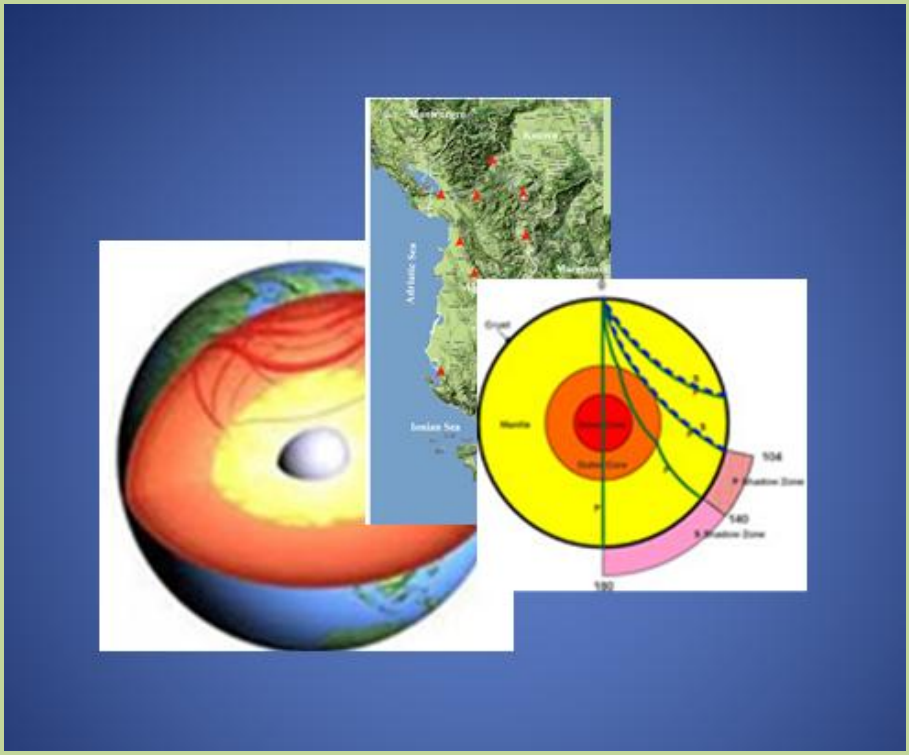

BULETINI I TËRMETEVE TË RRJETIT SIZMOLOGJIK SHQIPTAR

PRILL 2013

PARAMETRIC DATA
AND ALBANIAN'S EARTHQUAKE ANALYSIS
APRIL 2013

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

BULETINI MUJOR I RRJETIT SIZMOLOGJIK

TË SHQIPERISË

PRILL 2013

MONTHLY BULLETIN OF THE ALBANIAN

SEISMOLOGICAL NETWORK

APRIL 2013

Përliluar nga:
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Tiranë, 2013

INFORMACION I PERGJITSHEM

Prezantim

Buletini i Rrjetit 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 Seismologic Network's bulletin is a periodic publication of earthquake wave data, source parameters and their magnitudes, for every seismic event occurring inside the Albanian territory and its surroundings. This publication is compiled in the Department of Seismology of the Institute of Geosciences, Energy, Water and Environment under the Polytechnic University of Tirana. All the estimated values, of the parameters, refer to the geographic quadrant confined by the coordinates: 39^0- 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 dhe Ervin Kasa.

Informacioni instrumental valor përftohet nëpërmjet një rrjeti stacionesh lokal, ku përfshihen: stacioni sizmologjik qëndror i Tiranës (TIR), B. Currit (BCI), Pukës (PUK), Peshkopisë (PHP), Vlorës (VLO), Tepelenës (TPE), Sarandës (SRN) dhe Korçës (KBN), 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.

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 i bërë në vlerësimin e epiqendres (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 TË AFËRTA (NEAR EARTHQUAKE)

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

 2013 4  1  0118  53.26  40.92    21.11  5    ASN 4  0.1 2.9    MACEDONI
 GAP=198                  hor.err=1km         ver.err=1KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 FNA  SZ IPG      0118 59.17     124        0.0     27
 FNA  SE ISG      0119 03.31     124        0.1     27
 PHP  SZ IPG      0119 11.75     327        0.0     101     31     2.9
 PHP  SE ISG      0119 25.31     327        0.0     101
 PUK  SZ IPN      0119 21.31     322        0.1     160     31     2.9
 PUK  SE ISN      0119 46.31     322       -0.1     160
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BCI  SZ IPN      0119 25.79     325        0.1     182     32     2.9
BCI  SE ISN      0119 48.31     325        0.1     182


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

2013 4  1  2049  31.94  41.87    20.30  7    ASN 3  0.1 2.3  ARREZ,PESHKOPI
GAP=170                  hor.err=2km         ver.err=1KM      -ALBANIA

STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
PHP  SZ IPG       2049 36.51     151        0.0     24      15     2.1
PHP  SE ISG      2049 40.42     151        0.0     24
PUK  SZ IPG      2049 39.17     300        0.0     38      22     2.5
PUK  SE ISG      2049 44.74     300        0.1     38
BCI  SZ IPG      2049 41.45     341        0.0     58      22     2.5
BCI  SE ISG      2049 50.55     341        0.1     58


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

2013 4  2  1503  39.86  41.61    19.55  7    ASN 2  0.1 2.1   ADRIATIc SEA.
GAP=305                  hor.err=2km         ver.err=3KM

STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
TIR  SZ IPG       1503 37.41     139       -0.1     39      14     2.1
TIR  SE ISG      1503 42.48     139        0.0     39
PHP  SZ IPG      1503 43.14     84         0.0     74      14     2.1
PHP  SE ISG      1503 53.33     84         0.1     74


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

2013 4  2  2206  30.12  42.59    18.74  1    ASN 4  0.1 3      MONTENEGRO
GAP=315                  hor.err=4km         ver.err=6KM

STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
PUK  SZ IPG      2206 48.85     119        0.1     109     28     2.8
PUK  SE ISG      2207 04.18     119       -0.1     109
BCI  SZ IPG      2206 50.49     99        -0.1     110     39     3
BCI  SE ISG      2207 05.77     99        -0.1     110
PHP  SZ IPN       2206 59.33     144        0.1     161     39     3
PHP  SE ISN      2207 20.49     144        0.2     161
FNA  SZ IPN      2207 00.01     123        0.1     169
FNA  SE ISN      2207 22.99     123       -0.2     169


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

2013 4  3  0001  13.49  42.48    18.84  6    ASN 4  0.2 3.0   MONTENEGRO
GAP=311                  hor.err=3km         ver.err=2KM

STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
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```
PUK  SZ IPG      0001 31.73     116        0.2     104     39     3
PUK  SE ISG      0001 45.65     116        0.3     104
BCI  SZ IPG      0001 32.00     95        -0.1     107     40     3
BCI  SE ISG      0001 46.27     95         0.3     107
TIR  SZ IPN      0001 41.74     143        0.4     154     39     3
TIR  SE ISN      0001 59.94     143       -0.1     154
PHP  SZ IPN      0001 41.86     121        0.3     169
PHP  SE ISN      0002 03.59     121        0.5     169


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

2013 4  3  2332  54.39  41.91    19.17  7    ASN 4  0.3 2.9   ADRIATIc SEA
GAP=276                  hor.err=11km       ver.err=3KM        -ULQIN

STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
PUK  SZ IPG      2333 05.20     77         0.1     81      26     2.7
PUK  SE ISG      2333 14.03     77        -0.1     81
TIR  SZ IPG      2333 10.07     137        0.1     85      35     3.0
TIR  SE ISG      2333 20.92     137        0.0     85
BCI  SZ IPG      2333 08.75     55         0.1     91      31     2.9
BCI  SE ISG      2333 22.40     55        -0.1     91
PHP  SZ IPG      2333 13.21     103        0.0     108     32     2.9
PHP  SE ISG      2333 30.01     103        0.2     108


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

2013 4  4  0450  43.82  43.25    18.60  1    ASN 4  0.4 3.5  BOSNJE-
HERCEGNOVI
GAP=336                  hor.err=2km       ver.err=4KM

STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
BCI  SZ IPN      0451 10.76     129        0.1     154     52     3.4
BCI  SE ISN      0451 32.88     129       -0.1     154
PUK  SZ IPN      0451 13.72     141        0.0     170     60     3.5
PUK  SE ISN      0451 33.61     141        0.1     170
PHP  SZ IPN      0451 23.50     138        0.1     230     63     3.6
PHP  SE ISN      0451 50.17     138       -0.1     230
TIR  SZ IPN      0451 24.14     153        0.1     235     63     3.6
TIR  SE ISN      0451 54.21     153        0.2     235


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

2013 4  4  1817  22.00  41.44    19.89  6    ASN 2  0.2 1.8    MNER-TIRANE
GAP=351                  hor.err=2km       ver.err=3KM         -ALBANIA

STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
TIR  SZ IPG      1817 20.60     192        0.2     11      11     1.8
TIR  SE ISG      1817 24.30     192        0.3     11
PHP  SZ IPG      1817 32.10     59        -0.6     53
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 PHP  SE ISG      1817 39.20     59         0.3     53


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

 2013 4  7  0438  30.71  39.31    20.55  8    ASN 4  0.6 3.4    GREECE
 GAP=344                 hor.err=12km        ver.err=1KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 IGT  SZ IPG      0438 37.51     321        0.1     30
 IGT  SE ISG      0438 42.36     321       -0.1     30
 SRN  SZ IPG      0438 46.00     303        0.1     78      48     3.3
 SRN  SE ISN      0438 56.81     303        0.1     78
 TPE  SZ IPN      0738 58.11     337        0.2     118     52     3.4
 TPE  SE ISN      0739 08.35     337       -0.1     118
 PHP  SZ IPN      0739 15.21     358        0.1     203     58     3.5
 PHP  SE ISN      0739 46.53     358        0.2     203


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

 2013 4  7  1424  37.00  42.08    20.99  10   ASN 4  0.2 2.9    MACEDONIA
 GAP=211                 hor.err=1km         ver.err=2KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PHP  SZ IPG      1424 45.60     239        0.2     43      32     2.9
 PHP  SE ISG      1424 51.50     239        0.1     43
 BCI  SZ IPG      1424 52.60     309        0.3     84      30     2.9
 BCI  SE ISG      1425 04.60     309       -0.3     84
 TIR  SZ IPG      1424 56.60     235        0.1     103     36     3
 TIR  SE ISG      1425 09.70     235        0.4     103
 FNA  SZ IPN      1425 00.09     160        0.2     130
 FNA  SE ISN      1425 18.10     160       -0.1     130


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

 2013 4  8  0441  06.00  41.83    20.20  7    asn 4  0.3 2.2  BULSHAR-
ALBANIA
 GAP=232                 hor.err=1km         ver.err=2KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PUK  SZ IPG      0441 12.20     329        0.2     29
 PUK  SE ISG      0441 16.80     329       -0.1     29
 PHP  SZ IPG      0441 12.60     120        0.3     32      16     2.2
 PHP  SE ISG      0441 17.70     120        0.4     32
 TIR  SZ IPG      0441 16.90     201        0.5     57
 TIR  SE ISG      0441 25.30     201        0.1     57
 BCI  SZ IPG      0441 17.50     357        0.3     59
 BCI  SE ISG      0441 25.90     357       -0.3     59
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```
 Y   M   D   HM   Sec     Lat     Long   Dep  Net Nr Rms Mag    Epicenter

 2013 4   8  0536  18.00  41.88    20.17  7    ASN 2  0.1 1.9  KLOSTRINE-
ALBANIA
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PHP  SZ IPG      0536 24.00     308        0.2     29      10     1.9
 PHP  SE ISG      0536 29.30     308        0.1     29
 PUK  SZ IPG      0536 24.10     134       -0.1     30      9      1.9
 PUK  SE ISG      0536 29.60     134        0.3     30


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

 2013 4   11 0503  49.20  42.26    19.72  6    ASN 3  0.2 2.2   KIR, SHKODER
 GAP=276                 hor.err=2km         ver.err=2KM       -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PUK  SZ IPG      0503 54.00     151        0.2     28
 PUK  SE ISG      0503 59.20     151        0.3     28
 BCI  SZ IPG      0503 55.90     67        -0.4     30
 BCI  SE ISG      0503 59.30     67         0.1     30
 PHP  SZ IPG      0504 14.80     131        0.2     87
 PHP  SE ISG      0504 17.60     131        0.3     87


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

 2013 4   11 1445  53.69  41.61    19.81  8    ASN 2  0.3 2.1    LINDJE, LAC
 GAP=269                 hor.err=1km         ver.err=10KM      -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 TIR  SZ IPG      1445 59.87     172        0.0     30      15     2.1
 TIR  SE ISG      1446 03.77     172       -0.1     30
 PHP  SZ IPG      1446 03.24     81         0.1     52      13     2.1
 PHP  SE ISG      1446 10.61     81         0.0     52


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

 2013 4   11 2023  20.03                                          PUK-ALBANIA
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PUK  SZ IPG      2023 20.05
 PUK  SE ISG      2023 23.64


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

 TIRANA-ALBANIA
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```
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 TIR  SZ IPG      2138 34.77
 TIR  SE SIG      2138 36.80


