	SZ	IPG		2002	31.68	163	0.0	88	30	2.9
SRN	SE	ISG		2002	43.44	163	0.0	88		
SCTE	SZ	IPG		2002	37.06	240	-0.1	122		
SCTE	SE	ISG		2002	52.91	240	-0.1	122		
PHP	SZ	IPG		2002	38.71	27	0.1	132		33
3.1										
PHP	SE	ISG		2002	55.63	27	-0.1	132		
IGT	SZ	IPN		2002	38.32	156	0.1	134		
IGT	SE	ISN		2002	57.88	156	-0.1	134		
FNA	SZ	IPN		2002	40.26	83	-0.1	142		
FNA	SE	ISN		2002	58.77	83	0.1	142		

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter  
 2013 6 18 2004 36.11 40.62 19.71 14 ASN 7 0.4 2.8 BALLSH-  
 ALBANIA  
 GAP=147 hor.err=1km ver.er=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
VLO	SZ	IPG		2004	41.43	228	0.0	25	16	2.3
VLO	SE	ISG		2004	45.42	228	-0.1	25		
TPE	SZ	IPG		2004	44.54	145	0.1	44	28	2.8
TPE	SE	ISG		2004	50.67	145	0.0	44		
SRN	SZ	IPG		2004	52.44	163	0.1	86	28	2.8
SRN	SE	ISG		2005	03.11	163	0.0	86		
SCTE	SZ	IPG		2004	58.11	241	-0.1	122		
SCTE	SE	ISG		2005	13.25	241	0.1	122		

PHP	SZ	IPN	2004	59.05	26	0.1	132	37
3.1								
PHP	SE	ISN	2005	17.31	26	0.1	132	
IGT	SZ	IPN	2004	59.59	156	-0.1	132	
IGT	SE	ISN	2005	18.22	156	-0.1	132	
FNA	SZ	IPN	2005	01.49	82	0.1	142	
FNA	SE	ISN	2005	18.89	82	0.2	142	

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	19	0001	26.89	39.02	21.29	10	ASN	7	0.2	4.7	CRETE,GREECE
				GAP=147	hor.err=km				ver.er=KM			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
LDK2	SZ	IPN		0001	39.66					
LDK2	SE	ISN		0002	37.43					
IGT	SZ	IPN		0001	48.76					
IGT	SE	ISN		0002	55.30					
SRN	SZ	IPN		0001	54.69					
SRN	SE	ISN		0003	08.71					
FNA	SZ	IPN		0001	57.92					
FNA	SE	ISN		0003	19.92					
SCTE	SZ	IPN		0002	07.40					
SCTE	SE	ISN		0003	20.04					
PHP	SZ	IPN		0002	11.61					
PUK	SZ	IPN		0002	18.88					
PUK	SE	ISN		0002	56.91					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	20	0054	11.50	42.45	19.82	7	ASN	2	0.2	1.8	THETH-ALBANIA
				GAP=304	hor.err=1km				ver.er=6KM			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPG		0054	16.00	116		0.2	22	11
1.8										
BCI	SE	ISG		0054	19.42	116		-0.2	22	
PUK	SZ	IPG		0054	20.13	172		0.3	46	12
1.8										
PUK	SE	ISG		0054	26.52	172		0.2	46	

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	20	0250	19.40								TIR
				GAP=	hor.err=km				ver.er=KM			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0250	19.40					
TIR	SE	ISG		0250	21.27					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	20	0026	54.63	42.01	20.73	10	ASN	5	0.4	2.8	PRIZREN KOSOVA
				GAP=253			hor.err=2km			ver.er=2KM		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0027	01.52	215	0.2	43	30	2.8
PHP	SE	ISG		0027	08.51	215	-0.3	43		
BCI	SZ	IPG		0027	06.93	306	0.3	67	31	2.8
BCI	SE	ISG		0027	18.02	306	0.1	67		
PUK	SZ	IPG		0027	06.86	274	0.3	70	29	2.8
PUK	SE	ISG		0027	17.28	274	0.2	70		
TIR	SZ	IPG		0027	13.65	225	0.2	103	32	2.9
TIR	SE	ISG		0027	28.53	225	-0.1	103		
TPE	SZ	IPN		0027	30.50	199	0.4	200		
TPE	SE	ISN		0027	57.08	199	0.3	200		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	20	0330	42.70	40.20	20.70	16	ASN	7	0.3	3.3	GREECE
				GAP=265			hor.err=2km			ver.er=3KM		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPG		0330	53.65	258	0.0	64	45	3.2
SRN	SE	ISG		0331	03.09	258	0.1	64		
TPE	SZ	IPG		0330	56.33	298	-0.0	69	50	3.3
TPE	SE	ISG		0331	04.23	298	0.1	69		
VLO	SZ	IPG		0331	03.20	297	-0.1	117	55	3.3
VLO	SE	ISG		0331	19.44	297	0.2	117		
TIR	SZ	IPN		0331	10.50	324	0.1	166	58	3.4
TIR	SE	ISN		0331	32.20	324	-0.1	166		
PHP	SZ	IPN		0331	15.37	353	0.1	187	50	3.3
PHP	SE	ISN		0331	37.45	353	-0.1	187		
PUK	SZ	IPN		0331	21.48	343	0.1	236		
PUK	SE	ISN		0331	49.24	343	0.1	236		
BCI	SZ	IPN		0331	25.90	349	0.1	267	51	3.3
BCI	SE	ISN		0331	57.20	349	0.2	267		

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Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	20	1315	14.99	40.29	20.69	2	asn	7	0.2	3.3	PRODAN,ERSEKE
				GAP=154			hor.err=1km			ver.er=1KM		
												-ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TPE	SZ	IPG		1315	24.24	220	0.0	58	52	3.3
TPE	SE	ISG		1315	34.01	220	-0.1	58		
SRN	SZ	IPG		1315	28.73	233	0.0	75	52	3.3

SRN	SE	ISG	1315	36.62	233	0.0	75						
FNA	SZ	IPG	1315	28.02	47	0.1	79						
FNA	SE	ISG	1315	40.07	47	0.0	79						
IGT	SZ	IPG	1315	31.63	201	0.1	90						
IGT	SE	ISG	1315	44.69	201	0.1	90						
TIR	SZ	IPN	1315	39.49	330	0.0	135	57			3.3		
TIR	SE	ISN	1315	57.94	330	0.1	135						
PHP	SZ	IPN	1315	43.52	353	-0.1	155	57			3.3		
PHP	SE	ISN	1316	03.46	353	-0.1	155						

