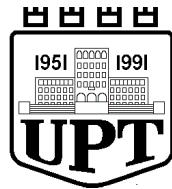


BULETINI I TËRMETEVE TË RRJETIT SIZMOLOGJIK SHQIPTAR

MAJ 2013

**PARAMETRIC DATA
AND ALBANIAN'S EARTHQUAKE ANALYSIS
MAY 2013**



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

BULETINI MUJOR I RRJETIT SIZMOLOGJIK

TË SHQIPERISË

Maj 2013

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SEISMOLOGICAL NETWORK

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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 vatreore 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° - 43.0° V dhe 18.5° - 21.5° L.

Buletini përbën 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 përpunuuar, katalogu mujor i tërmeteve, informacionin makrosimik, statistikor, mekanizmin vatror dhe hartën e shpërndarjes së epiqendrave. Në të përfshihen disa kategori tërmetesh, bazuar në informacionin e regjistruar dhe përpunuuar për secilen prej tyre. Ato janë: **1**- tërmetet e lokalizuar; **2**- tërmetet e regjistruar nga më shumë se një stacion lokal, por jo të lokalizuar dhe **3**- tërmete 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 njoitura, 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° - 43° N and 18.5° - 21.5° E. Bulletin comprises a description section, containing the most general information, the section of the used symbols corresponding to all the evaluated parameters, phases data for each of the recorded and located earthquakes. It contains also the event catalogue, the macroseismic information, the statistical information, the focal mechanism solutions and an aerial epicenter distribution map.

Different earthquake information categories are included, depending on their recorded and elaborated information, for each of them. They are: **1**- localized earthquakes; **2**- earthquakes recorded from more than one local station, but not located and **3**- earthquakes recorded at least by one station, but having more than one seismic phase.

The parametric data, as above, are permanently evaluated throughout the seismological monitoring routine, based upon quantitative analyze of instrumental waveform recordings. Their computed values are the direct application

iterative dhe interaktive, të aplikuara në programe llogarites të certifikuar dhe të njojur 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 (Ormeni 2007) (kryesisht atyre volumore, primare dhe sekondare, P dhe S). Vlerësimi i magnitudës realizohet duke aplikuar modele të njojur parametrik si ai Richter & Gutenberg (1956) dhe Eaton (1992).

Analiza e të dhënave të publikuara realizohet nga grapi 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 Kombtar 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) |
|------------------|---|--|
| <i>Y</i> | Viti (year) | Viti ndodhjes se ngjarjes (year of occurrence) |
| <i>M</i> | Muaji (month) | Muaji i ndodhjes së ngjarjes (month of occurrence) |
| <i>D</i> | Dita (day) | Data e ndodhjes së ngjarjes (date of occurrence) |
| <i>H</i> | Ora (hour) | Ora ne origjine (UTC) (origine time universal) |
| <i>M</i> | Minuta (minute) | Minuta (origine time minute) |
| <i>Sec</i> | Sekonda (second) | Sekonda (origine time second) |
| <i>Lat</i> | Gjerësia gjeografike (latitude) | Gjerësia gjeografike e epikendrës Veri-Jug($^{\circ}$) Geographical latitude N-S direction |
| <i>Lon</i> | Gjatësia gjeografike (longitude) | Gjatesia gjeografike e epikendrës Lindje-Perendim($^{\circ}$) Geographical longitude E-W direction |
| <i>Dep</i> | Thellësia (depth) | Thellësia vatore (focal depth)-km |
| <i>Hor. err</i> | Gabimi horizontal (horizontal error) | Gabimi i bërë në vlerësimin e epikendrës (km) Estimation error of epicentre |
| <i>Ver. err</i> | Gabimi vertikal (vertical error) | Gabimi i bërë në vlerësimin e thellësisë (km) Depth estimation error |
| <i>Gap</i> | Mosmbulimi me stacione minitorimi (azimuthal gap) | Zona e sferës fokale (imaginare), e pa mbuluar me stacione regjistrues Azimuthal station gap |
| <i>Rms</i> | Gabimi mesatar kuadratik (Root mean square) | Gabimi i per gjithem (Total estimation error-sec) |
| <i>Mag</i> | Magnituda (magnitude) | Madhesia e termetit sipas shkalles lokale te kalibruar (local calibrated measure of the earthquake size) |
| <i>Net</i> | Emërtimi i rrjetit sizmologjik (network code) | Kodi nderkombetar i identifikimit te rrjetit ne FDSN (Federation of Digital seismologies network) eshte AC |

| | | |
|-------------------|---|--|
| | | (International code of Network identification on FDSN is AC) |
| Nr | Numuri i stacioneve (station's number) | Nr. Stacioneve te perdorur ne lokalizim (No. Of used stations) |
| STAT | Kodi i stacionit (station code) | Kodi nderkombetar 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 gjografik 3D (Z, N ose E) Component code according to recording direction |
| IPHASW | Faza valore sizmike (seismic wave phase) | tipi i valës P (P_g / P_n) ose S (S_g / S_n) (wave phase type) |
| D | Polariteti i hyrjes së parë në komponenten vertikale (first vertical honest polarity) | Polariteti i vales renese ne stacion, 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 horizontale 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 | 5 | 3 | 0844 | 00.56 | 40.69 | 19.71 | 7 | ASN | 5 | 0.1 | 2.9 | ROSKOVEC |
| | | | | | hor. err=1km | | | | | | | -ALBANIA |
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md | | |
| VLO | SZ | IPG | | 0844 | 06.66 | 217 | 0.0 | 31 | 43 | 3.0 | | |
| VLO | SE | ISG | | 0844 | 11.16 | 217 | -0.1 | 31 | | | | |
| TPE | SZ | IPG | | 0844 | 09.78 | 251 | 0.0 | 51 | 31 | 2.8 | | |
| TPE | SE | ISG | | 0844 | 17.23 | 251 | 0.0 | 51 | | | | |
| TIR | SZ | IPG | | 0844 | 13.02 | 9 | -0.1 | 73 | 32 | 2.9 | | |
| TIR | SE | ISG | | 0844 | 23.11 | 9 | 0.0 | 73 | | | | |

| | | | | | | | | |
|-----|----|-----|--|------|-------|-----|-----|-----|
| SRN | SZ | IPG | | 0844 | 17.11 | 165 | 0.0 | 94 |
| SRN | SE | ISG | | 0844 | 23.94 | 165 | 0.1 | 94 |
| PHP | SZ | IPN | | 0844 | 22.53 | 28 | 0.0 | 125 |
| PHP | SE | ISN | | 0844 | 39.42 | 28 | 0.1 | 125 |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|------|---|---|------|-------|-------|-------|-----|-----|----|-----|-----|--------------|
| 2013 | 5 | 3 | 1324 | 33.50 | 40.58 | 19.19 | 18 | ASN | 4 | 0.2 | 2.7 | ADRIATIC-SEA |

GAP=225 hor.err=3km ver.err=2KM

| | | | | | | | | | | |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
| VLO | SZ | IPG | | 1324 | 33.48 | 115 | 0.1 | 28 | 20 | 2.5 |
| VLO | SE | ISG | | 1324 | 44.12 | 115 | 0.1 | 28 | | |
| TPE | SZ | IPG | | 1324 | 49.00 | 114 | -0.1 | 75 | 26 | 2.6 |
| TPE | SE | ISG | | 1324 | 57.71 | 114 | 0.1 | 75 | | |
| SCTE | SZ | IPG | | 1324 | 47.65 | 225 | 0.1 | 83 | | |
| SCTE | SE | ISG | | 1325 | 00.11 | 225 | 0.1 | 83 | | |
| SRN | SZ | IPG | | 1324 | 51.90 | 236 | 0.1 | 103 | 26 | 2.6 |
| SRN | SE | ISG | | 1325 | 04.12 | 236 | -0.1 | 103 | | |
| IGT | SZ | IPN | | 1324 | 59.47 | 139 | 0.1 | 151 | | |
| IGT | SE | ISN | | 1325 | 16.65 | 139 | 0.1 | 151 | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|------|---|---|------|-------|-------|-------|-----|-----|----|-----|-----|-----------|
| 2013 | 5 | 3 | 1622 | 06.49 | 40.27 | 22.41 | 8 | ASN | 4 | 0.3 | 3.9 | GREECE |

GAP=302 hor.err=3km ver.err=4KM

| | | | | | | | | | | |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
| FNA | SZ | IPN | | 1622 | 22.06 | 304 | 0.3 | 103 | | |
| FNA | SE | ISN | | 1622 | 33.18 | 304 | 0.1 | 103 | | |
| IGT | SZ | IPN | | 1622 | 40.47 | 246 | 0.2 | 195 | | |
| IGT | SE | ISN | | 1623 | 03.16 | 246 | 0.1 | 195 | | |
| TPE | SZ | IPN | | 1622 | 40.96 | 272 | 0.1 | 203 | 76 | 3.7 |
| TPE | SE | ISN | | 1623 | 07.92 | 272 | -0.2 | 203 | | |
| SRN | SZ | IPN | | 1622 | 42.18 | 259 | 0.2 | 209 | 114 | 4.1 |
| SRN | SE | ISN | | 1623 | 09.51 | 259 | 0.1 | 209 | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|------|---|---|------|-------|-------|-------|-----|-----|----|-----|-----|--------------------------|
| 2013 | 5 | 3 | 2114 | 50.23 | 40.94 | 20.23 | 21 | ASN | 4 | 0.1 | 2.8 | KABASHI, GRAMSH -ALBANIA |

