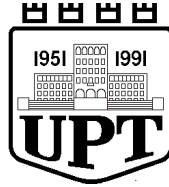


BULETINI I TËRMETEVE TË RRJETIT SIZMOLOGJIK SHQIPTAR

MAJ 2014

PARAMETRIC DATA
AND ALBANIAN'S EARTHQUAKE ANALYSIS
MAY 2014



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

BULETINI MUJOR I RRJETIT SIZMOLOGJIK
TË SHQIPERISË

MAJ 2014

MONTHLY BULLETIN OF THE ALBANIAN
SEISMOLOGICAL NETWORK

MAY 2014

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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

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

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

TËRMETE TËAFËRTA (NEAR EARTHQUAKE)

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	01	1431	25.59	40.10	20.10	7	ASN	3	0.2	2.6	KARDHIQ
					hor.err=2km				ver.err=1KM		-ALBANIA	
GAP=183												
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
TPE	SZ	IPG		1431	30.14	340	0.0	27	25	2.6		
TPE	SE	ISG		1431	33.51	340	0.1	27				

SRN	SZ	IPG	1431	30.34	210	-0.2	28	24	2.6
SRN	SE	ISG	1431	34.87	210	-0.2	28		
IGT	SZ	IPG	1431	38.13	163	-0.1	68		
IGT	SE	ISG	1431	46.12	163	-0.2	68		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	01	1938	33.85	41.07	19.69	24	ASN	4	0.3	2.8	RROGOZHINE- GAP=326
						hor.err=1km						ver.err=3KMALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		1938	41.46	25	0.2	32	28	2.8
TIR	SE	ISG		1938	45.14	25	-0.2	32		
PUK	SZ	IPG		1938	49.77	2	0.1	91	28	2.8
PUK	SE	ISG		1939	02.47	2	0.2	91		
PHP	SZ	IPG		1938	52.16	8	-0.3	108	28	2.8
PHP	SE	ISG		1939	07.32	8	-0.4	108		
BCI	SZ	IPN		1938	58.74	12	-0.4	146		
BCI	SE	ISN		1939	17.23	12	-0.3	146		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	02	2033	21.77				ASN				SRN
						hor.err=km						ver.err=KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPG		2033	21.77					
SRN	SE	ISG		2033	32.37					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	02	2318	21.88	40.88	21.35	6	ASN	4	0.4	2.5	MACEDONIA GAP=207
						hor.err=2km						ver.err=3KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
FNA	SZ	IPG		2318	24.74	167	-0.2	12		
FNA	SE	ISG		2318	26.52	167	0.0	12		
PHP	SZ	IPG		2318	42.28	320	-0.4	117	20	2.5
PHP	SE	ISG		2318	58.23	320	0.0	117		
SRN	SZ	IPN		2318	50.24	227	0.4	160		
SRN	SE	ISN		2319	10.76	227	0.0	160		
IGT	SZ	IPN		2318	51.90	211	-0.1	174		
IGT	SE	ISN		2319	14.24	211	0.3	174		
PUK	SZ	IPN		2318	51.97	317	-0.8	177		
PUK	SE	ISN		2319	16.31	317	0.8	177		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
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2014 05 03 0459 57.90 41.28 19.72 39 ASN 6 0.1 3.0 PEZE HELMES
GAP=309 hor.err=2km ver.err=1KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0500	04.90	60	0.0	14	19	2.6
TIR	SE	ISG		0500	10.08	60	0.0	14		
PHP	SZ	IPG		0500	11.98	53	0.0	75	24	3.0
PHP	SE	ISG		0500	22.64	53	0.0	75		
PUK	SZ	IPG		0500	13.39	9	-0.2	86	26	3.1
PUK	SE	ISG		0500	25.41	9	0.1	86		
BCI	SZ	IPG		0500	19.15	13	0.1	124		
BCI	SE	ISG		0500	35.18	13	0.1	124		
FNA	SZ	IPN		0500	22.90	111	0.2	151		
FNA	SE	ISN		0500	41.33	111	-0.3	151		
SCTE	SZ	IPN		0500	24.77	219	-0.9	170		

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter
2014 05 05 0331 16.05 40.05 19.91 6 ASN 4 0.1 2.4 BORSH-VLOR
GAP=130 hor.err=3km ver.err=13K -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPG		0331	20.36	156	0.2	20	20	2.4
SRN	SE	ISG		0331	23.09	156	0.2	20		
TPE	SZ	IPG		0331	21.32	17	-0.3	29	20	2.4
TPE	SE	ISG		0331	25.95	17	0.2	29		
IGT	SZ	IPG		0331	28.50	147	0.2	68		
IGT	SE	ISG		0331	37.46	147	-0.1	68		
SCTE	SZ	IPG		0331	37.50	273	-0.2	123		
SCTE	SE	ISG		0331	53.42	273	-0.6	123		
FNA	SZ	IPN		0331	42.45	56	0.2	150		
FNA	SE	ISN		0332	02.36	56	0.4	150		

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter
2014 05 05 1438 21.84 42.34 20.08 5 ASN 2 0.0 1.9 B.Curri-ALBANIA
GAP=222 hor.err=10km ver.err=5KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPG		1438	23.01	345	0.0	3	10	1.9
BCI	SE	ISG		1438	23.83	345	0.0	3		
PUK	SZ	IPG		1438	28.84	205	-0.1	36	12	2.0
PUK	SE	ISG		1438	34.14	205	0.0	36		

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter
2014 05 05 1722 44.25 41.43 20.46 7 ASN 3 0.1 2.2 OSTREN-DIBER
GAP=222 hor.err=10km ver.err=5KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		1722	50.12	358	0.2	29	12	2.1
PHP	SE	ISG		1722	53.90	358	0.1	29		
PUK	SZ	IPG		1722	58.99	326	-0.2	83	15	2.3
PUK	SE	ISG		1723	10.37	326	0.0	83		
FNA	SZ	IPG		1723	03.17	132	-0.1	106		
FNA	SE	ISG		1723	16.99	132	0.1	106		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	07	0232	34.32	39.81	19.96	9	ASN	4	0.1	2.4	7KM S-W-SARANDE -ALBANIA
					hor.err=0km			ver.err=1KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPG		0032	36.72	23	0.0	8	18	2.2
SRN	SE	ISG		0032	38.27	23	0.1	8		
IGT	SZ	IPG		0032	42.67	135	0.1	44		
IGT	SE	ISG		0032	48.58	135	0.1	44		
TPE	SZ	IPG		0032	43.94	3	0.2	53	12	2.5
TPE	SE	ISG		0032	51.49	3	0.2	53		
FNA	SZ	IPG		0033	02.96	161	0.4	161		
FNA	SE	ISG		0033	23.32	161	-0.6	161		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	07	0619	59.60	37.62	19.63	2	ASN	7	1.2	3.5	IONIAN SEA
					hor.err=10km			ver.err=11KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
LKD2	SZ	IPN		0620	29.31	34	1.0	156		
LKD2	SE	ISN		0032	46.66	34	-1.1	156		
IGT	SZ	IPN		0620	42.67	15	0.2	220		
IGT	SE	ISN		0621	48.58	15	0.3	220		
SRN	SZ	IPN		0620	45.44	7	3.5	252	143	4.3
SRN	SE	ISN		0621	14.91	7	1.2	252		
TPE	SZ	IPN		0620	74.82	6	-0.2	298	160	4.5
VLO	SZ	IPN		0621	04.86	359	0.2	316		
FNA	SZ	IPN		0620	58.50	22	-0.5	381		
TIR	SZ	IPN		0621	06.34	2	2.2	413	186	4.7

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	08	0526	03.57	43.31	19.69	10	ASN	4	0.2	4.0	MONTENEGRO
					hor.err=1km			ver.err=5KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPG		0526	28.72	163	-0.2	109	106	4.0
BCI	SE	ISG		0526	43.18	163	-0.3	109		
PUK	SZ	IPN		0526	33.42	177	0.2	141	105	4.0