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

 2013 4  11 2313  51.53  41.79    20.06  15   ASN 3  0.2 2.0  MALAJ,
KURBNESH
 GAP=222                 hor.err=3km         ver.err=9KM      -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 PUK  SZ IPG      2313 57.39     333        0.0     31      10     2.0
 PUK  SE ISG      2314 02.28     333       -0.1     31
 PHP  SZ IPG      2313 57.61     111        0.0     33      14     2.1
 PHP  SE ISG      2314 03.00     111        0.1     33
 BCI  SZ IPG      2314 04.44     0          0.0     63
 BCI  SE ISG      2314 11.60     0          0.1     63


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

 2013 4  12 0126  54.13  40.18    20.66  10   ASN 9  0.3 4.1  LESKOVIK-
ALBANIA
 GAP=213                 hor.err=1km         ver.err=2KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 TPE  SZ IPG      0127 05.39     287        0.0     67      97     3.8
 TPE  SE ISG      0127 14.62     287       -0.1     67
 SRN  SZ IPG      0127 06.83     248       -0.1     70      100    3.8
 SRN  SE ISG      0127 17.32     248        0.0     70
 FNA  SZ IPG      0127 10.75     35        -0.1     89
 FNA  SE ISG      0127 22.56     35         0.1     89
 VLO  SZ IPG      0127 14.47     290        0.0     114     131    4.1
 VLO  SE ISG      0127 30.57     290        0.1     114
 TIR  SZ IPN      0127 20.87     332        0.1     155     154    4.2
 TIR  SE ISN      0127 42.64     332       -0.1     155
 PHP  SZ IPN      0127 23.99     352       -0.1     175     151    4.3
 PHP  SE ISN      0127 46.87     352        0.1     175
 PUK  SZ IPN      0127 31.78     342       -0.1     225     120    4.1
 PUK  SE ISN      0128 01.72     342        0.1     225
 BCI  SZ IPN      0127 36.43     347       -0.1     256     120    4.1
 BCI  SE ISN      0128 07.03     347        0.2     256


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

 2013 4  12 0454  58.00
 GAP=                    hor.err=km          ver.err=KM
```

```
 STAT SP IPHASW D HRMM SECON     AZIMU      RES       DIS      DUR     Md
 TPE  SZ IPG      0454 58.00
 TPE  SE ISG      0454 58.26


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

 2013 4  12 2006  12.01  41.62    20.42  6    ASN 3  0.1 2.3  PESHKOPI-
ALBANIA
 GAP=303                 hor.err=1km         ver.err=3KM

 STAT SP IPHASW D HRMM SECON     AZIMU      RES       DIS      DUR     Md
 PHP  SZ IPG      2006 14.43     14          0.0      6        15      2
 PHP  SE ISG      2006 15.41     14          0.0      6
 PUK  SZ IPG      2006 23.68     137         0.0      63       23      2.6
 PUK  SE ISG      2006 32.79     137         0.1      63
 FNA  SZ IPG      2006 33.87     339         0.0      124
 FNA  SE ISG      2006 49.25     339         0.1      124


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

 2013 4  13 1545  51.46  41.15    20.31  7    ASN 4  0.1 2.9  LIBRAZHD-
ALBANIA
 GAP=186                 hor.err=1km         ver.err=1KM

 STAT SP IPHASW D HRMM SECON     AZIMU      RES       DIS      DUR     Md
 TIR  SZ IPG      1545 59.35     300         0.0      42       30      2.8
 TIR  SE ISG      1546 05.11     300        -0.1      42
 PHP  SZ IPG      1546 02.21     10          0.0      60       31      2.8
 PHP  SE ISG      1546 11.32     10          0.1      60
 FNA  SZ IPG      1546 09.33     114         0.0      100
 FNA  SE ISG      1546 12.55     114        -0.1      100
 BCI  SZ IPN      1546 14.90     352        -0.1      136      33      2.9
 BCI  SE ISN      1546 34.91     352        -0.1      136


