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BULETINI SIZMOLOGJIK

Gusht 2015

Përpiloi:

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H Y R J E

Buletini sizmologjik përmban ngjarjet sizmike (tërmetet), e regjistruar, lokalizuar dhe analizuar gjatë periudhës kohore një-mujore. Përpos pasqyrimit kronologjik të aktivitetit sizmik të regjistruar, në territorin Shqipëtar dhe rreth tij, me anë të stacioneve të rrjetit sizmologjik shqipëtar, por edhe të rrjeteve fqinjë, periodiku përmban një analizë të gjithanëshme të parametrave të vlerësuar në drejtim të cilësisë së vlerësimit të tyre dhe statistikës së aktivitetit sizmik në vend. Përmbajtja e buletinit konsiston në terminologjinë përkatëse, në karakteristikat e stacioneve sizmologjik, të dhënat parametrike të vlerësuara nga analiza e çdo tërmeti, në analizën e cilësisë së vlerësimit të këtyre parametrave, në analizën e ngjarjeve të veçanta (M>4.0), nëse ka të tilla, si dhe në përpilimin e katalogut mujor dhe paraqitjen grafike në hartë, të epiqendrave të tërmeteve të lokalizuar. Në procesin e monitorim-regjistrimit dhe lokalizimit të ngjarve sizmike kontribuojnë drejtpërdrejt punonjësit ndihmës-shkencor (laborant): Ing. Ardian Minarolli, Ing. Ervin Kasaj dhe Ing. Olgert Gjuzi (Inxhinier Gjeolog/ Monitorues në Qendrën Kombëtare të Sizmologjisë). Në kontrollin dhe analizën e cilësisë së vlerësimit të të dhënave, në analizën statistikore, analizën e ngjarjeve (M>4.0), katalogimin dhe paraqitjen grafike në hartë si dhe përpilimin e këtij buletini, kontribuojnë punonjësit kërkues sizmolog, Prof. Asoc. Dr. Rrapo Ormeni dhe Dr. Edmond Dushi. Analiza e të dhënave kryhet me anë të programit Hypoinverse-2000 (Pakete rutinash në gjuhën Fortran), me autor Fred W Klein (2002) [*Referenca: Open File Report 02-171, v. 1.0, U. S. Geological Survey, 345 Middlefield Rd., MS#977, Menlo Park CA 94025; klein@usgs.gov*]. Ky program është baza llogaritëse e përdorur nga **Nanometrics** në programin interaktiv të përpunimit dhe lokalizimit të tërmeteve, në sistemin Libra 1, ATLAS (një ndërfaqe grafike në gjuhën Java). Të dhënat e përftuara ruhen ne formatet standart të Hypoinverse 2000, në skedarin hyp.prt dhe atë akiv, që shërbejnë edhe si baza për përpilimin e këtij buletini dhe analizës së kryer.

Briefing:

The seismological bulletin represents a reassume of the seismic events (earthquakes), occurred within Albania and surroundings for a period of one month. These events are permanently recorded, located and further processed by Albanian Seismological Network. This report, along with the chronologic ordering of events, contains a comprehensive analysis of the evaluated parameters as well as the quality of this process. It contains the description of output parameters, parametric data, statistical analysis and quality data analysis, catalogue and epicenter map. Contributing assistant stuff are: Eng. Ardian Minarolli, Eng. Ervin Kasaj, Eng. Olger Gjuzi (Geologists/Observers) and scientific stuff: Prof. Asoc. Dr. Rrapo Ormeni and Dr. Edmond Dushi (Seismologists). Program used for this analysis is Hyponverse 2000 (Klein, 2002; USGS), implicitly implemented in Atlas (Java Interface Nanometrics Firmware), part of Libra 1 VSAT system.

Stacionet Sizmikë (*Seismic Stations*)

A. Rrjeti Sizmologjik Shqipëtar (*Albanian Seismological Network, ASN*)

Të dhënat për këtë rrjet janë dhënë në **Tab. 1.**

3C – sensor të shpejtësisë me tre komponente regjistrimi (3 – component velocimeters)
BB – sensor me reagim frekuencial me bandë të gjerë, në intervalin e frekuencave të fushës sizmike $10^{-3} – 10^{2}$ Hz (Broadband sensors)
RT – regjistrim dhe tranmetim i të dhënave valore nga stacionet periferik në Qendrën Kombëtare të Monitorimit, në kohë reale (Real time comunication)

T0 – perioda vetjake e reagimit të sizmometrit (sensorit), mbi të cilën ai reagon linearisht si filtër i frekuencave të larta (High-Pass). Ky parametër është karakteristik për një tip të dhënë sensori (Sensor Natural Period)

Shënim: *të gjithë stacionet janë të regjistruar në regjistrin ndërkombëtar (WDC), ku identifikohen me kodin përkatës të përbërë nga 3-5 karaktere.*

Tab. 1 – Rrjeti Sizmologjik Shqipëtar (Albanian Seismological Network, ASN)