PUK	SE	ISN	0526	52.50	177	0.3	141		
PHP	SZ	IPN	0526	42.19	161	-0.1	190	106	4.0
PHP	SE	ISN	0527	06.31	161	0.2	190		
TIR	SZ	IPN	0526	46.37	176	0.3	216		
TIR	SE	ISN	0527	14.13	176	0.3	216		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	08	1801	33.60	41.28	20.35	7	ASN	4	0.1	2.2	LIBRAZHD
GAP=159					hor.err=1km			ver.err=11KM		-ALBANIA		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		1801	41.58	218	0.2	42	15	2.2
TIR	SE	ISG		1801	47.03	218	-0.2	42		
PHP	SZ	IPG		1801	42.63	9	0.6	46	13	2.1
PHP	SE	ISG		1801	48.25	9	-0.1	46		
PUK	SZ	IPG		1801	50.46	336	-0.2	93	22	2.5
PUK	SE	ISG		1802	02.64	336	0.0	93		
FNA	SZ	IPG		1801	51.86	122	0.0	102		
FNA	SE	ISG		1801	05.54	122	0.1	102		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	09	1124	37.44	40.39	20.00	4	ASN	5	0.1	2.2	MEMALIAJ-TEPELEN
GAP=356					hor.err=1km			ver.err=11KM		-ALBANIA		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TPE	SZ	IPG		1124	39.70	175	0.0	10	15	2.1
TPE	SE	ISG		1124	41.37	175	0.0	10		
SRN	SZ	IPG		1124	47.89	179	0.0	56	16	2.3
SRN	SE	ISG		1124	55.76	179	0.0	56		
IGT	SZ	IPG		1124	54.84	163	-0.4	99		
IGT	SE	ISG		1125	09.64	163	0.9	99		
FNA	SZ	IPG		1124	57.96	69	-1.1	125		
FNA	SE	ISG		1125	15.04	69	-1.1	125		
SCTE	SZ	IPN		1125	01.15	256	0.2	134		
SCTE	SE	ISN		1125	18.17	256	0.9	134		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	11	1246	07.50	40.97	19.87	9	ASN	7	0.2	2.8	BELSH-ALBANIA
GAP=159					hor.err=1km			ver.err=11KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		1246	15.24	0	0.2	42	28	2.8
TIR	SE	ISG		1246	21.41	0	0.0	42		
PUK	SZ	IPG		1246	28.63	1	0.1	120	29	2.9
PUK	SE	ISG		1246	44.95	1	0.2	120		
SRN	SZ	IPG		1246	30.03	174	0.9	121		

SRN	SE	ISG	1246	44.96	174	-0.1	121
FNA	SZ	IPG	1246	30.37	98	0.0	130
FNA	SE	ISG	1246	47.45	98	0.1	130
SCTE	SZ	IPN	1246	37.14	231	-0.2	154
BCI	SZ	IPN	1246	34.85	6	-0.2	156
BCI	SE	ISN	1246	54.87	6	-0.2	156
IGT	SZ	IPN	1246	36.70	165	0.4	164
IGT	SE	ISN	1246	57.50	165	0.3	164

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	12	0054	32.82	39.79	20.30	15	ASN	10	0.1	5.1	27KM S-E-SARANDE
				GAP=135	hor.err=1km							-ALBANIA
												ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPG		0054	38.60	292	0.0	28	177	4.4
SRN	SE	ISG		0054	42.82	292	0.0	28		
IGT	SZ	IPG		0054	38.60	174	-0.2	29		
IGT	SE	ISG		0054	43.33	174	0.1	29		
TPE	SZ	IPG		0054	43.99	337	-0.1	61	190	4.5
TPE	SE	ISG		0054	52.69	337	0.2	61		
VLO	SZ	IPG		0054	51.04	319	0.1	102	205	4.8
VLO	SE	ISG		0055	04.41	319	0.0	102		
FNA	SZ	IPN		0054	57.27	39	-0.3	144		
FNA	SE	ISN		0055	16.27	39	0.2	144		
SCTE	SZ	IPN		0054	58.67	283	-1.4	160		
TIR	SZ	IPN		0055	02.49	349	-0.4	177	220	4.9
TIR	SE	ISN		0055	25.77	349	0.3	177		
PHP	SZ	IPN		0055	07.29	3	-0.7	211	225	5.0
PHP	SE	ISN		0055	33.74	3	-0.7	253		
PUK	SZ	IPN		0055	11.58	3	-1.6	253	225	5.1
BCI	SZ	IPN		0055	17.06	3	-0.7	295		
BCI	SE	ISN		0055	51.04	3	-0.7	295		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	12	0056	40.98	39.79	20.30	12	ASN	6	0.2	3.4	28KM S-E-SARANDE
				GAP=137	hor.err=1km							-ALBANIA
												ver.err=2KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPG		0056	46.23	291	-0.2	28	64	3.4
SRN	SE	ISG		0056	50.64	291	-0.1	28		
IGT	SZ	IPG		0056	46.86	176	0.2	29		
IGT	SE	ISG		0056	51.02	176	0.0	29		
TPE	SZ	IPG		0056	52.46	336	-0.1	62	60	3.4
TPE	SE	ISG		0057	00.80	336	1.5	62		
VLO	SZ	IPG		0057	01.28	318	0.1	102	46	3.2
VLO	SE	ISG		0057	13.01	318	-1.3	102		

FNA	SZ	IPG	0057	07.14	39	-0.5	143
FNA	SE	ISG	0057	23.91	39	-0.2	143
TIR	SZ	IPG	0057	10.96	348	-0.2	179
TIR	SE	ISG	0057	33.18	348	0.2	179

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	12	0058	48.80	39.78	20.26	7	ASN	3	0.1	2.6	26KM S-E-SARANDE GAP=187 hor.err=1km ver.err=12KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPG		0058	53.54	298	-0.2	25	22	2.5
SRN	SE	ISG		0058	57.58	298	0.0	25		
IGT	SZ	IPG		0058	54.20	167	0.0	29		
IGT	SE	ISG		0058	58.35	167	0.0	29		
TPE	SZ	IPG		0058	00.62	340	0.3	61	23	2.6
TPE	SE	ISG		0059	08.43	340	0.1	61		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	12	0352	46.89	39.75	20.26	8	ASN	3	0.1	2.4	26KM S-E-SARANDE GAP=184 hor.err=1km ver.err=1KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPG		0352	52.95	165	0.0	26	20	2.4
SRN	SE	ISG		0352	55.74	165	0.0	26		
IGT	SZ	IPG		0352	52.10	303	0.1	26	21	2.4
IGT	SE	ISG		0352	55.75	303	-0.1	26		
TPE	SZ	IPG		0352	58.95	341	0.5	64		
TPE	SE	ISG		0353	07.10	341	0.0	64		
LKD2	SZ	IPG		0353	06.89	161	-0.1	113		
LKD2	SE	ISG		0353	21.92	161	0.1	113		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	12	0356	03.02	41.2220.09	9	ASN	5	0.1	2.5	11KM N-ELBASAN GAP=294 hor.err=1km ver.err=4KM -ALBANIA	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0356	07.93	307	-0.5	23	22	2.5
TIR	SE	ISG		0356	12.02	307	0.0	23		
PHP	SZ	IPG		0356	14.69	29	0.0	59	19	2.5
PHP	SE	ISG		0356	22.67	29	0.1	59		
PUK	SZ	IPG		0356	20.28	350	-0.1	92	22	2.5
PUK	SE	ISG		0356	32.86	350	0.1	92		
FNA	SZ	IPG		0356	24.85	119	-0.2	119		
FNA	SE	ISG		0356	41.14	119	0.2	119		
BCI	SZ	IPN		0356	25.84	127	-0.4	127		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	14	1844	24.65	41.20	20.09	6	ASN	3	0.1	2.1	10KM N-ELBASAN -ALBANIA
					hor.err=1km			ver.err=11KM				
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
TIR	SZ	IPG		1844	04.90	60	0.0	14	19	2.6		
TIR	SE	ISG		1844	10.08	60	0.0	14				
PHP	SZ	IPG		1844	11.98	53	0.0	75	24	3.0		
PHP	SE	ISG		1844	22.64	53	0.0	75				
PUK	SZ	IPG		1844	13.39	9	-0.2	86	26	3.1		
PUK	SE	ISG		1844	25.41	9	0.1	86				

