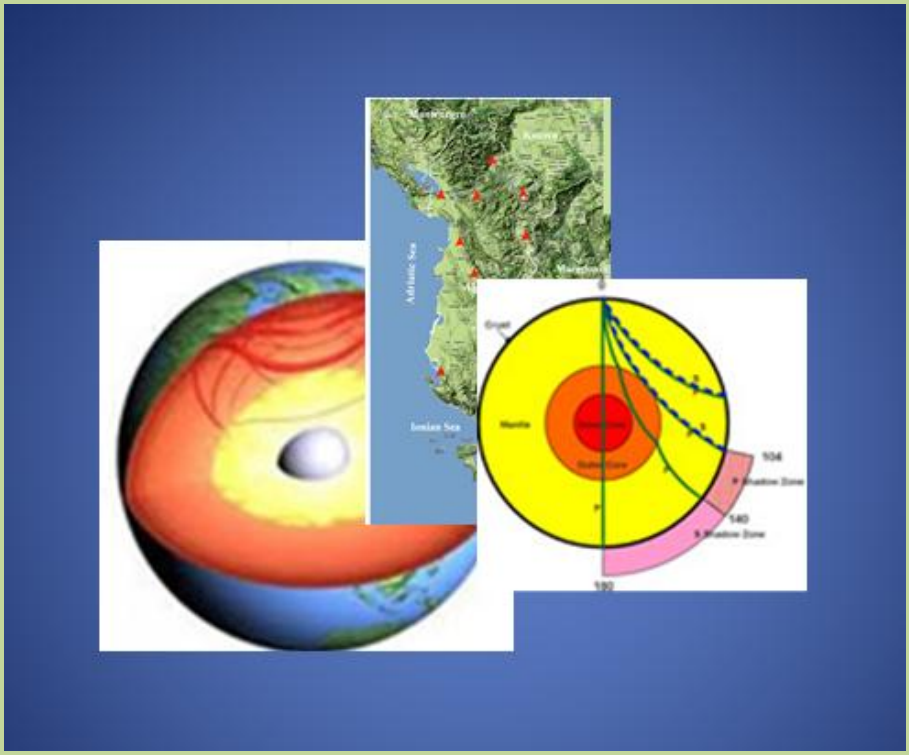

BULETINI I TËRMETEVE TË RRJETIT SIZMOLOGJIK SHQIPTAR

Prill 2014

PARAMETRIC DATA
AND ALBANIAN'S EARTHQUAKE ANALYSIS
April 2014

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

BULETINI MUJOR I RRJETIT SIZMOLOGJIK

TË SHQIPERISË

Prill 2014

MONTHLY BULLETIN OF THE ALBANIAN

SEISMOLOGICAL NETWORK

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Tiranë, 2014

INFORMACION I PERGJITSHEM

Prezantim

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

Parametrat e vlerësuar i referohen kuadrantit gjeografik të kufizuar nga koordinatat: 39.0^0-43.0^0 V dhe 18.5^0-21.5^0 L.

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

Të dhënat parametrike, si më siper, 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 menyrë

GENERAL INFORMATION

Introduction

The Albanian Seismological 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- 43^0N and 18.5^0-21.5^0 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**- 1ocalized 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 punes i përbere 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), te 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 perfshihen 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 Kombetar 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 (Ormeni, 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)	Sizmometri (Sensor Type	Sistemi regjistrimit Recording system	Sistemi i komunikimit Comunication 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)
Y	Viti (year)	Viti ndodhjes se ngjarjes (year of occurence)
M	Muaji (month)	Muaji i ndodhjes së ngjarjes (month of occurence
D	Dita (day)	Data e ndodhjes së ngjarjes (date of occurence)
H	Ora (hour)	Ora ne origjine (UTC) (origine time universal)
M	Minuta (minute)	Minuta (origine time minute)
Sec	Sekonda (second)	Sekonda (origine time second)
Lat	Gjerësia gjeografike (latitude)	Gjeresia gjeografike e epiqendrës Veri-Jug(^{0}) Geographical latitude N-S direction
Lon	Gjatësia gjeografike (longitude)	Gjatesia gjeografike e epiqendrës Lindje-Perendim(^{0}) Geographical longitude E-W direction
Dep	Thellësia (depth)	Thellësia vatrore (focal depth)-km
Hor. err	Gabimi horizontal (horizontal error)	Gabimi ibërë në vlerësimin eepiqendres (km) Estimation error of epicentre
Ver. err	Gabimi vertikal (vertical error)	Gabimi i bërë në vlerësimin e thellësisë (km) Depth estimation error
Gap	Mosmbulimi me stacione minitorimi (azimutal gap)	Zona e sferës fokale (imagjinare),e pa mbuluar me stacione regjistrues Azimutal station gap
Rms	Gabimi mesatar kuadratik (Root mean squarre)	Gabimi i pergjitshem (Total estimation error-sec)
Mag	Magnituda (magnitude)	Madhesia e termetit sipas shkalles lokale te kalibruar (local calibrated measure of the earthquake size)
Net	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 që përdoret për të identifikuar stacionin përkatës 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 acording 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 honsent polarity)	Polariteti i vales renese ne statcion, ne komponenten Z (first onset polarity on Z)
HRMM SECON	Ora, minuta dhe sekonda (time onsets for each phase)	Te dhenat kohore per mbrritjen e seciles faze ne regjistrim Time data for each phases on recording
AZIMU	Kendi azimutal (station-source azimuth angle)	Azimuti stacion- vater termeti Station-focus azimuthal angle
RES	Diferenca kohore (time residual)	Ndryshimi ndërmjet 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 04 01 0525 44.75   42.31    19.46  7    ASN 3  0.1 2 HANI HOT-SHKODER
GAP=313                  hor.err=2km         ver.err=1KM    -ALBANIA

STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
PUK  SZ IPG      0525 53.01     130       0.1      46      11    1.9
PUK  SE ISG      0526 00.04     130       0.1      46
```

BCI	SZ	IPG	0525	53.93	83	-0.1	49	14	2.1
BCI	SE	ISG	0526	01.00	83	0.3	49		
PHP	SZ	IPG	0526	03.91	130	-0.1	107		
PHP	SE	ISG	0526	17.96	130	0.2	107		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	02	0746	15.97	40.96	20.73	13	ASN	3	0.3	3.1	POGRADEC
GAP=126					hor.err=2km			ver.err=1KM				-ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
FNA	SZ	IPG		0746	26.66	110	0.0	59		
FNA	SE	ISG		0746	34.68	110	0.0	59		
PHP	SZ	IPG		0746	30.53	344	-0.2	83	35	3
PHP	SE	ISG		0746	42.70	344	0.1	83		
TIR	SZ	IPG		0746	30.57	301	0.0	84	37	3.1
TPE	SZ	IPG		0746	30.82	220	-1.1	96		
SRN	SZ	IPN		0746	40.13	208	0.2	136	37	3.1
SRN	SE	ISN		0746	58.88	208	0.5	136		
PUK	SZ	IPN		0746	40.30	330	0.1	139		
PUK	SE	ISN		0746	58.83	330	0.1	139		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	02	1249	59.96	41.73	20.02	7	ASN	3	0.0	2.4	BURREL
GAP=313					hor.err=2km			ver.err=1KM				-ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		1250	03.91	98	0.0	35	20	2.4
PHP	SE	ISG		1250	11.67	98	0.0	35		
PUK	SZ	IPG		1250	06.75	343	0.0	36	17	2.3
PUK	SE	ISG		1250	11.92	343	0.0	36		
FNA	SZ	IPN		1250	27.12	132	0.1	156		
FNA	SE	ISN		1250	47.39	132	0.0	156		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	02	1251	34.45	41.34	20.2	11	ASN	4	0.1	2.5	SHKALL-TIRANE
GAP=230					hor.err=1km			ver.err=3KM				-ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		1251	37.57	272	-0.1	13	20	2.3
TIR	SE	ISG		1251	40.06	272	0.0	13		
PHP	SZ	IPG		1251	44.12	42	0.1	52	21	2.5
PHP	SE	ISG		1251	51.12	42	0.0	52		
PUK	SZ	IPG		1251	48.38	353	-0.2	78	22	2.6
PUK	SE	ISG		1251	59.12	353	0.1	78		
FNA	SE	ISN		1252	14.15	118	-0.4	131		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	03	0059	23.06	41.09	20.21	18	ASN	7	0.2	2.8	SHUSHIC-ELBASAN -ALBANIA

GAP=124 hor.err=1km ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0059	30.62	314	-0.2	40	26	2.8
TIR	SE	ISG		0059	36.79	314	0.0	40		
PHP	SZ	IPG		0059	35.49	16	0.0	68	23	2.7
PHP	SE	ISG		0059	44.87	16	0.1	68		
TPE	SZ	IPG		0059	39.06	191	-0.1	91	36	3.1
TPE	SE	ISG		0059	51.21	191	0.1	91		
FNA	SZ	IPG		0059	41.53	109	0.1	105		
FNA	SE	ISG		0059	55.09	109	0.1	105		
PUK	SZ	IPG		0059	42.33	346	-0.1	108		
PUK	SE	ISG		0059	56.11	346	0.1	108		
SRN	SZ	IPG		0059	48.57	188	1.1	136		
SRN	SE	ISG		0100	04.22	188	0.2	136		
BCI	SZ	IPG		0059	47.28	356	0.1	141		
BCI	SE	ISG		0100	05.31	356	0.1	141		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	03	0109	15.95	39.35	18.86	46	ASN	7	0.3	4.7	SOUTHERN ITALY

GAP=258 hor.err=2km ver.err=2KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPG		0109	35.67	58	-0.1	114		
SRN	SE	ISG		0109	50.39	58	-0.2	114		
VLO	SZ	IPG		0109	39.96	23	1.1	135		
TPE	SZ	IPG		0109	40.17	42	0.3	144		
TPE	SE	ISG		0109	57.52	42	0.2	144		
TIR	SE	ISN		0109	52.36	20	0.2	237		
PHP	SE	ISN		0109	59.00	26	-0.4	292		
PUK	SE	ISN		0110	01.22	15	-0.7	311		
BCI	SZ	IPG		0110	05.92	16	-1.1	350		
BCI	SE	ISG		0110	45.60	16	0.2	350		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	03	0148	14.16	42.33	20.04	3	ASN	3	0.1	2	BAJRAM CURRI -ALBANIA

GAP=313 hor.err=2km ver.err=1K

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPG		0148	15.46	30	0.2	4	10	1.7
BCI	SE	ISG		0148	15.79	30	0.2	4		
PUK	SZ	IPG		0148	21.09	201	0.1	35	17	2.3
PUK	SE	ISG		0148	26.05	201	0.1	35		
PHP	SZ	IPG		0148	28.06	155	-0.6	79		

```
 PHP  SE ISG      0148 39.69     155       0.1      79


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

 2014 04 03 0949 51.98   42.39    20.02  7    ASN 7  0.1 3.3  BAJRAM CURRI
 GAP=296                  hor.err=2km         ver.err=2KM    -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      0949 53.83     132       0.2      4       32     2.7
 BCI  SE ISG      0949 54.81     132      -0.1      4
 PUK  SZ IPG      0949 59.41     196      -0.2      40      55     3.3
 PUK  SE ISG      0950 05.39     196       0.1      40
 PHP  SZ IPG      0950 06.79     156      -0.5      85      58     3.4
 PHP  SE ISG      0950 18.95     156       0.0      85
 TIR  SZ IPG      0950 12.77     187       0.1      117     56     3.4
 TIR  SE ISG      0950 28.81     187       0.6      117
 VLO  SZ IPN      0950 29.05     192       0.0      218
 VLO  SE ISN      0950 56.93     192       0.1      218
 TPE  SZ IPN      0950 31.30     181       0.2      233
 TPE  SE ISN      0950 59.95     181      -0.3      233
 SRN  SZ IPN      0950 37.91     181      -1.1      274
 SRN  SE ISN      0951 09.52     181       0.8      274


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

 2014 04 03 2239 03.53   42.02    19.59  3    ASN 3  0.0 2.2  S-E SHKODER
 GAP=287                  hor.err=1km         ver.err=1KM    -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PUK  SZ IPG      2239 08.68     86        0.0      24      12     1.9
 PUK  SE ISG      2239 12.14     86        0.1      24
 BCI  SZ IPG      2239 13.63     45        0.0      54      22     2.2
 BCI  SE ISG      2239 21.52     45        0.0      54
 PHP  SZ IPG      2239 18.56     118      -0.1      74
 PHP  SE ISG      2239 29.21     118       0.0      74


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

 2014 04 04 0003 25.32   43.00    18.17  2    ASN 3  0.2 3.1     BOSNIA
 GAP=171                  hor.err=1km         ver.err=1KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPN      0003 55.64     113       0.2      170     38      3.1
 BCI  SE ISN      0004 18.38     113       0.2      170
 PUK  SZ IPN      0003 56.66     126      -0.1      177     38     3.1
 PUK  SE ISN      0004 20.08     126       0.1      177
 PHP  SZ IPN      0004 04.61     127      -0.3      237     44     3.3
 PHP  SE ISN      0004 36.62     127       0.1      237
```

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	03	2008	20.13	37.18	23.73	117	ASN	6	0.7	5.7	SOUTH GREECE

GAP=336 hor.err=6km ver.err=7KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPN		2009	05.59	315	0.6	288	581	5.7
SRN	SE	ISN		2009	44.92	315	0.5	288		
VLO	SZ	IPN		2009	09.15	318	0.3	362	587	5.7
VLO	SE	ISN		2010	10.01	318	-0.4	362		
TIR	SZ	IPN		2009	09.20	338	-0.5	421	588	5.7
TIR	SE	ISN		2010	18.80	338	-0.4	421		
PHP	SZ	IPN		2009	21.50	336	0.6	432		
PHP	SE	ISN		2010	19.11	336	0.7	432		
PUK	SZ	IPN		2009	28.87	337	-0.8	487		
PUK	SE	ISN		2010	26.14	337	0.8	487		
BCI	SZ	IPN		2009	31.74	339	0.6	514		
BCI	SE	ISN		2010	29.66	339	0.7	514		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	04	1529	00.84				ASN		BCI		

GAP= hor.err=km ver.err=KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPG		1529	00.84					
BCI	SE	ISG		1529	01.66					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	04	1535	29.25				ASN		BCI		

GAP= hor.err=km ver.err=KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPG		1535	29.25					
BCI	SE	ISG		1535	30.34					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	04	1836	28.85				ASN		BCI		

GAP= hor.err=km ver.err=KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPG		1836	28.85					
BCI	SE	ISG		1836	29.80					

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

```
 2014 04 04 2142 33.80                        ASN          BCI
 GAP=                     hor.err=km           ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      2142 33.80
 BCI  SE ISG      2142 33.80


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

 2014 04 04 2313 39.25                        ASN          BCI
 GAP=                     hor.err=km           ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      2313 39.25
 BCI  SE ISG      2313 43.09


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

 2014 04 05 0122 56.68                        ASN          BCI
 GAP=                     hor.err=km           ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      0122 56.68
 BCI  SE ISG      0122 57.67


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

 2014 04 05 0145 02.42   42.36    20.08  6    ASN 3  0.1 2.1  BAJRAM CURRI
 GAP=313                  hor.err=2km          ver.err=1KM    -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      0145 03.77     280       0.0      2       13    1.9
 BCI  SE ISG      0145 04.72     280       0.0      2
 PUK  SZ IPG      0145 09.73     205       0.1      39      19    2.3
 PUK  SE ISG      0145 15.32     205       0.1      39
 PHP  SZ IPG      0145 17.08     158      -0.1      81
 PHP  SE ISG      0145 27.82     158       0.1      81