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter	
2013	6	21	1035	00.16	44.19	10.15		asn	5		5.3	NORTHERN ITALY	
GAP=154					hor.err=			ver.err=					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPN		1035	49.96					
BCI	SE	ISN		1038	26.28					
TIR	SZ	IPN		1035	52.49					
TIR	SE	ISN		1038	20.31					
PHP	SZ	IPN		1035	53.41					
PHP	SE	ISN		1038	31.67					
TPE	SZ	IPN		1036	02.26					
TPE	SE	ISN		1038	52.79					
SRN	SZ	IPN		1036	05.94					
SRN	SE	ISN		1038	34.24					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter	
2013	6	22	0354	36.80	41.34	20.00	9	ASN	5	0.2	2.3	TIRANA-ALBANIA	
GAP=131					hor.err=1km			ver.err=1KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0354	38.90	12	0.1	12	12	2.1
TIR	SE	ISG		0354	41.81	12	0.0	12		
PHP	SZ	IPG		0354	46.51	52	0.1	52	22	2.3
PHP	SE	ISG		0354	53.71	52	0.0	52		
PUK	SZ	IPG		0354	50.90	78	-0.1	78	20	2.4
PUK	SE	ISG		0355	01.55	78	0.2	78		

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Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter	
2013	6	22	0841	08.92	40.26	19.66	13	ASN	5	0.1	4.5	DUKAT,VLORE	
GAP=131					hor.err=0km			ver.err=2KM				-ALBANIA	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
VLO	SZ	IPG		0841	14.68	326	-0.1	27	93	3.4
VLO	SE	ISG		0841	19.83	326	0.0	27		

TPE	SZ	IPG	0841	15.13	82	0.0	29	90	3.4
TPE	SE	ISG	0841	20.09	82	0.0	29		
SRN	SZ	IPG	0841	18.42	145	-0.1	51	116	4.5
SRN	SE	ISG	0841	26.20	145	0.0	51		
TIR	SZ	IPG	0841	30.70	121	-0.1	121	162	4.5
TIR	SE	ISG	0841	40.63	121	-0.1	121		
PHP	SZ	IPN	0841	37.27	171	-0.1	171	210	4.7
PHP	SE	ISN	0842	00.13	171	-0.1	171		
PUK	SZ	IPN	0841	40.54	198	0.0	198	162	4.5
PUK	SE	ISN	0842	06.36	198	0.1	198		
BCI	SZ	IPN	0841	45.90	236	0.1	236	168	4.6
BCI	SE	ISN	0842	15.69	236	-0.1	236		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	22	1914	52.64	41.79	20.18	7	ASN	3	0.1	2.5	KROJ-LURE-
				GAP=199			hor.err=1km			ver.err=1KM		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPN		1914	57.24	120	0.0	24	21	2.4
PHP	SE	ISN		1915	01.26	120	-0.1	24		
PUK	SZ	IPN		1914	59.38	115	0.0	36	21	2.4
PUK	SE	ISN		1915	04.99	115	0.1	36		
BCI	SZ	IPN		1915	05.58	352	0.1	64	25	2.6
BCI	SE	ISN		1915	12.88	352	-0.1	64		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	22	2319	20.28								
				GAP=			hor.err=km			ver.er=KM		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2319	20.28					
TIR	SE	ISG		2319	26.62					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	23	0054	09.23	41.06	20.24	7	ASN	3	0.1	2.1	ELBASAN-
				GAP=303			hor.err=1km			ver.err=1KM		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0054	17.45	316	0.1	44	13	2.1
TIR	SE	ISG		0054	22.75	316	0.1	44		
PHP	SZ	IPG		0054	22.28	113	0.0	70	14	2.1
PHP	SE	ISG		0054	31.15	113	0.1	70		
PUK	SZ	IPG		0054	29.08	346	0.1	112	15	2.1
PUK	SE	ISG		0054	44.30	346	0.1	112		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	23	01.11	05.65	40.83	20.77	6	ASN	8	0.1	2.9	
PODGORIE, POGRADEC												
GAP=111												
					hor.err=0km			ver.err=2KM			-ALBANIA	
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
TPE	SZ	IPG		0011	11.39	95	-0.1	88	33	2.9		
TPE	SE	ISG		0011	21.27	95	0.1	88				
TIR	SZ	IPG		0011	22.78	228	0.0	95	33	2.9		
TIR	SE	ISG		0011	35.25	228	0.1	95				
PHP	SZ	IPG		0011	23.39	308	-0.1	99	33	2.9		
PHP	SE	ISG		0011	36.21	308	0.1	99				
SRN	SZ	IPG		0011	28.99	304	-0.1	124	34	2.9		
SRN	SE	ISG		0011	48.58	304	0.0	124				
IGT	SZ	IPN		0011	32.80	233	-0.1	149				
IGT	SE	ISN		0011	54.28	233	0.0	149				
PUK	SZ	IPN		0011	33.59	213	0.0	153	34	2.9		
PUK	SE	ISN		0011	58.99	213	0.1	153				
BCI	SZ	IPN		0011	36.89	195	0.1	180				
BCI	SE	ISN		0011	59.91	195	-0.2	180				

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	23	1212	18.30	41.87	20.83	23	ASN	4	0.1	2.8	MACEDONIA
GAP=202												
					hor.err=1km			ver.err=1KM				
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
PHP	SZ	IPG		1212	27.84	238	-0.1	38	20	2.6		
PHP	SE	ISG		1212	31.04	238	0.0	38				
BCI	SZ	IPG		1212	34.07	312	0.0	84	26	2.8		
BCI	SS	ISG		1212	44.01	312	0.1	84				
TIR	SZ	IPG		1212	33.30	235	0.1	99	26	2.8		
TIR	SE	ISG		1212	41.54	235	-0.1	99				
FNA	SZ	IPG		1212	40.03	158	0.1	129				
FNA	SE	ISG		1212	57.07	158	-0.1	129				

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	23	1502	03.64	44.28	10.21	7	ASN	5	1.6	4.5	NORTHERN ITALY
GAP=329												
					hor.err=8km			ver.err=12KM				
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
SGRT	SZ	IPN		1502	45.63							
SGRT	SE	ISN		1503	35.01							
NOCI	SZ	IPN		1503	03.01							
NOCI	SE	ISN		1504	04.86							
BCI	SZ	IPN		1503	25.31							