Kodi	Regjistruar (Po/Jo)	Gjer. Gjeo.	Gjat. Gjeo.	Lartesia	Tipi i stacionit	Sensori	Terheqja e Informacionit	Komunikimi	T0
Station Code	Registered (WDC)	Latitude (degree)	Longitude (degree)	Elev. (m)	Station type	Sensor type	Acquisition system	Comunication	Nat.l Period (s)
TIR	Po (Y)	41.3477	19.8650	198	3C-BB	STS-2	Libra VSAT (InterNaqs)	RT satellite	120
BCI	Po (Y)	42.3666	20.0675	500	3C-BB	CMG-40T	Libra VSAT	RT satellite	40
PHP	Po (Y)	41.6847	20.4408	670	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40
SDA	Po (Y)	42.0519	19.4986	80	3C-SP	SM-4	GBV-316	Dial-up	0.2
LACI	Po (Y)	41.6363	19.7094	40	3C-SP	SM-4	GBV-316	Dial-up	0.2
TPE	Po (Y)	40.2952	20.0109	240	3C-SP	SM-4	GBV-316	Dial-up	0.2
LSK	Po (Y)	40.1500	20.6000	920	3C-BB	CMG-40T	Libra VSAT	RT satellite	40
KBN	Po (Y)	40.6236	20.7874	800	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40
VLO	Po (Y)	40.4686	19.4955	80	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40
SRN	Po (Y)	39.8800	20.0005	20	3C-BB	Trillium 40T	Libra VSAT.	RT satellite	40
PUK	Po (Y)	42.0426	19.8926	900	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40
KKS	Po (Y)	42.0756	20.4113	300	3C-SP	SM-4	GBV-316	Dial-up	0.2

Rrjeti Sizmologjik Virtual (Virtual Seismological Network)

Tab. 2 – Rrjeti Sizmologjik Virtual - InterNaqs (INGV, AUTH)

Kodi	Regjistruar (Po/Jo)	Gjer. Gjeo.	Gjat. Gjeo.	Lartesia	Tipi i stacionit	Sensori	Terheqja e Informacionit	Komunikimi	T0
Station Code	Registered (WDC)	Latitude (degree)	Longitude (degree)	Elev. (m)	Station type	Sensor type	Acquisition system	Comunication	Nat.l Period (s)
MRVN	Po (Y)	41.0609	16.1958	610	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40
NOCI	Po (Y)	40.7888	17.0644	420	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40
SCTE	Po (Y)	40.0724	18.4675	150	3C-BB	Trillium 40T, 120S	Libra VSAT	RT satellite	40/120
SGRT	Po (Y)	41.7546	15.7437	960	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40
LKD2	Po (Y)	38.7889	20.6578	485	3C-BB	CMG-3ESP/100	Trident	RT	40
THE	Po (Y)	40.6319	22.9628	124	3C-BB	Trillium 120	Taurus	GPRS	120
NEST	Po (Y)	40.4147	21.0489	1056	3C-BB	Trillium 120	Taurus	GPRS	120
FNA	Po (Y)	40.7818	21.3835	750	3C-BB	CMG-3EPS/100	Trident	RT	40
IGT	Po (Y)	39.5315	20.3299	270	3C-BB	CMG-3EPS/100	HRD24	RT	40

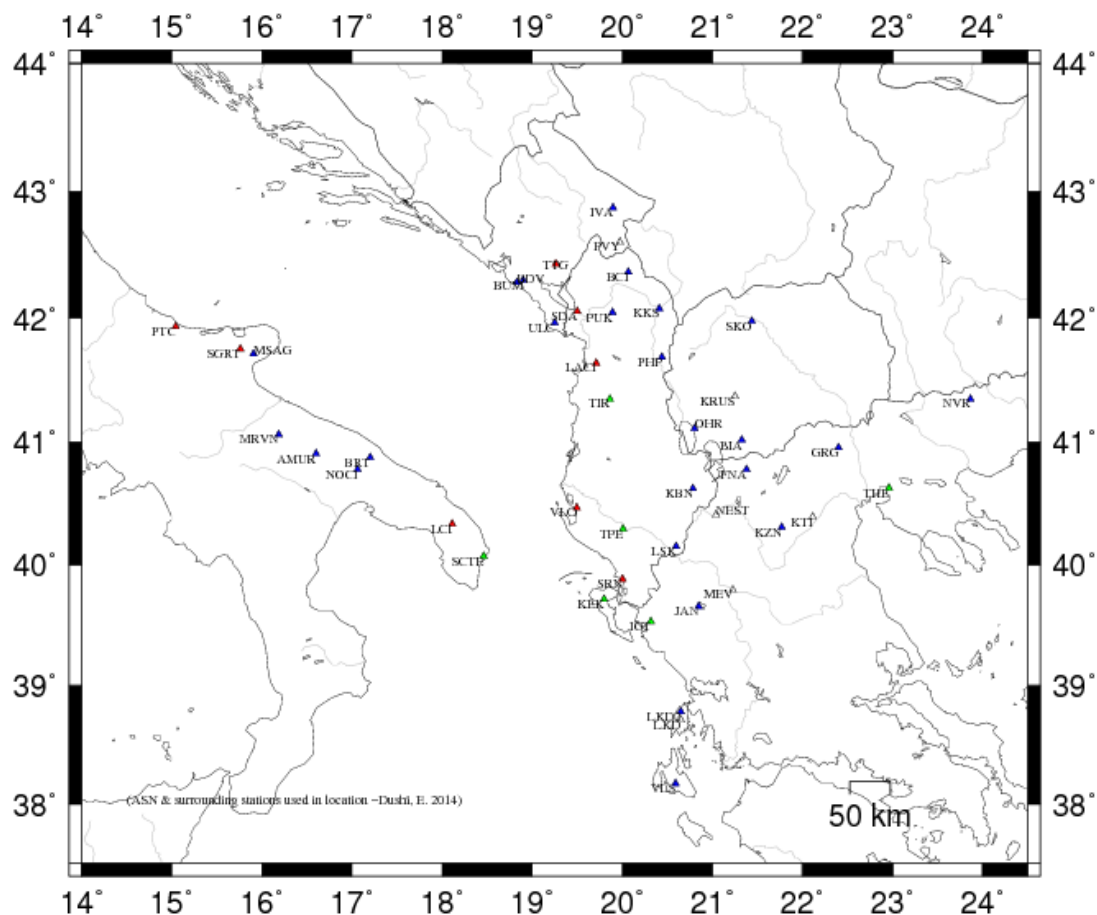## C. Rrjeti Sizmologjik Ndihmës (Auxilliary Network Stations)