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	14	1933	39.62				ASN				PHP
GAP=					hor.err=km			ver.err=KM				
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
PHP	SZ	IPG		1933	39.62							
PHP	SE	ISG		1933	41.32							

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	15	0905	23.56	41.90	19.09	9	ASN	3	0.2	2.8	ADRIATIC SEA
GAP=345					hor.err=1km			ver.err=5KM				
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
PUK	SZ	IPN		0905	36.02	76	0.0	67	27	2.7		
PUK	SE	ISN		0905	45.13	76	0.0	67				
BCI	SZ	IPG		0905	40.07	57	-0.2	95	36	2.9		
BCI	SE	ISG		0905	53.21	57	-0.3	95				
PHP	SZ	IPG		0905	43.71	101	-0.2	114	27	2.8		
PHP	SE	ISG		0905	59.07	101	0.2	114				

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	15	1907	35.69	41.16	20.05	8	ASN	3	0.1	2.2	ELBASAN-ALBANIA
GAP=295					hor.err=2km			ver.err=2KM				
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
TIR	SZ	IPG		1907	41.40	323	0.0	26	13	2.1		
TIR	SE	ISG		1907	46.15	323	0.1	26				
PHP	SZ	IPG		1907	47.99	28	0.1	66	16	2.4		
PHP	SE	ISG		1907	56.87	28	0.0	66				
PUK	SZ	IPG		1907	52.91	353	-0.2	98				
PUK	SE	ISG		1908	06.09	353	0.1	98				

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	17	1705	39.28	41.11	20.07	5	ASN 6	0.2	2.7		ELBASAN-ALBANIA
GAP=142					hor.err=2km			ver.err=2KM				
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
TIR	SZ	IPG		1705	44.88	326	0.0	31	13	2.1		
TIR	SE	ISG		1705	49.89	326	0.0	31				
PHP	SZ	IPG		1705	51.67	25	0.1	70	16	2.4		
PHP	SE	ISG		1706	03.42	25	0.0	70				
TPE	SZ	IPG		1705	55.16	184	-0.2	91				
TPE	SE	ISG		1706	09.95	184	1.1	91				
PUK	SZ	IPG		1705	56.96	352	-0.2	104				
PUK	SE	ISG		1706	13.41	352	0.5	104				
BCI	SZ	IPN		1706	03.92	0	-0.4	139				
BCI	SE	ISN		1706	23.52	0	0.3	139				

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	17	1707	56.43	40.14	19.95	5	ASN 3	0.2	2.5		BORSH-SARANDE
GAP=137					hor.err=1km			ver.err=2KM		-ALBANIA		
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
TPE	SZ	IPG		1707	59.75	16	-0.1	17	22	2.5		
TPE	SE	ISG		1708	03.10	16	0.2	17				
SRN	SZ	IPG		1708	02.02	171	0.2	29				
SRN	SE	ISG		1708	07.32	171	0.1	29				
VLO	SZ	IPG		1708	05.89	314	0.1	53				
VLO	SE	ISG		1708	14.32	314	-0.3	53				

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	18	0110	49.65	40.61	19.76	17	ASN 7	0.2	3.1		BALLSH-FIER
GAP=120					hor.err=0km			ver.err=1KM		-ALBANIA		
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
VLO	SZ	IPG		0110	55.21	235	-0.1	27	32	2.8		
VLO	SE	ISG		0111	00.32	235	0.0	27				
TPE	SZ	IPG		0110	55.21	149	0.1	41	39	3.1		
TPE	SE	ISG		0111	03.61	149	0.0	41				
TIR	SZ	IPG		0111	04.38	5	0.0	82	39	3.1		
TIR	SE	ISG		0111	16.04	5	0.0	82				
SRN	SZ	IPG		0111	04.89	166	0.1	83	38	3.1		
SRN	SE	ISG		0111	16.73	166	-0.2	83				
PHP	SZ	IPN		0111	11.64	25	0.1	131	40	3.2		
PHP	SE	ISN		0111	30.67	25	0.0	131				
PUK	SZ	IPN		0111	16.60	3	-0.3	159	35	3.1		
PUK	SE	ISN		0111	37.65	3	-0.3	159				
BCI	SZ	IPN		0111	21.76	7	0.2	196	39	3.2		

BCI SE ISN 0111 47.88 7 -0.6 196

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	18	0214	11.61	41.54	20.22	9	ASN	3	0.1	1.8	6KM V-W BULQIZE GAP=185
					hor.err=2km				ver.err=2KM		-ALBANIA	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0214	16.22	49	0.0	24	10	1.7
PHP	SE	ISG		0214	20.20	49	0.0	24		
TIR	SZ	IPG		0214	18.38	234	0.0	36	11	1.9
TIR	SE	ISG		0214	24.07	234	0.1	36		
PUK	SZ	IPG		0214	22.57	334	-0.2	61		
PUK	SE	ISG		0214	31.42	334	-0.1	61		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	19	0059	18.70	40.93	19.92	18	ASN	7	0.5	5.2	6KM S-E BELSH GAP=122
					hor.err=1km				ver.err=2KM		-ALBANIA	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0059	28.31	355	0.7	47	472	5.2
TIR	SE	ISG		0059	33.89	355	-0.4	47		
VLO	SZ	IPG		0059	30.96	216	0.1	63	492	5.2
VLO	SE	ISG		0059	38.98	216	-0.4	63		
TPE	SZ	IPG		0059	30.67	173	0.2	71	495	5.2
TPE	SE	ISG		0059	41.55	173	0.2	71		
PHP	SZ	IPG		0059	35.22	27	0.2	95	477	5.2
PHP	SE	ISG		0059	46.02	27	-0.9	95		
SRN	SZ	IPG		0059	39.07	176	0.1	117		
SRN	SE	ISG		0059	54.77	176	-0.4	117		
PUK	SZ	IPG		0059	39.87	359	0.2	123		
PUK	SE	ISG		0059	56.91	359	-0.6	123		
BCI	SZ	IPN		0059	45.26	4	-0.1	160		
BCI	SE	ISN		0059	07.94	4	1.2	160		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	19	0106	36.47	40.94	19.99	2	ASN	7	0.2	2.8	8KM S-E CERRIK GAP=127
					hor.err=2km				ver.err=2KM		-ALBANIA	

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0106	46.05	352	0.1	47	32	2.8
TIR	SE	ISG		0106	52.55	352	-0.1	47		
VLO	SZ	IPG		0106	49.56	215	0.2	66	32	2.8
VLO	SE	ISG		0106	58.72	215	-0.2	66		
TPE	SZ	IPG		0106	49.66	171	-0.1	71	33	2.8
TPE	SE	ISG		0106	59.77	171	0.2	71		