BCI	SS	ISN	1504	31.71
TIR	SZ	IPN	1503	31.08
TIR	SE	ISN	1504	47.02
PHP	SZ	IPN	1503	32.48
PHP	SE	ISN	1504	52.18

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	23	1741	08.35	41.98	20.28	6	ASN	4	0.1	2.8	GRAMSH-ALBANIA
				GAP=216	hor.err=1km							ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		1741	18.16	319	0.1	53	21	2.8
TIR	SE	ISG		1741	24.71	319	0.0	53		
PHP	SZ	IPG		1741	22.91	9	0.0	78	28	2.8
PHP	SE	ISG		1741	32.39	9	0.1	78		
FNA	SZ	IPG		1741	23.04	103	0.0	95		
FNA	SE	ISG		1741	37.58	103	0.1	95		
BCI	SZ	IPN		1741	35.39	354	0.0	154		27
2.8										
BCI	SS	ISN		1741	55.37	354	0.1	154		

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Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	24	1329	25.50	41.16	20.18	12	ASN	5	0.1	3.4	ELBASAN-ALBANIA
				GAP=131	hor.err=1km							ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		1329	32.13	308	0.0	34	48	3.2
TIR	SE	ISG		1329	37.07	308	-0.1	34		
PHP	SZ	IPG		1329	36.31	19	-0.1	62	47	3.2
PHP	SE	ISG		1329	45.30	19	0.0	62		
TPE	SZ	IPG		1329	42.29	189	-0.2	97	86	3.7
TPE	SE	ISG		1329	55.92	189	0.0	97		
BCI	SZ	IPN		1329	48.99	356	0.1	134		78
3.7										
BCI	SS	ISN		1330	06.43	356	0.0	134		
SRN	SZ	IPN		1329	50.44	187	0.1	143		50
3.3										
SRN	SS	ISN		1330	08.74	187	0.1	143		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	25	0235	43.40	40.13	19.91	1	ASN	5	0.1	2.5	HIMARE-ALBANIA
				GAP=131	hor.err=1km							ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TPE	SZ	IPG		0235	47.78	27	0.1	20	23	2.5



TPE	SE	ISG	0235	50.91	27	-0.1	20					
SRN	SZ	IPG	0235	49.32	162	-0.1	29	29			2.7	
SRN	SE	ISG	0235	53.81	162	0.1	29					
VLO	SZ	IPG	0235	53.70	319	0.2	50	30			2.8	
VLO	SE	ISG	0236	00.63	319	0.1	50					
IGT	SZ	IPG	0235	57.53	150	-0.1	76					
IGT	SE	ISG	0236	08.23	150	0.1	76					
SCTE	SZ	IPG	0236	05.20	268	-0.2	122					
SCTE	SE	ISG	0236	21.99	268	0.0	122					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	25	0611	08.35	41.63	20.10	12	ASN	5	0.1	3	BURREL-ALBANIA
				GAP=135	hor.err=3km						ver.err=1KM	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0611	14.05	74	-0.1	29	24	2.6
PHP	SE	ISG		0611	18.36	74	0.1	29		
TIR	SZ	IPG		0611	15.40	79	-0.1	37	42	3.1
TIR	SE	ISG		0611	20.97	79	0.1	37		
PUK	SZ	IPG		0611	17.29	82	-0.1	48	31	2.9
PUK	SE	ISG		0611	24.29	82	0.1	48		
BCI	SZ	IPG		0611	23.14	86	0.1	81	38	3.1
BCI	SE	ISG		0611	34.17	86	0.1	81		
FNA	SZ	IPN		0611	29.46	68	-0.2	143		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	26	0013	45.43	41.39	20.68	7	ASN	3	0.1	2.3	MACEDONIA
				GAP=164	hor.err=1km						ver.err=1KM	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0013	56.28	191	0.0	43	15	2.2
PHP	SE	ISG		0014	00.66	191	-0.1	43		
TIR	SZ	IPG		0013	56.61	322	0.0	69	16	2.3
TIR	SE	ISG		0014	06.99	322	0.0	69		
FNA	SZ	IPG		0013	57.98	111	-0.1	85		
FNA	SE	ISG		0014	14.01	111	0.0	85		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	26	0239	34.20								PHP
				GAP=	hor.err=km						ver.er=KM	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0239	34.20					
PHP	SE	ISG		0239	41.90					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	26	1609	41.63	42.91	21.89	8	ASN	3	0.3	3.2	SERBI
			GAP=302			hor.err=4km		ver.err=8KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPN		1610	11.56	249	-0.1	161		
BCI	SE	ISN		1610	21.67	249	0.1	161		
PHP	SZ	IPN		1610	23.21	222	0.1	181	38	3.1
PHP	SE	ISN		1610	41.41	222	0.0	181		
FNA	SZ	IPN		1610	14.35	191	0.1	240	42	3.2
FNA	SE	ISN		1610	45.36	191	0.1	240		

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Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	27	0306	11.89	40.90	19.82	14	ASN	8	0.1	3.4	LUSHNJE-
			ALBANIA			hor.err=1km		ver.err=1KM				
			GAP=136									

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0306	21.09	4	0.0	49	50	3.2
TIR	SE	ISG		0306	28.07	4	0.0	49		
VLO	SZ	IPG		0306	22.12	210	0.0	55	51	3.2
VLO	SE	ISG		0306	30.13	210	-0.1	55		
TPE	SZ	IPG		0306	24.16	166	-0.1	69	50	3.2
TPE	SE	ISG		0306	33.81	166	0.0	69		
PHP	SZ	IPG		0306	28.74	30	-0.1	100	59	3.5
PHP	SE	ISG		0306	43.44	30	0.0	100		
SRN	SZ	IPG		0306	32.01	172	-0.1	114	61	3.5
SRN	SE	ISG		0306	47.29	172	0.0	114		
PUK	SZ	IPG		0306	33.74	2	-0.1	126	61	3.5
PUK	SE	ISG		0306	50.12	2	-0.1	126		
SCTE	SZ	IPN		0306	36.09	232	-0.1	147		
SCTE	SE	ISN		0306	56.07	232	0.1	147		
BCI	SZ	IPN		0306	40.95	7	0.0	163	61	3.5
BCI	SE	ISN		0307	00.78	7	0.1	163		

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Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	27	0356	24.35	40.89	19.75	18	ASN	8	0.1	3.5	LUSHNJE-ALBANIA
			GAP=134			hor.err=1km		ver.err=1KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0356	33.95	10	0.0	51	48	3.3
TIR	SE	ISG		0356	47.15	10	0.0	51		
VLO	SZ	IPG		0356	34.02	206	0.1	52	59	3.5
VLO	SE	ISG		0356	41.50	206	-0.1	52		
TPE	SZ	IPG		0356	37.05	161	0.1	69	59	3.5