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

 2014 04 05 0207 38.45                        ASN          BCI
 GAP=                     hor.err=km           ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      0207 38.45
 BCI  SE ISG      0207 39.40
```

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

 2014 04 05 0217 53.92                      ASN          BCI
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      0217 53.92
 BCI  SE ISG      0217 54.82


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

 2014 04 05 0245 33.28                      ASN          BCI
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      0245 33.28
 BCI  SE ISG      0245 34.32


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

 2014 04 05 1017 11.93                      ASN          BCI
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      1017 11.93
 BCI  SE ISG      1017 12.83


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

 2014 04 05 1042 10.20                      ASN          BCI
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      1042 10.20
 BCI  SE ISG      1042 11.14


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

 2014 04 03 1024 45.50   39.19    17.53  20   ASN 6  0.8 4.9  SOUTH-ITALY
 GAP=219                 hor.err=3km         ver.err=3KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 VLO  SZ IPN      1025 22.97     49         0.2      219     180   4.8
 VLO  SE ISN      1025 49.10     49        -0.3      219
 SRN  SZ IPN      1025 22.21     69         0.4      225     168    4.7
 SRN  SE ISN      1025 49.54     69         0.5      225
 TIR  SZ IPN      1025 34.08     39        -0.5      310     205   4.9
 TIR  SE ISN      1026 09.07     39        -0.4      310
```

```
 PHP  SZ IPN      1025 41.46     40       -1.1      370     210    5.0
 PHP  SE ISN      1026 21.96     40        0.7      370
 PUK  SZ IPN      1025 41.37     31       -0.8      373     211     5.0
 PUK  SE ISN      1026 23.70     31       -0.8      373
 BCI  SZ IPN      1025 46.47     30        0.6      41      220    5.0
 BCI  SE ISN      1026 33.16     30       -1.7      411
```

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

 2014 04 05 1736 18.48                       ASN          BCI
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      1736 18.48
 BCI  SE ISG      1736 19.43
```

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

 2014 04 05 1810 26.60                       ASN          BCI
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      1810 26.60
 BCI  SE ISG      1810 27.43
```

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

 2014 04 05 2135 30.32                  ASN          BCI
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      2135 30.32
 BCI  SE ISG      2135 31.33
```

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

 2014 04 06 1256 39.11   40.73    19.80  6    ASN 8  0.2 3 ROSKOVEC-ALBANIA
 GAP=141                 hor.err=1km         ver.err=2KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 VLO  SZ IPG      1256 44.92     222      -1.2      39      32     2.8
 VLO  SE ISG      1256 51.77     222      -0.2      39
 TIR  SZ IPG      1256 51.70     4         0.2      68      42     3.1
 TIR  SE ISG      1257 00.85     4         0.1      68
 SRN  SZ IPG      1256 56.53     169       0.2      97      37     3
 SRN  SE ISG      1257 09.47     169       0.2      97
 PHP  SZ IPG      1256 58.97     26       -1.1      118
 PHP  SZ IPG      1257 15.65     26       -0.1      118
```

```
 FNA  SZ IPN      1257 02.44     87       -0.3      134
 IGT  SE ISN      1257 03.93     161       0.0      141
 PUK  SZ IPN      1257 04.68     3         0.0      145
 PUK  SE ISN      1257 23.92     3         0.1      145
 BCI  SZ IPN      1257 10.16     6        -0.4      183

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

 2014 04 06 1701 35.53                 ASN          SRN
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 SRN  SZ IPG      1701 35.53
 SRN  SE ISG      1701 36.62


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

 2014 04 06 1706 55.04                 ASN          SRN
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 SRN  SZ IPG      1706 55.04
 SRN  SE ISG      1706 55.81


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

 2014 04 06 2119 23.41                 ASN          BCI
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      2119 23.41
 BCI  SE ISG      2119 24.17


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

 2014 04 06 2224 32.25                 ASN          BCI
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      2224 32.25
 BCI  SE ISG      2224 33.05


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

 2014 04 07 0253 54.96                 ASN          BCI
 GAP=                    hor.err=km          ver.err=KM
```

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPG		0253	54.96					
BCI	SE	ISG		0253	55.80					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	07	0848	26.99	41.12	20.13	8	ASN	7	0.2	3.1	ELBASAN-ALBANIA

GAP=102 hor.err=1km ver.err=2KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		0848	33.33	319	0.2	34	34	2.9
TIR	SE	ISG		0848	38.46	319	-0.1	34		
PHP	SZ	IPG		0848	39.15	22	0.1	68	40	3.1
PHP	SE	ISG		0848	48.36	22	-0.1	68		
VLO	SZ	IPG		0848	43.20	217	0.2	90	38	3.1
PUK	SZ	IPG		0848	45.23	350	0.0	104		
PUK	SE	ISG		0849	00.27	350	0.8	104		
FNA	SZ	IPG		0848	47.00	109	-0.3	112		
FNA	SE	ISG		0849	01.93	109	-0.1	112		
SRN	SZ	IPN		0848	51.11	358	0.1	138		
SRN	SE	ISN		0849	08.59	358	0.1	138		
BCI	SZ	IPN		0848	51.43	185	-0.9	138		
BCI	SE	ISN		0849	09.64	185	-0.2	138		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	08	1207	26.34	42.42	19.24	19	ASN	4	0.1	2.9	MONTENEGRO

GAP=313 hor.err=2km ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		1207	38.98	127	0.1	68	29	2.9
PUK	SE	ISG		1207	48.35	127	0.1	68		
BCI	SZ	IPG		1207	39.08	94	0.0	69	30	2.9
BCI	SE	ISG		1207	48.40	94	0.2	69		
PHP	SZ	IPG		1207	48.12	128	-0.4	129		
PHP	SE	ISG		1208	05.22	128	0.1	129		
TIR	SZ	IPN		1207	48.63	156	-0.1	130		
TIR	SE	ISN		1208	05.40	156	0.1	130		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	08	2114	32.13	41.89	20.16	7	ASN	4	0.1	2	ARREM MOLLE

GAP=186 hor.err=4km ver.err=6KM - ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		2114	37.53	308	0.1	28	12	2
PUK	SE	ISG		2114	41.85	308	0.1	28		
PHP	SZ	IPG		2114	38.25	134	0.0	32	13	2
PHP	SE	ISG		2114	42.96	134	0.1	32		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	08	2147	06.51	41.84	19.44	7	ASN	4	0.1	2.4	VELIPOJ-SHKODER -ALBANIA

GAP=313 hor.err=2km ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		2147	14.64	59	0.1	43	19	2.4
PUK	SE	ISG		2147	20.71	59	0.1	43		
TIR	SZ	IPG		2147	18.35	147	0.0	65	19	2.5
TIR	SE	ISG		2147	27.28	147	0.0	65		
BCI	SZ	IPG		2147	20.43	41	0.1	78		
BCI	SE	ISG		2147	30.99	41	0.0	78		
PHP	SZ	IPG		2147	21.86	101	-0.2	85		
PHP	SE	ISG		2147	33.04	101	-0.1	85		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	08	2233	26.72	42.37	19.32	7	ASN	3	0.1	2.3	MONTENEGRO

GAP=321 hor.err=1km ver.err=12KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		2233	37.52	128	0.0	59	15	2.2
PUK	SE	ISG		2233	45.63	128	0.1	59		
BCI	SZ	IPG		2233	37.73	90	0.1	61	16	2.3
BCI	SE	ISG		2233	46.18	90	0.1	61		
PHP	SZ	IPG		2233	48.05	129	0.0	120		
PHP	SE	ISG		2233	03.84	129	-0.1	120		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	09	0516	33.24				ASN		SRN		

GAP= hor.err=km ver.err=KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPG		0516	33.24					
SRN	SE	ISG		0516	34.91					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	09	0516	58.82				ASN		SRN		

GAP= hor.err=km ver.err=KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPG		0516	58.82					
SRN	SE	ISG		0517	00.21					