PHP	SZ	IPG	0106	52.58	28	0.1	91	33	2.8
PHP	SE	ISG	0107	06.14	28	-0.3	91		
SRN	SZ	IPG	0106	58.10	171	0.3	117		
SRN	SE	ISG	0107	12.91	171	-0.4	117		
FNA	SZ	IPG	0106	59.69	8	-0.1	119		
FNA	SE	ISG	0107	07.94	8	0.1	119		
PUK	SZ	IPN	0106	59.87	351	-0.2	132		
PUK	SE	ISN	0107	18.56	351	-0.1	132		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	19	0116	58.07	40.95	20.08	2	ASN	8	0.4	4.1	6KM S-E GOSTIMA
				GAP=162	hor.err=2km			ver.err=2KM		-ALBANIA		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0117	08.55	342	0.1	47	101	3.9
TIR	SE	ISG		0117	15.11	342	-0.2	47		
VLO	SZ	IPG		0117	11.69	222	0.0	70	118	4.0
VLO	SE	ISG		0117	22.23	222	-0.4	70		
TPE	SZ	IPG		0117	12.26	183	0.2	72	127	4.1
TPE	SE	ISG		0117	22.35	183	0.2	72		
PHP	SZ	IPG		0117	15.50	21	0.2	89	128	4.1
PHP	SE	ISG		0117	27.63	21	-0.2	89		
FNA	SZ	IPG		0117	20.60	98	-0.1	114		
FNA	SE	ISG		0117	35.27	98	0.6	114		
SRN	SZ	IPG		0117	20.71	182	0.1	118		
SRN	SE	ISG		0117	36.88	182	0.2	118		
PUK	SZ	IPG		0117	20.99	355	0.3	122		
PUK	SE	ISG		0117	37.72	355	0.7	122		
BCI	SZ	IPN		0117	26.52	1	0.5	158	152	4.3
BCI	SE	ISN		0117	48.30	1	0.6	158		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	19	0120	31.41	40.96	20.01	5	ASN	8	0.3	2.7	6KM S-E GOSTIMA
				GAP=124	hor.err=3km			ver.err=2KM		-ALBANIA		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0120	39.73	344	-0.4	45	25	2.7
TIR	SE	ISG		0120	46.27	344	0.1	45		
VLO	SZ	IPG		0120	44.51	220	0.3	70	25	2.7
VLO	SE	ISG		0120	53.50	220	-0.4	70		
TPE	SZ	IPG		0120	44.45	181	0.4	74	25	2.7
TPE	SE	ISG		0120	54.05	181	-0.6	74		
PHP	SZ	IPG		0120	47.36	23	0.3	88	32	2.9
PHP	SE	ISG		0120	58.52	23	-0.1	88		
FNA	SZ	IPG		0120	52.32	99	-0.3	117		
FNA	SE	ISG		0121	07.81	99	0.3	117		
SRN	SZ	IPG		0120	55.16	181	0.0	120		

SRN	SE	ISG	0121	09.01	181	0.3	120
PUK	SZ	IPG	0120	52.61	356	0.2	121
PUK	SE	ISG	0121	09.48	356	0.2	121
BCI	SZ	IPN	0120	59.33	1	0.5	156

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	19	0125	29.97	40.97	19.97	22	ASN	8	0.3	3.5	5KM S-E GOSTIMA
					hor.err=1km				ver.err=1KM		-ALBANIA	
GAP=115												

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0125	38.13	348	0.0	43	60	3.5
TIR	SE	ISG		0125	44.28	348	-0.1	43		
VLO	SZ	IPG		0125	41.97	216	0.3	69	53	3.4
VLO	SE	ISG		0125	51.60	216	-0.1	69		
TPE	SZ	IPG		0125	42.23	177	0.1	75	63	3.6
TPE	SE	ISG		0125	53.79	177	-0.2	75		
PHP	SZ	IPG		0125	44.81	26	0.6	88	64	3.6
PHP	SE	ISG		0125	57.24	26	-0.2	88		
FNA	SZ	IPG		0125	50.71	88	-0.4	119		
FNA	SE	ISG		0126	05.35	88	0.4	119		
SRN	SZ	IPG		0125	50.46	172	0.2	121		
SRN	SE	ISG		0126	06.22	172	0.0	121		
PUK	SZ	IPG		0125	51.01	357	0.3	122		
PUK	SE	ISG		0126	06.38	357	0.0	122		
BCI	SZ	IPN		0125	56.43	2	0.4	155		
BCI	SE	ISN		0126	16.18	2	0.4	155		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	19	0304	19.73	40.95	20.02	6	ASN	7	0.3	2.9	6KM S-E GOSTIMA
					hor.err=2km				ver.err=1KM		-ALBANIA	
GAP=124												

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0304	27.91	344	-0.1	46	31	2.8
TIR	SE	ISG		0304	34.31	344	-0.2	46		
VLO	SZ	IPG		0304	32.52	220	0.2	69	35	2.9
VLO	SE	ISG		0304	41.93	220	0.2	69		
TPE	SZ	IPG		0304	32.74	181	0.0	75	35	2.9
TPE	SE	ISG		0304	42.59	181	0.2	75		
PHP	SZ	IPG		0304	35.27	23	0.2	89	35	2.9
PHP	SE	ISG		0304	47.56	23	-0.1	89		
FNA	SZ	IPG		0304	40.72	98	-0.1	117		
FNA	SE	ISG		0304	59.95	98	0.2	117		
SRN	SZ	IPG		0304	41.30	181	0.3	119		
SRN	SE	ISG		0304	57.88	181	0.4	119		
PUK	SZ	IPG		0304	40.61	356	0.6	121		
PUK	SE	ISG		0304	57.82	356	0.5	121		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	19	0338	57.18	40.95	19.94	14	ASN 8	0.2	3	4KM	S-E GOSTIMA
GAP=149					hor.err=1km		ver.err=1KM		-ALBANIA			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0339	06.31	353	0.0	46	31	2.8
TIR	SE	ISG		0339	12.26	353	-0.5	46		
VLO	SZ	IPG		0339	09.49	216	0.1	64	35	2.9
VLO	SE	ISG		0339	17.78	216	0.0	64		
TPE	SZ	IPG		0339	09.97	175	0.1	72	35	2.9
TPE	SE	ISG		0339	19.79	175	0.1	72		
PHP	SZ	IPG		0339	13.30	26	0.0	93	35	2.9
PHP	SE	ISG		0339	26.00	26	-0.2	93		
FNA	SZ	IPG		0339	18.12	177	-0.3	118		
FNA	SE	ISG		0339	33.72	177	0.0	118		
SRN	SZ	IPG		0339	18.29	359	0.3	122		
SRN	SE	ISG		0339	35.06	359	0.3	122		
PUK	SZ	IPN		0339	25.31	3	-0.6	159		
PUK	SE	ISN		0339	44.75	3	-0.1	159		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	19	0459	56.58	40.94	20.04	12	ASN 5	0.1	2.6	11KM	S-E CERRIK
GAP=161					hor.err=1km		ver.err=1KM		-ALBANIA			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0500	05.74	342	0.1	48	23	2.6
TIR	SE	ISG		0500	12.00	342	0.2	48		
TPE	SZ	IPG		0500	18.57	183	0.1	72	23	2.6
TPE	SE	ISG		0500	12.27	183	-0.1	72		
PHP	SZ	IPG		0500	24.43	21	0.0	89	23	2.6
PHP	SE	ISG		0500	18.44	21	0.1	89		
SRN	SZ	IPG		0500	32.93	182	0.0	118		
SRN	SE	ISG		0500	18.02	182	0.2	118		
PUK	SZ	IPG		0500	34.74	255	0.4	123		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	20	0443	25.58	40.95	20.03	14	ASN 8	0.3	4.5	9KM	S- CERRIK
GAP=116					hor.err=1km		ver.err=1KM		-ALBANIA			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0443	34.71	343	0.1	46	211	4.5
TIR	SE	ISG		0443	41.53	343	-0.1	46		
VLO	SZ	IPG		0443	37.42	182	-0.3	70	213	4.5
VLO	SE	ISG		0443	48.79	182	-0.1	70		
TPE	SZ	IPG		0443	36.98	174	0.1	73	212	4.5