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

 2013 4  14 0004  32.18  40.28    19.71  9    ASN 8  0.1 3.1    BRATAJ,VLORE
 GAP=216                 hor.err=1km         ver.err=5KM         -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU      RES       DIS      DUR     Md
 TPE  SZ IPG      0004 35.79     86          0.0      26       48      3.1
 TPE  SE ISG      0004 40.98     86         -0.1      26
 SRN  SZ IPG      0004 41.40     150         0.0      51       46      3
 SRN  SE ISG      0004 49.25     150        -0.2      51
 IGT  SZ IPG      0004 49.72     147        -0.1      99
 IGT  SE ISG      0005 02.90     147         0.1      99
 TIR  SZ IPG      0004 53.81     6           0.0      119      56      3.3
 TIR  SE ISG      0005 09.15     6          -0.1      119
```

FNA	SZ	IPN	0004	58.01	68	-0.1	152		
FNA	SE	ISN	0005	18.25	68	0.1	152		
PHP	SZ	IPN	0005	01.74	21	0.1	167	53	3.3
PHP	SE	ISN	0005	23.01	21	0.1	167		
PUK	SZ	IPN	0005	05.16	4	-0.1	197	54	3.4
PUK	SE	ISN	0005	30.18	4	-0.1	197		
BCI	SZ	IPN	0005	11.16	7	-0.1	233		
BCI	SE	ISN	0005	40.02	7	-0.2	233		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	14	2249	35.34	39.78	19.86	20	ASN	4	0.1	2.5	KORFUZ
GAP=247					hor.err=2km			ver.err=1KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPG		2249	39.93	49	0.0	15	15	2.2
SRN	SE	ISG		2249	43.12	49	-0.1	15		
IGT	SZ	IPG		2249	44.70	125	0.0	50		
IGT	SE	ISG		2249	50.11	125	0.1	50		
TPE	SZ	IPG		2249	46.15	12	0.0	57	24	2.7
TPE	SE	ISG		2249	54.71	12	-0.1	57		
FNA	SZ	IPG		2250	07.90	48	-0.1	101		
FNA	SE	ISG		2250	25.31	48	-0.1	101		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	14	2325	47.44	39.78	19.79	22	ASN	4	0.1	2.3	KORFUZ
GAP=258					hor.err=1km			ver.err=1KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPG		2325	51.89	58	0.1	21	17	2.3
SRN	SE	ISG		2325	54.12	58	0.0	21		
IGT	SZ	IPG		2325	57.82	120	0.0	54		
IGT	SE	ISG		2326	05.45	120	0.0	54		
TPE	SZ	IPG		2325	59.72	18	0.1	59	17	2.3
TPE	SE	ISG		2326	08.51	18	0.1	59		
FNA	SZ	IPN		2326	17.65	51	-0.1	175		
FNA	SE	ISN		2326	35.22	51	0.1	175		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	15	1321	06.57	41.90	20.13	26	ASN	6	0.2	3.3	KLOS-ALBANIA
GAP=153					hor.err=1km			ver.err=1KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IPG		1321	14.13	133	0.1	35	56	3.4
PHP	SE	ISG		1321	19.28	133	0.0	35		
BCI	SZ	IPG		1321	16.61	154	0.0	52	50	3.3
BCI	SE	ISG		1321	24.26	154	-0.1	52		

TIR	SZ	IPG	1321 18.81	201	0.0	66	50	3.3
TIR	SE	ISG	1321 27.48	201	-0.1	66		
FNA	SZ	IPN	1321 24.08	139	0.0	162		
FNA	SE	ISN	1321 54.26	139	0.1	162		
TPE	SZ	IPN	1321 36.30	184	-0.1	178	56	3.4
TPE	SE	ISN	1321 56.11	184	-0.1	178		
SRN	SZ	IPN	1321 42.88	186	0.1	224		
SRN	SE	ISN	1321 09.11	186	0.1	224		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	16	0330	04.78	40.82	21.37	3	ASN	5	0.1	3.6	GREECE

GAP=202 hor.err=2km ver.err=3KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
FNA	SZ	IPG		0330	15.21	170	0.1	4		
FNA	SE	ISG		0330	06.82	170	0.1	4		
PHP	SZ	IPN		0330	25.14	312	0.1	123	66	3.6
PHP	SE	ISN		0330	44.60	312	0.1	123		
SRN	SZ	IPN		0330	32.14	229	-0.1	156	67	3.6
SRN	SE	ISN		0330	52.84	229	0.1	156		
IGT	SZ	IPN		0330	35.78	213	-0.1	168		
IGT	SE	ISN		0330	54.63	213	-0.1	168		
BCI	SZ	IPN		0330	39.78	328	0.2	203	66	3.6
BCI	SE	ISN		0331	03.21	328	-0.2	203		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	17	0017	31.14								

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

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPG		0017	31.14					
SRN	SE	ISG		0017	33.97					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	18	20.32	34.29	39.81	20.83	7	ASN	5	0.2	3.2	GREECE

GAP=212 hor.err=2km ver.err=1KM

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
IGT	SZ	IPG		2032	43.66	235	-0.1	51		
IGT	SE	ISG		2032	51.14	235	0.0	51		
SRN	SZ	IPG		2032	46.94	277	-0.1	71	58	3.2
SRN	SE	ISG		2032	57.36	277	0.1	71		
TPE	SZ	IPG		2032	50.39	308	0.1	88	58	3.2
TPE	SE	ISG		2033	01.12	308	-0.1	88		
FNA	SZ	IPN		2032	55.14	23	-0.2	117		
FNA	SE	ISN		2033	15.16	23	0.2	117		

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

2013 4  19 0754  32.60  40.75    19.69  6    ASN 6  0.1 3.6   4KM N-E, FIER
GAP=136                 hor.err=2km         ver.err=0KM        -ALBANIA

STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
VLO  SZ IPG      0754 38.54     203        0.0     33      57     3.3
VLO  SE ISG      0754 44.94     203       -0.1     33
TPE  SZ IPG      0754 41.21     148       -0.1     58      54     3.3
TPE  SE ISG      0754 50.27     148        0.0     58
TIR  SZ IPG      0754 45.41     15         0.0     69      81     3.6
TIR  SE ISG      0754 54.32     15        -0.1     69
SRN  SZ IPG      0754 49.89     162        0.1     100
SRN  SE ISG      0755 03.12     162        0.1     100
PHP  SZ IPN      0754 53.51     32         0.1     123     79     3.6
PHP  SE ISN      0755 10.47     32        -0.1     123
BCI  SZ IPN      0755 03.27     10        -0.1     183     72     3.6
BCI  SE ISN      0755 27.68     10        -0.2     183


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

2013 4  20 0913  23.84
GAP=                    hor.err=km          ver.err=KM

STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
TIR  SZ IPG      0913 23.84
TIR  SE ISG      0913 28.95


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

2013 4  20 1203  53.78
GAP=                    hor.err=km          ver.err=KM

STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
TIR  SZ IPG      1203 53.78
TIR  SE ISG      1203 55.81


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

2013 4  20 1539  16.88
GAP=                    hor.err=km          ver.err=KM

STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
TIR  SZ IPG      1539 16.88
TIR  SE ISG      1539 17.48
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 Y   M   D   HM   Sec     Lat     Long   Dep  Net Nr Rms Mag    Epicenter

 2013 4  20 1724  37.55
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 TIR  SZ IPG      1724 37.55
 TIR  SE ISG      1724 39.87


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

 2013 4  20 2012  13.85  39.79    20.09  15   ASN 2  0.1 1.5
XARRE,SARANDE
 GAP=184                 hor.err=1km         ver.err=1KM        -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 SRN  SZ IPG      2012 17.52     321        0.1     12      7      1.5
 SRN  SE ISG      2012 20.38     321        0.0     12
 IGT  SZ IPG      2012 20.84     145        0.0     35
 IGT  SE ISG      2012 25.95     145        0.0     35


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

 2013 4  20 2326  36.57  39.84    20.13  12   ASN 4  0.2 2.1  10KM S-E
SARANDE
 GAP=168                 hor.err=2km         ver.err=2KM      -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 SRN  SZ IPG      2326 38.19     284        0.0     12      15     2.1
 SRN  SE ISG      2326 40.41     284        0.0     12
 IGT  SZ IPG      2326 43.02     154       -0.1     38
 IGT  SE ISG      2326 51.14     154        0.0     38
 TPE  SZ IPG      2326 44.94     348        0.0     51      18     2.2
 TPE  SE ISG      2326 52.82     348        0.1     51
 VLO  SZ IPG      2326 54.32     322        0.1     88      18     2.2
 VLO  SE ISG      2327 07.21     322        0.1     88


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

 2013 4  20 2332  10.63
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 SRN  SZ IPG      2332 10.63
 SRN  SE ISG      2332 12.69


 Y   M   D   HM   Sec     Lat     Long   Dep  Net Nr Rms Mag    Epicenter
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```
 2013 4  21 0017  48.54
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 SRN  SZ IPG      0017 48.54
 SRN  SE ISG      0017 50.14


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

 2013 4  21 0018  09.82
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 SRN  SZ IPG      0018 09.82
 SRN  SE ISG      0018 12.07


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

 2013 4  21 0106  15.26
 GAP=                    hor.err=km          ver.err=KM

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 SRN  SZ IPG      0106 12.26
 SRN  SE ISG      0106 17.08


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

 2013 4  21 0214  11.84  41.46    19.57  6    ASN 2  0.1 1.9   17KM N-W
DURRES
 GAP=264                 hor.err=2km         ver.err=3KM          -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 TIR  SZ IPG      0214 17.42     118        0.1     27      8      1.6
 TIR  SE ISG      0214 21.15     118        0.0     27
 PUK  SZ IPG      0214 24.28     22         0.1     69      15     2.2
 PUK  SE ISG      0214 33.97     22         0.1     69


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

 2013 4  21 0339  37.00  39.81    20.08  11   ASN 5  0.1 2.6  11KM S-E
SARANDE
 GAP=172                 hor.err=5km         ver.err=4KM      -ALBANIA

 STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
 SRN  SZ IPG      0339 37.89     315        0.0     10      19     2.2
 SRN  SE ISG      0339 40.09     315        0.1     10
 IGT  SZ IPG      0339 42.81     146       -0.1     37
```