GAP=226 hor.err=1km ver.err=2KM

| | | | | | | | | | | |
|------|----|--------|---|------|-------|-------|-----|-----|-----|-----|
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
| TIR | SZ | IPG | | 2115 | 00.47 | 326 | 0.0 | 54 | 20 | 2.6 |
| TIR | SE | ISG | | 2115 | 08.80 | 326 | 0.0 | 54 | | |
| FNA | SZ | IPG | | 2115 | 08.16 | 209 | 0.1 | 99 | | |

| | | | | | | | | | | | |
|-----|----|-----|------|-------|-----|------|-----|----|-----|--|--|
| FNA | SE | ISG | 2115 | 20.64 | 209 | -0.1 | 99 | | | | |
| BCI | SZ | IPN | 2115 | 16.91 | 355 | -0.1 | 159 | 37 | 3.2 | | |
| BCI | SE | ISN | 2115 | 37.40 | 355 | -0.1 | 159 | | | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter | |
|---------|---|---|------|-------|-------------|-------|-----|-----|----|-----|-----|-------------|----------|
| 2013 | 5 | 4 | 1454 | 37.01 | 41.93 | 20.21 | 16 | ASN | 7 | 0.1 | 3.3 | KLOS, KUKES | |
| | | | | | hor.err=2km | | | | | | | | -ALBANIA |
| GAP=155 | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|--|
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md | |
| BCI | SZ | IPG | | 1454 | 46.41 | 347 | 0.0 | 50 | 59 | 3.5 | |
| BCI | SE | ISG | | 1454 | 53.61 | 347 | -0.1 | 50 | | | |
| TIR | SZ | IPG | | 1454 | 49.57 | 207 | 0.0 | 70 | 41 | 3.2 | |
| TIR | SE | ISG | | 1454 | 59.11 | 207 | 0.0 | 70 | | | |
| FNA | SZ | IPN | | 1455 | 04.07 | 190 | 0.1 | 160 | | | |
| FNA | SE | ISN | | 1455 | 28.08 | 190 | 0.1 | 160 | | | |
| VLO | SZ | IPN | | 1455 | 09.15 | 201 | 0.1 | 173 | | | |
| TIR | SZ | IPN | | 1455 | 18.35 | 188 | 0.1 | 182 | 41 | 3.2 | |
| SCTE | SZ | IPN | | 1455 | 15.48 | 217 | -0.1 | 252 | | | |
| SCTE | SE | ISN | | 1455 | 48.25 | 217 | 0.1 | 252 | | | |
| IGT | SZ | IPN | | 1455 | 18.56 | 177 | -0.2 | 266 | | | |
| IGT | SE | ISN | | 1455 | 48.09 | 177 | -0.2 | 266 | | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|---------|---|---|------|-------|-------------|-------|-----|-----|----|-----|-----|-------------|
| 2013 | 5 | 5 | 0559 | 32.15 | 40.62 | 19.63 | 9 | ASN | 4 | 0.1 | 2.7 | PATOS, FIER |
| | | | | | hor.err=1km | | | | | | | -ALBANIA |
| GAP=201 | | | | | | | | | | | | |

| | | | | | | | | | | | |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|--|
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md | |
| VLO | SZ | IPG | | 0559 | 37.59 | 314 | 0.0 | 20 | 27 | 2.7 | |
| VLO | SE | ISG | | 0559 | 41.64 | 314 | -0.1 | 20 | | | |
| TIR | SZ | IPG | | 0559 | 47.08 | 82 | 0.0 | 82 | 27 | 2.2 | |
| TIR | SE | ISG | | 0559 | 57.33 | 82 | 0.0 | 82 | | | |
| PUK | SZ | IPN | | 0559 | 59.34 | 13 | 0.0 | 149 | | | |
| PUK | SE | ISN | | 0600 | 16.36 | 13 | 0.0 | 149 | | | |
| FNA | SZ | IPN | | 0559 | 59.42 | 17 | 0.1 | 152 | | | |
| FNA | SE | ISN | | 0600 | 14.35 | 17 | 0.1 | 152 | | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|---------|---|---|------|-------|-------------|-------|-----|-----|----|-----|-----|--------------|
| 2013 | 5 | 5 | 1330 | 35.98 | 40.64 | 20.35 | 2 | ASN | 6 | 0.2 | 2.6 | EAST-POLICAN |
| | | | | | hor.err=1km | | | | | | | -ALBANIA |
| GAP=103 | | | | | | | | | | | | |

| | | | | | | | | | | | |
|------|----|--------|---|------|-------|-------|-----|-----|-----|-----|--|
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md | |
| TPE | SZ | IPG | | 1330 | 44.50 | 218 | 0.1 | 48 | 24 | 2.6 | |
| TPE | SE | ISG | | 1330 | 52.04 | 218 | 0.0 | 48 | | | |

| | | | | | | | | | |
|-----|----|-----|------|-------|-----|------|-----|----|-----|
| VLO | SZ | IPG | 1330 | 49.87 | 256 | 0.1 | 75 | 24 | 2.6 |
| VLO | SE | ISG | 1331 | 00.12 | 256 | 0.0 | 75 | | |
| FNA | SZ | IPG | 1330 | 51.60 | 79 | -0.1 | 88 | | |
| FNA | SE | ISG | 1331 | 04.23 | 79 | 0.1 | 88 | | |
| TIR | SZ | IPG | 1330 | 51.93 | 333 | 0.1 | 88 | | |
| TIR | SE | ISG | 1331 | 05.00 | 333 | -0.2 | 88 | | |
| SRN | SZ | IPG | 1330 | 52.81 | 200 | 0.1 | 90 | | |
| SRN | SE | ISG | 1331 | 06.05 | 200 | 0.1 | 90 | | |
| BCI | SZ | IPN | 1330 | 10.45 | 353 | 0.1 | 192 | | |
| BCI | SE | ISN | 1330 | 35.19 | 353 | 0.1 | 192 | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|---------|---|---|------|-------|-------------|-------|-----|-------------|----|-----|-----|-------------------------|
| 2013 | 5 | 5 | 1557 | 00.73 | 40.87 | 19.75 | 10 | ASN | 6 | 0.2 | 3.0 | S-E LUSHNJE -ALBANIA |
| GAP=162 | | | | | hor.err=2km | | | ver.err=4KM | | | | |

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| VLO | SZ | IPG | | 1557 | 09.02 | 206 | 0.0 | 49 | 30 | 2.8 |
| VLO | SE | ISG | | 1557 | 17.32 | 206 | 0.0 | 49 | | |
| TIR | SZ | IPG | | 1557 | 10.62 | 10 | -0.1 | 53 | 46 | 3.2 |
| TIR | SE | ISG | | 1557 | 18.90 | 10 | 0.0 | 53 | | |
| TPE | SZ | IPG | | 1557 | 13.11 | 161 | 0.1 | 67 | 33 | 2.4 |
| TPE | SE | ISG | | 1557 | 23.11 | 161 | -0.2 | 67 | | |
| PHP | SZ | IPG | | 1557 | 18.15 | 32 | 0.1 | 107 | | |
| PHP | SE | ISG | | 1557 | 33.38 | 32 | 0.1 | 107 | | |
| SRM | SZ | IPN | | 1557 | 20.23 | 169 | 0.1 | 112 | | |
| SRM | SE | ISN | | 1557 | 35.27 | 169 | 0.2 | 112 | | |
| BCI | SZ | IPN | | 1557 | 29.27 | 8 | 0.1 | 168 | | |
| BCI | SE | ISN | | 1557 | 51.94 | 8 | -0.2 | 168 | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|---------|---|---|------|-------|-------------|-------|-----|--------------|----|-----|-----|------------------------|
| 2013 | 5 | 5 | 2312 | 18.20 | 20.15 | 19.86 | 17 | ASN | 3 | 0.2 | 1.8 | KUC, VLORE -ALBANIA |
| GAP=161 | | | | | hor.err=2km | | | ver.err=13KM | | | | |

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| TPE | SZ | IPG | | 2312 | 21.92 | 39 | 0.1 | 19 | 9 | 1.6 |
| TPE | SE | ISG | | 2312 | 25.53 | 39 | 0.2 | 19 | | |
| SRN | SZ | IPG | | 2312 | 23.98 | 158 | -0.1 | 33 | 12 | 1.2 |
| SRN | SE | ISG | | 2312 | 29.98 | 158 | 0.3 | 33 | | |
| VLO | SZ | IPG | | 2312 | 26.30 | 319 | 0.1 | 46 | | |
| VLO | SE | ISG | | 2312 | 33.77 | 319 | 0.2 | 46 | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|------|---|---|------|-------|-------|-------|-----|-----|----|-----|-----|-------------|
| 2013 | 5 | 6 | 0027 | 44.21 | 42.16 | 19.62 | 17 | ASN | 2 | 0.2 | 1.6 | N-E SHKODER |

GAP=297 hor,err=3km ver,err=1KM -ALBANIA

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|-----|-----|-----|-----|
| PUK | SZ | IPG | | 0027 | 49.40 | 120 | 0.2 | 25 | 8 | 1.6 |
| PUK | SE | ISG | | 0027 | 52.88 | 120 | 0.1 | 25 | | |
| BCI | SZ | IPG | | 0027 | 52.52 | 57 | 0.3 | 42 | | |
| BCI | SE | ISG | | 0027 | 58.29 | 57 | 0.1 | 42 | | |

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

2013 5 6 0051 41.44
GAP= hor,err=km ver,err=KM

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|-----|-----|-----|----|
| TIR | SZ | IPG | | 0051 | 41.44 | | | | | |
| TIR | SE | ISG | | 0051 | 47.02 | | | | | |

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

2013 5 9 0230 11.10 40.90 19.86 18 ASN 6 0.4 3.2 ZGJANE LUSHNJE
GAP=127 hor,err=1km ver,err=1KM -ALBANIA