TPE	SE	ISG	0356	46.67	161	0.0	69		
PHP	SZ	IPG	0356	41.98	32	0.1	105	59	3.5
PHP	SE	ISG	0356	56.25	32	0.0	105		
SRN	SZ	IPG	0356	44.18	165	0.0	114	61	3.5
SRN	SE	ISG	0356	58.31	165	0.1	114		
PUK	SZ	IPG	0356	46.42	5	0.0	128	60	3.5
PUK	SE	ISG	0357	03.12	5	0.1	128		
SCTE	SZ	IPN	0356	48.71	121	0.0	141		
SCTE	SE	ISN	0357	08.88	121	-0.1	141		
BCI	SZ	IPN	0356	52.15	8	-0.1	166	60	3.5
BCI	SE	ISN	0357	13.22	8	-0.1	166		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	27	0316	47.78	40.91	19.86	15	ASN	8	0.1	3	LUSHNJE-ALBANIA
					hor.err=1km							
							ver.err=1KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0316	56.98	1	0.0	48	30	2.9
TIR	SE	ISG		0317	04.37	1	0.0	48		
VLO	SZ	IPG		0316	58.28	213	-0.1	58	32	3
VLO	SE	ISG		0317	06.69	213	0.1	58		
TPE	SZ	IPG		0317	00.30	169	0.1	69	34	3
TPE	SE	ISG		0317	09.91	169	0.0	69		
PHP	SZ	IPG		0317	04.11	69	-0.1	98	42	3
PHP	SE	ISG		0317	18.63	69	-0.1	98		
SRN	SZ	IPG		0317	07.01	174	0.1	115	42	3.2
SRN	SE	ISG		0317	23.13	174	0.0	115		
PUK	SZ	IPG		0317	09.70	1	0.0	125	42	3.2
PUK	SE	ISG		0317	26.09	1	0.1	125		
SCTE	SZ	IPN		0317	12.95	233	-0.1	150		
SCTE	SE	ISN		0317	32.81	233	-0.1	150		
BCI	SZ	IPN		0317	15.42	6	0.1	162	42	3.2
BCI	SE	ISN		0317	36.14	6	0.1	162		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	27	0844	06.40	41.19	20.21	2	ASN	6	0.2	2.8	LIBRAZHD-
					hor.err=1km							
							ver.err=1KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0844	13.29	301	0.1	34	23	2.5
TIR	SE	ISG		0434	18.52	301	0.1	34		
PHP	SZ	IPG		0844	17.78	18	0.1	58	39	3
PHP	SE	ISG		0434	25.56	18	0.0	58		
PUK	SZ	IPG		0844	24.25	345	-0.1	98	37	3
PUK	SE	ISG		0434	37.36	345	-0.1	98		
TPE	SZ	IPG		0844	24.55	191	-0.1	101	37	3
TPE	SE	ISG		0434	38.89	191	0.1	101		

BCI	SZ	IPN	0844	29.79	355	-0.1	131
BCI	SE	ISN	0434	47.77	355	0.1	131
SRN	SZ	IPN	0844	33.43	188	0.1	146
SRN	SE	ISN	0434	52.22	188	-0.1	146

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	27	0933	40.50	41.85	20.13	7	ASN	3	0.2	2.3	KURBNESH-
ALBANIA												
GAP=170												
hor.err=1km												
ver.err=12KM												

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		0933	46.18	317	0.1	28	18	2.3
PUK	SE	ISG		0933	50.11	317	0.1	28		
PHP	SZ	IPG		0933	46.49	126	0.1	32	18	2.3
PHP	SE	ISG		0933	51.29	126	0.1	32		
BCI	SZ	IPG		0933	50.98	355	0.1	57	19	2.4
BCI	SE	ISG		0933	58.66	355	0.1	57		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	27	1445	07.80	40.18	20.54	18	ASN	4	0.3	2.7	LESKOVIK-
ALBANIA												
GAP=196												
hor.err=2km												
ver.err=1KM												

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TPE	SZ	IPG		1445	17.74	286	-0.1	47	26	2.7
TPE	SE	ISG		1445	25.01	286	0.1	47		
SRN	SZ	IPG		1445	19.21	235	-0.1	57	21	2.6
SRN	SE	ISG		1445	28.00	235	0.1	57		
IGT	SZ	IPG		1445	22.59	195	0.2	74		
IGT	SE	ISG		1445	33.22	195	-0.1	74		
PHP	SZ	IPN		1445	38.41	358	0.1	167		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	27	1724	37.96	38.10	22.17		ASN	4		3.8	GREECE
GAP=												
hor.err=												
ver.err=												