IGT	SE	ISG	0339 50.61	146	0.0	37		
TPE	SZ	IPG	0339 44.39	353	0.0	53	28	2.9
TPE	SE	ISG	0339 52.76	353	0.0	53		
VLO	SZ	IPG	0339 54.70	326	0.1	88	28	2.9
VLO	SE	ISG	0340 07.25	326	0.0	88		
TIR	SZ	IPN	0340 06.25	344	-0.1	171	31	3
TIR	SE	ISN	0340 30.60	344	-0.1	171		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	21	0733	15.80	39.83	20.06	7	ASN	4	0.1	2.6	8KM S-E, SARANDE
GAP=163				hor.err=1km		ver.err=2KM						-ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPG		0733	17.58	313	0.0	8	25	2.6
SRN	SE	ISG		0733	19.67	313	0.1	8		
IGT	SZ	IPG		0733	22.61	145	0.1	40		
IGT	SE	ISG		0733	29.65	145	0.1	40		
TPE	SZ	IPG		0733	24.51	355	0.0	51	25	2.6
TPE	SE	ISG		0733	32.82	355	-0.1	51		
FNA	SZ	IPN		0733	42.52	328	-0.1	153	25	2.6
FNA	SE	ISN		0734	02.96	328	-0.1	153		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	21	0734	07.67	39.75	19.79	12	ASN	4	0.2	2.4	KORFUZ
GAP=195				hor.err=6km		ver.err=1KM						

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPG		0734	12.49	51	-0.1	22	19	2.2
SRN	SE	ISG		0734	14.48	51	0.1	22		
IGT	SZ	IPG		0734	17.51	117	0.0	52		
IGT	SE	ISG		0734	24.61	117	0.1	52		
TPE	SZ	IPG		0734	19.67	18	0.0	63	28	2.9
TPE	SE	ISG		0734	27.90	18	0.1	63		
FNA	SZ	IPN		0734	37.48	49	-0.1	177	28	2.9
FNA	SE	ISN		0734	58.91	49	0.1	177		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	21	1632	29.28	39.38	21.10	15	ASN	4	0.3	2.8	GREECE
GAP=273				hor.err=1km		ver.err=4KM						

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
IGT	SZ	IPG		1632	41.68	282	0.0	68		
IGT	SE	ISG		1632	51.03	282	0.1	68		
SRN	SZ	IPG		1632	48.50	301	-0.1	109	26	2.8
SRN	SE	ISG		1633	02.81	301	-0.1	109		

TPE	SZ	IPN	1632	54.27	318	0.1	137	26	2.8
TPE	SE	ISN	1633	14.25	318	-0.1	137		
FNA	SZ	IPN	1632	56.32	8	0.1	157		
FNA	SE	ISN	1633	16.79	8	0.1	157		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	22	0537	10.60	40.74	19.75	2	ASN	6	0.1	2.9	ROSKOVEC, FIER
GAP=153					hor.err=0km			ver.err=0KM				-ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
VLO	SZ	IPG		0537	17.27	215	0.1	38	35	2.9
VLO	SE	ISG		0537	23.89	215	0.0	38		
TPE	SZ	IPG		0537	20.33	216	0.0	54	35	2.9
TPE	SE	ISG		0537	28.71	216	0.0	54		
TIR	SZ	IPG		0537	23.35	8	-0.1	67	38	3
TIR	SE	ISG		0537	32.14	8	-0.1	67		
SRN	SZ	IPG		0537	28.64	167	0.0	99	35	2.9
SRN	SE	ISG		0537	41.97	167	0.1	99		
FNA	SZ	IPG		0537	35.73	87	0.1	138		
FNA	SE	ISN		0537	54.89	87	0.0	138		
IGT	SZ	IPN		0537	35.89	159	-0.1	144		
IGT	SE	ISN		0537	56.61	159	0.0	144		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	22	2200	57.59	43.17	18.75	2	ASN	3	0.2	3.4	MONTENEGRO
GAP=280					hor.err=6km			ver.err=3KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
BCI	SZ	IPG		2201	07.06	243	0.1	64	61	3.4
BCI	SE	ISG		2201	20.45	243	0.2	64		
TIR	SZ	IPN		2201	25.65	209	-0.1	160	54	3.3
TIR	SE	ISN		2201	46.58	209	0.2	160		
FNA	SZ	IPN		2201	34.59	165	0.1	210		
FNA	SE	ISN		2202	01.69	165	0.1	210		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	23	0047	30.48	38.39	20.56	2	ASN	4	0.3	4.5	GREECE
GAP=238					hor.err=4km			ver.err=5KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPN		0047	59.64	313	0.1	176	161	4.5
SRN	SE	ISN		0048	21.48	313	0.1	176		
TPE	SZ	IPN		0048	07.36	323	-0.1	210	161	4.5
TPE	SE	ISN		0048	34.58	323	-0.1	210		
VLO	SZ	IPN		0048	12.68	318	0.2	253		
VLO	SE	ISN		0048	48.79	318	-0.2	253		

```
TIR  SZ IPN      0048 19.68     335        0.1     315     170    4.6
TIR  SE ISN      0048 55.69     335        0.2     315


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

2013 4  23 1956  56.85
GAP=                    hor.err=km          ver.err=KM

STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
TPE  SZ IPG      1956 56.85
TPE  SE ISG      1956 59.32


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

2013 4  23 2234  52.80
GAP=                    hor.err=km          ver.err=KM

STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
TPE  SZ IPG      2234 52.80
TPE  SE ISG      2234 53.78


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

2013 4  25 1107  33.56  40.78    19.65  11   ASN 8  0.1 2.8   7KM V-P FIER
GAP=142                 hor.err=0km         ver.err=0KM         -ALBANIA

STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
VLO  SZ IPG      1107 40.05     201       -0.1     36      30     2.8
VLO  SE ISG      1107 45.82     201        0.0     36
TIR  SZ IPG      1107 44.96     16         0.1     65      29     2.8
TIR  SE ISG      1107 54.68     16         0.1     65
SRN  SZ IPG      1107 51.02     163        0.0     104     29     2.8
SRN  SE ISG      1108 06.73     163        0.1     104
SCTE SZ IPN      1107 54.56     233        0.1     126     28     2.8
SCTE SE ISN      1108 12.24     233        0.0     126
FNA  SZ IPN      1107 58.69     89         0.1     146
FNA  SE ISN      1108 16.94     89         0.0     146
IGT  SZ IPN      1107 59.88     156       -0.1     150
IGT  SE ISN      1108 19.55     156       -0.1     150
BCI  SZ IPN      1108 04.25     11         0.0     179     35     2.9
BCI  SE ISN      1108 26.68     11         0.1     179
NOCI SZ IPN      1108 09.15     272       -0.1     217     35     2.9
NOCI SE ISN      1108 37.74     272       -0.1     217


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

2013 4  27 0740  28.51  40.61    22.22  5    ASN 3  0.2 3.2   GREECE
GAP=309                 hor.err=2km         ver.err=4KM
```