Tab. 3 – Rrjeti Sizmologjik Ndihmës (MSO, SKO, AUTH, NAO, INGV)

Kodi	Regjistruar (Po/Jo)	Gjer. Gjeo.	Gjat. Gjeo.	Lartesia	Tipi i stacionit	Sensori	Terheqja e Informacionit	Komunikimi	T$_0$
Station Code	Registered (WDC)	Latitude (degree)	Longitude (degree)	Elev. (m)	Station type	Sensor type	Acquisition system	Comunication	Nat.l Period (s)
MEV	Po (Y)	39.7850	21.2290	1500	3C-SP	S-13	Trident	RT	1.0
KTI	Po (Y)	40.39289	22.11650	1329	#	#	#	#	#
GRG	Po (Y)	40.9558	22.4029	600	3C-BB	CMG-3EPS/100	Trident	RT	40
LKD	Po (Y)	38.70722	20.65056	1140	#	#	#	#	#
ULC	Po (Y)	41.9633	19.2497	465	3C-SP	S-13	Smart-24D	RT	1.0
TTG	Po (Y)	42.43020	19.25530	97	#	#	#	#	#
PVY	Po (Y)	42.5950	19.9735	1250	3C-SP	S-13	Smart-24D	RT	1.0
BUM	Po (Y)	42.3008	18.8986	724	3C-SP	S-13	Smart-24D	RT	1.0
BDV	Po (Y)	42.28340	18.82790	385	#	#	#	#	#
IVA	Po (Y)	42.87180	19.89310	996	#	#	#	#	#
KEK	Po (Y)	39.7127	19.7962	227	3C-BB	STS-2	DR24-SC	RT	120
JAN	Po (Y)	39.6561	20.8487	526	3C-BB	CMG-3ESPC/60	DR24-SC	RT	40
KZN	Po (Y)	40.3033	21.7820	791	3C-BB	STS-2	DR24-SC	RT	120
VLS	Po (Y)	38.1768	20.5886	402	3C-BB	Trillium 120	DR24-SC	RT	120
NVR	Po (Y)	41.3484	23.8651	627	3C-BB	CMG-3ESPC/60	DR24-SC	RT	40

Kodi	Regjistruar (Po/Jo)	Gjer. Gjeo.	Gjat. Gjeo.	Lartesia	Tipi i stacionit	Sensori	Terheqja e Informacionit	Komunikimi	T$_0$
Station Code	Registered (WDC)	Latitude (degree)	Longitude (degree)	Elev. (m)	Station type	Sensor type	Acquisition system	Comunication	Nat.l Period (s)
BRT	Po (Y)	40.8778	17.2036	333	#	#	#	#	#
AMUR	Po (Y)	40.9071	16.6041	443	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40
MSAG	Po (Y)	41.712	15.9096	890	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40/120
PTC	Po (Y)	41.7546	15.7437	960	3C-BB	Trillium 40T	Libra VSAT	RT satellite	40
LCI	Po (Y)	40.33461	18.11197	46	#	#	#	#	#
OHR	Po (Y)	41.1114	20.7989	739	#	#	#	#	#
BIA	Po (Y)	41.0194	21.3239	720	#	#	#	#	#
KRUS	Po (Y)	41.3689	21.2488	1015	#	#	#	#	#
SKO	Po (Y)	41.9721	21.4396	346	#	#	#	#	#

Rrjeti plotësues (ndihmës) konsiston në stacionet sizmologjike të rajonit, të cilat janë pjesë e Rrjetit Sizmologjik Malazezë (MSO), atij Maqedonas (SKO), të Selanikut (AUTH), Athinës (NAO) dhe Institutit Kombëtar të Gjeofizikës dhe Vullkanologjisë në Romë (INGV), dhe përdoren për përfshirjen manuale të leximeve të fazave sizmike në procesin e lokalizimit. (#) – është përdorur në rastin kur nuk njihet instrumentimi i stacioneve.