TPE	SE	ISG	0443	48.22	174	-0.2	73					
PHP	SZ	IPG	0443	40.81	22	-0.1	83	213	4.5			
PHP	SE	ISG	0443	52.56	22	0.2	83					
FNA	SZ	IPG	0443	46.22	99	0.1	115					
FNA	SE	ISG	0444	01.70	99	0.1	115					
SRN	SZ	IPG	0443	44.40	171	0.0	119					
SRN	SE	ISG	0444	02.22	171	-0.1	119					
PUK	SZ	IPG	0443	45.82	355	-0.2	121					
PUK	SE	ISG	0444	02.64	355	0.2	121					
BCI	SZ	IPN	0443	52.30	1	0.1	157	214	4.5			
BCI	SE	ISN	0444	13.73	1	0.1	157					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	20	0505	02.89	40.93	20.04	6	ASN	6	0.2	2.8	10KM S-E CERRIK -ALBANIA
					hor.err=2km			ver.err=1KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0505	11.97	343	0.0	48	29	2.8
TIR	SE	ISG		0505	17.95	343	0.0	48		
TPE	SZ	IPG		0505	15.70	183	0.1	70	28	2.8
TPE	SE	ISG		0505	28.81	183	0.1	70		
PHP	SZ	IPG		0505	18.54	21	0.0	90	28	2.8
PHP	SE	ISG		0505	33.06	21	0.3	90		
FNA	SZ	IPG		0505	22.89	97	-0.1	114		
FNA	SE	ISG		0505	35.12	97	-0.2	114		
PUK	SZ	IPG		0505	23.72	355	-0.4	121		
PUK	SE	ISG		0505	38.73	355	-0.1	121		
BCI	SZ	IPN		0505	24.69	1	0.2	159	29	2.8
BCI	SE	ISN		0505	43.89	1	0.2	159		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	20	1121	34.65	40.92	20.05	6	ASN	6	0.2	3.5	MOLLAS-CERRIK -ALBANIA
					hor.err=2km			ver.err=2KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		1121	43.77	342	0.1	50	69	3.5
TIR	SE	ISG		1121	52.75	342	0.0	50		
VLO	SZ	IPG		1121	46.73	224	-0.2	69	63	3.5
VLO	SE	ISG		1121	57.74	224	-0.2	69		
PHP	SZ	IPG		1121	50.08	20	0.1	90	63	3.5
PHP	SE	ISG		1122	04.32	20	-0.3	90		
FNA	SZ	IPG		1121	54.30	97	0.2	113		
FNA	SE	ISG		1122	11.14	97	0.1	113		
SRN	SZ	IPG		1121	54.78	183	-0.3	115	46	3.2
SRN	SE	ISG		1122	11.84	183	0.3	115		
PUK	SZ	IPG		1121	56.70	354	0.4	125		
PUK	SE	ISG		1122	13.17	354	0.0	125		

BCI	SZ	IPN	1122	02.42	0	-0.5	160
BCI	SE	ISN	1122	25.32	0	0.6	160

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	21	2004	59.26	41.60	19.75	26	ASN	7	0.1	2.7	LAC-ALBANIA
					hor.err=1km				ver.err=3KM			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2205	06.19	161	0.0	30	21	2.6
TIR	SE	ISG		2205	10.75	161	-0.3	30		
PUK	SZ	IPG		2205	09.09	13	0.0	51	22	2.7
PUK	SE	ISG		2205	16.55	13	0.0	51		
PHP	SZ	IPG		2205	10.25	80	0.0	58	24	2.8
PHP	SE	ISG		2205	18.58	80	0.0	58		
BCI	SZ	IPG		2205	15.05	17	-0.2	89		
BCI	SE	ISG		2205	27.07	17	0.1	89		
VLO	SZ	IPG		2205	21.26	190	0.1	127		
VLO	SE	ISG		2205	37.47	190	-0.2	127		
TPE	SZ	IPN		2205	24.39	171	0.2	147		
TPE	SE	ISN		2205	43.32	171	0.3	147		
SRN	SZ	IPN		2205	29.20	173	-1.2	192		
SRN	SE	ISN		2205	54.78	173	0.1	192		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	21	2008	38.67	41.61	19.79	10	ASN	5	0.1	2.4	LAC-ALBANIA
					hor.err=1km				ver.err=3KM			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2208	44.62	168	0.2	29	19	2.4
TIR	SE	ISG		2208	48.53	168	-0.2	29		
PUK	SZ	IPG		2208	47.78	9	0.0	49	27	2.7
PUK	SE	ISG		2208	54.73	9	0.1	49		
PHP	SZ	IPG		2208	48.83	80	0.1	55	19	2.4
PHP	SE	ISG		2208	56.22	80	0.0	55		
BCI	SZ	IPG		2208	53.49	14	0.0	87		
BCI	SE	ISG		2209	05.81	14	0.3	87		
TPE	SZ	IPN		2209	04.18	172	0.1	147		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	24	0510	01.12	41.49	19.38	6	ASN	4	0.2	2.7	ADRIATIC SEA
					hor.err=2km				ver.err=2KM			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0510	09.66	112	0.0	43	28	2.7
TIR	SE	ISG		0510	15.47	112	-0.0	43		
PUK	SZ	IPG		0510	14.49	34	0.1	73	25	2.6

PUK	SE	ISG	0510	24.71	34	0.2	73		
PHP	SZ	IPG	0510	16.62	76	-0.3	90	29	2.8
PHP	SE	ISG	0510	29.07	76	-0.2	90		
BCI	SZ	IPG	0510	20.49	30	0.2	111		
BCI	SE	ISG	0510	36.09	30	-0.3	111		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	24	0924	57.94	40.32	25.69	40	ASN	7	0.4	6.8	AEGEN SEA
GAP=234					hor.err=10km			ver.err=20KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
THE	SZ	IPN		0925	33.81	280	-0.2	234		
THE	SE	ISN		0926	00.87	280	-0.2	234		
PHP	SZ	IPN		0926	04.56	291	0.5	467		
PHP	SE	ISN		0926	55.63	291	-0.6	467		
SRN	SZ	IPN		0926	07.59	267	-1.9	488		
SRN	SE	ISN		0926	57.94	267	0.1	488		
TIR	SZ	IPN		0926	10.19	285	0.5	505		
TIR	SE	ISN		0927	04.39	285	0.2	505		
BCI	SZ	IPN		0926	12.15	298	-0.2	523		
BCI	SE	ISN		0927	07.83	298	0.1	523		
PUK	SZ	IPN		0926	11.65	294	-0.6	523		
PUK	SE	ISN		0927	07.69	294	-0.3	523		
VLO	SZ	IPN		0926	13.25	274	-0.4	527		
VLO	SE	ISN		0927	08.45	274	0.5	527		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	24	1356	00.49	41.41	19.55	3	ASN	6	0.2	3.5	12KM N DURRES
GAP=198					hor.err=1km			ver.err=1KM -ALBANIA				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		1356	06.06	105	0.0	27	55	3.3
TIR	SE	ISG		1356	10.14	105	-0.1	27		
PUK	SZ	IPG		1356	14.48	22	0.1	76	72	3.6
PUK	SE	ISG		1356	25.24	22	0.1	76		
PHP	SZ	IPG		1356	14.75	67	-0.6	80	63	3.5
PHP	SE	ISG		1356	26.76	67	0.2	80		
VLO	SZ	IPG		1356	19.86	183	0.2	105		
VLO	SE	ISG		1356	33.73	183	-0.8	105		
BCI	SZ	IPG		1356	20.43	21	-0.2	114		
BCI	SE	ISG		1356	36.60	21	0.8	114		
SRN	SZ	IPN		1356	30.10	167	-1.1	174		
SRN	SE	ISN		1356	52.98	167	-1.3	174		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	24	1422	31.27	41.32	19.51	17	ASN	4	0.1	2.5	5KM S-E DURRES

GAP=198										
					hor.err=1km	ver.err=1KM			-ALBANIA	
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		1422	37.68	83	0.2	30	20	2.5
TIR	SE	ISG		1422	42.04	83	-0.1	30		
PUK	SZ	IPG		1422	46.78	21	0.0	87	22	2.6
PUK	SE	ISG		1422	58.41	21	0.0	87		
PHP	SZ	IPG		1422	46.88	61	-0.1	88	20	2.5
PHP	SE	ISG		1422	58.79	61	0.2	88		
BCI	SZ	IPG		1422	52.61	21	-0.4	125		
BCI	SE	ISG		1423	09.33	21	0.1	125		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	24	1548	04.33	41.67	20.76	11	ASN	6	0.2	2.8	MACEDONIA
GAP=187					hor.err=1km		ver.err=5KM					