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
FNA	SZ	IPG		0740	41.42	285	0.1	73		
FNA	SE	ISG		0740	50.11	285	0.1	73		
IGT	SZ	IPN		0741	03.19	234	0.1	201		
IGT	SE	ISN		0741	28.61	234	-0.1	201		
SRN	SZ	IPN		0741	04.32	248	0.1	206	40	3.2
SRN	SE	ISN		0741	30.11	248	-0.1	206		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	27	1104	00.92	40.31	19.48	7	ASN	4	0.1	2.6	ORIKUM-ALBANIA
GAP=135					hor.err=1km			ver.err=2KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
VLO	SZ	IPG		1104	04.27	2	0.0	17	24	2.6
VLO	SE	ISG		1104	07.40	2	-0.1	17		
SRN	SZ	IPG		1104	12.65	137	0.1	65	27	2.7
SRN	SE	ISG		1104	22.45	137	0.0	65		
TPE	SZ	IPG		1104	16.90	254	0.1	90	27	2.7
TPE	SE	ISG		1104	29.45	254	0.1	90		
IGT	SZ	IPG		1104	20.81	138	-0.1	113		
IGT	SE	ISG		1104	35.24	138	-0.1	113		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	27	0213	33.53	39.13	21.48	7	ASN	4	0.2	3.2	GREECE
GAP=297					hor.err=2km			ver.err=7KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
IGT	SZ	IPG		0213	50.92	295	-0.1	108		
IGT	SE	ISG		0214	07.31	295	-0.1	108		
SRN	SZ	IPN		0213	59.76	304	0.1	152	42	3.2
SRN	SE	ISN		0214	20.45	304	-0.1	152		
FNA	SZ	IPN		0214	04.15	358	-0.1	183		
FNA	SE	ISN		0214	29.34	358	-0.1	183		
TIR	SZ	IPN		0214	20.56	332	0.1	281	42	3.2
TIR	SE	ISN		0214	51.93	332	0.1	281		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	28	0449	58.04	38.76	22.11	6	ASN	5	0.2	4.1	GREECE
GAP=315					hor.err=7km			ver.err=6KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
IGT	SZ	IPN		0450	27.83	300	0.2	176		
IGT	SE	ISN		0450	56.14	300	-0.3	176		
SRN	SZ	IPN		0450	33.12	305	0.1	220	113	4.1
SRN	SE	ISN		0450	59.02	305	0.1	220		

FNA	SZ	IPN	0450	36.99	345	-0.2	232		
FNA	SE	ISN	0451	05.11	345	0.3	232		
TIR	SZ	IPN	0451	01.41	327	0.4	345	114	4.1
TIR	SE	ISN	0451	45.31	327	0.3	345		
PUK	SZ	IPN	0451	04.31	334	0.2	409	124	4.1
PUK	SE	ISN	0451	55.31	334	0.3	409		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	28	1631	24.81	38.96	21.57	45	ASN	6	0.4	4.8	GREECE
GAP=261					hor.err=5km			ver.err=7KM				

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
IGT	SZ	IPN		1631	47.27	301	0.2	124		
IGT	SE	ISN		1632	03.00	301	0.3	124		
SRN	SZ	IPN		1631	52.86	308	-0.3	169	116	4.7
SRN	SE	ISN		1632	13.13	308	0.2	169		
VLO	SZ	IPN		1632	01.00	314	-0.4	244		
VLO	SE	ISN		1632	29.52	314	0.3	244		
TIR	SZ	IPN		1632	10.14	332	-0.1	302	141	4.8
TIR	SE	ISN		1632	41.53	332	0.4	302		
PHP	SZ	IPN		1632	12.25	343	0.3	317	156	4.9
PHP	SE	ISN		1632	46.25	343	0.2	317		
BCI	SZ	IPN		1632	22.26	342	0.2	399	136	4.8
BCI	SZ	IPN		1633	05.84	342	-0.3	399		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	28	2144	48.12	40.10	19.84	5	ASN	6	0.2	3.1	QEPARO,SARANDE
GAP=120					hor.err=1km			ver.err=5KM				-ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
SRN	SZ	IPG		2144	53.66	150	0.2	28	38	3.1
SRN	SE	ISG		2144	59.16	150	-0.3	28		
VLO	SZ	IPG		2144	57.59	325	0.2	50	30	2.8
VLO	SE	ISG		2145	06.50	325	0.1	50		
IGT	SZ	IPG		2145	01.48	146	0.3	75		
IGT	SE	ISG		2145	13.35	146	-0.2	75		
TIR	SZ	IPN		2145	12.95	0	0.4	138	50	3.2
TIR	SE	ISN		2145	32.35	0	0.3	138		
BCI	SZ	IPN		2145	29.84	4	0.5	252		
BCI	SE	ISN		2146	03.04	4	0.1	252		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	28	2345	58.65	41.08	20.14	7	ASN	3	0.2	2.0	SHUSHICE, ELBASAN
GAP=215					hor.err=1km			ver.err=12KM				-ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IPG		2346	05.44	322	0.2	37	14	2.0
TIR	SE	ISG		2346	11.21	322	-0.1	37		
PUK	SZ	IPG		2346	17.02	350	0.3	108	15	2.0
PUK	SE	ISG		2346	32.26	350	0.1	108		
FNA	SZ	IPN		2346	18.15	107	-0.2	120		
FNA	SE	ISN		2346	32.90	107	0.3	120		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	29	0100	21.94	42.01	20.15	7	ASN	3	0.3	2.7	10KM J-L F.ARREZ

GAP=211 hor.err=2km ver.err=2KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		0100	26.49	280	0.2	25	18	2.4
PUK	SE	ISG		0100	30.24	280	0.1	25		
BCI	SZ	IPG		0100	29.23	346	-0.3	41	44	2.9
BCI	SE	ISG		0100	35.24	346	0.1	41		
TIR	SZ	IPG		0100	35.49	201	0.4	78	36	2.8
TIR	SE	ISG		0100	46.36	201	0.3	78		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	29	0103	51.19	42.02	20.13	8	ASN	3	0.3	2.8	10KM J-L F.ARREZ