-Fig. 1-
Harta e shpërndarjes së stacioneve të rrjetit sizmologjik Shqipëtar (ASN), Universitetit 'Aristotel' të Selanikut (THE), Observatorit Kombëtar të Athinës (ATH), INGV, rrjetit sizmologjik Malazez (PDG) dhe atij Maqedonas (SKO).
[Seismological station distribution map for ASN, THE, ATH, INGV, PDG & SKO]

Përshkrimi i terminlogjisë së përdorur për parametrat e përftuar
(Output parameter's description)

I. Informacioni gjithpërfshirës i kreut të ngjarjes (EVENT HEADER INFORMATION)

YEAR MO DA   Data (viti, muaji, data) [*Date*]
   ORIGIN   Koha (ora, minuta, sekonda) [*Origine Time*]
   LAT N   Gjerësia gjeografike (gradë, minuta) [*latitude in degree and minute*]

LON W   Gjatësia gjeografike (gradë, minuta) [*longitude in degree and minutes*]

DEPTH   Thellësia vatrore (*km*) [*hypocenter depth in km*]

RMS   Shmangia kuadratike mesatare për diferencat e peshuara të kohë-udhëtimin, për Fazat Sizmike, [*root mean squarre for the weighted travel time residuals*]

ERH   Gabimi horizontal në lokalizim (përafërsisht aksi maksimal i elipsit të gabimit në epiqendër), [*horizontal location error, aproximately equal to the major epicenter's error ellipse*].

ERZ   Gabimi në thellësi, [*Defined as the largest projections of the three principal errors on a vertical line*].

XMAG   Magnituda primare bazuar në amplitudë [*Primary weighted median amplitude magnitude*].

FMAG   Magnituda primare bazuar në zgjatshmërinë e sinjalit [*Primary weighted median coda magnitude*].

PMAG   Magnituda e përzgjedhur si përfaqësuese, për ngjarjen e lokalizuar [*preferred magnitude selected by PRE command, as representative of available magnitudes ML and Md*].

NSTA   Numuri i stacioneve të përdorur në lokalizim [*the number of stations read for this event*].

NPHS   Numuri i fazave të përdorura [*Number of used phases in location*].

DMIN   Distanca hypoqender-stacioni më i afërt [*distance to the nearest station*].

MODEL   Modeli shpejtësior i përdorur [*velocity crustal model code*].

GAP   Shmangia maksimale, këndore, ndërmjet stacioneve të përdorur [*the largest azimuthal gap between azimuthally adjacent stations*].

ITR   Numri i iteracioneve për zgjidhje [*number of iterations required for the solution*].

NFM   Numri i hyrjeve të para P [*number of P first motions reported*].

NWR   Numri i fazave P & S me peshë satistikore > 0.1 [*number of P & S readings with weights > 0.1*].

NWS   Numri i fazave S me peshë statistikore > 0.1 [*number of S-phases with weights > 0.1*].

NVR   Numri i fazave P & S, të vlefshme për lokalizim [*number of P & S phases valid for location, assigned weights > 0*].

REMARKS   Kodi (3 karaktere) i rajonit (region code), bazuar në lokalizim dhe thellësinë e vlerësuar; kodi (1 karakter) për të karakterizuar ngjarjen: F – e ndjerë (felt), Q/ B – shpërthime sipërfaqësore në karriera (quarry blasts), R/N – shpërthime në thellësi (explosions), T – vibrime (tremors) dhe L – kontraktimet me period të gjatë (long period tidal waves); # - problem me konvergjimin e zgjidhjes së përftuar në mënyrë iterative [*convergence problems*], ose zgjidhje e pa pranueshme me RMS të lartë; (-) – tregon se thellësia është fiksuar [*fixed depth solution*]; X – lokalizimi i fiksuar për të rritur performancën në llogaritjen e thellësisë [*fixed location solution*].

AVH   Shënime për statusin [*status remarks*].

N.XMG   Numri i magnitudave bazuar në amplitudë [*number of primary amplitude based magnitudes*].

X.MMAD   Gabimi i bërë në vlerësimin e ML [*weighted median absolute difference for the primary amplitude magnitudes*].

T   Kodi i identifikimit për magnitudën XMAG1 [*label code for XMAG1*].

N.FMAG   Numri i magnitudave, bazuar në zgjatshmërinë e sinjalit [*number of primary coda magnitudes*].

FMMAD   Gabimi i bërë në vlerësimin e Md [*weighted median absolute difference for the primary coda magnitudes*].

T   Kodi i identifikimit për magnitudën FMAG1 [*label code for FMAG1*].

Shënim: parametrat XMAG2 dhe FMAG2, së bashku me parametrat e tjerë suksesiv të indeksuar me ####2, paraqesin informacionin për magnitudat dytësore [*secondary magnitude information parameters*].