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		1548	10.01	358	0.3	29	25	2.6
PHP	SE	ISG		1548	13.17	358	-0.4	29		
PUK	SZ	IPG		1548	19.06	326	0.1	83	34	2.9
PUK	SE	ISG		1548	30.05	326	-0.3	83		
TIR	SZ	IPG		1548	19.43	326	-0.2	83	30	2.8
TIR	SE	ISG		1548	30.59	326	0.2	83		
BCI	SZ	IPG		1548	22.42	326	0.9	96		
BCI	SE	ISG		1548	34.54	326	0.2	96		
FNA	SZ	IPG		1548	24.40	132	0.2	112		
FNA	SE	ISG		1548	38.77	132	-0.3	112		
SRN	SZ	IPN		1548	39.51	326	-0.2	209		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	24	1658	12.00	41.41	19.55	11	ASN	5	0.2	2.6	12KM N-DURRES
GAP=276					hor.err=1km		ver.err=3KM			-ALBANIA		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		1658	17.55	105	0.1	27	24	2.6
TIR	SE	ISG		1658	21.43	105	-0.2	27		
PUK	SZ	IPG		1658	25.67	22	0.0	76	31	2.9
PUK	SE	ISG		1658	35.93	22	0.0	76		
PHP	SZ	IPG		1658	26.05	67	-0.4	80	20	2.5
PHP	SE	ISG		1658	37.56	67	0.2	80		
BCI	SZ	IPG		1658	32.51	21	0.2	114		
BCI	SE	ISG		1658	47.24	21	-0.2	114		
FNA	SZ	IPN		1658	40.56	113	-0.5	169		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	24	2204	37.52	41.22	20.08	4	ASN	3	0.1	2.2	11KM N-ELBASAN

GAP=280		hor.err=3km		ver.err=2KM		-ALBANIA				
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2204	42.38	310	0.2	23	14	2.2
TIR	SE	ISG		2204	45.66	310	0.1	23		
PHP	SZ	IPG		2204	48.73	30	0.0	60	14	2.2
PHP	SE	ISG		2204	57.14	30	0.0	60		
PUK	SZ	IPG		2204	54.21	351	-0.2	93	22	2.6
PUK	SE	ISG		2205	07.13	351	0.1	93		

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Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	25	2105	09.27	41.96	21.25	7	ASN	5	0.3	4.0	MACEDONIA
GAP=240				hor.err=4km				ver.err=3KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		2105	23.22	246	0.2	74	122	4.0
PHP	SE	ISG		2105	32.95	246	-0.1	74		
BCI	SZ	IPG		2105	28.21	295	0.2	104	121	4.0
BCI	SE	ISG		2105	42.20	295	0.1	104		
PUK	SZ	IPG		2105	28.71	275	0.2	112	124	4.0
PUK	SE	ISG		2105	44.31	275	0.0	112		
FNA	SZ	IPN		2105	33.81	174	0.1	132		
FNA	SE	ISN		2105	48.94	174	-0.3	132		
TIR	SZ	IPN		2105	27.24	240	0.2	134		
TIR	SE	ISN		2105	54.80	240	-0.2	134		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	26	2354	47.12	41.56	19.41	9	ASN	5	0.3	2.7	ADRIATIC SEA
GAP=144				hor.err=1km				ver.err=3KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2354	55.89	124	0.3	46	25	2.7
TIR	SE	ISG		2355	02.59	124	0.0	46		
PUK	SZ	IPG		2354	58.71	37	0.0	65	26	2.7
PUK	SE	ISG		2355	07.98	37	0.0	65		
PHP	SZ	IPG		2355	02.11	81	-0.1	87	28	2.8
PHP	SE	ISG		2355	14.17	81	-1.1	87		
BCI	SZ	IPG		2355	04.39	31	0.2	103		
BCI	SE	ISG		2355	19.37	31	0.3	103		
FNA	SZ	IPN		2355	19.86	117	-0.2	188		
FNA	SE	ISN		2355	43.26	117	-0.2	188		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	27	2051	46.26	40.17	19.75	7	ASN	3	0.2	1.9	VUNO-VLORA
GAP=270				hor.err=2km				ver.err=3KM		-ALBANIA		

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TPE	SZ	IPG		2051	51.29	57	0.0	25	9	1.8
TPE	SE	ISG		2051	55.07	57	0.1	25		
SRN	SZ	IPG		2051	53.20	147	-0.2	38	12	2.0
SRN	SE	ISG		2051	58.66	147	0.1	38		
IGT	SZ	IPG		2052	02.10	145	0.2	86		
IGT	SE	ISG		2052	13.57	145	0.2	86		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	28	2234	36.80	41.78	20.31	6	ASN	3	0.5	2.0	SHUMBAT-PESHKOPI GAP=187
						hor.err=1km						ver.err=5KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		2234	40.16	87	0.2	15	12	2.0
PHP	SE	ISG		2234	41.79	87	-0.4	15		
PUK	SZ	IPG		2234	45.82	90	0.6	45	13	2.0
PUK	SE	ISG		2234	50.71	90	-0.3	45		
FNA	SZ	IPN		2234	59.37	68	0.5	143		
FNA	SE	ISN		2235	01.33	68	-0.8	143		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	28	2349	13.02	41.92	20.07	7	ASN	3	0.2	2.6	KLOS-ALBANIA GAP=180
						hor.err=4km						ver.err=5KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		2349	16.66	311	0.2	19	26	2.6
PHP	SE	ISG		2349	20.57	311	-0.2	19		
PUK	SZ	IPG		2349	20.18	131	0.1	40	25	2.6
PUK	SE	ISG		2349	26.96	131	0.0	40		
BCI	SZ	IPG		2349	21.61	0	-0.4	48		
BCI	SE	ISG		2349	29.04	0	0.2	48		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	29	0052	13.24	41.86	20.24	7	ASN	4	0.1	2.7	MOLLE-PESHKOPI GAP=154
						hor.err=1km						ver.err=1KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		0052	18.74	141	-0.1	26	28	2.7
PHP	SE	ISG		0052	12.07	141	-0.1	26		
PUK	SZ	IPG		0052	19.96	305	0.0	35	28	2.7
PUK	SE	ISG		0052	24.94	305	0.2	35		
BCI	SZ	IPG		0052	23.94	346	-0.1	57	28	2.7
BCI	SE	ISG		0052	32.11	346	0.1	57		
TIR	SZ	IPG		0052	25.16	209	0.1	65		
TIR	SE	ISG		0052	34.81	209	0.2	65		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	29	0315	07.12	41.12	20.03	6	ASN 4	0.2	2.7		ELBASAN-ALBANIA
					hor.err=1km				ver.err=2KM			
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
TIR	SZ	IPG		0315	12.96	331	0.1	29	28	2.7		
TIR	SE	ISG		0315	16.91	331	0.2	29				
PHP	SZ	IPG		0315	20.21	28	-0.2	71	28	2.7		
PHP	SE	ISG		0315	29.08	28	-0.1	71				
PUK	SZ	IPG		0315	25.27	354	-0.4	103	29	2.8		
PUK	SE	ISG		0315	33.59	354	0.1	103				
BCI	SZ	IPN		0315	30.53	1	-0.3	138				
BCI	SE	ISN		0315	47.38	1	-0.1	138				

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	29	1641	55.18	40.97	20.01	32	ASN 5	0.1	2.8		GOSTIMA-ALBANIA
					hor.err=1km				ver.err=1KM			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
TIR	SZ	IPG		1642	04.39	345	0.0	45	22	2.8		
TIR	SE	ISG		1642	11.40	345	-0.1	45				
PHP	SZ	IPG		1642	10.96	24	-0.2	87	22	2.8		
PHP	SE	ISG		1642	22.46	24	0.1	87				
FNA	SZ	IPG		1642	15.16	99	0.0	118	24	2.9		
FNA	SE	ISG		1642	30.84	99	0.0	118				
PUK	SZ	IPN		1642	16.58	356	0.3	120				
PUK	SE	ISN		1642	31.65	356	0.9	120				
SRN	SZ	IPG		1642	16.90	181	0.0	121				
SRN	SE	ISG		1642	31.76	181	0.1	121				

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	30	2044	44.36	40.23	20.01	32	ASN 5	0.1	2.8		TEPELEN-ALBANIA
					hor.err=1km				ver.err=1KM			