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| TIR | SZ | IPG | | 0230 | 20.00 | 0 | 0.1 | 49 | | |
| TIR | SE | ISG | | 0230 | 28.15 | 0 | 0.1 | 49 | | |
| VLO | SZ | IPG | | 0230 | 22.00 | 213 | 0.0 | 57 | 36 | 3.0 |
| VLO | SE | ISG | | 0230 | 30.15 | 213 | 0.0 | 57 | | |
| TPE | SZ | IPG | | 0230 | 24.10 | 169 | -0.1 | 69 | 42 | 3.2 |
| TPE | SE | ISG | | 0230 | 33.10 | 169 | 0.1 | 69 | | |
| SRN | SZ | IPG | | 0230 | 30.31 | 174 | 0.1 | 114 | 48 | 3.3 |
| SRN | SE | ISG | | 0230 | 46.10 | 174 | 0.1 | 114 | | |
| PUK | SZ | IPN | | 0230 | 33.00 | 1 | -0.1 | 126 | | |
| PUK | SE | ISN | | 0230 | 50.05 | 1 | -0.1 | 126 | | |
| BCI | SZ | IPN | | 0231 | 00.05 | 6 | -0.2 | 163 | | |

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

2013 5 9 1304 03.50 42.46 20.11 9 ASN 3 0.1 2.6 NORTH B.CURRI
GAP=320 hor,err=1km ver,err=1KM -ALBANIA

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| BCI | SZ | IPG | | 1304 | 08.45 | 194 | 0.0 | 11 | 23 | 2.6 |
| BCI | SE | ISG | | 1304 | 16.45 | 194 | 0.0 | 11 | | |
| PUK | SZ | IPG | | 1304 | 12.55 | 201 | -0.1 | 50 | 23 | 2.6 |
| PUK | SE | ISG | | 1304 | 19.31 | 201 | 0.0 | 50 | | |
| PHP | SZ | IPG | | 1304 | 19.21 | 161 | 0.1 | 91 | 23 | 2.6 |

| | | | | | | | |
|-----|----|-----|------|-------|-----|-----|----|
| PHP | SE | ISG | 1304 | 33.16 | 161 | 0.1 | 91 |
|-----|----|-----|------|-------|-----|-----|----|

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

| | | | | | | | | | | | | |
|---------------------------------|---|---|------|-------|-------|-------|---|-----|---|-----|-----|------------|
| 2013 | 5 | 9 | 1953 | 48.04 | 39.33 | 20.19 | 7 | ASN | 3 | 0.1 | 2.7 | IONIAN SEA |
| GAP=317 hor.err=2km ver,err=5KM | | | | | | | | | | | | |

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| IGT | SZ | IPG | | 1953 | 52.97 | 29 | 0.1 | 24 | | |
| IGT | SE | ISG | | 1953 | 56.87 | 29 | 0.1 | 24 | | |
| SRN | SZ | IPG | | 1953 | 59.36 | 346 | -0.1 | 62 | 25 | 2.7 |
| SRN | SE | ISG | | 1954 | 07.14 | 346 | -0.1 | 62 | | |
| SCTE | SZ | IPN | | 1954 | 18.39 | 300 | -0.1 | 169 | | |
| SCTE | SE | ISN | | 1954 | 39.14 | 300 | 0.1 | 169 | | |

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

| | | | | | | | | | | | | |
|---------------------------------|---|----|------|-------|-------|-------|---|-----|---|-----|-----|--------|
| 2013 | 5 | 10 | 0403 | 04.25 | 40.47 | 21.39 | 6 | ASN | 4 | 0.1 | 3.2 | GREECE |
| GAP=222 hor,err=1km ver,err=3KM | | | | | | | | | | | | |

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| FNA | SZ | IPG | | 0403 | 10.49 | 2 | 0.1 | 34 | | |
| FNA | SE | ISG | | 0403 | 15.74 | 2 | 0.1 | 34 | | |
| SRN | SZ | IPN | | 0403 | 28.11 | 242 | -0.1 | 135 | 40 | 3.1 |
| SRN | SE | ISN | | 0403 | 45.38 | 242 | -0.1 | 135 | | |
| IGT | SZ | IPN | | 0403 | 27.26 | 222 | 0.1 | 138 | | |
| IGT | SE | ISN | | 0403 | 46.85 | 222 | 0.1 | 138 | | |
| PUK | SZ | IPN | | 0403 | 40.26 | 325 | -0.2 | 214 | 42 | 3.1 |
| PUK | SE | ISN | | 0404 | 07.11 | 325 | -0.2 | 214 | | |

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

| | | | | | | | | | | | | |
|--|---|----|------|-------|-------|-------|---|-----|---|-----|-----|------------------|
| 2013 | 5 | 11 | 0759 | 08.22 | 41.27 | 20.22 | 4 | ASN | 6 | 0.3 | 3.1 | GURAKUQ, ELBASAN |
| GAP=132 hor,err=1km ver,err=1KM -ALBANIA | | | | | | | | | | | | |

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| TIR | SZ | IPG | | 0759 | 12.95 | 286 | 0.0 | 31 | 32 | 2.8 |
| TIR | SE | ISG | | 0759 | 19.17 | 286 | 0.1 | 31 | | |
| PUK | SZ | IPG | | 0759 | 24.10 | 343 | -0.1 | 90 | 45 | 3.1 |
| PUK | SE | ISG | | 0759 | 37.10 | 343 | 0.0 | 90 | | |
| VLO | SZ | IPG | | 0759 | 29.03 | 215 | 0.1 | 108 | 68 | 3.2 |
| VLO | SE | ISG | | 0759 | 43.40 | 215 | 0.1 | 108 | | |
| TPE | SZ | IPG | | 0759 | 27.42 | 190 | 0.1 | 110 | 68 | 3.3 |
| TPE | SE | ISG | | 0759 | 43.00 | 190 | -0.1 | 110 | | |
| BCI | SZ | IPN | | 0759 | 30.53 | 354 | -0.1 | 127 | 58 | 3.1 |
| BCI | SE | ISN | | 0759 | 47.88 | 354 | -0.1 | 127 | | |

| | | | | | | | | | |
|-----|----|-----|------|-------|-----|------|-----|----|-----|
| SRN | SZ | IPN | 0759 | 36.81 | 188 | -0.1 | 155 | 43 | 3.0 |
| SRN | SE | ISN | 0759 | 57.16 | 188 | 0.2 | 155 | | |

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

2013 5 12 0018 48.08

GAP= hor,err=KM

ver,err=KM

| | | | | | | | | | | |
|------|----|--------|---|------|-------|-------|-----|-----|-----|----|
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
| TIR | SZ | IPG | | 0018 | 48.08 | | | | | |
| TIR | SE | ISG | | 0018 | 54.06 | | | | | |

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

2013 5 12 0012 57.74

GAP= hor,err=KM

SOUTH IRAN

ver,err=KM

| | | | | | | | | | | |
|------|----|--------|---|------|-------|-------|-----|-----|-----|----|
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
| TPE | SZ | IPN | | 0013 | 44.74 | | | | | |
| SRN | SZ | IPN | | 0013 | 43.92 | | | | | |
| TIR | SZ | IPN | | 0013 | 48.00 | | | | | |
| VLO | SZ | IPN | | 0013 | 48.20 | | | | | |
| PUK | SZ | IPN | | 0013 | 49.02 | | | | | |
| BCI | SZ | IPN | | 0013 | 49.83 | | | | | |

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

2013 5 15 1454 53.67 41.44 19.53 6 ASN 5 0.2 3.6

GAP=176 hor,err=1KM

DURRES

-ALBANIA

| | | | | | | | | | | |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
| TIR | SZ | IPG | | 1454 | 59.15 | 112 | 0.0 | 29 | 70 | 3.5 |
| TIR | SE | ISG | | 1455 | 03.81 | 112 | 0.0 | 29 | | |
| VLO | SZ | IPG | | 1455 | 13.26 | 182 | 0.0 | 108 | 63 | 3.5 |
| VLO | SE | ISG | | 1455 | 27.50 | 182 | 0.0 | 108 | | |
| BCI | SZ | IPG | | 1455 | 13.55 | 23 | 0.1 | 111 | 66 | 3.5 |
| BCI | SE | ISG | | 1455 | 28.36 | 23 | -0.1 | 111 | | |
| TPE | SZ | IPN | | 1455 | 15.45 | 162 | -0.1 | 134 | 75 | 3.6 |
| TPE | SE | ISN | | 1455 | 35.15 | 162 | -0.1 | 134 | | |
| SRN | SZ | IPN | | 1455 | 22.76 | 167 | 0.1 | 178 | 66 | 3.6 |
| SRN | SE | ISN | | 1455 | 46.36 | 167 | 0.1 | 178 | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|------|---|----|------|---------|--------------|-------|-----|--------------|----|-----|----------|-----------|
| 2013 | 5 | 15 | 1502 | 40.28 | 41.43 | 19.47 | 11 | ASN | 5 | 0.1 | 3.8 | DURRES |
| | | | | GAP=176 | hor. err=1KM | | | ver. err=1KM | | | -ALBANIA | |