GAP=211 hor.err=2km ver.err=2KM -ALBANIA

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		0103	55.51	278	0.2	23	21	2.4
PUK	SE	ISG		0103	59.26	278	-0.3	23		
BCI	SZ	IPG		0103	58.24	348	0.1	40	42	3.0
BCI	SE	ISG		0104	04.49	349	0.2	40		
TIR	SZ	IPG		0104	04.98	200	0.1	79	34	2.6
TIR	SE	ISG		0104	16.73	200	0.2	79		

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	29	0258	30.84								

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

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		0258	30.84					
PUK	SE	ISG		0258	34.24					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	29	0313	42.66								

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

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IPG		0313	42.66					
PUK	SE	ISG		0313	46.41					

Termete te Largeta (Long distance earthquake)

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	12	2045	05.76	34.40	134.79	10	ASN	6		6	JAPONI

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

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PUK	SZ	IP		2045	35.79					
BCI	SZ	IP		2045	39.45					
TIR	SZ	IP		2045	43.11					
PHP	SZ	IP		2045	47.31					
TPE	SZ	IP		2045	52.49					
SRN	SZ	IP		2045	47.11					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	13	2308	08.01	19.11E	165.59E	268	ASN	6		6	VANUATU

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

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
TIR	SZ	IP		2308	53.70					
PUK	SZ	IP		2308	58.04					
TPE	SZ	IP		2308	59.43					
BCI	SZ	IP		2308	55.12					
PHP	SZ	IP		2308	56.37					
SRN	SZ	IP		2308	57.64					

Y	M	D	HM	Sec	Lat	Long	Dep	Net	Nr	Rms	Mag	Epicenter
2013	4	16	1050	02.15	28.14	62.08	86	ASN	6		7.8	IRAN