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
TPE	SZ	IPG		2044	48.39	353	0.0	6	21	2.8		
TPE	SE	ISG		2044	53.18	353	0.1	6				
SRN	SZ	IPG		2044	52.14	183	-0.1	35	24	2.8		
SRN	SE	ISG		2044	58.56	183	-0.1	35				
VLO	SZ	IPG		2044	52.86	301	0.1	51	24	2.8		
VLO	SE	ISG		2045	01.46	301	0.1	51				
IGT	SZ	IPG		2044	59.06	161	0.2	82				
IGT	SE	ISG		2045	10.13	161	0.1	82				
TIR	SZ	IPG		2045	04.24	357	-0.2	124				
TIR	SE	ISG		2045	19.02	357	-0.9	124				

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	05	31	0655	58.84	41.56	19.31	7	ASN	4	0.4	2.9	ADRIATIC SEA GAP=345
					hor.err=1km							ver.err=5KM
STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md		
TIR	SZ	IPG		0656	11.58	117	0.2	52	35	2.9		
TIR	SE	ISG		0656	16.68	117	0.3	52				
PUK	SZ	IPG		0656	13.26	212	0.2	71	33	2.9		
PUK	SE	ISG		0656	21.12	212	0.5	71				
PHP	SZ	IPG		0656	16.35	81	-0.6	94	34	2.9		
PHP	SE	ISG		0656	29.73	81	-0.8	94				
BCI	SZ	IPG		0656	18.99	34	0.6	100				
BCI	SE	ISG		0656	33.38	34	-0.3	100				

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)
1	12.05.2014	00:54:32.8	Epiqendra: 39.79V; 20.30L në juglindjetë qytetit Sarandes. Intensiteti i tërmetit në epiqendër $I_0=VI-VII$ ballë Ndjerë: V-VI ballë ne qytetet e Sarandes dhe Delvines; V ballë ne qytetet Gjirokaster dhe Leskovik; IV-V ballë në qytetet e Permet, Tepelene, Himare, IV ne qytetet Vlore, Berat, Korce; III-IV ne qytetet Lushnje,

			<p>Elbasan, Pogradec: Ndjer leht ne nje zone me te gjere. Epicentre: 39.79N; 20.30E at southeastern of Saranda town. Epicentral Intensity $I_0=VI-VII$ Felt: V-VI Saranda and Delvina towns; Vat Gjirokastra and Leskoviku towns; IV-V at Permeti, Tepelena, Himara towns, IV at Vlora, Berati, Korca towns; III-IV at Lushnje, Elbasan, Pogradeci towns: Felt slightly in widely zone.</p>
2	19.05.2014	00:59:18.7	<p>Epiqendra: 40.93V; 19.92L, 6km në juglindje të qytetit Belshit, 18km ne jug te qytetit te Elbasanit. Intensiteti i tërmetit në epiqendër $I_0=VII$ balle Ndjerë: VI-VII ballë nefshatrat Mollas, Gostim dhe qytetet e Belshit dhe Cerrikut, ne te cilat pati demtime ne shtepi, pallate dhe shkolla. Ndjere VI ballë në qytetin e Elbasanit, Lushnjes, Kucoves dhe Gramshit, V-VI ne qytetet e Beratit, Fierit, Kavajes, Tiranes, Perrenjas, IV-V balle ne qytetet Vlore, Tepelene, Korce, Pogradec, Kruje, Peshkopi, III-IV ne qytetet Gjirokaster, Leskovik, Lezhe, Kurbnesh. Ndjere lehte ne nje zone me te gjere edhe jasht vendit. (Epicentre: 40.93N; 19.92E, 6km at southeastern of Belshi town, 18km at south of Elbasani town. Epicentral Intensity $I_0=VII$ Felt: VI-VII at Mollas, Gostim villages and Belshi, Cerriku towns in which had damages in some dwellings and social buildings. Felt: VI at Elbasanit, Lushnje, Kucova and Gramshit towns, V-VI at Berati, Fieri, Kavaja, Tirana, Perrenjasi towns, IV-V Vlora, Tepelena, Korca, Pogradeci, Kruja and Peshkopia towns, III-IV at Gjirokastera, Leskoviku, Lezha, Kurbneshi towns. Felt slightly in a widely zone and abroad the Country.</p>
3	19.05.2014	01:16:58.07	<p>Epiqendra: 40.95V; 20.08L, 11km në lindje të qytetit Belshit. Intensiteti i tërmetit në epiqendër $I_0=V$ balle Ndjerë: V ballë nefshatrat Mollas, Sult, dhe qytetet e Belshit dhe Cerrikut. Ndjere IV ballë në qytetin e Elbasanit, Lushnjes, Kucoves dhe Gramshit. Ndjere lehte ne nje zone me te gjere. (Epicentre: 40.95N; 20.08E, 11km at southeastern of Belshi town, 18km at south of Elbasani town. Epicentral Intensity $I_0=V$ Felt: V at Mollas, Gostim villages and Belshi, Cerriku towns. Felt: IV at Elbasanit, Lushnje, Kucova and Gramshi towns, Felt slightly in a widely zone.</p>
4	20.05.2014	04:43:25.07	<p>Epiqendra: 40.95V; 20.03L, ne jug te qytetit Belshit.</p>

			<p>Intensiteti i tërmetit në epiqendër $I_0=VI$ balle Ndjerë: V-VI ballë nefshatrat Mollas, Sult, dhe qytetet e Belshit dhe Cerrikut. Ndjere V ballë në qytetin e Elbasanit, Lushnjes, Kucoves dhe Gramshit, IV ballë at Berati, Fieri, Kavaja, Tirana and Perrenjas, Ndjere lehte ne nje zone me te gjere. (Epicentre: 40.95N; 20.03E, southeast of Belshi town, 17km at south of Elbasani town. Epicentral Intensity $I_0=VI$ Felt: V-VIat Mollas, Gostim villages and Belshi, Cerriku towns. Felt: Vat Elbasanit, Lushnje, Kucova and Gramshi towns, IVatBerati, Fieri, KavajaTirana dhe Perrenjas towns. Felt slightly in a widely zone.</p>
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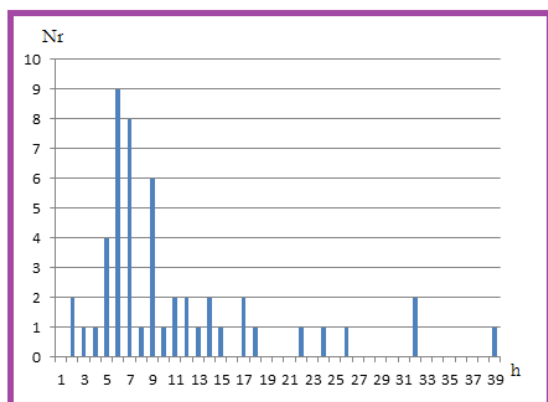
KATALOGU I TËRMEVEVE MUJORE (THE MONTHLY EARTHQUAKE CATALOG)

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 05 01	1431 25.59	40.10	20.10	7	3 0.2 2.6	KARDHIQ-GJIROKASTER
2014 05 01	1938 33.85	41.07	19.69	24	4 0.3 2.8	RROGOZHINE-ALBANIA
2014 05 02	2318 21.88	40.88	21.35	6	4 0.4 2.5	FYR OF MACEDONIA
2014 05 03	0459 57.90	41.28	19.72	39	6 0.1 3.0	PEZE HELMES
2014 05 05	0331 16.05	40.05	19.91	6	4 0.1 2.4	BORSH-VLOR
2014 05 05	1438 21.84	42.34	20.08	5	2 0.0 1.9	B. Curri-ALBANIA
2014 05 05	1722 44.25	41.43	20.46	7	3 0.1 2.2	OSTREN-DIBER
2014 05 07	0232 34.32	39.81	19.96	9	4 0.1 2.4	7KM S-W-SARANDE
2014 05 07	0619 59.60	37.62	19.63	2	7 1.2 3.5	IONIAN SEA
2014 05 08	0526 03.57	43.31	19.69	10	4 0.2 4.0	MONTENEGRO
2014 05 08	1801 33.60	41.28	20.35	7	4 0.1 2.2	GESHTENJ-LIBRAZH
2014 05 09	1124 37.44	40.39	20.00	4	5 0.1 2.2	MEMALIAJ-TEPELEN
2014 05 11	1246 07.50	40.97	19.87	9	7 0.2 2.8	BELSH-ALBANIA
2014 05 12	0054 32.82	39.79	20.30	15	10 0.1 5.1	27KM S-E-SARANDE
2014 05 12	0056 40.98	39.79	20.30	12	6 0.2 3.4	28KM S-E-SARANDE
2014 05 12	0058 48.80	39.78	20.26	7	3 0.1 2.6	26KM S-E-SARANDE
2014 05 12	0352 46.89	39.75	20.26	8	3 0.1 2.4	26KM S-E-SARANDE
2014 05 12	0356 03.02	41.22	20.09	9	5 0.1 2.5	11KM N-ELBASAN