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

 2014 04 09 0526 31.75   39.57    20.21  6    ASN 4  0.2 2.2    GREECE
 GAP=223                 hor.err=3km         ver.err=16KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 IGT  SZ IPG      0526 05.59     315       0.6      288     581    5.7
 IGT  SE ISG      0526 44.92     315       0.5      288
 SRN  SZ IPG      0526 05.59     315       0.6      288     581   5.7
 SRN  SE ISG      0526 44.92     315       0.5      288
 TPE  SZ IPG      0526 09.20     338      -0.5      421     588    5.7
 TPE  SE ISG      0526 18.80     338      -0.4      421
 FNA  SZ IPN      0526 21.50     336       0.6      432
 FNA  SE ISN      0526 19.11     336       0.7      432


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

 2014 04 09 1642 08.73                ASN          BCI
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      1642 08.73
 BCI  SE ISG      1642 09.59


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

 2014 04 09 1841 30.11                ASN          BCI
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      1841 30.11
 BCI  SE ISG      1841 31.00


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

 2014 04 09 2250 06.04                ASN          BCI
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      2250 06.04
 BCI  SE ISG      2250 07.42


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

 2014 04 09 2335 41.85                ASN          BCI
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
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 BCI  SZ IPG      2335 41.85
 BCI  SE ISG      2335 42.38


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

 2014 04 09 2342 02.64                ASN          BCI
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      2342 02.64
 BCI  SE ISG      2342 03.55


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

 2014 04 10 1403 51.60   39.36    18.98  24   ASN 5  0.3 4  SOUTHERN ITALY
 GAP=259                 hor.err=7km         ver.err=9KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 SCTE SZ IPG      1404 07.19     332       0.1      90      80      4
 SCTE SE ISG      1404 20.04     332       0.2      90
 SRN  SZ IPG      1404 09.65     56        0.3      104     81     4
 SRN  SE ISG      1404 26.02     56        0.5      104
 TIR  SZ IPN      1404 21.99     211      -0.5      233
 TIR  SE ISN      1405 06.88     211      -0.6      233
 PHP  SZ IPN      1404 33.10     25        0.6      286
 PHP  SE ISN      1405 07.01     25        0.7      286
 PUK  SZ IPN      1404 35.76     16        0.6      307


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

 2014 04 10 1029 25.91   40.97    20.50  6    ASN 6  0.2 2.5 SLABINJ-POGRADEC
 GAP=108                 hor.err=1km         ver.err=2KM    -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 TIR  SZ IPG      1029 38.15     309       0.0      68      19     2.5
 TIR  SE ISG      1029 47.15     309      -0.2      68
 FNA  SZ IPG      1029 39.75     105      -0.1      77      19     2.4
 FNA  SE ISG      1029 50.14     105       0.2      77
 PHP  SZ IPG      1029 40.31     357       0.2      79
 PHP  SE ISG      1029 50.75     357       0.1      79
 TPE  SZ IPG      1029 40.29     210      -1.0      86
 TPE  SE ISG      1029 52.82     210      -0.1      86
 SRN  SZ IPN      1029 48.01     200       0.5      129
 SRN  SE ISN      1030 05.67     200       0.0      129
 PUK  SZ IPN      1029 48.88     338       0.3      129
 BCI  SZ IPN      1029 53.80     348       0.2      159


Y   M   D   HM   Sec     Lat     Long   Dep  Net Nr Rms Mag    Epicenter
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 2014 04 12 0121  48.83  44.98    20.25  7    ASN 3  0.2 2.2    THIRRE
 GAP=173                 hor.err=2km         ver.err=2KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PUK  SZ IPG      0121 55.10     283       0.2      31      16     2.2
 PUK  SE ISG      0121 58.92     283       0.2      31
 PHP  SZ IPG      0121 55.78     154       0.3      37      15     2.2
 PHP  SE ISG      0122 00.72     154      -0.2      37
 BCI  SZ IPG      0121 56.28     341       0.4      45
 BCI  SE ISG      0122 03.44     341       0.2      45


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

 2014 04 12 1405  23.79  41.88    20.22  8    ASN 4  0.3 2.6  6KM S-E KLOS
 GAP=151                 hor.err=1km         ver.err=2KM    -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PHP  SZ IPG      1405 29.03     140       0.2      28      21     2.4
 PHP  SE ISG      1405 33.87     140      -0.3      28
 PUK  SZ IPG      1405 29.59     304       0.1      32      16     2.3
 PUK  SE ISG      1405 35.33     304       0.2      32
 BCI  SZ IPG      1405 33.82     347      -0.4      55      20     2.7
 BCI  SE ISG      1405 41.76     347       0.2      55


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

 2014 04 12 1636  12.91  40.14    19.78  7    ASN 3  0.3 2.2 HIMARA-ALBANIA
 GAP=180                 hor.err=1km         ver.err=2KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 TPE  SZ IPG      1636 17.16     48        0.2      25      11     1.9
 TPE  SE ISG      1636 22.16     48       -0.3      25
 SRN  SZ IPG      1636 18.67     147       0.2      34      22     2.4
 SRN  SE ISG      1636 25.26     147      -0.4      34
 VLO  SZ IPG      1636 20.79     327       0.3      43
 VLO  SE ISG      1636 27.72     327       0.1      43


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

 2014 04 14 1433  47.54                                        PHP
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PHP  SZ IPG      1433 47.54
 PHP  SE ISG      1433 51.82


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

2014 04 14 2041 57.03 43.01 20.86 5 ASN 3 0.4 3.2 SERBIA
GAP=331 hor.err=6km ver.err=9KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPG		2042	14.07	223	0.2	97	41	3.3
BCI	SE	ISG		2042	27.46	223	-0.3	97		
PUK	SZ	IPN		2042	20.79	217	0.4	134	51	3.3
PUK	SE	ISN		2042	38.42	217	-0.3	134		
PHP	SZ	IPN		2042	23.66	194	0.1	152		
PHP	SE	ISN		2042	43.72	194	0.3	152		

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

2014 04 14 1614 24.81 40.10 20.50 7 ASN 4 0.3 2.2 CARSHOVE-ALBANIA
GAP=149 hor.err=4km ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TPE	SZ	IPG		1614	33.51	298	0.2	47	13	2.0
TPE	SE	ISG		1614	39.99	298	-0.3	47		
SRN	SZ	IPG		1614	33.58	240	0.1	49	17	2.3
SRN	SE	ISG		1614	40.47	240	-0.4	49		
IGT	SZ	IPG		1614	36.72	193	0.1	65		
IGT	SE	ISG		1614	45.49	193	0.2	65		
FNA	SZ	IPN		1614	43.68	44	-0.3	106		
FNA	SE	ISN		1614	57.88	44	0.4	106		

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

2014 04 14 2233 00.52 40.71 19.27 17 ASN 7 0.2 2.7 ADRIATIC SEA
GAP=155 hor.err=2km ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
VLO	SZ	IPG		2233	06.90	144	0.2	34	23	2.6
VLO	SE	ISG		2233	12.68	144	-0.3	34		
TPE	SZ	IPG		2233	14.51	126	0.1	78	22	2.7
TPE	SE	ISG		2233	25.27	126	0.2	78		
TIR	SZ	IPG		2233	16.27	35	-0.3	86	24	2.7
TIR	SE	ISG		2233	27.62	35	0.4	86		
SRN	SZ	IPN		2233	20.03	145	0.2	112	23	2.7
SRN	SE	ISN		2233	34.79	145	0.4	112		
PHP	SZ	IPN		2233	25.46	42	-0.4	146		
PHP	SE	ISN		2233	43.46	42	0.3	146		
PUK	SZ	IPN		2233	26.46	19	0.1	156		
PUK	SE	ISN		2233	46.13	19	-0.4	156		
BCI	SZ	IPN		2233	31.45	19	0.5	195		
BCI	SE	ISN		2233	58.12	19	0.4	195		