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| TIR | SZ | IPG | | 1502 | 46.41 | 106 | 0.0 | 32 | 97 | 3.8 |
| TIR | SE | ISG | | 1502 | 51.79 | 106 | 0.0 | 32 | | |
| VLO | SZ | IPG | | 1502 | 59.99 | 179 | 0.1 | 107 | 78 | 3.7 |
| VLO | SE | ISG | | 1503 | 13.98 | 179 | 0.0 | 107 | | |
| BCI | SZ | IPG | | 1503 | 00.47 | 25 | 0.0 | 114 | 71 | 3.6 |
| BCI | SE | ISG | | 1503 | 16.01 | 25 | -0.1 | 114 | | |
| TPE | SZ | IPN | | 1503 | 02.96 | 160 | 0.1 | 134 | 87 | 3.8 |
| TPE | SE | ISN | | 1503 | 21.62 | 160 | 0.1 | 134 | | |
| SRN | SZ | IPN | | 1503 | 10.02 | 165 | 0.1 | 178 | 99 | 3.9 |
| SRN | SE | ISN | | 1503 | 33.21 | 165 | -0.1 | 178 | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|------|----|--------|------|-------|-------------|-------|-----|-------------|-----|-----|-----|-----------|
| 2013 | 5 | 15 | 1533 | 46.19 | | | | | | | | |
| | | | | GAP= | hor. err=KM | | | ver. err=KM | | | | |
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md | | |
| TIR | SZ | IPG | | 1533 | 46.19 | | | | | | | |
| TIR | SE | ISG | | 1533 | 51.68 | | | | | | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|------|----|--------|------|-------|-------------|-------|-----|-------------|-----|-----|-----|-----------|
| 2013 | 5 | 15 | 1558 | 09.88 | | | | | | | | |
| | | | | GAP= | hor. err=KM | | | ver. err=KM | | | | |
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md | | |
| TIR | SZ | IPG | | 1558 | 09.88 | | | | | | | |
| TIR | SE | ISG | | 1558 | 13.70 | | | | | | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|------|---|----|------|---------|--------------|-------|-----|--------------|----|-----|----------|-----------|
| 2013 | 5 | 15 | 1711 | 43.68 | 41.42 | 19.53 | 13 | ASN | 5 | 0.1 | 3.5 | DURRES |
| | | | | GAP=200 | hor. err=2KM | | | ver. err=1KM | | | -ALBANIA | |

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| TIR | SZ | IPG | | 1711 | 49.19 | 107 | 0.0 | 29 | 65 | 3.5 |
| TIR | SE | ISG | | 1711 | 54.25 | 107 | -0.1 | 29 | | |
| VLO | SZ | IPG | | 1712 | 02.84 | 182 | 0.1 | 106 | 45 | 3.2 |

| | | | | | | | | | |
|-----|----|-----|------|-------|-----|------|-----|----|-----|
| VLO | SE | ISG | 1712 | 16.79 | 182 | 0.0 | 106 | | |
| BCI | SZ | IPG | 1712 | 03.48 | 22 | 0.1 | 113 | 65 | 3.5 |
| BCI | SE | ISG | 1712 | 18.79 | 22 | 0.1 | 113 | | |
| TPE | SZ | IPN | 1712 | 06.31 | 162 | 0.1 | 132 | 68 | 3.6 |
| TPE | SE | ISN | 1712 | 23.79 | 162 | -0.1 | 132 | | |
| SRN | SZ | IPN | 1712 | 12.90 | 166 | -0.1 | 176 | 69 | 3.6 |
| SRN | SE | ISN | 1712 | 35.01 | 166 | -0.1 | 176 | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|---------|---|----|------|-------|-------|-------------|-----|-----|----|-----|-----|-----------|
| 2013 | 5 | 15 | 1828 | 51.93 | 40.28 | 19.84 | 5 | ASN | 3 | 0.1 | 2.3 | TEPELENE |
| GAP=256 | | | | | | hor,err=2KM | | | | | | -ALBANIA |

| | | | | | | | | | | |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
| TPE | SZ | IPG | | 1828 | 53.98 | 77 | 0.0 | 13 | 19 | 2.3 |
| TPE | SE | ISG | | 1828 | 56.64 | 77 | -0.1 | 13 | | |
| VLO | SZ | IPG | | 1828 | 59.32 | 307 | 0.0 | 37 | 19 | 2.3 |
| VLO | SE | ISG | | 1829 | 05.17 | 307 | 0.0 | 37 | | |
| SRN | SZ | IPG | | 1828 | 59.87 | 163 | 0.1 | 44 | 19 | 2.3 |
| SRN | SE | ISG | | 1829 | 07.28 | 163 | 0.0 | 44 | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|---------|---|----|------|-------|-------|-------------|-----|-----|----|-----|-----|--------------|
| 2013 | 5 | 15 | 2014 | 18.80 | 41.27 | 19.44 | 12 | ASN | 3 | 0.2 | 2.6 | ADRIATIC SEA |
| GAP=305 | | | | | | hor,err=1KM | | | | | | |

| | | | | | | | | | | |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
| TIR | SZ | IPG | | 2014 | 25.73 | 27 | -0.1 | 35 | 25 | 2.6 |
| TIR | SE | ISG | | 2014 | 30.60 | 27 | 0.1 | 35 | | |
| PUK | SZ | IPG | | 2014 | 35.11 | 23 | 0.1 | 92 | 25 | 2.6 |
| PUK | SE | ISG | | 2014 | 47.55 | 23 | -0.1 | 92 | | |
| BCI | SZ | IPG | | 2014 | 42.06 | 22 | -0.1 | 131 | 26 | 2.6 |
| BCI | SE | ISG | | 2014 | 59.65 | 22 | 0.1 | 131 | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|---------|---|----|------|-------|-------|-------------|-----|-----|----|-----|-----|-----------------|
| 2013 | 5 | 17 | 2043 | 15.61 | 40.25 | 20.00 | 3 | ASN | 6 | 0.1 | 3.3 | BENÇE, TEPELENE |
| GAP=121 | | | | | | hor,err=1KM | | | | | | -ALBANIA |

| | | | | | | | | | | |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
| TPE | SZ | IPG | | 2043 | 15.77 | 54 | 0.0 | 5 | 50 | 3.3 |
| TPE | SE | ISG | | 2043 | 16.52 | 54 | -0.1 | 5 | | |
| SRN | SZ | IPG | | 2043 | 23.24 | 177 | -0.1 | 44 | 51 | 3.3 |
| SRN | SE | ISG | | 2043 | 30.93 | 177 | -0.1 | 44 | | |
| VLO | SZ | IPG | | 2043 | 23.69 | 298 | 0.0 | 46 | 45 | 3.2 |

| | | | | | | | | | |
|-----|----|-----|------|-------|-----|------|-----|----|-----|
| VLO | SE | ISG | 2043 | 32.44 | 298 | 0.0 | 46 | | |
| TIR | SZ | IPG | 2043 | 39.00 | 356 | 0.0 | 119 | 65 | 3.5 |
| TIR | SE | ISG | 2043 | 54.69 | 356 | -0.1 | 119 | | |
| PHP | SZ | IPN | 2043 | 43.55 | 13 | 0.1 | 161 | 65 | 3.5 |
| PHP | SE | ISN | 2044 | 06.18 | 13 | 0.0 | 161 | | |
| BCI | SZ | IPN | 2043 | 54.77 | 1 | -0.1 | 232 | 65 | 3.5 |
| BCI | SE | ISN | 2044 | 24.12 | 1 | -0.1 | 232 | | |

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

2013 5 17 2354 59.59

GAP= hor,err=KM

ver,err=KM

| | | | | | | | | | | |
|------|----|--------|---|------|-------|-------|-----|-----|-----|----|
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
| TPE | SZ | IPG | | 2354 | 59.59 | | | | | |
| TPE | SE | ISG | | 2355 | 00.35 | | | | | |

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

2013 5 18 0008 07.52

GAP= hor,err=KM

ver,err=KM

| | | | | | | | | | | |
|------|----|--------|---|------|-------|-------|-----|-----|-----|----|
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
| TPE | SZ | IPG | | 0008 | 07.52 | | | | | |
| TPE | SE | ISG | | 0008 | 08.28 | | | | | |

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

2013 5 18 0127 47.56

GAP= hor,err=KM

ver,err=KM

| | | | | | | | | | | |
|------|----|--------|---|------|-------|-------|-----|-----|-----|----|
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
| TPE | SZ | IPG | | 0127 | 47.56 | | | | | |
| TPE | SE | ISG | | 0127 | 48.22 | | | | | |