II. Informacioni parametrik i ngjarjes (EVENT PARAMETRIC DATA)

STA — Kodi i stacionit me 5-karaktere (station code, max 5 characters). (*) –tregon se për këtë stacion është përdorur një model alternative shpejtësie [*alternative crustal velocity model used for that station*].

NET — Kodi i rrjetit [*the network code*].

COM — komponentja e përdorur [*3 –letters component code*]

C — shkurtimi i kodit të rrjetit (1 karakter) [*abbreviation for the station code*]

R — Shënimi për statcionin [*station remark*]

DIST — Distanca epiqendrore [*epicentral distance*]

AZM — Azimuti stacion-hypoqendër [*station azimuth in degree*]

AN — Këndi i daljes së rezeve valore në sferën vatrore [*emergence angle at the hypocenter*]

P/S — Kodi i fazave të përcaktuara nga leximi në formën valore [*phase code*]

WT — Pesha e vlerësimin të fazave [*weighted code*].

SEC — Koha e vrojtuar për hyrjet valore [*observed arrival time*]

TOBS — Koha e vrojtuar e udhëtimit vatër-stacion për fazën sizmike [*observed travel time*]

TCAL — Koha e llogaritur nga modeli i shpejtësisë për udhëtimin vatër-stacion, të fazës sizmike [*calculated travel time*].

DLY — Vonesa në kohë, karakteristikë për stacionin [*station delay*].

RES — Diferenca në kohë-përhapjen, model-vrojtim. [*Travel time residuals*].

WT — Pesha e normalizuar, përfshirë këtu edhe peshën e caktuar dhënë më sipër [*normalized weight*].

SR — Kodi i burimit (1 karakter), që zakonisht i referohet rrjetit [*1 letter source code*]

R — Shënime lidhur me formën valore (sizmogramën), mbartur nga të dhënat fazore [*Seismogram remark*].

INFO — Informacioni për rëndësinë e kontributit të stacionit apo fazës në zgjidhjen e përgjithshme [*the information of the importance of contribution*].

CAL — Faktori korrigjues që përdoret në llogaritjen e magnitudës [*calibration factor for magnitude calculation*].

DUR — Zgjatshmëria e fazëz koda (s) [*coda duration i sec*]

W — Kodi i peshimit 0-4 për magnitudën bazuar në zgjatshmërinë e sinjalit, Md, [*duration magnitude weight code*].

FMAG — Magnituda Md, për stacionin [*duration magnitude for that station*].

T — Kodi për llojin e magnitudës [*the magnitude type code assigned by FC1 & FC2 commands*].

AMP — amplituda maksimale (pik-pik) [*peak to peak maximum amplitude*]

U — Kodi për njësinë e përdorur për amplitudën M – mm, C – counts, etj. [*amplitude units code*]

PER — Perioda (s), ku është matur A_{max}, [*max amplitude corresponding period in sec.*].

W — Kodi i peshimit 0-9, për magnitudën, bazuar ne amplitude, [*amplitude based magnitude weight code*].

XMAG — Magnituda bazuar në amplitude, për stacionin, [*amplitude magnitude for that station*].

T — Kodi për llojin e magnitudës [*the magnitude type code assigned by XC1 & XC2 commands*].