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

2014 04 16 0320 59.76 40.21 20.70 10 ASN 3 0.4 2.4 LESKOVIK
GAP=197 hor.err=2km ver.err=2KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TPE	SZ	IPG		0321	10.41	280	-0.2	59		
TPE	SE	ISG		0321	18.85	280	0.3	59		
SRN	SZ	IPG		0321	11.80	239	0.4	70	20	2.4
SRN	SE	ISG		0321	22.99	239	-0.3	70		
FNA	SZ	IPG		0321	14.31	42	0.1	85		
FNA	SE	ISG		0321	27.49	42	-0.6	85		

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

2014 04 16 2118 54.94 41.19 20.03 18 ASN 3 0.4 2.7 ELBASAN
GAP=290 hor.err=1km ver.err=1KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2119	00.31	321	0.2	22	24	2.7
TIR	SE	ISG		2119	04.09	321	-0.3	22		
PHP	SZ	IPG		2119	06.68	21	0.1	64	24	2.7
PHP	SE	ISG		2119	15.74	21	0.2	64		
PUK	SZ	IPG		2119	12.46	355	0.3	95	25	2.7
PUK	SE	ISG		2119	24.43	355	-0.2	95		

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

2014 04 16 2137 49.93 41.14 20.11 7 ASN 4 0.4 2.7 ELBASAN
GAP=293 hor.err=1km ver.err=1KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2137	55.83	323	0.2	31	24	2.7
TIR	SE	ISG		2138	00.26	323	-0.3	31		
PHP	SZ	IPG		2138	01.79	25	0.1	66	25	2.7
PHP	SE	ISG		2138	11.73	25	0.4	66		
PUK	SZ	IPG		2138	02.99	351	-0.6	103	25	2.7
PUK	SE	ISG		2138	21.44	351	0.3	103		
BCI	SZ	IPG		2138	12.80	4	0.4	133		

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

2014 04 17 0134 43.60 42.48 20.13 6 ASN 3 0.2 2.8 BAJRAM CURRI
GAP=310 hor.err=2km ver.err=1KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPG		0134	47.01	204	0.2	14	35	2.6
BCI	SE	ISG		0134	49.05	204	-0.3	14		
PUK	SZ	IPG		0134	54.51	203	0.1	53	34	2.6
PUK	SE	ISG		0135	00.96	203	-0.6	53		

```
 PHP  SZ IPG      0135 05.00     164       0.3      92
 PHP  SE ISG      0135 12.20     164      -0.4      92


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

 2014 04 19 1333  32.00  41.25    20.09  5    ASN 7  0.3 3.8     ELBASAN
 GAP=114                 hor.err=2km         ver.err=1KM    -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 TIR  SZ IPG      1333 38.15     298       0.2      21      86     3.6
 TIR  SE ISG      1333 42.26     298      -0.3      21
 PHP  SZ IPG      1333 44.71     31        0.3      55      87     3.8
 PHP  SE ISG      1333 53.72     31        0.4      55
 PUK  SZ IPG      1333 50.02     350      -0.3      88      87     3.8
 PUK  SE ISG      1334 01.84     350       0.2      88
 TPE  SZ IPG      1333 52.89     184       0.5      102     89     3.8
 TPE  SE ISG      1334 07.81     184       0.5      102
 FNA  SZ IPN      1333 54.60     115       0.6      120
 FNA  SE ISN      1334 09.11     115      -0.3      120
 BCI  SZ IPN      1333 55.51     1         0.2      123
 BCI  SE ISN      1334 12.24     1         0.3      123
 SRN  SZ IPN      1334 01.20     189       0.2      153
 SRN  SE ISN      1334 19.08     189       0.3      153


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

 2014 04 20 0037  36.16  40.12    19.90  2    ASN 6  0.3 3.5 FTERE-SARANDA
 GAP=125                 hor.err=1km         ver.err=1K     -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 TPE  SZ IPG      0037 41.23     20        0.2      20      45     3.5
 TPE  SE ISG      0037 44.01     20       -0.3      20
 SRN  SZ IPG      0037 42.43     28        0.4      28      44     3.5
 SRN  SE ISG      0037 45.71     28        0.2      28
 VLO  SZ IPG      0037 47.01     318       0.3      51
 VLO  SE ISG      0037 53.01     318      -0.6      51
 TIR  SZ IPN      0038 01.13     269       0.2      135     45     3.5
 TIR  SE ISN      0038 16.91     269       0.7      135
 PHP  SZ IPN      0038 07.58     351      -0.3      177
 PHP  SE ISN      0038 33.78     351       0.2      177
 PUK  SZ IPN      0038 11.32     19        0.3      213
 PUK  SE ISN      0038 44.02     19       -0.2      213


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

 2014 04 21 2125 28.03   41.92    19.20  20   ASN 7  0.3 4.5  ADRIATIC SEA
 GAP=246                 hor.err=1km         ver.err=3KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
```

PUK	SZ	IPG	2125	39.09	76	0.0	59	220	4.6
PUK	SE	ISG	2125	47.31	76	0.0	59		
TIR	SZ	IPG	2125	42.57	138	0.2	84	200	4.5
TIR	SE	ISG	2125	55.16	138	-0.1	84		
BCI	SZ	IPG	2125	44.30	55	0.3	87	162	4.4
BCI	SE	ISG	2125	55.72	55	0.1	87		
PHP	SZ	IPG	2125	45.77	103	0.2	106	200	4.6
PHP	SE	ISG	2126	00.55	103	-0.1	106		
VLO	SZ	IPN	2125	56.00	171	0.8	163		
VLO	SE	ISN	2126	17.20	171	1.1	163		
TPE	SZ	IPN	2125	59.04	159	0.7	193		
TPE	SE	ISN	2126	23.53	159	-0.3	193		
SRN	SZ	IPN	2126	04.09	163	-0.5	236		
SRN	SE	ISN	2126	33.63	163	-0.8	236		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	21	2130	34.00	41.89	19.24	19	ASN	6	0.2	3.6	ADRIATIC SEA

GAP=175 hor.err=2km ver.err=2KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		2130	44.95	72	0.0	56	37	3.2
PUK	SE	ISG		2130	52.91	72	0.0	56		
TIR	SZ	IPG		2130	47.37	139	-0.2	79	75	3.8
TIR	SE	ISG		2131	00.02	139	0.2	79		
BCI	SZ	IPG		2130	50.29	52	0.3	85	100	4.0
BCI	SE	ISG		2131	02.11	52	-0.1	85		
PHP	SZ	IPG		2130	51.15	102	-0.2	102	68	3.7
PHP	SE	ISG		2131	05.30	102	-0.1	102		
VLO	SZ	IPN		2131	01.36	172	0.5	159		
VLO	SE	ISN		2131	22.83	172	0.9	159		
TPE	SZ	IPN		2131	04.63	159	-0.7	188		
TPE	SE	ISN		2131	30.27	159	-0.3	188		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	21	2130	34.00	41.89	19.24	19	ASN	4	0.2	3.6	ADRIATIC SEA

GAP=266 hor.err=1km ver.err=3KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		2137	47.87	64	0.1	52	26	2.7
PUK	SE	ISG		2137	55.80	64	-0.1	52		
TIR	SZ	IPG		2137	51.61	140	-0.2	71		
TIR	SE	ISG		2138	01.68	140	0.2	71		
BCI	SZ	IPG		2137	53.14	46	0.3	84	39	3.0
BCI	SE	ISG		2138	05.44	46	-0.2	84		
PHP	SZ	IPG		2137	54.44	100	0.2	94	28	2.7
PHP	SE	ISG		2138	07.11	100	-0.2	94		

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

 2014 04 21 2332 44.21                ASN          BCI
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      2332 44.21
 BCI  SE ISG      2332 45.16


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

 2014 04 21 2345 17.14   40.60    20.79  5    ASN 4  0.1 3.1  KORCE-ALBANIA
 GAP=154                 hor.err=1km         ver.err=1KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 TPE  SZ IPG      2345 29.84     244       0.0      74      29    2.8
 TPE  SE ISG      2345 41.35     244       0.1      74
 SRN  SZ IPG      2345 36.21     227       0.1      104     42     3.1
 SRN  SE ISG      2345 50.24     227       0.0      104
 TIR  SZ IPG      2345 37.63     317      -0.2      114
 TIR  SE ISG      2345 52.62     317       0.1      114
 PHP  SZ IPG      2345 39.67     347       0.2      124     38    3.0
 PHP  SE ISG      2345 55.34     347       0.2      124
 PUK  SZ IPN      2345 49.13     336       0.1      177     44    3.2
 PUK  SE ISN      2346 12.07     336      -0.5      177
 BCI  SZ IPN      2345 54.02     344       0.8      205
 BCI  SE ISN      2346 19.39     344      -0.8      205