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

2013 5 18 0405 44.01

GAP= hor,err=KM

ver,err=KM

| | | | | | | | | | | |
|------|----|--------|---|------|-------|-------|-----|-----|-----|----|
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
| TPE | SZ | IPG | | 0405 | 44.01 | | | | | |
| TPE | SE | ISG | | 0405 | 45.80 | | | | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter | |
|------|----|--------|------|-------|-------------|-------|-----|-------------|----|-----|-----|-----------|--|
| 2013 | 5 | 18 | 0407 | 35.15 | | | | | | | | | |
| GAP= | | | | | hor. err=KM | | | ver. err=KM | | | | | |
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | | | | | DUR | |
| TPE | SZ | IPG | | 0407 | 35.15 | | | | | | | Md | |
| TPE | SE | ISG | | 0407 | 35.95 | | | | | | | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter | |
|------|----|--------|------|-------|-------------|-------|-----|-------------|----|-----|-----|-----------|--|
| 2013 | 5 | 18 | 0507 | 27.69 | | | | | | | | | |
| GAP= | | | | | hor. err=KM | | | ver. err=KM | | | | | |
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | | | | | DUR | |
| TPE | SZ | IPG | | 0507 | 27.69 | | | | | | | Md | |
| TPE | SE | ISG | | 0507 | 28.35 | | | | | | | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter | |
|---------|----|--------|------|-------|--------------|-------|------|--------------|----|-----|-----|------------|----------|
| 2013 | 5 | 18 | 0832 | 48.31 | 40.16 | 19.88 | 18 | ASN | 3 | 0.1 | 2.6 | KUÇ, VLORE | |
| GAP=234 | | | | | hor. err=3KM | | | ver. err=2KM | | | | | -ALBANIA |
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | | | | | DUR | |
| TPE | SZ | IPG | | 0832 | 53.35 | 36 | 0.0 | | | | | Md | |
| TPE | SE | ISG | | 0832 | 56.48 | 36 | 0.0 | | | | | 2.6 | |
| SRN | SZ | IPG | | 0832 | 54.91 | 162 | 0.1 | | | | | 2.6 | |
| SRN | SE | ISG | | 0833 | 00.41 | 162 | -0.1 | | | | | | |
| IGT | SZ | IPG | | 0833 | 02.03 | 152 | 0.0 | | | | | 80 | |
| IGT | SE | ISG | | 0833 | 13.46 | 152 | 0.1 | | | | | 80 | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter | |
|---------|----|--------|------|-------|--------------|-------|------|--------------|----|-----|-----|-----------|--|
| 2013 | 5 | 18 | 2214 | 25.91 | 41.03 | 21.24 | 10 | ASN | 4 | 0.4 | 2.9 | MACEDONIA | |
| GAP=199 | | | | | hor. err=2KM | | | ver. err=2KM | | | | | |
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | | | | | DUR | |
| FNA | SZ | IPG | | 2214 | 32.39 | 157 | 0.2 | | | | | Md | |
| FNA | SE | ISG | | 2214 | 36.13 | 157 | 0.3 | | | | | | |
| PHP | SZ | IPG | | 2214 | 43.09 | 318 | -0.3 | | | | | 2.8 | |
| PHP | SE | ISG | | 2214 | 56.62 | 318 | 0.1 | | | | | | |
| PUK | SZ | IPN | | 2214 | 53.02 | 316 | 0.3 | | | | | 2.9 | |
| PUK | SE | ISN | | 2215 | 14.02 | 316 | -0.4 | | | | | | |
| SRN | SZ | IPN | | 2214 | 54.82 | 220 | 0.2 | | | | | 31 | |
| SRN | SE | ISN | | 2215 | 15.01 | 220 | 0.4 | | | | | 2.9 | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|---------|---|----|------|-------|-------------|-------|-----|-----|----|-------------|-----|------------|
| 2013 | 5 | 19 | 0157 | 38.49 | 43.42 | 18.97 | 10 | ASN | 3 | 0.3 | 2.8 | MONTENEGRO |
| GAP=148 | | | | | hor.err=2KM | | | | | ver.err=4KM | | |

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| BCI | SZ | IPN | | 0158 | 03.48 | 142 | 0.2 | 142 | 29 | 2.8 |
| BCI | SE | ISN | | 0158 | 23.11 | 142 | 0.3 | 142 | | |
| PUK | SZ | IPN | | 0158 | 05.96 | 153 | -0.3 | 171 | 30 | 2.8 |
| PUK | SE | ISN | | 0158 | 30.01 | 153 | 0.3 | 171 | | |
| PHP | SZ | IPN | | 0158 | 14.69 | 147 | 0.2 | 227 | 30 | 2.8 |
| PHP | SE | ISN | | 0158 | 44.31 | 147 | -0.1 | 227 | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|---------|---|----|------|-------|-------------|-------|-----|-----|----|-------------|-----|-----------|
| 2013 | 5 | 19 | 0855 | 46.00 | 41.45 | 20.48 | 7 | ASN | 3 | 0.3 | 2.7 | MACEDONIA |
| GAP=142 | | | | | hor.err=1KM | | | | | ver.err=1KM | | |

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| PHP | SZ | IPG | | 0855 | 51.20 | 352 | 0.2 | 25 | 26 | 2.7 |
| PHP | SE | ISG | | 0855 | 55.30 | 352 | -0.3 | 25 | | |
| TIR | SZ | IPG | | 0855 | 56.20 | 258 | 0.3 | 53 | 27 | 2.7 |
| TIR | SE | ISG | | 0856 | 04.20 | 258 | 0.1 | 53 | | |
| FNA | SZ | IPN | | 0856 | 05.10 | 134 | 0.2 | 106 | | |
| FNA | SE | ISN | | 0856 | 19.20 | 134 | 0.1 | 106 | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|---------|---|----|------|-------|-------------|-------|-----|-----|----|-------------|-----|-----------|
| 2013 | 5 | 20 | 1927 | 38.83 | 41.01 | 20.96 | 3 | ASN | 3 | 0.3 | 2.9 | MACEDONIA |
| GAP=168 | | | | | hor.err=2KM | | | | | ver.err=2KM | | |

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| PHP | SZ | IPG | | 1927 | 47.54 | 330 | 0.1 | 85 | 33 | 2.9 |
| PHP | SE | ISG | | 1927 | 53.49 | 330 | -0.1 | 85 | | |
| TIR | SZ | IPG | | 1927 | 53.56 | 293 | -0.1 | 98 | 33 | 2.9 |
| TIR | SE | ISG | | 1928 | 05.63 | 293 | -0.1 | 98 | | |
| BCI | SZ | IPN | | 1927 | 56.25 | 334 | 0.1 | 167 | | |
| BCI | SE | ISN | | 1298 | 09.76 | 334 | 0.1 | 167 | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|---------|---|----|------|-------|-------------|-------|-----|-----|----|-------------|-----|------------|
| 2013 | 5 | 21 | 2255 | 00.42 | 43.10 | 18.71 | 6 | ASN | 4 | 0.5 | 3.7 | MONTENEGRO |
| GAP=324 | | | | | hor.err=1KM | | | | | ver.err=5KM | | |

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| BCI | SZ | IPN | | 2255 | 24.53 | 116 | 0.1 | 138 | 73 | 3.7 |
| BCI | SE | ISN | | 2255 | 43.19 | 116 | 0.1 | 138 | | |
| PHP | SZ | IPN | | 2255 | 37.46 | 137 | 0.1 | 212 | 73 | 3.7 |
| PHP | SE | ISN | | 2256 | 05.44 | 137 | -0.1 | 212 | | |
| TIR | SZ | IPN | | 2255 | 37.61 | 153 | -0.1 | 217 | 73 | 3.7 |
| TIR | SE | ISN | | 2256 | 08.56 | 153 | -0.1 | 217 | | |
| SRN | SZ | IPN | | 2255 | 57.14 | 162 | 0.2 | 337 | | |
| SRN | SE | ISN | | 2256 | 41.12 | 162 | -0.2 | 337 | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|---------|---|----|------|-------|-------------|-------|-----|-------------|----|-----|-----|------------|
| 2013 | 5 | 22 | 0535 | 49.92 | 43.24 | 18.85 | 4 | ASN | 3 | 0.4 | 3.3 | MONTENEGRO |
| GAP=347 | | | | | hor,err=6KM | | | ver,err=7KM | | | | |

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| BCI | SZ | IPN | | 0536 | 10.65 | 138 | 0.1 | 134 | 39 | 3.1 |
| BCI | SE | ISN | | 0536 | 29.79 | 138 | 0.1 | 134 | | |
| PUK | SZ | IPN | | 0536 | 12.90 | 174 | 0.1 | 158 | 39 | 3.1 |
| PUK | SE | ISN | | 0536 | 35.49 | 174 | -0.1 | 158 | | |
| PHP | SZ | IPN | | 0536 | 23.76 | 142 | 0.2 | 216 | 39 | 3.1 |
| PHP | SE | ISN | | 0536 | 51.66 | 142 | -0.2 | 216 | | |

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| SRN | SZ | IPN | | 1409 | 30.63 | 349 | 0.1 | 138 | 195 | 4.9 |
| SRN | SE | ISN | | 1409 | 48.71 | 349 | 0.1 | 138 | | |
| TPE | SZ | IPN | | 1409 | 36.87 | 352 | 0.1 | 183 | 195 | 4.9 |
| TPE | SE | ISN | | 1409 | 56.11 | 352 | -0.1 | 183 | | |
| VLO | SZ | IPN | | 1409 | 42.35 | 341 | 0.1 | 213 | 195 | 4.9 |
| VLO | SE | ISN | | 1410 | 11.31 | 341 | -0.1 | 213 | | |
| SCTE | SZ | IPN | | 1409 | 41.68 | 316 | 0.1 | 225 | | |
| SCTE | SE | ISN | | 1410 | 04.58 | 316 | -0.1 | 225 | | |
| TIR | SZ | IPN | | 1409 | 51.26 | 355 | 0.1 | 301 | 181 | 5 |
| TIR | SE | ISN | | 1410 | 26.15 | 355 | -0.2 | 301 | | |
| PHP | SZ | IPN | | 1409 | 55.58 | 222 | 0.2 | 336 | 182 | 5 |
| PHP | SE | ISN | | 1410 | 32.25 | 222 | -0.2 | 336 | | |
| BCI | SZ | IPN | | 1410 | 05.28 | 357 | -0.2 | 312 | | |
| BCI | SE | ISN | | 1410 | 49.59 | 357 | -0.2 | 312 | | |

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

2013 5 24 2112 06.49 40.06 19.86 7 ASN 4 0.1 2.7 BORSH, SARANDE
GAP=124 hor.err=2KM ver,err=1KM -ALBANIA