Tërmetet Lokalë (*Parametric Data for Albanian local Events*)

```
YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS    ERH    ERZ   XMAG   FMAG   PMAG
2015-08-01  0943  8.11  41 50.45   20E10.60  19.36  0.16   0.58   1.26   2.83   2.84   2.8
                                                                                            SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
  11   16  28.0  Atl  136   6   0  10   5  11               4.00  0.23 L   3.00  0.00 D
REGION=  Krejë, Lurë, Rajoni Peshkopisë ( Krejë, Lurë,, Peshkopi  Region, Albania)

STA NET COM CR DIST AZM  AN P/S WT    SEC (TOBS -TCAL -DLY   =RES)  WT    SR   INFO   CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
PHP AC HHZ     28.0 128 120  P     14.46  6.35  6.09 0.00  0.26  1.18      0.261 1.00  25   2.70 D
PHP AC HHN     28.0 128 120     6   0.00 -8.11  6.09 0.00        0.00      0.000 1.00                  18 .25   3.28 L
                            S     18.64 10.53 10.66 0.00 -0.13  1.21S     0.778
PUK AC HHN     32.5 314 116  P     15.04  6.93  6.76 0.00  0.17  1.21      0.318
BCI AC HHZ     59.1 352 102  P     19.17 11.06 11.00 0.00  0.06  1.21      0.311 1.00  27   2.84 D
BCI AC HHE     59.1 352 102     6   0.00 -8.11 11.00 0.00        0.00      0.000 1.00                 3.4 .62   2.85 L
                            S     27.15 19.04 19.25 0.00 -0.21  1.21S     0.510
TIR AC HHZ     60.6 206 101  P     19.33 11.22 11.25 0.00 -0.03  1.21      0.285 1.00  27   2.84 D
TIR AC HHN     60.6 206 101     6   0.00 -8.11 11.25 0.00        0.00      0.000 1.00                 1.1 .30   2.39 L
                            S     27.71 19.60 19.69 0.00 -0.09  1.21S     0.652
KBN AC HHZ    144.5 159  71  P     33.84 25.73 24.65 0.00  1.08* 0.00      0.000
KBN AC HHE    144.5 159  71     6   0.00 -8.11 24.65 0.00        0.00      0.000 1.00                0.62 .89   2.81 L
                            S     51.17 43.06 43.14 0.00 -0.08  0.65S     0.476
FNA AC HHZ    155.1 138  71  P     34.64 26.53 26.34 0.00  0.19  0.45      0.141
FNA AC HHN    155.1 138  71  S     53.95 45.84 46.10 0.00 -0.26  0.44S     0.263


YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS    ERH    ERZ   XMAG   FMAG   PMAG
2015-08-01  2330 45.19  41  7.42   20E10.43   2.26  0.14   0.59   1.13   2.17   2.37   2.4
                                                                                            SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
  14   21  35.9  Atl  139   6   0  13   7  14       #       5.00  0.21 L   2.00  0.07 D
REGION=  Shushicë, Rajoni Elbasan (Shushicë, Elbasani  Region, Albania)

STA NET COM CR DIST AZM  AN P/S WT    SEC (TOBS -TCAL -DLY   =RES)  WT    SR   INFO   CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
TIR AC HHZ     35.9 314  61  P     52.47  7.28  7.36 0.00 -0.08  1.04      0.347 1.00  17   2.30 D
TIR AC HHE     35.9 314  61     6   0.00-45.19  7.36 0.00        0.00      0.000 1.00                0.56 .21   1.76 L
                            S     58.33 13.14 12.88 0.00  0.26  0.97S     0.441
PHP AC HHZ     66.2  19  51  P     57.88 12.69 12.62 0.00  0.07  1.04      0.219 1.00  19   2.44 D
```

```
PHP   AC HHN    66.2  19  51       6  60.00 14.81 12.62 0.00        0.00    0.000 1.00                     0.60 .28    2.17 L
                          S           67.26 22.07 22.08 0.00 -0.01   1.04S   0.383
KBN   AC HHZ    75.9 136  51  P      59.27 14.08 14.29 0.00 -0.21   1.04    0.259
KBN   AC HHN    75.9 136  51       6  60.00 14.81 14.29 0.00        0.00    0.000 1.00                     0.40 .50    2.11 L
                          S           70.10 24.91 25.01 0.00 -0.10   1.04S   0.390
PUK   AC HHZ   104.7 348  51  P      64.37 19.18 19.25 0.00 -0.07   1.04    0.156
PUK   AC HHN   104.7 348  51       6  60.00 14.81 19.25 0.00        0.00    0.000 1.00                     0.44 .31    2.38 L
                          S           78.92 33.73 33.69 0.00  0.04   1.04S   0.295
FNA   AC HHZ   108.7 110  51  P      65.33 20.14 19.93 0.00  0.21   1.04    0.262
FNA   AC HHN   108.7 110  51  S      80.26 35.07 34.88 0.00  0.19   1.04S   0.359
BCI   AC HHZ   138.3 357  51  P      70.11 24.92 25.02 0.00 -0.10   1.01    0.155
BCI   AC HHN   138.3 357  51       6  60.00 14.81 25.02 0.00        0.00    0.000 1.00                     0.27 .63    2.40 L
                          S           88.80 43.61 43.78 0.00 -0.17   1.01S   0.273
IGT   AC HHZ   177.3 175  46  P      77.18 31.99 31.41 0.00  0.58*  0.00    0.000
IGT   AC HHE   177.3 175  46  S     100.06 54.87 54.97 0.00 -0.10   0.66S   0.456


  YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS    ERH    ERZ   XMAG   FMAG   PMAG