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

 2014 04 21 2347 16.41                ASN          BCI
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      2347 16.41
 BCI  SE ISG      2347 17.29


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

 2014 04 22 0222 41.63                ASN          BCI
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      0222 41.63
 BCI  SE ISG      0222 42.61


Y   M   D   HM   Sec     Lat     Long   Dep  Net Nr Rms Mag    Epicenter
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 2014 04 22 0523  34.72  41.17    20.06  7    ASN 3  0.3 2.5 7KM N-W ELBASAN
 GAP=293                 hor.err=2km         ver.err=11KM   -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 TIR  SZ IPG      0523 39.50     320       0.1      25      18     2.3
 TIR  SE ISG      0523 43.70     320      -0.1      25
 PHP  SZ IPG      0523 46.72     28       -0.3      64      20     2.4
 PHP  SE ISG      0523 55.24     28        0.4      64
 PUK  SZ IPG      0523 51.31     352      -0.6      97      29     2.8
 PUK  SE ISG      0524 05.09     352       0.3      97


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

 2014 04 23 0910  47.14  41.67    20.52  10   ASN 6  0.1 3.0 7KM N-W ELBASAN
 GAP=293                 hor.err=2km         ver.err=11KM   -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PHP  SZ IPG      0910 50.36     284       0.9      7       54     3.2
 PHP  SE ISG      0910 51.07     284       0.0      7
 TIR  SZ IPG      0910 58.88     238      -0.2      65      38     3.0
 TIR  SE ISG      0911 08.06     238       0.1      65
 PUK  SZ IPG      0910 59.29     309       0.1      67      36     3.0
 PUK  SE ISG      0910 08.20     309      -0.1      67
 BCI  SZ IPG      0911 02.26     335       0.3      86
 BCI  SE ISG      0911 14.53     335       0.4      86
 FNA  SZ IPG      0911 08.70     143      -0.1      122
 FNA  SE ISG      0911 24.74     143      -0.3      122
TPE  SZ IPG      0911 14.97     196       0.4      189


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

 2014 04 23 1941 55.19                ASN          PHP
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PHP  SZ IPG      1941 55.19
 PHP  SE ISG      1941 56.64


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

 2014 04 23 2143 57.47                ASN          PHP
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PHP  SZ IPG      2143 57.47
 PHP  SE ISG      2143 58.81


Y   M   D   HM   Sec     Lat     Long   Dep  Net Nr Rms Mag    Epicenter
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```
 2014 04 23 2320 55.31                  ASN          PHP
 GAP=                      hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PHP  SZ IPG      2320 55.31
 PHP  SE ISG      2320 56.32


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

 2014 04 24 0117 48.24                  ASN          PHP
 GAP=                      hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PHP  SZ IPG      0117 48.24
 PHP  SE ISG      0117 50.14


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

 2014 04 24 0138 07.45                  ASN          PHP
 GAP=                      hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PHP  SZ IPG      0138 07.45
 PHP  SE ISG      0138 08.86


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

 2014 04 24 0140 08.76                  ASN          PHP
 GAP=                      hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PHP  SZ IPG      0140 08.76
 PHP  SE ISG      0140 10.13


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

 2014 04 24 0246  11.50  42.82    20.10  5    ASN 4  0.5 3.1    KOSOVO
 GAP=324                   hor.err=3km         ver.err=6KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 BCI  SZ IPG      0246 28.48     240      -0.5      98      40     3.1
 BCI  SE ISG      0246 41.57     240      -0.6      98
 PUK  SZ IPN      0246 35.20     230       0.5      131     40     3.1
 PUK  SE ISN      0246 53.02     230       0.9      131
 PHP  SZ IPN      0246 35.73     204       0.1      137
 PHP  SE ISN      0246 53.38     204      -0.4      137
 TIR  SZ IPN      0246 46.44     213       1.1      193
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TIR  SE ISN      0247 09.33     213       0.0      193


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

 2014 04 24 0322 45.11                ASN          PHP
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PHP  SZ IPG      0322 45.11
 PHP  SE ISG      0322 46.68


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

 2014 04 24 0350 09.82                ASN          PHP
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PHP  SZ IPG      0350 09.82
 PHP  SE ISG      0350 11.82


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

 2014 04 24 0847 47.00                ASN          PHP
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PHP  SZ IPG      0847 47.00
 PHP  SE ISG      0847 49.15


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

 2014 04 24 0921 25.88                ASN          PHP
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PHP  SZ IPG      0921 25.88
 PHP  SE ISG      0921 27.32


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

 2014 04 24 2256  59.15  41.46    20.24  8    ASN 3  0.1 2.0  2KM S BULQIZ
 GAP=216                 hor.err=2km         ver.err=2KM    -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PHP  SZ IPG      0257 04.77     33        0.1      29      8      1.7
 PHP  SE ISG      0257 09.59     33        0.0      29
 TIR  SZ IPG      0257 05.30     249       0.1      34   18   2.3
```

```
 TIR  SE ISG      0257 11.09     249       0.0      34
 PUK  SZ IPG      0257 11.18     336       0.2      70
 PUK  SE ISG      0257 21.71     336       0.2      70


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

2014 04 25 0241  57.46  41.86    20.19  7    ASN 2  0.1 1.8  ARRE-MOLLE
 GAP=216                 hor.err=2km         ver.err=2KM      -ALBANIA

STAT SP IPHASW D HRMM SECON     AZIMU     RES       DIS     DUR    Md
 PHP  SZ IPG      0242 02.54     134       0.0      28    10  1.8
 PHP  SE ISG      0242 07.71     134       0.0      28
 PUK  SZ IPG      0242 03.19     309       0.0      31      10    1.8
 PUK  SE ISG      0242 08.50     309       0.0      31


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

2014 04 25 0244  22.15  41.86    20.19  7    ASN 2  0.1 1.7  ARRE-MOLLE
 GAP=216                 hor.err=2km         ver.err=2KM      -ALBANIA

STAT SP IPHASW D HRMM SECON     AZIMU     RES       DIS     DUR    Md
 PHP  SZ IPG      0244 27.19     134       0.0      28   9     1.7
 PHP  SE ISG      0244 32.31     134       0.0      28
 PUK  SZ IPG      0244 29.90     309       0.0      32      8      1.7
 PUK  SE ISG      0244 33.28     309       0.0      32


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

 2014 04 25 0306  14.17  41.93    20.56  2    ASN 4  0.1 2.4    PESHKOPI
 GAP=191                 hor.err=1km         ver.err=1KM    -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES       DIS     DUR    Md
 PHP  SZ IPG      0306 21.12     200       0.0      29      20     2.4
 PHP  SE ISG      0306 24.98     200      -0.0      29
 PUK  SZ IPG      0306 25.21     283       0.1      56      19     2.4
 PUK  SE ISG      0306 33.42     283       0.2      56
 BCI  SZ IPG      0306 26.72     320      -0.2      63      24     2.6
 BCI  SE ISG      0306 36.25     320       0.2      63
 TIR  SZ IPG      0306 30.95     222       0.1      87
 TIR  SE ISG      0306 43.96     222       0.2      87