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPN		1725	27.03					
SRN	SE	ISN		1726	10.35					
TPE	SZ	IPN		1725	34.83					
TPE	SE	ISN		1726	10.36					
PHP	SZ	IPN		1725	46.09					
PHP	SE	ISN		1726	45.46					
TIR	SZ	IPN		1725	52.65					
TIR	SE	ISN		1726	45.46					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	28	1017	10.25	41.14	19.87	24	ASN	4	0.1	2.7	ELBASAN-
			GAP=185			hor.err=1km		ver.err=1KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		1017	15.38	358	0.0	22	19	2.5
TIR	SE	ISG		1017	19.30	358	0.0	22		
PHP	SZ	IPG		1017	23.54	38	0.1	76	20	2.7
PHP	SE	ISG		1017	34.55	38	0.0	76		
TPE	SZ	IPG		1017	29.14	173	-0.1	95	20	2.7
TPE	SE	ISG		1017	42.66	173	0.1	95		
PUK	SZ	IPG		1017	27.41	1	-0.1	99	20	2.7
PUK	SE	ISG		1017	41.18	1	-0.1	99		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	28	1413	14.76	41.75	20.12	2	ASN	2	0.1	2	KURBNESH-ALBANIA
			GAP=260			hor.err=12km		ver.err=2KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		1413	20.39	106	-0.1	22	12	1.9
PHP	SE	ISG		1413	24.52	106	0.1	22		
TIR	SZ	IPG		1413	24.30	206	0.1	22	13	2.1
TIR	SE	ISG		1413	31.13	206	-0.1	22		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	28	1713	47.42	39.83	21.51	9	asn	7	0.4	3.4	GREECE
			GAP=159			hor.err=2km		ver.er=1KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
IGT	SZ	IPG		1714	05.46	252	-0.3	107		
IGT	SE	ISG		1714	20.41	252	-0.2	107		
SRN	SZ	IPG		1714	10.14	273	-0.2	129		
SRN	SE	ISG		1714	27.41	273	0.1	129		
TPE	SZ	IPN		1714	10.66	293	0.1	137	48	3.5
TPE	SE	ISN		1714	28.73	293	0.3	137		
VLO	SZ	IPN		1714	18.57	293	0.2	185	47	3.5
VLO	SE	ISN		1714	41.70	293	-0.1	185		
TIR	SZ	IPN		1714	23.25	321	0.2	217	55	3.6
TIR	SE	ISN		1714	48.52	321	0.1	217		
PHP	SZ	IPN		1714	23.02	337	-0.1	223	54	3.6
PHP	SE	ISN		1714	50.25	337	0.1	223		
BCI	SZ	IPN		1714	33.81	338	-0.2	305		
BCI	SE	ISN		1714	08.68	338	-0.1	305		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	28	2247	04.00	40.50	19.73	14	ASN	7	0.1	2.7	POÇEM, BALLSH -ALBANIA
				hor.err=1km				ver.err=1KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
VLO	SZ	IPG		2247	09.01	236	-0.1	24	20	2.4
VLO	SE	ISG		2247	12.92	236	0.1	24		
TPE	SZ	IPG		2247	11.10	144	-0.1	40	20	2.4
TPE	SE	ISG		2247	17.39	144	-0.1	40		
SRN	SZ	IPG		2247	18.89	163	0.1	82	26	2.7
SRN	SE	ISG		2247	30.22	163	-0.1	82		
TIR	SZ	IPG		2247	19.11	7	0.1	84	25	2.7
TIR	SE	ISG		2247	30.60	7	0.1	84		
SCTE	SZ	IPG		2247	25.53	243	0.1	122		
SCTE	SE	ISG		2247	41.26	243	-0.2	122		
IGT	SZ	IPN		2247	27.43	156	0.1	129		
IGT	SE	ISN		2247	43.41	156	0.1	129		
PUK	SZ	IPN		2247	31.52	4	-0.1	161	30	2.9
PUK	SE	ISN		2247	52.26	4	-0.2	161		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	29	0140	15.45	41.99	20.71	1	ASN	6	0.1	3.9	BROD KOSOVA
				hor.err=1km				ver.err=1KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0140	23.15	213	0.0	41	94	3.9
PHP	SE	ISG		0140	27.12	213	0.1	41		
BCI	SZ	IPG		0140	28.16	308	0.1	66	96	3.9
BCI	SE	ISG		0140	36.05	308	0.0	66		
PUK	SZ	IPG		0140	28.09	207	-0.1	67	96	3.9
PUK	SE	ISG		0140	38.16	207	0.0	67		
TIR	SZ	IPG		0140	34.24	223	-0.1	100	115	4
TIR	SE	ISG		0140	40.05	223	-0.1	100		
TPE	SZ	IPN		0140	50.56	198	0.1	198	120	4
TPE	SE	ISN		0140	15.24	198	0.0	198		
IGT	SZ	IPN		0140	55.99	195	0.1	242		
IGT	SE	ISN		0141	22.35	195	-0.1	242		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	29	0524	18.93	41.56	19.96	1	ASN	6	0.1	2.8	BURREL-ALBANIA
				hor.err=1km				ver.err=1KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0524	24.39	200	0.0	26	30	2.7
TIR	SE	ISG		0524	28.28	200	-0.1	26		
PHP	SZ	IPG		0524	27.17	71	-0.1	41	32	2.8
PHP	SE	ISG		0524	33.49	71	0.0	41		

PUK	SZ	IPG	0524	29.25	354	0.0	53					
PUK	SE	ISG	0524	37.18	354	0.0	53					
BCI	SZ	IPG	0524	35.33	5	-0.1	89	42		3.1		
BCI	SE	ISG	0524	47.59	5	-0.1	89					
TPE	SZ	IPN	0524	44.66	178	0.0	141					
TPE	SE	ISN	0525	03.32	178	-0.1	141					
SRN	SZ	IPN	0524	52.14	179	0.1	187					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013	6	29	0622	46.48								PHP
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GAP=					hor.err=					ver.err=		
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STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0622	46.88					
PHP	SE	ISG		0622	51.60					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013	6	29	0624	3								PHP
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GAP=					hor.err=					ver.err=		
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STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md-Md
PHP	SZ	IPG		0624	39.44					
PHP	SE	ISG		0624	44.12					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013	6	29	0718	42.40	41.40	20.47	12	ASN	3	0.1	2	BURREL-ALBANIA
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GAP=209					hor.err=1km					ver.err=1KM		
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STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0718	48.57	355	-0.1	31	10	2
PHP	SE	ISG		0718	53.36	355	0.0	31		
TIR	SZ	IPG		0718	53.10	264	0.0	51	10	2
TIR	SE	ISG		0718	59.21	264	-0.1	51		
PUK	SZ	IPG		0718	58.28	326	0.0	86	10	2
PUK	SE	ISG		0719	09.40	326	0.0	86		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2013	6	29	0718	42.40	41.40	20.47	12	ASN	3	0.1	2	OSTREN,DIBER
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GAP=209					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		0718	48.57	355	0.1	31	10	2
PHP	SE	ISG		0718	53.04	355	0.0	31		
TIR	SZ	IPG		0718	53.10	264	0.0	51	10	2

TIR	SE	ISG	0718	59.21	264	0.1	51					
PUK	SZ	IPG	0718	58.89	326	0.0	86	11	2			
PUK	SE	ISG	0719	08.40	326	0.1	86					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	29	1624	29.92	41.40	20.52	7	ASN	3	0.1	2.8	OSTREN, DIBER
GAP=276					hor.err=1km		ver.err=1KM		-ALBANIA			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		1624	36.01	348	0.1	31	28	2.8
PHP	SE	ISG		1624	40.52	348	0.0	31		
TIR	SZ	IPG		1624	40.13	264	0.1	55	29	2.8
TIR	SE	ISG		1624	47.59	264	-0.1	55		
PUK	SZ	IPG		1624	49.77	345	0.0	113	29	2.8
PUK	SE	ISG		1625	05.12	345	-0.1	113		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	29	1718	51.17								
GAP=					hor.err=		ver.err=					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		1718	51.17					
PHP	SE	ISG		1718	59.21					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	29	1825	32.68								
GAP=					hor.err=		ver.err=					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		1825	23.68					
PHP	SE	ISG		1825	31.44					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	29	1954	59.99	41.40	20.53	7	ASN	3	0.1	2.5	OSTREN, DIBER
GAP=272					hor.err=1km		ver.err=1KM		-ALBANIA			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		1955	06.14	348	-0.1	33	21	2.5
PHP	SE	ISG		1955	10.01	348	0.0	33		
TIR	SZ	IPG		1955	10.09	265	0.0	55	21	2.5
TIR	SE	ISG		1955	17.31	265	0.0	55		
PUK	SZ	IPG		1955	20.41	372	0.1	114	22	2.5
PUK	SE	ISG		1955	32.45	372	-0.1	114		



Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	29	2009	54.01	41.40	20.51	6	ASN	3	0.1	2.2	OSTREN, DIBER -ALBANIA
				hor.err=1km				ver.err=1KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		2009	59.84	340	0.0	31	17	2.2
PHP	SE	ISG		2010	04.12	340	0.1	31		
TIR	SZ	IPG		2010	11.64	262	0.1	54	16	2.2
TIR	SE	ISG		2010	10.30	262	0.0	54		
PUK	SZ	IPG		2010	14.09	355	0.1	114	16	2.2
PUK	SE	ISG		2010	23.15	355	0.1	114		

-

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	29	2045	51.72								PHP
GAP=				hor.err=				ver.err=				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		2045	51.72					
PHP	SE	ISG		2045	59.06					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	29	2055	01.11								PHP
GAP=				hor.err=				ver.err=				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		2055	01.11					
PHP	SE	ISG		2055	21.72					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	29	2110	12.31								PHP
GAP=				hor.err=				ver.err=				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		2110	12.31					
PHP	SE	ISG		2110	23.07					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	29	2238	30.25								PHP
GAP=				hor.err=				ver.err=				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		2238	30.25					

PHP SE ISG 2238 35.64

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

2013 6 29 2250 37.11 PHP

GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md

PHP SZ IPG 2250 37.11

PHP SE ISG 2250 41.35

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

2013 6 30 0018 09.61 PHP

GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md

PHP SZ IPG 0018 09.61

PHP SE ISG 0018 13.44

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

2013 6 30 0209 55.36 PHP

GAP= hor.err= ver.err=

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md

PHP SZ IPG 0209 55.36

PHP SE ISG 0210 02.30

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

2013 6 30 0247 36.02 41.46 20.45 23 ASN 6 0.1 3.1 GJORICE,DIBER

GAP=199 hor.err=1km ver.err=1KM -ALBANIA

STAT SP IPHASW D HRMM SECON AZIMU RES DIS DUR Md

PHP SZ IPG 0247 42.25 356 0.0 24 40 3.1

PHP SE ISG 0247 45.69 356 -0.1 24

TIR SZ IPG 0247 46.01 256 -0.1 51 34 3

TIR SE ISG 0247 53.16 256 0.0 51

PUK SZ IPG 0247 51.72 325 0.1 79 47 3.2

PUK SE ISG 0248 01.48 325 0.1 79

BCI SZ IPG 0247 55.96 343 0.0 105 47 3.2

BCI SE ISG 0248 09.32 344 0.1 105

TPE SZ IPN 0248 00.02 197 0.1 135 46 3.2

TPE SE ISN 0248 16.25 197 0.0 135

SRN SZ IPN 0248 07.06 193 -0.1 180 48 3.2

SRN SE ISN 0248 29.06 193 -0.1 180

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	30	0929	05.29	40.07	19.86	24	ASN	5	0.1	2.9	BORSH, SARANDE -ALBANIA
GAP=121					hor.err=1km		ver.err=1KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPG		0929	11.34	151	0.0	24	30	2.9
SRN	SE	ISG		0929	14.53	151	0.0	24		
TPE	SZ	IPG		0929	12.13	25	0.0	27	30	2.9
TPE	SE	ISG		0929	16.13	25	0.0	27		
IGT	SZ	IPG		0929	19.53	146	-0.1	71		
IGT	SE	ISG		0929	29.09	146	-0.1	71		
SCTE	SZ	IPG		0929	29.05	171	0.1	119		
SCTE	SE	ISG		0929	41.45	171	0.1	119		
TIR	SZ	IPN		0930	03.13	322	0.1	141	34	3
TIR	SE	ISN		0930	58.03	322	0.1	141		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	30	2019	13.30	38.78	20.30	10	ASN	4	0.1	3.7	GREECE
GAP=338					hor.err=2km		ver.err=2KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
IGT	SZ	IPG		2019	27.84	320	-0.1	81		
IGT	SE	ISG		2019	39.41	320	-0.1	81		
SRN	SZ	IPG		2019	36.06	322	0.1	129	66	3.7
SRN	SE	ISG		2019	52.70	322	0.1	129		
TPE	SZ	IPN		2019	42.89	332	0.1	167	67	3.7
TPE	SE	ISN		2020	02.82	332	-0.1	167		
TIR	SZ	IPN		2019	56.19	341	-0.1	229	68	3.7
TIR	SE	ISN		2020	38.25	341	0.1	229		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	30	2258	34.87	41.39	20.53	7	ASN	4	0.1	2.7	OSTREN, DIBER -ALBANIA
GAP=279					hor.err=1km		ver.err=1KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		2258	41.41	347	0.0	34	29	2.7
PHP	SE	ISG		2258	46.48	347	0.1	34		
TIR	SZ	IPG		2258	45.39	266	0.0	56	29	2.7
TIR	SE	ISG		2258	53.90	266	0.0	46		
PUK	SZ	IPG		2258	50.01	324	0.1	90	30	2.7
PUK	SE	ISG		2259	03.24	324	0.0	90		
BCI	SZ	IPG		2258	55.22	341	0.0	115	30	2.7
BCI	SE	ISG		2259	13.25	341	0.1	115		

TERMETE TE LARGET (LONG DISTANCE EARTHQUAKE)

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	6	24	2213	54.45	10.74	42.61		ASN	7		6.5	MID-ATLANTIC RIDGE
				GAP=131	hor.err=1km			ver.err=1KM				
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
BCI	SZ	IP		2214	35.07							
VLO	SZ	IP		2214	36.53							
SRN	SZ	IP		2214	37.66							
TIR	SZ	IP		2214	38.47							
TPE	SZ	IP		2214	38.64							
PUK	SZ	IP		2214	39.45							
PHP	SZ	IP		2214	42.04							