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| SRN | SZ | IPG | | 2112 | 11.16 | 150 | 0.0 | 24 | 28 | 2.7 |
| SRN | SE | ISG | | 2112 | 14.37 | 150 | -0.1 | 24 | | |
| TPE | SZ | IPG | | 2112 | 12.31 | 26 | 0.0 | 28 | 28 | 2.7 |
| TPE | SE | ISG | | 2112 | 16.30 | 26 | -0.1 | 28 | | |
| SCTE | SZ | IPG | | 2112 | 28.08 | 271 | 0.0 | 119 | | |
| SCTE | SE | ISG | | 2112 | 43.39 | 271 | 0.1 | 119 | | |
| TIR | SZ | IPN | | 2112 | 32.99 | 22 | 0.1 | 142 | 29 | 2.7 |
| TIR | SE | ISN | | 2112 | 52.11 | 22 | -0.1 | 142 | | |

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter
2013 5 25 0608 49.76 41.30 19.41 24 ASN 5 0.1 2.9 ADRIATIC SEA
GAP=173 hor,err=1KM ver,err=2KM

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| TIR | SZ | IPG | | 0608 | 57.28 | 83 | 0.0 | 38 | 27 | 2.7 |
| TIR | SE | ISG | | 0609 | 03.58 | 83 | -0.1 | 38 | | |
| PUK | SZ | IPG | | 0609 | 05.59 | 25 | 0.1 | 91 | 28 | 2.7 |
| PUK | SE | ISG | | 0609 | 18.35 | 25 | 0.1 | 91 | | |
| PHP | SZ | IPG | | 0609 | 06.68 | 63 | 0.1 | 95 | 35 | 3 |
| PHP | SE | ISG | | 0609 | 18.59 | 63 | 0.1 | 95 | | |
| BCI | SZ | IPG | | 0609 | 11.47 | 24 | 0.1 | 130 | 36 | 3 |
| BCI | SE | ISG | | 0609 | 28.70 | 24 | -0.1 | 130 | | |
| SCTE | SZ | IPG | | 0609 | 17.89 | 121 | 0.1 | 158 | | |
| SCTE | SE | ISG | | 0609 | 38.69 | 121 | -0.1 | 158 | | |

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter
2013 5 26 0233 33.14 41.10 21.37 3 ASN 4 0.3 2.9 MACEDONIA
GAP=256 hor,err=4KM ver,err=7KM

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| PHP | SZ | IPG | | 0233 | 32.45 | 315 | 0.1 | 97 | 30 | 2.9 |
| PHP | SE | ISG | | 0233 | 45.46 | 315 | 0.2 | 97 | | |
| TIR | SZ | IPG | | 0233 | 37.58 | 284 | -0.2 | 122 | 30 | 2.9 |
| TIR | SE | ISG | | 0233 | 52.69 | 284 | -0.1 | 122 | | |
| PUK | SZ | IPN | | 0233 | 45.36 | 312 | 0.1 | 157 | | |
| PUK | SE | ISN | | 0233 | 04.45 | 312 | 0.2 | 157 | | |
| BCI | SZ | IPN | | 0233 | 45.89 | 306 | -0.2 | 174 | | |
| BCI | SE | ISN | | 0233 | 09.56 | 306 | -0.1 | 174 | | |

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

2013 5 26 1950 22.40 41.24 20.11 10 ASN 5 0.2 3
 GAP=160 hor,err=4KM ver,err=1KM ELBASAN
 -ALBANIA

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| TIR | SZ | IPG | | 1950 | 27.17 | 300 | 0.0 | 24 | 24 | 2.5 |
| TIR | SE | ISG | | 1950 | 32.23 | 300 | -0.1 | 24 | | |
| PHP | SZ | IPG | | 1950 | 32.90 | 28 | 0.0 | 50 | 32 | 2.9 |
| PHP | SE | ISG | | 1950 | 42.90 | 28 | 0.0 | 50 | | |
| VLO | SZ | IPG | | 1950 | 40.92 | 292 | 0.1 | 100 | 37 | 3 |
| VLO | SE | ISG | | 1950 | 55.23 | 292 | 0.1 | 100 | | |
| BCI | SZ | IPN | | 1950 | 44.55 | 359 | -0.1 | 125 | | |
| BCI | SE | ISN | | 1951 | 02.75 | 359 | -0.1 | 125 | | |
| SRN | SZ | IPN | | 1950 | 47.93 | 184 | -0.1 | 151 | 41 | 3.1 |
| SRN | SE | ISN | | 1951 | 08.83 | 184 | -0.1 | 151 | | |

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter
 2013 5 27 0328 54.59 42.10 19.59 20 ASN 4 0.1 2.9 SHKODER
 GAP=248 hor,err=1KM ver,err=1KM -ALBANIA

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| PUK | SZ | IPG | | 0329 | 00.41 | 127 | 0.0 | 25 | 31 | 2.9 |
| PUK | SE | ISG | | 0329 | 04.28 | 127 | 0.1 | 25 | | |
| BCI | SZ | IPG | | 0329 | 03.94 | 257 | -0.1 | 41 | 30 | 2.9 |
| BCI | SE | ISG | | 0329 | 11.82 | 257 | -0.1 | 41 | | |
| PHP | SZ | IPG | | 0329 | 09.26 | 348 | 0.0 | 84 | 31 | 2.9 |
| PHP | SE | ISG | | 0329 | 20.90 | 348 | 0.1 | 84 | | |
| TIR | SZ | IPG | | 0329 | 10.42 | 228 | 0.1 | 86 | | |
| TIR | SE | ISG | | 0329 | 22.17 | 228 | -0.1 | 86 | | |

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter
 2013 5 27 1833 38.13 41.80 21.00 6 ASN 3 0.1 2.8 MACEDONI
 GAP=293 hor,err=2KM ver,err=1KM

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| PHP | SZ | IPG | | 1833 | 41.35 | 251 | -0.1 | 49 | 27 | 2.8 |
| PHP | SE | ISG | | 1833 | 52.53 | 251 | 0.1 | 49 | | |
| BCI | SZ | IPG | | 1833 | 55.83 | 314 | 0.1 | 96 | 28 | 2.8 |
| BCI | SE | ISG | | 1834 | 09.26 | 314 | 0.1 | 96 | | |
| TIR | SZ | IPG | | 1833 | 57.04 | 240 | 0.1 | 106 | | |
| TIR | SE | ISG | | 1834 | 11.51 | 240 | -0.1 | 106 | | |

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

2013 5 28 0628 27.19 40.24 19.55 7 ASN 4 0.1 2.7 DUKAT, VLORE
GAP=123 hor,err=2KM ver,err=1KM -ALBANIA

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| VLO | SZ | IPG | | 0628 | 31.38 | 350 | 0.0 | 25 | 24 | 2.4 |
| VLO | SE | ISG | | 0628 | 36.43 | 350 | 0.1 | 25 | | |
| TPE | SZ | IPG | | 0628 | 33.40 | 39 | -0.1 | 39 | 34 | 2.9 |
| TPE | SE | ISG | | 0628 | 40.05 | 39 | -0.1 | 39 | | |
| SRN | SZ | IPG | | 0628 | 31.52 | 55 | 0.0 | 55 | 28 | 2.7 |
| SRN | SE | ISG | | 0628 | 45.51 | 55 | 0.1 | 55 | | |
| SCTE | SZ | IPG | | 0628 | 43.96 | 94 | -0.1 | 94 | | |
| SCTE | SE | ISG | | 0628 | 56.55 | 94 | -0.1 | 94 | | |

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter
2013 5 28 1944 15.28 42.48 20.05 6 ASN 2 0.1 1.9 DRAGOBI, B.CURI
GAP=339 hor,err=6KM ver,err=8KM -ALBANIA

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|-----|-----|-----|-----|
| BCI | SZ | IPG | | 1944 | 18.62 | 175 | 0.0 | 13 | 9 | 1.9 |
| BCI | SE | ISG | | 1944 | 20.18 | 175 | 0.0 | 13 | | |
| PUK | SZ | IPG | | 1944 | 24.81 | 196 | 0.0 | 51 | 9 | 1.9 |
| PUK | SE | ISG | | 1944 | 33.12 | 196 | 0.1 | 51 | | |

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter
2013 5 28 1958 38.56 39.84 20.73 2 ASN 5 0.4 3.5 GREECE
GAP=307 hor,err=4KM ver,err=7KM

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| IGT | SZ | IPG | | 1958 | 45.45 | 226 | 0.1 | 49 | | |
| IGT | SE | ISG | | 1958 | 54.78 | 226 | 0.1 | 49 | | |
| SRN | SZ | IPG | | 1958 | 48.66 | 275 | 0.1 | 63 | 65 | 3.5 |
| SRN | SE | ISG | | 1958 | 57.89 | 275 | -0.1 | 63 | | |
| TPE | SZ | IPG | | 1958 | 51.05 | 310 | 0.1 | 79 | 66 | 3.5 |
| TPE | SE | ISG | | 1959 | 05.16 | 310 | -0.1 | 79 | | |
| VLO | SZ | IPN | | 1959 | 00.01 | 184 | -0.1 | 126 | 66 | 3.5 |
| VLO | SE | ISN | | 1959 | 20.56 | 184 | -0.1 | 126 | | |
| TIR | SZ | IPN | | 1959 | 10.48 | 304 | 0.1 | 182 | | |
| TIR | SE | ISN | | 1959 | 35.14 | 304 | -0.2 | 182 | | |

Y M D HM Sec Lat Long Dep Net Nr Rms Mag Epicenter
2013 5 28 2039 12.05 39.75 20.71 3 ASN 4 0.3 3 GREECE
GAP=318 hor,err=4KM ver,err=4KM