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

 2014 04 26 1918  28.16  39.94    20.73  7    ASN 3  0.2 2.3    GREECE
 GAP=188                 hor.err=1km         ver.err=11KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES       DIS     DUR    Md
 IGT  SZ IPG      1918 38.64     218       0.0      57
```

IGT	SE	ISG	1918	46.25	218	0.2	57	
SRN	SZ	IPG	1918	39.70	265	0.1	63	15	2.3
SRN	SE	ISG	1918	48.45	265	0.2	63	
TPE	SZ	IPG	1918	41.02	303	0.4	73	15	2.3
TPE	SE	ISG	1918	51.15	303	0.2	73	

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	26	2124	14.97	38.92	21.30	11	ASN	3	0.2	3.5	GREECE

GAP=255 hor.err=2km ver.err=4KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
IGT	SZ	IPG		2124	34.17	310	0.1	107		
IGT	SE	ISG		2124	48.42	310	0.1	107		
SRN	SZ	IPG		2124	41.63	314	0.1	154	56	3.5
SRN	SE	ISG		2125	01.53	314	0.2	154		
TPE	SZ	IPG		2124	46.89	325	0.2	188	54	3.5
TPE	SE	ISG		2125	11.45	325	0.2	188		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	27	0840	58.20	42.51	18.96	3	ASN	6	0.3	3.5	MONTENEGRO

GAP=292 hor.err=2km ver.err=2KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPG		0841	15.10	100	0.2	92	60	3.4
BCI	SE	ISG		0841	28.00	100	-0.3	92		
PUK	SZ	IPG		0841	15.23	124	0.4	93	64	3.5
PUK	SE	ISG		0841	29.05	124	0.2	93		
TIR	SZ	IPN		0841	25.05	149	-0.6	150	76	3.6
TIR	SE	ISN		0841	44.95	149	0.3	150		
PHP	SZ	IPN		0841	24.93	126	0.2	153	85	3.7
PHP	SE	ISN		0841	46.59	126	-0.1	153		
VLO	SZ	IPN		0841	38.86	168	0.4	231		
VLO	SE	ISN		0842	07.36	168	0.1	231		
TPE	SZ	IPN		0841	42.23	160	0.4	262		
TPE	SE	ISN		0842	15.30	160	-0.6	262		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	27	1819	42.84	42.27	19.84	8	ASN	2	0.0	1.5	LEKBIB-ALBANIA

GAP=233 hor.err=2km ver.err=2KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPG		1819	46.36	54	0.0	17	7	1.5
BCI	SE	ISG		1819	49.28	54	-0.1	17		
PUK	SZ	IPG		1819	48.03	181	0.0	25	7	1.5
PUK	SE	ISG		1819	51.64	181	0.0	25		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	27	2100	50.51	41.25	19.45	3	ASN	4	0.2	2.7	ADRIATIC SEA

GAP=275 hor.err=2km ver.err=2KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2000	58.32	73	-0.1	35	76	3.6
TIR	SE	ISG		2001	02.96	73	0.3	35		
PUK	SZ	IPG		2001	07.02	22	0.0	94	64	3.5
PUK	SE	ISG		2001	21.05	22	0.0	94		
PHP	SZ	IPG		2001	06.86	59	0.2	94	85	3.7
PHP	SE	ISG		2001	19.89	59	-0.1	94		
BCI	SZ	IPN		2001	14.40	22	0.2	132	60	3.4
BCI	SE	ISN		2001	32.37	22	-0.6	132		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	27	2323	05.79	41.85	20.41	21	ASN	2	0.0	2.1	PESHKOPI

GAP=233 hor.err=2km ver.err=2KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		2323	10.48	173	0.0	19	11	1.9
PHP	SE	ISG		2323	13.91	173	0.0	19		
PUK	SZ	IPG		2323	14.93	296	0.1	47	14	2.3
PUK	SE	ISG		2323	21.85	296	0.1	47		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	29	2039	55.10	41.19	20.04	9	ASN	4	0.2	2.5	ELBASAN

GAP=293 hor.err=2km ver.err=11KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2039	59.46	318	0.0	22	19	2.3
TIR	SE	ISG		2040	03.31	318	0.1	22		
PHP	SZ	IPG		2040	06.74	30	0.2	63	21	2.5
PHP	SE	ISG		2040	15.25	30	0.0	63		
PUK	SZ	IPG		2040	11.43	353	0.1	95	19	2.5
PUK	SE	ISG		2040	24.79	353	-0.2	95		
FNA	SZ	IPG		2040	16.94	111	-0.4	121		
FNA	SE	ISG		2040	32.90	111	-0.3	121		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2014	04	29	1926	42.94	41.88	20.54	20	ASN	2	0.1	1.6	PESHKOPI

GAP=273 hor.err=2km ver.err=2KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md

```
 PHP  SZ IPG      1926 49.40     202       0.1      24       6      1.6
 PHP  SE ISG      1926 54.17     202       0.1      24
 PUK  SZ IPG      1926 53.82     284       0.1      57
 PUK  SE ISG      1927 02.08     284       0.1      57


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

 2014 04 30 0147  45.79   41.46   19.53  7    ASN 2  0.1 1.9 HAMALLAJ-DURRES
 GAP=270                 hor.err=2km         ver.err=2KM    -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 TIR  SZ IPG      0147 52.01     115       0.1      30       6      1.6
 TIR  SE ISG      0147 56.04     115       0.1      30
 PUK  SZ IPG      0147 58.32     25        0.1      70
 PUK  SE ISG      0148 08.34     25        0.1      70
```

TERMETE TE LARGET (LONG DISTANCE EARTHQUAKE)

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

 2014 04 02 0002 11.31   19.72S   70.86W 33   ASN 5      8.0    CHILE
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
TIR  SZ IP       0001 58.86
BCI  SZ IP       0002 23.53
SRN  SZ IP       0002 48.81
PUK  SZ IP       0002 50.12
PHP  SZ IP       0002 56.15


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

 2014 04 11 2029 15.40   11.75    58.98W 151  ASN 7      6.6    NICARAGUA
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
VLO  SZ IP       2042 08.81
PHP  SZ IP       2042 11.52
PUK  SZ IP       2042 13.15
BCI  SZ IP       2042 13.42
TIR  SZ IP       2042 15.21
SRN  SZ IP       2042 16.28
TPE  SZ IP       2042 18.75
```

PËRSHKRIM MAKROSIZMIK I TËRMETEVE 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 COUNTR

The epicentral Intensity of earthquake I_0 is determined by the formula $I_0=\frac{M-1}{6}$. The felt informacion of earthquakes in inhebitance 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	19.04.2014	13:33:32.5	Epiqendra: 41.25V; 20.09L në perendimtë qytetit Elbasanit. Intensiteti i tërmetit në epiqendër I_0=IV-V balle Ndjerë: IV ballë ne qytetin e Elbasanit dhe III ballë në qytetet e Librazhd, Tirane. Epicentre: 41.25N; 20.09E atweastern of Elbasani town. Epicentral Intensity I_0=IV-V Felt: IV at Elbasanitownand III-IVat Librazhdi and Tiranatowns.
2	21.04.2014	21:25:03.6	Epiqendra: 41.92V; 19.20L në perendim të qytetit Lezhes. Intensiteti i tërmetit në epiqendër I_0=VIballe Ndjerë: IV ballë ne qytetin e Lezhes dhe III-IV ballë në qytetet e Shkodres, Krujes dhe Lacit (Epicentre: 41.92N; 19.20E at weastern of Lezha town. Epicentral Intensity I_0=VI Felt: IV at Lezha town and III-IVat Shkodera, Kruja and Laci town.