### 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	D a t a (D a t e)	Kohëndodhja (Origin time)	Epiqendra dhe të dhëna makrosizmike EMS-98 (Epicenter and macroseismic data EMS-98)
1	8.06.2013	19:03:37.9	Epiqendra: 41.26V; 20.25L, 18 km në Verilindje të qytetit Elbasanit. Intensiteti i tërmetit në epiqendër I <sub>0</sub> =IV-V balle Ndjerë: IV ballë ne qytetin e Elbasanit. (Epicentre: 41.26N; 20.25E, 18 km Northeast of Elbasani town. Epicentral Intensity I <sub>0</sub> =IV-V. Felt: IV at Elbasani town
2	20.07.2013	13:15:14.9	Epiqendra: 40.29V; 20.69L, 4 km në Jug të qytetit Ersekës. Intensiteti i tërmetit në epiqendër I <sub>0</sub> =IV balle Ndjerë: IV ballë ne qytetin e Ersekës, (Epicentre: 40.29N; 20.69E, 12 km North of Durrësi town. Epicentral Intensity I <sub>0</sub> =IV. Felt: IV at Erseka town.
3	22.07.2013	08:41:08.9	Epiqendra: 40.26V; 19.66L, 27 km në Juglindje të qytetit Vlores. Intensiteti i tërmetit në epiqendër I <sub>0</sub> =VI balle Ndjerë: V-VI ballë ne fshatin e Dukatit, V ballë në qytetin e Vlores. (Epicentre: 40.26N; 19.66E, 11 km Southeastern of Vlora town. Epicentral Intensity I <sub>0</sub> =VI. Felt: V-VI at Dukat village, V at Vlora town
4	24.07.2013	13:29:25.5	Epiqendra: 41.16V; 20.18L, 13 km në Verilindje të qytetit Elbasanit. Intensiteti i tërmetit në epiqendër I <sub>0</sub> =IV balle. Ndjerë:III- IV ballë ne qytetin e Elbasanit. (Epicentre: 41.16N; 20.18E, 13 km North-East of Elbasani town. Epicentral Intensity I <sub>0</sub> =IV. Felt: III-IV at Elbasani town)
5	27.07.2013	03:56:21.5	Epiqendra: 40.89V; 19.75L, 3 km në Juglindje të qytetit Lushnjes. Intensiteti i tërmetit në epiqendër I <sub>0</sub> =IV balle Ndjerë: IV ballë ne qytetin e Lushnjes. (Epicentre: 40.89N; 19.75E, 2 km South-East of Lushnjei town. Epicentral Intensity I <sub>0</sub> =IV. Felt: IV at Lushnje town

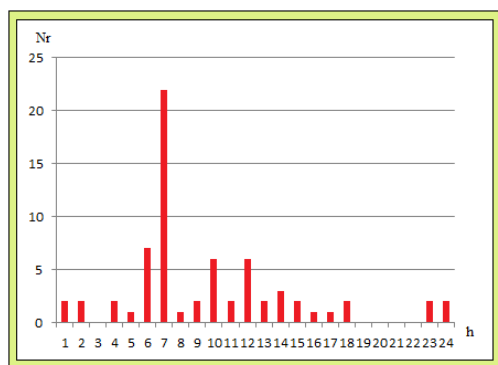
## KATALOGU I TËRMETEVE MUJORE (THE MONTHLY EARTHQUAKE CATALOG)

Data Date	Koha Time	Gjer. Lat	Gjat Long.	Thell. Depth (km)	Nr. N <sub>0</sub>	St. St	Gab Rms	Mag. (M <sub>D</sub> )	Vendndodhja Location
2013 6 1	0844	34.21	41.10	20.16	13	5	0.2	2.4	S-E ELBASAN
2013 6 1	2303	40.46	40.23	21.75	6	7	0.2	3.8	GREECE
2013 6 2	0248	24.98	36.98	20.62	10	5	0.3	4.4	MEDITERRANEAN SEA
2013 6 2	1254	39.76	41.96	19.06	48	4	0.3	3.2	ADRIATIC SEA
2013 6 3	0435	21.53	41.34	19.97	11	4	0.4	2.8	SHKALLE, TIRANES
2013 6 3	0957	13.47	41.46	19.85	7	2	0.1	1.9	FUSHE KRUJE
2013 6 4	0858	00.15	41.14	20.33	11	4	0.2	2.7	LIBRAZHD-ALBANIA
2013 6 5	0226	20.78	43.15	18.73	4	3	0.4	3.4	MONTENEGRO
2013 6 5	0607	25.06	41.88	20.16	7	2	0.7	2.2	ARREN, MIRDITE
2013 6 5	0620	13.81	41.47	19.61	7	5	0.1	3.1	KURATEN, DURRES
2013 6 6	0140	17.27	41.71	20.39	10	2	0.7	2.2	SOHODOLL, PESHKOPI
2013 6 7	2241	48.25	41.02	20.29	7	4	0.2	2.5	ELBASAN-ALBANIA
2013 6 7	2338	18.40	41.48	20.57	15	4	0.1	2.6	DIBER, MACEDONIA
2013 6 8	0151	41.56	41.47	20.99	7	5	0.2	2.9	MACEDONIA
2013 6 8	0252	49.06	41.45	20.94	7	4	0.3	2.6	MACEDONIA
2013 6 8	1903	28.30	41.25	20.28	4	6	0.2	3.6	KUTURMAN ELBASAN
2013 6 9	0603	36.54	41.10	20.15	12	4	0.2	2.5	ELBASAN-ALBANIA
2013 6 9	0922	16.31	41.14	20.20	7	4	0.2	2.8	ELBASAN-ALBANIA
2013 6 9	21.4	50.8	40.35	22.86	7	4	0.1	2.7	GREECE
2013 6 12	1705	09.31	40.77	20.27	2	6	0.1	3.1	GRAMSH-ALBANIA
2013 6 13	0303	48.91	41.84	20.08	7	4	0.1	2.7	KURBNESH-ALBANIA
2013 6 13	0343	46.40	41.85	20.12	10	4	0.1	2.5	KLOS-ALBANIA
2013 6 13	2006	32.14	40.85	21.56	9	6	0.4	3.2	GREECE
2013 6 14	1352	27.95	41.13	20.19	1	4	0.1	2.8	ELBASAN-ALBANIA
2013 6 14	1353	15.48	41.13	20.22	7	3	0.1	2.6	ELBASAN-ALBANIA
2013 6 14	2324	36.95	41.12	20.18	7	3	0.1	2.3	ELBASAN-ALBANIA
2013 6 15	0043	00.69	41.09	20.22	7	3	0.1	2.5	ELBASAN-ALBANIA
2013 6 15	0318	48.81	41.11	20.21	6	5	0.1	2.7	ELBASAN-ALBANIA
2013 6 15	0747	33.96	39.88	20.88	12	6	0.1	2.5	GREECE
2013 6 16	0629	33.06	42.22	19.57	15	5	0.1	2.8	KOPLIK-ALBANIA
2013 6 18	0226	47.04	41.15	20.22	7	4	0.4	2.6	ELBASAN-ALBANIA
2013 6 18	1719	36.75	36.19	22.12	7	7	0.2	4.5	CRETE, GREECE
2013 6 18	2310	03.42	54.27	86.27	7	6	0.2	5.2	SIBERIA , RUSSIA
2013 6 18	2002	15.88	40.36	19.69	17	7	0.4	2.8	VISOKE BALLSH-ALBANIA
2013 6 18	2004	36.11	40.62	19.71	14	7	0.4	2.8	BALLSH-ALBANIA
2013 6 19	0001	26.89	39.02	21.29	10	7	0.2	4.7	CRETE, GREECE
2013 6 20	0054	11.50	42.45	19.82	7	2	0.2	1.8	THETH-ALBANIA
2013 6 20	0026	54.63	42.01	20.73	10	5	0.4	2.8	PRIZREN KOSOVA
2013 6 20	0330	42.70	40.20	20.70	16	7	0.3	3.3	GREECE
2013 6 20	1315	14.99	40.29	20.69	2	7	0.2	3.3	PRODAN, ERSEKE