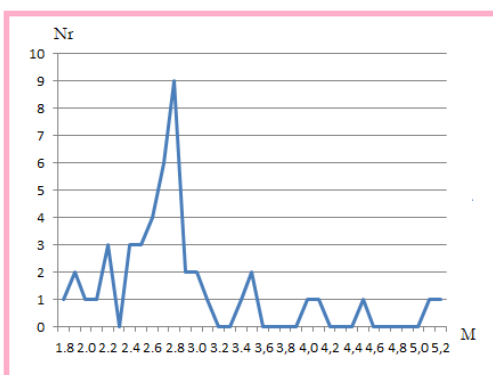
2014 05 14 1844 24.65	41.20	20.09 6	3 0.1 2.1	10KM N-ELBASAN
2014 05 15 0905 23.56	41.90	19.09 9	3 0.2 2.8	ADRIATIC SEA
2014 05 15 0905 23.56	41.90	19.09 9	3 0.2 2.8	ADRIATIC SEA
2014 05 17 1705 39.28	41.11	20.07 5	6 0.2 2.7	ELBASAN-ALBANIA
2014 05 17 1707 56.43	40.14	19.95 5	3 0.2 2.5	BORSH-SARANDE
2014 05 18 0110 49.65	40.61	19.76 17	7 0.2 3.1	BALLSH-FIER
2014 05 18 0214 11.61	41.54	20.22 9	3 0.1 1.8	6KM V-W BULQIZE
2014 05 19 0059 18.70	40.93	19.92 18	7 0.5 5.2	6KM S-E BELSH
2014 05 19 0106 36.47	40.94	19.99 2	7 0.2 2.8	8KM S-E CERRIK
2014 05 19 0116 58.07	40.95	20.08 2	8 0.4 4.1	6KM S-E GOSTIMA
2014 05 19 0120 31.41	40.96	20.01 5	8 0.3 2.7	6KM S-E GOSTIMA
2014 05 19 0125 29.97	40.97	19.97 22	8 0.3 3.5	5KM S-E GOSTIMA
2014 05 19 0304 19.73	40.95	20.02 6	7 0.3 2.9	6KM S-E GOSTIMA
2014 05 19 0338 57.18	40.95	19.94 14	8 0.2 3	4KM S-E GOSTIMA
2014 05 19 0459 56.58	40.94	20.04 12	5 0.1 2.6	11KM S-E CERRIK
2014 05 20 0443 25.58	40.95	20.03 14	8 0.3 4.5	9KM SOUTH CERRIK
2014 05 20 0505 02.89	40.93	20.04 6	6 0.2 2.8	10KM S-E CERRIK
2014 05 20 1121 34.65	40.92	20.05 6	6 0.2 3.5	MOLLAS-CERRIK
2014 05 21 2004 59.26	41.60	19.75 26	7 0.1 2.7	LAC-ALBANIA
2014 05 21 2008 38.67	41.61	19.79 10	5 0.1 2.4	LAC-ALBANIA
2014 05 24 0510 01.12	41.49	19.38 6	4 0.2 2.7	ADRIATIC SEA
2014 05 24 0924 57.94	40.32	25.69 40	7 0.4 6.8	AEGEN SEA
2014 05 24 1356 00.49	41.41	19.55 3	6 0.2 3.5	12KM N DURRES
2014 05 24 1422 31.27	41.32	19.51 17	4 0.1 2.5	5KM S-E DURRES
2014 05 24 1548 04.33	41.67	20.76 11	6 0.2 2.8	MACEDONIA
2014 05 24 1658 12.00	41.41	19.55 11	5 0.2 2.6	12KM N-DURRES
2014 05 24 2204 37.52	41.22	20.08 4	3 0.1 2.2	11KM N-ELBASAN
2014 05 25 2105 09.27	41.96	21.25 7	5 0.3 4.0	MACEDONIA
2014 05 26 2354 47.12	41.56	19.41 9	5 0.3 2.7	ADRIATIC SEA
2014 05 27 2051 46.26	40.17	19.75 7	3 0.2 1.9	VUNO-VLORA
2014 05 28 2234 36.80	41.78	20.31 6	3 0.5 2.0	SHUMBAT-PESHKOPI
2014 05 28 2349 13.02	41.92	20.07 7	3 0.2 .6	KLOS-ALBANIA
2014 05 29 0052 13.24	41.86	20.24 7	4 0.1 2.7	MOLLE-PESHKOPI
2014 05 29 0315 07.12	41.12	20.03 6	4 0.2 2.7	ELBASAN-ALBANIA
2014 05 29 1641 55.18	40.97	20.01 32	5 0.1 2.8	GOSTIMA-ALBANIA
2014 05 30 2044 44.36	40.23	20.01 32	5 0.1 2.8	TEPELEN-ALBANIA
2014 05 31 0655 58.84	41.56	19.31 7	4 0.4 2.9	ADRIATIC SEA

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)	52
Events occurred within quadrant	
➤ Ngjarje sizmike të ndodhura brenda kufijve shtetërore	47
Events occurred inside state boundaries	
➤ Thellësia mesatare e ngjarjeve sizmike	11
Mean hypocenter depth	
➤ Thellësia maksimale	39
Maximum hypocenter depth	
➤ Magnituda lokale minimale e regjistruar	1.8
Minimum recorded local magnitude	
➤ Magnituda lokale maksimale e regjistruar	5.2
Maximum recorded local magnitude	
➤ Intensiteti sizmik maksimal ne epiqendër	VII
Maximum seismic intensity	



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



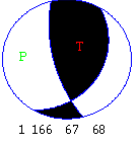
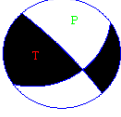
Distribution graphic of monthly seismic event number according to depth (right) magnitude (left)

Zgjidhja e mekanizmit vatror (ZMV)

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

Focal Mechanism Solution (FMS)

For focal mechanism solution, the first onset polarity of P (Pg/Pn) are used, picked on the source time function respective waveforms. This is done for the velocity field recordings. Broadband recordings are used within the frequency range 0.2-30 Hz, witch are modeled by band-pass filtering in the ranges: 1.0-5.0 Hz, 2.0-10 Hz and 0.1-3.0Hz. To achieve the optimum solution also the amplitude ratio of the type AMPSg/AMPPg, (AMPSn/AMPPn), are used. These amplitudes are red on rotated and corrected components, from the geographic system to the spherical one (vertical, radial and transversal). A grid search at the 5.0-10 degree cells interval has been applied, setting first the allowed error threshold for polarity readings. For final solution the FOCMEC program has been used (Snoke. et al., 1984). Whereas, to optimize the solution HASHroutine(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)
2014.05.12-00:54	39.79 (N) 20.30 (E) 15 (km)	5.1	P1: 58, 52,12 P2: 320, 81, 142 P: 272.3, 19.1 T: 42.1, 61.61	
2014.05.19-00:59	40.93 (N) 19.92 (E) 18 (km)	5.2	P1: 165.6, 66.6, 68.1 P2: 32, 31.4, 131.4 P: 4.73, 18 T: 4.7, 33	

Harta e epiqendrave të tërmeteve