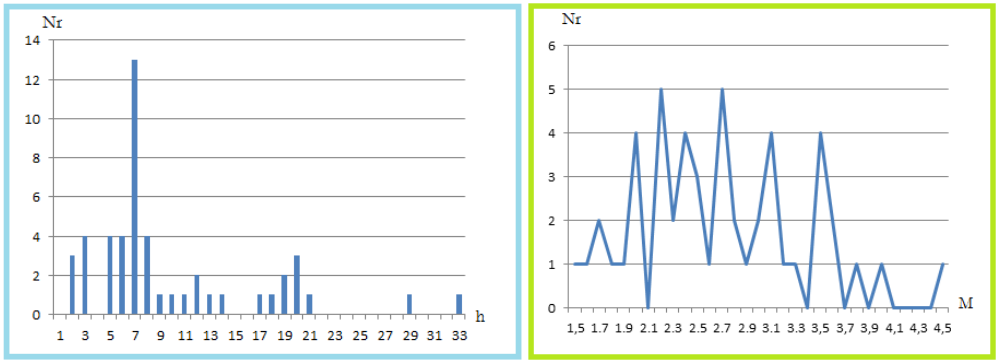
KATALOGU I TËRMETEVE MUJORE (THE MONTHLY EARTHQUAKE CATALOG)

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 04 01	0525 44.75	42.31	19.46	7	3	0.1	2.0	HANIHOT-SHKODER
2014 04 02	0746 15.97	40.96	20.73	13	3	0.3	3.1	POGRADEC
2014 04 02	1249 59.96	41.73	20.02	7	3	0.0	2.4	BURREL
2014 04 02	1251 34.45	41.34	20.2	11	4	0.1	2.5	SHKALL-TIRANE
2014 04 03	0059 23.06	41.09	20.21	18	7	0.2	2.8	SHUSHIC-ELBASAN
2014 04 03	0109 15.95	39.35	18.86	46	7	0.3	2.7	SOUTHERN ITALY
2014 04 03	0148 14.16	42.33	20.04	3	3	0.1	2.0	BAJRAM CURRI
2014 04 03	0949 51.98	42.39	20.02	7	7	0.1	3.3	BAJRAM CURRI
2014 04 03	2239 03.53	42.02	19.59	3	3	0.0	2.2	S-E SHKODER
2014 04 04	0003 25.32	43.00	18.17	2	3	0.2	3.1	BOSNIA
2014 04 04	2008 20.13	37.18	23.73	117	6	0.7	5.7	SOUTH GREECE
2014 04 05	0145 02.42	42.36	20.08	6	3	0.1	2.1	BAJRAM CURRI
2014 04 05	1024 45.50	39.19	17.53	20	6	0.8	4.9	SOUTH-ITALY
2014 04 06	1256 39.11	40.73	19.80	6	8	0.2	3.0	ROSKOVEC-ALBANIA
2014 04 07	0848 26.99	41.12	20.13	8	7	0.2	3.1	ELBASAN-ALBANIA
2014 04 08	1207 26.34	42.42	19.24	19	4	0.1	2.9	MONTENEGRO
2014 04 08	2114 32.13	41.89	20.16	7	4	0.1	2	ARREM MOLLE
2014 04 08	2147 06.51	41.84	19.44	7	4	0.1	2.4	VELIPOJ-SHKODER
2014 04 08	2233 26.72	42.37	19.32	7	3	0.1	2.3	MONTENEGRO
2014 04 09	0526 31.75	39.57	20.21	6	4	0.2	2.2	GREECE
2014 04 10	1403 51.60	39.36	18.98	24	5	0.3	4.0	SOUTHERN ITALY
2014 04 10	1029 25.91	40.97	20.50	6	6	0.2	2.5	SLABINJ-POGRADEC
2014 04 12	0121 48.83	44.98	20.25	7	3	0.2	2.2	THIRRE
2014 04 12	1405 23.79	41.88	20.22	8	4	0.3	2.6	6KM S-E KLOS
2014 04 12	1636 12.91	40.14	19.78	7	3	0.3	2.2	HIMARA-ALBANIA
2014 04 14	2041 57.03	43.01	20.86	5	3	0.4	3.2	SERBIA
2014 04 14	1614 24.81	40.10	20.50	7	4	0.3	2.2	CARSHOVE-ALBANIA
2014 04 14	2233 00.52	40.71	19.27	17	7	0.2	2.7	ADRIATIC SEA
2014 04 16	0320 59.76	40.21	20.70	10	3	0.4	2.4	LESKOVIK
2014 04 16	2118 54.94	41.19	20.03	18	3	0.4	2.7	ELBASAN
2014 04 16	2137 49.93	41.14	20.11	7	4	0.4	2.7	ELBASAN
2014 04 17	0134 43.60	42.48	20.13	6	3	0.2	2.8	BAJRAM CURRI
2014 04 19	1333 32.00	41.25	20.09	5	7	0.3	3.8	ELBASAN
2014 04 20	0037 36.16	40.12	19.90	2	6	0.3	3.5	FTERE-GJIROKASTRA
2014 04 21	2125 28.03	41.92	19.20	20	7	0.3	4.5	ADRIATIC SEA
2014 04 21	2130 34.00	41.89	19.24	19	6	0.2	3.6	ADRIATIC SEA
2014 04 21	2130 34.00	41.89	19.24	19	4	0.2	3.6	ADRIATIC SEA
2014 04 21	2345 17.14	40.60	20.79	5	4	0.1	3.1	KORCE-ALBANIA
2014 04 22	0523 34.72	41.17	20.06	7	3	0.3	2.5	7KM N-W ELBASAN
2014 04 23	0910 47.14	41.67	20.52	10	6	0.1	3.0	7KM N-W ELBASAN

2014	04	24	0246	11.50	42.82	20.10	5	4	0.5	3.1	KOSOVO
2014	04	24	2256	59.15	41.46	20.24	8	3	0.1	2.0	2KM S BULQIZ
2014	04	25	0241	57.46	41.86	20.19	7	2	0.1	1.8	ARRE-MOLLE
2014	04	25	0244	22.15	41.86	20.19	7	2	0.1	1.7	ARRE-MOLLE
2014	04	25	0306	14.17	41.93	20.56	2	4	0.1	2.4	PESHKOPI
2014	04	26	1918	28.16	39.94	20.73	7	3	0.2	2.3	GREECE
2014	04	26	2124	14.97	38.92	21.30	11	3	0.2	3.5	GREECE
2014	04	27	0840	58.20	42.51	18.96	3	6	0.3	3.5	MONTENEGRO
2014	04	27	1819	42.84	42.27	19.84	8	2	0.0	1.5	LEKBIB-ALBANIA
2014	04	27	2100	50.51	41.25	19.45	3	4	0.2	2.7	ADRIATIC SEA
2014	04	27	2323	05.79	41.85	20.41	21	2	0.0	2.1	PESHKOPI
2014	04	29	2039	55.10	41.19	20.04	9	4	0.2	2.5	ELBASAN
2014	04	29	1926	42.94	41.88	20.54	20	2	0.1	1.6	PESHKOPI
2014	04	30	0147	45.79	41.46	19.53	7	2	0.1	1.9	HAMALLAJ-DURRES

STATISTIKA E NGJARJEVE SIZMIKE (STATISTICS OF SEISMIC EVENTS)

Karakteristikat e pergjithshme (General Characteristics)	Vlerat (Data values)
➢ *Ngjarje sizmike të ndodhura në kuadratin (39-43 V; 18.5-21.5 L)* **Events occured within quandrant**	49
➢ *Ngjarje sizmike të ndodhura brenda kufijve shtetërore* **Events occured inside state boundaries**	38
➢ *Thellësia mesatare e ngjarjeve sizmike* **Mean hypocenter depth**	10
➢ *Thellësia maksimale* **Maximum hypocenter depth**	46
➢ *Magnituda lokale minimale e regjistruar* **Minimum recorded local magnitude**	1.5
➢ *Magnituda lokale maksimale e regjistruar* **Maximum recorded local magnitude**	4.5
➢ *Intensiteti sizmik maksimal ne epiqendër* **Maximum seismic intensity**	VI



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

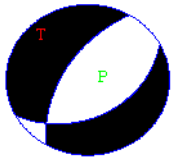
Distribution graphic of monthly seismic event number according to depth (right) magnitude (left)

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 (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 paremeters)	Magnituda (Magnitude)	Parametrat e Mekanizmit (Focal Mechanism parameters)	Tipi (Focal Type)
2014.04.19-15:12	41.25 (N) 20.09 (E) 5 (km)	4.5	P1: 61, 38,-65 P2: 210, 56.1, -108 P: 74.1, 72.1 T: 313.3, 9.36	

Harta e epiqendrave të tërmeteve