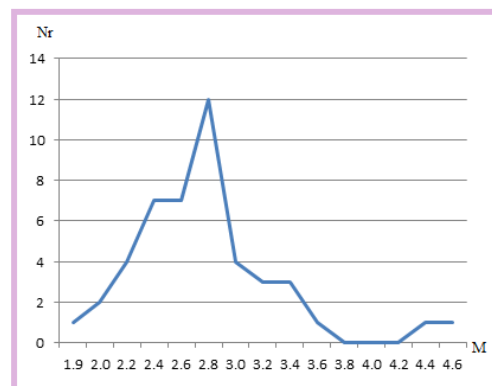
2013	6	21	1035	00.16	44.19	10.15		5	5.3		NORTHERN ITALY
2013	6	22	0354	36.80	41.34	20.00	9	5	0.2	2.3	TIRANA-ALBANIA
2013	6	22	0841	08.92	40.26	19.66	13	5	0.1	4.5	DUKAT, VLORE
2013	6	22	1914	52.64	41.79	20.18	7	3	0.1	2.5	KROJ-LURE-ALBANIA
2013	6	23	0054	09.23	41.06	20.24	7	3	0.1	2.1	ELBASAN-ALBANIA
2013	6	23	01.1	05.65	40.83	20.77	6	8	0.1	2.9	PODGORIE, POGRADEC
2013	6	23	1212	18.30	41.87	20.83	23	4	0.1	2.8	MACEDONIA
2013	6	23	1502	03.64	44.28	10.21	7	5	1.6	4.5	NORTHERN ITALY
2013	6	23	1741	08.35	41.98	20.28	6	4	0.1	2.8	GRAMSH-ALBANIA
2013	6	24	1329	25.50	41.16	20.18	12	5	0.1	3.4	ELBASAN-ALBANIA
2013	6	25	0235	43.40	40.13	19.91	1	5	0.1	2.5	HIMARE-ALBANIA
2013	6	25	0611	08.35	41.63	20.10	12	5	0.1	3	BURREL-ALBANIA
2013	6	26	0013	45.43	41.39	20.68	7	3	0.1	2.3	MACEDONIA
2013	6	26	1609	41.63	42.91	21.89	8	3	0.3	3.2	SERBI
2013	6	27	0306	11.89	40.90	19.82	14	8	0.1	3.4	LUSHNJE-ALBANIA
2013	6	27	0356	24.35	40.89	19.75	18	8	0.1	3.5	LUSHNJE-ALBANIA
2013	6	27	0316	47.78	40.91	19.86	15	8	0.1	3	LUSHNJE-ALBANIA
2013	6	27	0844	06.40	41.19	20.21	2	6	0.2	2.8	LIBRAZHD-ALBANIA
2013	6	27	0933	40.50	41.85	20.13	7	3	0.2	2.3	KURBNESH-ALBANIA
2013	6	27	1445	07.80	40.18	20.54	18	4	0.3	2.7	LESKOVIK-ALBANIA
2013	6	27	1724	37.96	38.10	22.17		4		3.8	GREECE
2013	6	28	1017	10.25	41.14	19.87	24	4	0.1	2.7	ELBASAN-ALBANIA
2013	6	28	1413	14.76	41.75	20.12	2	2	0.1	2	KURBNESH-ALBANIA
2013	6	28	1713	47.42	39.83	21.51	9	7	0.4	3.4	GREECE
2013	6	28	2247	04.00	40.50	19.73	14	7	0.1	2.7	POXEM, BALLSH
2013	6	29	0140	15.45	41.99	20.71	1	6	0.1	3.9	BROD KOSOVA
2013	6	29	0524	18.93	41.56	19.96	1	6	0.1	2.8	BURREL-ALBANIA
2013	6	29	0718	42.40	41.40	20.47	12	3	0.1	2	BURREL-ALBANIA
2013	6	29	0718	42.40	41.40	20.47	12	3	0.1	2	OSTREN, DIBER
2013	6	29	1624	29.92	41.40	20.52	7	3	0.1	2.8	OSTREN, DIBER
2013	6	29	1954	59.99	41.40	20.53	7	3	0.1	2.5	OSTREN, DIBER
2013	6	29	2009	54.01	41.40	20.51	6	3	0.1	2.2	OSTREN, DIBER
2013	6	30	0247	36.02	41.46	20.45	23	6	0.1	3.1	GJORICE, DIBER
2013	6	30	0929	05.29	40.07	19.86	24	5	0.1	2.9	BORSH, SARANDE
2013	6	30	2019	13.30	38.78	20.30	10	4	0.1	3.7	GREECE
2013	6	30	2258	34.87	41.39	20.53	7	4	0.1	2.7	OSTREN, DIBER

## STATISTIKA E NGJARJEVE SIZMIKE (STATISTICS OF SEISMIC EVENTS)

Karakteristikat e pergjithshme (General Characteristics)	Vlerat (Data values)
➤ Ngjarje sizmike të ndodhura në kuadrantin (39-43 V; 18.5-21.5 L)	63
<b>Events occurred within quadrant</b>	
➤ Ngjarje sizmike të ndodhura brenda kufijve shtetërore	52
<b>Events occurred inside state boundaries</b>	
➤ Thellësia mesatare e ngjarjeve sizmike	10
<b>Mean hypocenter depth</b>	
➤ Thellësia maksimale	48
<b>Maximum hypocenter depth</b>	
➤ Magnituda lokale minimale e regjistruar	1.8
<b>Minimum recorded local magnitude</b>	
➤ Magnituda lokale maksimale e regjistruar	4.7
<b>Maximum recorded local magnitude</b>	
➤ Intensiteti sizmik maksimal ne epiqendër	VI
<b>Maximum seismic intensity</b>	



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)

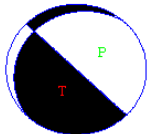


### Zgjidhja e mekanizmit vatror (ZMV)

Për zgjidhjen e mekanizmit të vatres 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 (Snoko. 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 (Snoko. 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)
2013.06.22.08:41	40.26 (N) 19.65 (E) 14 (km)	4.5	P1: 314, 90, 80 P2: 224, 10, 180 T: 214, 44 P: 54, 44	

### Harta e epiqendrave të tërmeteve