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|----|
| IGT | SZ | IPN | | 2039 | 21.01 | 234 | 0.1 | 41 | | |
| IGT | SE | ISN | | 2039 | 27.45 | 234 | -0.1 | 41 | | |
| SRN | SZ | IPN | | 2039 | 24.66 | 283 | -0.1 | 62 | 38 | 3 |
| SRN | SE | ISN | | 2039 | 33.27 | 283 | -0.1 | 62 | | |
| TPE | SZ | IPN | | 2039 | 26.88 | 315 | 0.1 | 85 | 37 | 3 |
| TPE | SE | ISN | | 2039 | 41.33 | 315 | 0.1 | 85 | | |
| FNA | SZ | IPN | | 2039 | 29.82 | 16 | 0.1 | 127 | | |
| FNA | SE | ISN | | 2039 | 53.08 | 16 | 0.1 | 127 | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|------|---|----|------|-------|--------------|-------|-----|-----|----|--------------|-----|-------------|
| 2013 | 5 | 29 | 2247 | 39.24 | 43.32 | 18.83 | 7 | ASN | 4 | 0.1 | 3.4 | MONTE NEGRO |
| | | | | | hor. err=1KM | | | | | ver. err=2KM | | |

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| BCI | SZ | IPN | | 2248 | 04.80 | 136 | 0.1 | 146 | 63 | 3.6 |
| BCI | SE | ISN | | 2248 | 22.42 | 136 | -0.1 | 146 | | |
| PUK | SZ | IPN | | 2248 | 07.74 | 148 | 0.1 | 166 | 51 | 3.3 |
| PUK | SE | ISN | | 2248 | 24.86 | 148 | 0.2 | 166 | | |
| PHP | SZ | IPN | | 2248 | 18.47 | 143 | -0.1 | 224 | 57 | 3.5 |
| PHP | SE | ISN | | 2248 | 45.51 | 143 | 0.2 | 224 | | |
| TIR | SZ | IPN | | 2248 | 19.12 | 158 | 0.2 | 235 | | |
| TIR | SE | ISN | | 2248 | 48.01 | 158 | -0.2 | 235 | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|------|---|----|------|-------|--------------|-------|-----|-----|----|--------------|-----|-----------|
| 2013 | 5 | 31 | 0443 | 15.45 | 41.13 | 20.13 | 7 | ASN | 5 | 0.1 | 2.6 | ELBASAN |
| | | | | | hor. err=1KM | | | | | ver. err=2KM | | -ALBANIA |

| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md |
|------|----|--------|---|------|-------|-------|------|-----|-----|-----|
| TIR | SZ | IPG | | 0443 | 21.21 | 313 | 0.0 | 33 | 25 | 2.6 |
| TIR | SE | ISG | | 0443 | 26.88 | 312 | -0.1 | 33 | | |
| PHP | SZ | IPG | | 0443 | 27.26 | 22 | -0.1 | 66 | 25 | 2.6 |
| PHP | SE | ISG | | 0443 | 36.60 | 22 | 0.0 | 66 | | |
| PUK | SZ | IPG | | 0443 | 33.73 | 319 | 0.1 | 103 | 28 | 2.8 |
| PUK | SE | ISG | | 0443 | 48.17 | 319 | 0.0 | 103 | | |
| FNA | SZ | IPG | | 0443 | 35.67 | 109 | 0.0 | 112 | | |
| FNA | SE | ISG | | 0443 | 50.15 | 109 | -0.1 | 112 | | |
| BCI | SZ | IPN | | 0443 | 40.61 | 358 | -0.1 | 137 | 28 | 2.8 |
| BCI | SE | ISN | | 0443 | 58.97 | 358 | 0.1 | 137 | | |

TERMETE TE LARGET (LONG DISTANCE EARTHQUAKE)

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|------|----|--------|------|-------|------------|-------|-----|------------|-----|-----|-----|-----------|
| 2013 | 5 | 11 | 2105 | 42.10 | | | | | | | | TONGA |
| GAP= | | | | | hor.err=KM | | | ver.err=KM | | | | |
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md | | |
| BCI | SZ | IP | | 2106 | 21.32 | | | | | | | |
| TIR | SZ | IP | | 2106 | 22.68 | | | | | | | |
| TPE | SZ | IP | | 2106 | 24.04 | | | | | | | |
| VLO | SZ | IP | | 2106 | 24.59 | | | | | | | |
| SRN | SZ | IP | | 2106 | 24.04 | | | | | | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|------|----|--------|------|-------|------------|-------|------------|-----|-----|-----|-----|------------|
| 2013 | 5 | 18 | 1009 | 19.61 | | | | | | | | SOUTH IRAN |
| GAP= | | | | | hor.err=KM | | ver.err=KM | | | | | |
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md | | |
| TPE | SZ | IP | | 1010 | 04.85 | | | | | | | |
| SRN | SZ | IP | | 1010 | 04.58 | | | | | | | |
| TIR | SZ | IP | | 1010 | 14.11 | | | | | | | |
| PUK | SZ | IP | | 1010 | 01.12 | | | | | | | |
| BCI | SZ | IP | | 1010 | 04.25 | | | | | | | |

| Y | M | D | HM | Sec | Lat | Long | Dep | Net | Nr | Rms | Mag | Epicenter |
|---------|----|--------|------|-------|------------|-------|------------|-----|-----|-----|-----|-----------|
| 2013 | 5 | 24 | 0554 | 51.88 | 54.91 | 15.34 | 598 | | 7 | | 8.3 | SEA OF |
| OKHOTSK | | | | | hor.err=KM | | ver.err=KM | | | | | |
| STAT | SP | IPHASW | D | HRMM | SECON | AZIMU | RES | DIS | DUR | Md | | |
| PHP | SZ | IP | | 0555 | 34.40 | | | | | | | |
| BCI | SZ | IP | | 0555 | 34.87 | | | | | | | |
| PUK | SZ | IP | | 0555 | 34.71 | | | | | | | |
| TIR | SZ | IP | | 0555 | 40.06 | | | | | | | |
| TPE | SZ | IP | | 0555 | 47.06 | | | | | | | |
| VLO | SZ | IP | | 0555 | 50.58 | | | | | | | |
| SRN | SZ | IP | | 0555 | 54.69 | | | | | | | |

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

**MACROSEISMIC DESCRIPTION OF
EARTHQUAKES FELT IN OUR
COUNTRY**

Intensiteti i tërmetit në epiqendër I_0 është përcaktuar me formulën $I_0 = \text{_____}$. Intensiteti I në qytete është

përcaktuar nga informacioni i marrë mbi ndjeshmerinë e tërmetit nga emergjencat civile si dhe burime të tjera.

The epicentral Intensity of earthquake I_0 is determined by the formula $I_0 = \text{_____}$. 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 | 15.05.2013 | 14:54:37.9 | Epiqendra: 41.44V; 19.53L, 11 km në Veri të qytetit Durresit. Intensiteti i tërmetit në epiqendër $I_0 = \text{IV-V}$ balle Ndjerë: IV ballë ne qytetin e Durresit, III-IV ballë në qytetin e Tiranes. (Epicentre: 41.44N; 19.53E, 11 km North of Durresi town. Epicentral Intensity $I_0 = \text{IV-V}$. Felt: IV at Durresi town, III-IV at Tirana city |
| 2 | 15.05.2013 | 15:02:17.9 | Epiqendra: 41.47V; 19.43L, 12 km në Veri të qytetit Durresit. Intensiteti i tërmetit në epiqendër $I_0 = \text{V}$ balle Ndjerë: IV-V ballë ne qytetin e Durresit, IV ballë në qytetin e Tiranes dhe Kavajes. (Epicentre: 41.47N; 19.43E, 12 km North of Durresi town. Epicentral Intensity $I_0 = \text{V}$. Felt: IV – V at Durresi town, IV at Tirana and Kavaja city |
| 3 | 15.05.2013 | 17:11:15.4 | Epiqendra: 41.42V; 19.53L, 11 km në Veri të qytetit Durresit. Intensiteti i tërmetit në epiqendër $I_0 = \text{IV-V}$ balle Ndjerë: IV ballë ne qytetin e Durresit, III-IV ballë në qytetin e Tiranes. (Epicentre: 41.44N; 19.53E, 11 km North of Durresi town. Epicentral Intensity $I_0 = \text{IV-V}$. Felt: IV at Durresi town, III-IV at Tirana city Felt: IV – V at Durresi town, IV at Tirana and Kavaja city |
| 4 | 17.05.2013 | 20:43:52.4 | Epiqendra: 40.25V; 20.00L, 4 km në Jug-Perndim të |

| | | | |
|--|--|--|---|
| | | | qytetit Tepelenes. Intensiteti i tërmetit në epiqendër $I_0=IV$ balle Ndjerë: IV ballë ne qytetin e Tepelenes dhe Memaliaj. (Epicentre: 40.25N; 20.00E, 4 km South-West of Tepelena town. Epicentral Intensity $I_0=IV$. Felt: IV at Tepelenes and Memaliaj town) |
|--|--|--|---|