  2015-08-03  1352 42.65  38  1.89  16E45.62   50.16  0.34   2.38  21.28  3.55   3.62   3.6
                                                                                              SOURCE
  NSTA NPHS  DMIN MODEL GAP  ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T  N.FMG-FMMAD-T  L F X
   16   21  271.0  Atl  290   8   0  13   5  14      -       2.00  0.23 L   0.00  0.00 D
  REGION= Deti Jonë (Ionian Sea)


STA NET COM CR DIST AZM  AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)   WT    SR   INFO   CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
SCTE AC HHZ    271.0  32  90  P       84.64 41.99 40.48 0.00  0.49   0.00    0.000
SCTE AC HHE    271.0  32  90  S      113.58 70.93 70.84 0.00  0.09   1.01S   0.340
NOCI AC HHZ    307.2   4  90  P       87.89 45.24 45.26 0.00 -0.02   1.01    0.296
NOCI AC HHN    307.2   4  90  S      121.80 79.15 79.20 0.00 -0.06   1.01S   0.514
SRN  AC HHZ    347.9  52  90  P       93.71 51.06 50.64 0.00  0.42   1.01    0.946
SRN  AC HHN    347.9  52  90       6 120.00 77.35 50.64 0.00        0.00    0.000 1.00                  0.22 .14    3.32 L
LKD2 AC HHZ    350.8  74  90  P       93.69 51.04 51.02 0.00  0.02   1.01    0.273
LKD2 AC HHN    350.8  74  90  S      131.43 88.78 89.29 0.00 -0.51*  1.01S   0.340
IGT  AC HHZ    352.1  60  90  P       94.16 51.51 51.20 0.00  0.31   1.01    0.160
IGT  AC HHE    352.1  60  90  S      132.52 89.87 89.60 0.00  0.27   1.01S   0.276
LSK  AC HHZ    407.0  53  90  P      101.07 58.42 58.46 0.00 -0.04   1.01    0.169
LSK  AC HHN    407.0  53  90  S      145.01102.36102.31 0.00  0.06   1.01S   0.275
TIR  AC HHZ    454.5  34  90  P      107.91 65.26 64.74 0.00  0.52*  1.01    0.118
PHP  AC HHZ    513.6  36  90  P      114.66 72.01 72.56 0.00 -0.55*  1.01    0.189
PHP  AC HHN    513.6  36  90       6 120.00 77.35 72.56 0.00        0.00    0.000 1.00                  0.23 .40    3.77 L
BCI  AC HHZ    557.7  29  90  P      120.40 77.75 78.40 0.00 -0.65*  0.88    0.097
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YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH  RMS   ERH   ERZ   XMAG  FMAG  PMAG
2015-08-04  1337 14.25  41 18.63  20E17.85   10.13  0.13  0.50  4.43  1.98  2.21  2.2
                                                                          SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
   9   14  36.4  Atl  126   5   0   9   5   9     -           4.00  0.09 L   2.00  0.07 D
REGION= Zhdrajsh, Rajoni Librazhdit (Zhdrajsh, Librazhdi Region, Albania)


STA NET COM CR DIST AZM  AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)  WT    SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
TIR  AC HHZ    36.4 277  90  P     21.29  7.04  6.89 0.00  0.15 1.00       0.280 1.00  14   2.14 D
TIR  AC HHN    36.4 277  90      6  0.00-14.25  6.89 0.00        0.00      1.000 1.00                1.6 .14    2.24 L
                         S     26.21 11.96 12.06 0.00 -0.10 1.00S      0.570
PHP  AC HHZ    43.3  16  90  P     22.50  8.25  8.06 0.00  0.19 1.00       0.196 1.00  16   2.27 D
PHP  AC HHN    43.3  16  90      6  0.00-14.25  8.06 0.00        0.00      0.000 1.00               0.70 .14    1.94 L
                         S     28.39 14.14 14.10 0.00  0.03 1.00S      0.455
KBN  AC HHN    86.7 151  90      6  0.00-14.25 15.52 0.00        0.00      0.000 1.00               0.18 .36    1.85 L
                         S     41.54 27.29 27.16 0.00  0.13 1.00S      0.439
PUK  AC HHZ    88.0 338  90  P     29.83 15.58 15.75 0.00 -0.17 1.00       0.155
PUK  AC HHE    88.0 338  90      6  0.00-14.25 15.75 0.00        0.00      0.000 1.00               0.25 .23    2.01 L
                         S     41.77 27.52 27.56 0.00 -0.04 1.00S      0.292
FNA  AC HHZ   108.6 122  90  P     33.49 19.24 19.28 0.00 -0.04 1.00       0.213
FNA  AC HHE   108.6 122  90  S     47.82 33.57 33.74 0.00 -0.17 1.00S      0.396




YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH  RMS   ERH   ERZ   XMAG  FMAG  PMAG
2015-08-05  1519 57.11  40  8.97  20E42.23   16.77  0.02  0.81  1.10  2.73  2.61  2.6
                                                                          SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
   8   11   9.0  Atl  199   7   0   6   3   7              2.00  0.64 L   2.00  0.15 D
REGION=  Radat, 8 km JL të Leskovikut (Radat, 8km SE of Leskoviku, Leskoviku Region, Albania)


STA NET COM CR DIST AZM  AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)  WT    SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
LSK  AC HHZ     9.0 271 149  P     60.57  3.46  3.45 0.00  0.01 1.00       0.963 1.00  31   2.76 D
LSK  AC HHN     9.0 271 149      6 60.00  2.89  3.45 0.00        0.00      0.000 1.00               32 .54    3.37 L