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

STAT	SP	IPHASW	D	HRMM	SECON	AZIMU	RES	DIS	DUR	Md
PHP	SZ	IP		1050	15.26					
TPE	SZ	IP		1050	17.28					

```
TIR  SZ IP       1050 19.20
PUK  SZ IP       1050 16.35
BCI  SZ IP       1050 17.98
SRN  SZ IP       1050 20.35


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

2013 4  17 0322  48.12  28.18    62.34  80   ASN 5      5.6     IRAN
GAP=                    hor.err=km         ver.err=KM

STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
PHP  SZ IP       0322 50.93
TPE  SZ IP       0322 53.70
TIR  SZ IP       0322 54.81
PUK  SZ IP       0322 52.40
BCI  SZ IP       0322 54.81


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

2013 4  17 1215  45.69  38.53    141.56 45   ASN 5      5.9     JAPONI
GAP=                    hor.err=km         ver.err=KM

STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
PHP  SZ IP       1215 56.51
BCI  SZ IP       1215 57.79
TIR  SZ IP       1216 07.14
TPE  SZ IP       1216 04.95
SRN  SZ IP       1216 01.35


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

2013 4  19 0317  21.75  46.26    150.89 100  ASN 7      7.2    KURIL,ISLAND
GAP=                    hor.err=km         ver.err=KM

STAT SP IPHASW D HRMM SECON     AZIMU     RES      DIS     DUR    Md
PHP  SZ IP       0318 02.03
BCI  SZ IP       0318 01.83
PUK  SZ IP       0318 02.57
TIR  SZ IP       0318 07.97
TPE  SZ IP       0318 11.95
SRN  SZ IP       0318 07.54
VLO  SZ IP       0318 12.59
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PËRSHKRIM MAKROSIZMIK I TËRMETEVE TË NDJESHME NË VENDIN TONË

Intensiteti i tërmetit në epiqendër I_0 është përcaktuar me formulën $I_0=$ ——. 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 $I_0=$ ——. 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	12.04.2013	01:26:57.9	Epiqendra: 40.18V; 20.65L, 19 km në Lindje të qytetit Leskovikut. Intensiteti i tërmetit në epiqendër I_0=V balle Ndjerë: IV-V ballë ne qytetin e Leskovikut, IV ballë në qytetin e Ersekes dhe III-IV ne qytetin e Korces. (Epicentre: 40.18N; 20.65E, 19 km East of Leskoviku town. Epicentral Intensity I_0=V. Felt: IV-V at Leskoviku town, IV at Erseka town and III-IV at Korca town)
2	12.04.2013	07:54:52.4	Epiqendra: 40.75V; 19.69L, 4 km në Veri-Lindje të qytetit Fierit. Intensiteti i tërmetit në epiqendër I_0=IV-V balle Ndjerë: IV ballë ne qytetin e Fierit, Rroskovecit dhe Patosit. (Epicentre: 40.75N; 19.69E, 4 km North-East of Fieri town. Epicentral Intensity I_0=IV-V. Felt: IV at Fierit, Rroskovecit and Patosi town)

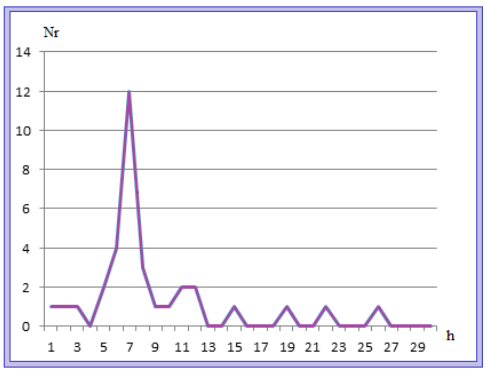
KATALOGU I TËRMETEVE MUJORE (THE MONTHLY EARTHQUAKE CATALOG)

Data Date *vvvv/mm/dd*	Koha Time *hh:mm:ss*	Gjer. Lat	Gjat Long.	Thell. Depth *(km)*	Nr. St. N_0. St	Gab Rms	Mag. *(M_D)*	Vendndodhja Location
2013 4 1	0118 53.26	40.92	21.11	5	4	0.1	2.9	MACEDONI
2013 4 1	2049 31.94	41.87	20.30	7	3	0.1	2.3	ARREZ, PESHKOPI-ALBANIA
2013 4 2	1503 39.86	41.61	19.55	7	2	0.1	2.1	ADRIATIK SEA, LAÇ-ALBANIA
2013 4 2	2206 30.12	42.59	18.74	1	4	0.1	3	MONTENEGRO
2013 4 3	0001 13.49	42.48	18.84	6	4	0.2	3.0	MONTENEGRO
2013 4 3	2332 54.39	41.91	19.17	7	4	0.3	2.9	ADRIATIK SEA, ULQIN
2013 4 4	0450 43.82	43.25	18.60	1	4	0.4	3.5	BOSNJE-HERCEGNOVI
2013 4 4	1817 22.00	41.44	19.89	6	2	0.2	1.8	MNER TIRANE-ALBANIA
2013 4 7	0438 30.71	39.31	20.55	8	4	0.6	3.4	GREECE
2013 4 7	1424 37.00	41.89	20.07	7	3	0.3	2.5	MACEDONIA
2013 4 8	0441 06.00	41.83	20.20	7	4	0.3	2.2	BULSHAR-ALBANIA
2013 4 8	0536 18.00	41.88	20.17	7	2	0.2	2.5	KLOSTRINE-ALBANIA
2013 4 11	0503 49.20	42.26	19.72	6	3	0.3	2.2	KIR SHKODER-ALBANIA
2013 4 11	1445 53.69	41.61	19.81	8	2	0.3	2.1	6KM LINDJE LAC-ALBANIA
2013 4 11	2313 51.53	41.79	20.06	15	3	0.2	2.0	MALAJ KURBNESH-ALBANIA
2013 4 12	0126 54.13	40.18	20.66	10	8	0.3	4.1	15KM J-L LESKOVIK-ALBANIA
2013 4 12	2006 12.01	41.62	20.42	6	3	0.1	2.3	6KM JUG PESHKOPIS-ALBANIA
2013 4 13	1545 51.46	41.15	20.31	7	4	0.1	2.9	LIBRAZHD-ALBANIA
2013 4 14	0004 32.18	40.28	19.71	9	8	0.1	3.1	BRATAJ,VLORE-ALBANIA
2013 4 14	2249 35.34	39.78	19.86	20	4	0.1	2.5	KORFUZ
2013 4 14	2325 47.44	39.78	19.79	22	4	0.1	2.3	KORFUZ
2013 4 15	1321 06.57	41.90	20.13	26	6	0.1	3.3	KLOS-ALBANIA
2013 4 16	0330 04.78	40.82	21.37	3	5	0.1	3.6	GREECE
2013 4 18	20.3 34.29	39.81	20.83	7	5	0.2	3.2	GREECE
2013 4 19	0754 32.60	40.75	19.69	6	6	0.1	3.6	NORTH-EAST FIER-ALBANIA
2013 4 20	2012 13.85	39.79	20.09	15	2	0.1	1.5	XARRE,SARANDE-ALBANIA
2013 4 20	2326 36.57	39.84	20.13	12	4	0.2	2.1	SARANDE-ALBANIA
2013 4 21	0214 11.84	41.46	19.57	6	2	0.1	1.9	NORTH OF DURRES-ALBANIA
2013 4 21	0339 37.00	39.81	20.08	11	5	0.1	2.6	11KM S-E SARANDE-ALBANIA
2013 4 21	0733 15.80	39.83	20.06	7	4	0.1	2.6	SARANDE-ALBANIA
2013 4 21	0734 07.67	39.75	19.79	12	4	0.2	2.4	KORFUZ
2013 4 21	1632 29.28	39.38	21.10	15	4	0.3	2.8	GREECE
2013 4 22	0537 10.60	40.74	19.75	2	6	0.1	2.9	ROSKOVEC,FIER-ALBANIA
2013 4 23	0047 30.48	38.39	20.56	2	4	0.3	4.5	GREECE
2013 4 25	1107 33.56	40.78	19.65	11	8	0.1	2.8	ROSKOVEC,FIER-ALBANIA
2013 4 27	0740 28.51	40.61	22.22	5	3	0.2	3.2	GREECE
2013 4 27	1104 00.92	40.31	19.48	7	4	0.1	2.6	ORIKUM-ALBANIA
2013 4 27	0213 33.53	39.13	21.48	7	4	0.2	3.2	GREECE
2013 4 28	0449 58.04	38.76	22.11	6	5	0.2	4.1	GREECE
2013 4 28	1631 24.81	38.96	21.57	45	6	0.4	4.8	GREECE
2013 4 28	2144 48.12	40.10	19.84	5	6	0.2	3.1	QEPARO-ALBANIA
2013 4 28	2345 58.65	41.08	20.14	7	3	0.2	2.0	SHUSHICE ELBASAN-ALBANIA
2013 4 29	0100 21.94	42.01	20.15	7	3	0.3	2.7	FUSH ARREZ-ALBANIA

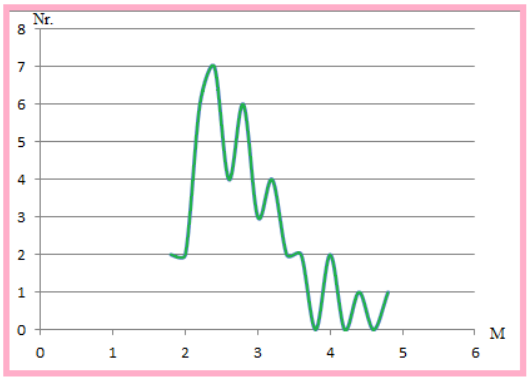
2013 4 29 0103 51.19 42.02 20.13 8 3 0.3 2.8 FUSH ARREZ-ALBANIA

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)*	39
Events occured within quandrant	
➢ *Ngjarje sizmike të ndodhura brenda kufijve shtetërore*	27
Events occured inside state boundaries	
➢ *Thellësia mesatare e ngjarjeve sizmike*	9
Mean hypocenter depth	
➢ *Thellësia maksimale*	26
Maximum hypocenter depth	
➢ *Magnituda lokale minimale e regjistruar*	1.5
Minimum recorded local magnitude	
➢ *Magnituda lokale maksimale e regjistruar*	4.1
Maximum recorded local magnitude	
➢ *Intensiteti sizmik maksimal ne epiqendër*	V
Maximum seismic intensity	



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



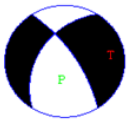
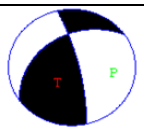
Distribution graphic of monthly seismic event number according to depth (right) magnitude (left)

Zgjidhja e mekanizmit vatror (ZMV)

Për zgjidhjen e mekanizmit të 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, To achieve the optimum solution also the amplitude ratio of the type AMPSg/AMPPg, (AMPSn/AMPPn), are used. These amplitudes are red on rotated and corrected components, from the geographic system to the spherical one (vertical, radial and transversal). A grid search at the 5.0-10 degree cells interval has been applied, setting first the allowed error threshold for polarity readings. For final solution the FOCMEC program has been used (Snoke. et al., 1984). Whereas, to optimize the solution HASH routine(Hardebeck& Shearer, 2003), has been applied as well.

Identifikimi i ngjarjes (Event ID)	Parametrat e burimit (Source paremeters)	Magnituda (Magnitude)	Parametrat e Mekanizmit (Focal Mechanism parameters)	Tipi (Focal Type)
2013.04.12.01:26	40.18 (N) 20.66 (E) 10 (km)	4.1	P1: 213, 42, -31 P2: 327, 70, -128 T: 83.8, 16.4 P: 194, 50.3	
2013.04.19.07:57	40.75 (N) 19.69 (E) 6 (km)	3.6	P1: 347, 77, 59 P2: 237, 33.4, 156 T: 101, 26 P: 224, 49	

Harta e epiqendrave të tërmeteve