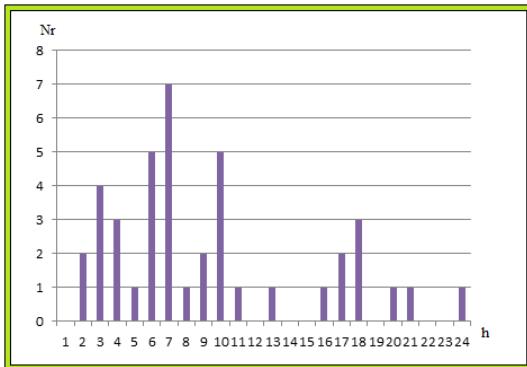
KATALOGU I TËRMETEVE MUJORE (THE MONTHLY EARTHQUAKE CATALOG)

| Data Date | Koha Time | Gjer. Lat | Gjat Long. | Thell. Depth (km) | Nr. St N. St | Gab Rms | Mag. (M_D) | Vendndodhja Location |
|----------------|--------------|--------------|---------------|-------------------------|-----------------|------------|-----------------|---------------------------|
| vvvv/mm/dd | hh:mm:ss | | | | | | | |
| 2013 5 3 0844 | 00.56 | 40.69 | 19.71 | 7 | 5 | 0.1 | 2.9 | ROSKOVEC-ALBANIA |
| 2013 5 3 1324 | 33.50 | 40.58 | 19.19 | 18 | 4 | 0.2 | 2.7 | ADRIATIC-SEA |
| 2013 5 3 1622 | 06.49 | 40.27 | 22.41 | 8 | 4 | 0.3 | 3.9 | GREECE |
| 2013 5 3 2114 | 50.23 | 40.94 | 20.23 | 21 | 4 | 0.1 | 2.8 | KABASHI, 7KM SOUTH-GRAMSH |
| 2013 5 4 1454 | 37.01 | 41.93 | 20.21 | 16 | 7 | 0.1 | 3.3 | KLOS, 21KM S-W KUKES |
| 2013 5 5 0559 | 32.15 | 40.62 | 19.63 | 9 | 4 | 0.1 | 2.7 | PATOS, FIER |
| 2013 5 5 1330 | 35.98 | 40.64 | 20.35 | 2 | 6 | 0.2 | 2.6 | 21KM EAST-POLICAN |
| 2013 5 5 1557 | 00.73 | 40.87 | 19.75 | 10 | 6 | 0.2 | 3.0 | 7KM S-E LUSHNJE |
| 2013 5 5 2312 | 18.20 | 20.15 | 19.86 | 17 | 3 | 0.2 | 1.8 | KUC, VLORE |
| 2013 5 6 0027 | 44.21 | 42.16 | 19.62 | 17 | 2 | 0.2 | 1.6 | 12KM N-E SHKODER |
| 2013 5 9 0230 | 11.10 | 40.90 | 19.86 | 18 | 6 | 0.4 | 3.2 | ZGJANE LUSHNJE |
| 2013 5 9 1304 | 03.50 | 42.46 | 20.11 | 9 | 3 | 0.1 | 2.6 | 12 KM NORTH B. CURRI |
| 2013 5 9 1953 | 48.04 | 39.33 | 20.19 | 7 | 3 | 0.1 | 2.7 | IONIAN SEA |
| 2013 5 10 0403 | 04.25 | 40.47 | 21.39 | 6 | 4 | 0.1 | 3.2 | GREECE |
| 2013 5 11 0759 | 08.22 | 41.27 | 20.22 | 4 | 6 | 0.3 | 3.1 | GURAKUQ, ELBASAN |
| 2013 5 15 1454 | 53.67 | 41.44 | 19.53 | 6 | 5 | 0.2 | 3.6 | 13KM VERI DURRES |
| 2013 5 15 1502 | 40.28 | 41.43 | 19.47 | 11 | 5 | 0.1 | 3.8 | 12 VERI DURRES |
| 2013 5 15 1711 | 43.68 | 41.42 | 19.53 | 13 | 5 | 0.1 | 3.5 | 12 VERI DURRES |
| 2013 5 15 1828 | 51.93 | 40.28 | 19.84 | 5 | 3 | 0.1 | 2.3 | 13KM PERENDIM TEPELENE |
| 2013 5 15 2014 | 18.80 | 41.27 | 19.44 | 12 | 3 | 0.2 | 2.6 | ADRIATIC SEA |
| 2013 5 17 2043 | 15.61 | 40.25 | 20.00 | 3 | 6 | 0.1 | 3.3 | BENÇE, TEPELENE |
| 2013 5 18 0832 | 48.31 | 40.16 | 19.88 | 18 | 3 | 0.1 | 2.6 | KUÇ, VLORE |
| 2013 5 18 2214 | 25.91 | 41.03 | 21.24 | 10 | 4 | 0.4 | 2.9 | MACEDONIA |
| 2013 5 19 0157 | 38.49 | 43.42 | 18.97 | 10 | 3 | 0.3 | 2.8 | MONTENEGRO |
| 2013 5 19 0855 | 46.00 | 41.45 | 20.48 | 7 | 3 | 0.3 | 2.7 | MACEDONIA |
| 2013 5 20 1927 | 38.83 | 41.01 | 20.96 | 3 | 3 | 0.3 | 2.9 | MACEDONIA |
| 2013 5 21 2255 | 00.42 | 43.10 | 18.71 | 6 | 4 | 0.5 | 3.7 | MONTENEGRO |
| 2013 5 22 0535 | 49.92 | 43.24 | 18.85 | 4 | 3 | 0.4 | 3.3 | MONTENEGRO |

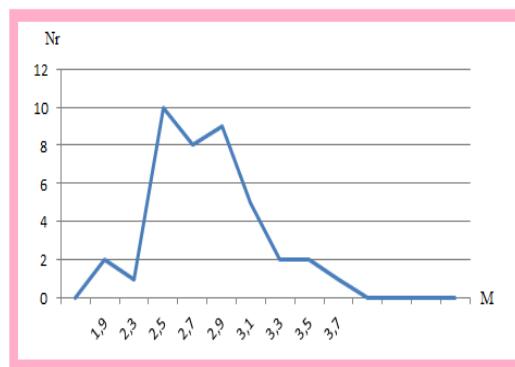
| | | | | | | | | | | | |
|------|---|----|------|-------|-------|-------|----|---|-----|-----|-----------------------------|
| 2013 | 5 | 24 | 1409 | 07.15 | 38.65 | 20.33 | 4 | 7 | 0.6 | 4.9 | GREECE |
| 2013 | 5 | 24 | 2112 | 06.49 | 40.06 | 19.86 | 7 | 4 | 0.1 | 2.7 | BORSH, SARANDE |
| 2013 | 5 | 25 | 0608 | 49.76 | 41.30 | 19.41 | 24 | 5 | 0.1 | 2.9 | ADRIATIC SEA, DURRES |
| 2013 | 5 | 26 | 0233 | 33.14 | 41.10 | 21.37 | 3 | 4 | 0.3 | 2.9 | MACEDONIA |
| 2013 | 5 | 26 | 1950 | 22.40 | 41.24 | 20.11 | 10 | 5 | 0.2 | 3 | 12KM VERI ELBASAN |
| 2013 | 5 | 27 | 0328 | 54.59 | 42.10 | 19.59 | 20 | 4 | 0.1 | 2.9 | 6KM N-E SHKODER |
| 2013 | 5 | 27 | 1833 | 38.13 | 41.80 | 21.00 | 6 | 3 | 0.1 | 2.8 | MACEDONI |
| 2013 | 5 | 28 | 0628 | 27.19 | 40.24 | 19.55 | 7 | 4 | 0.1 | 2.7 | DUKAT, VLORE |
| 2013 | 5 | 28 | 1944 | 15.28 | 42.48 | 20.05 | 6 | 2 | 0.1 | 1.9 | DRAGOBI, 14KM NORTH B. CURI |
| 2013 | 5 | 28 | 1958 | 38.56 | 39.84 | 20.73 | 2 | 5 | 0.4 | 3.5 | GREECE |
| 2013 | 5 | 28 | 2039 | 12.05 | 39.75 | 20.71 | 3 | 4 | 0.3 | 3 | GREECE |
| 2013 | 5 | 29 | 2247 | 39.24 | 43.32 | 18.83 | 7 | 4 | 0.1 | 3.4 | MONTENEGRO |
| 2013 | 5 | 31 | 0443 | 15.45 | 41.13 | 20.13 | 7 | 5 | 0.1 | 2.6 | ELBASAN |

STATISTIKA E NGJARJEVE SIZMIKE (STATISTICS OF SEISMIC EVENTS)

| Karakteristikat e pergjithshme (General Characteristics) | Vlerat (Data values) |
|---|-------------------------|
| ➤ Ngjarje sizmike të ndodhura në kuadratin (39-43 V; 18.5-21.5 L) | 34 |
| Events occurred within quadrant | |
| ➤ Ngjarje sizmike të ndodhura brenda kufijve shtetërore | 26 |
| Events occurred inside state boundaries | |
| ➤ Thellësia mesatare e ngjarjeve sizmike | 10 |
| Mean hypocenter depth | |
| ➤ Thellësia maksimale | 24 |
| Maximum hypocenter depth | |
| ➤ Magnituda lokale minimale e regjistruar | 1.6 |
| Minimum recorded local magnitude | |
| ➤ Magnituda lokale maksimale e regjistruar | 3.8 |
| 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)

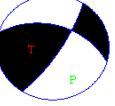
Zgjidhja e mekanizmit vatror (ZMV)

Për zgjidhen e mekanizmit të vatrues 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 zgjidjen 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 zgjidhen përfundimtare është përdorur programi FOCMEC (Snoke. et al., 1984), ndërsa për të optimizuar zgjidhen 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, which 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 read 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 parameters) | Magnituda (Magnitude) | Parametrat e Mekanizmit (Focal Mechanism parameters) | Tipi (Focal Type) |
|---------------------------------------|---|--------------------------|--|---|
| 2013.05.15.15:02 | 41.42 (N) 19.53 (E) 11 (km) | 3.8 | P1: 325, 5, 0 P2: 235, 90, 95 T: 320.02, 44.78 P: 149.98, 44.78 |  |
| 2013.05.17.20:43 | 40.25 (N) 20.00 (E) 3 (km) | 3.3 | P1: 33, 75, 48 P2: 287, 44.1, 158.2 T: 153.02, 18.94 P: 262.14, 43.68 |  |

Harta e epikendrave të tërmeteve