KBN  AC HHZ    53.1   7 100  P     67.08  9.97  9.93 0.00  0.04 1.00       0.436 1.00  18   2.46 D
KBN  AC HHN    53.1   7 100      6 60.00  2.89  9.93 0.00        0.00      0.000 1.00               0.72 .50    2.09 L
                         S     74.45 17.34 17.38 0.00 -0.04 1.00S      0.588
IGT  AC HHZ    75.7 206  94  P     70.79 13.68 13.70 0.00 -0.02 1.00       0.446
IGT  AC HHE    75.7 206  94  S     81.07 23.96 23.98 0.00 -0.02 1.00S      0.566
SCTE AC HHZ   190.7 269  71  P     90.22 33.11 32.16 0.00  0.95* 0.00      0.000
SCTE AC HHE   190.7 269  71  S    113.39 56.28 56.28 0.00  0.00 1.00S      0.997




YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH  RMS   ERH   ERZ   XMAG  FMAG  PMAG
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2015-08-06  1445 17.19  41 13.48   20E 6.76   3.09  0.40  0.68  1.22  3.25  3.30  3.3
                                                                        SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
  17   25  24.8  Atl  92   7   0  16   8  16       #         5.00  0.05 L   3.00  0.06 D
REGION=  10km V të Elbasanit, Rajoni Elbasan (10km N of Elbasani, Elbasani  Region, Albania)


STA NET COM CR DIST AZM  AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)   WT   SR  INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
TIR  AC HHZ    24.8 304  61  P      22.57  5.38  5.21 0.00  0.17  1.38     0.358 1.00  55   3.24 D
TIR  AC HHE    24.8 304  61      6   0.00-17.19  5.21 0.00        0.00     0.000 1.00              25 .46   3.30 L
                        S      26.41  9.22  9.12 0.00  0.10  1.38S    0.526
PHP  AC HHZ    58.0  28  51  P      28.69 11.50 11.21 0.00  0.29  1.38     0.303 1.00  53   3.30 D
PHP  AC HHN    58.0  28  51      6   0.00-17.19 11.21 0.00        0.00     0.000 1.00             8.5 .30   3.20 L
                        S      37.61 20.42 19.62 0.00  0.20  0.96S    0.380
KBN  AC HHZ    87.7 139  51  P      33.10 15.91 16.31 0.00 -0.40  1.38     0.280
KBN  AC HHN    87.7 139  51      6   0.00-17.19 16.31 0.00        0.00     0.000 1.00             4.2 .86   3.23 L
                        S      45.77 28.58 28.54 0.00  0.04  1.38S    0.381
VLO  AC HHZ    98.8 212  51  P      35.55 18.36 18.22 0.00  0.14  1.32     0.264
VLO  AC HHN    98.8 212  51  S      49.54 32.35 31.88 0.00  0.47  1.32S    0.573
FNA  AC HHZ   117.7 114  51  P      38.03 20.84 21.47 0.00 -0.43  1.00     0.157
FNA  AC HHE   117.7 114  51  S      55.18 37.99 37.57 0.00  0.42  1.00S    0.239
LSK  AC HHZ   126.2 160  51  P      39.57 22.38 22.94 0.00 -0.36  0.80     0.090
LSK  AC HHE   126.2 160  51      6   0.00-17.19 22.94 0.00        0.00     0.000 1.00             3.1 .57   3.38 L
                        S      58.07 40.88 40.14 0.00  0.54* 0.70S    0.099
BCI  AC HHZ   126.9 359  51  P      39.73 22.54 23.05 0.00 -0.51* 0.78     0.081
BCI  AC HHN   126.9 359  51  S      57.05 39.86 40.34 0.00 -0.48  0.78S    0.241
SRN  AC HHZ   149.6 184  51  P      43.36 26.17 26.95 0.00 -0.58* 0.19     0.005 1.00  61   3.50 D
SRN  AC HHE   149.6 184  51  S      64.30 47.11 47.16 0.00 -0.05  0.25S    0.015
SRN  AC HHN   149.6 184  51      6  60.00 42.81 26.95 0.00        0.00     0.000 1.00             1.6 .54   3.25 L



YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS   ERH   ERZ  XMAG  FMAG  PMAG
2015-08-07  1420 13.77  41 13.30   20E 6.48   4.18  0.05  1.60  3.12  2.13  2.27  2.2
                                                                        SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
  10   14  24.7  Atl 191  21   0   7   4   9       #         4.00  0.07 L   2.00  0.07 D
REGION= 10km V të Elbasanit, Rajoni Elbasan (10km N of Elbasani, Elbasani  Region, Albania)


STA NET COM CR DIST AZM  AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)   WT   SR  INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
TIR  AC HHZ    24.7 305  95  P      18.83  5.06  5.01 0.00  0.05  1.17     0.460 1.00  16   2.20 D
TIR  AC HHE    24.7 305  95      6   0.00-13.77  5.01 0.00        0.00     0.000 1.00             2.1 .14   2.23 L
                        S      22.60  8.83  8.77 0.00  0.06  1.17S    0.665
PHP  AC HHZ    58.5  28  62  P      24.60 10.83 10.84 0.00 -0.01  1.17     0.450 1.00  17   2.34 D
PHP  AC HHN    58.5  28  62      6   0.00-13.77 10.84 0.00        0.00     0.000 1.00            0.55 .14   2.02 L
                        S      32.75 18.98 18.97 0.00  0.01  1.17S    0.689
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FNA  AC HHZ   117.9 114  62  P       34.76 20.99 21.05 0.00 -0.06  0.83       0.356
FNA  AC HHE   117.9 114  62  S       50.65 36.88 36.84 0.00  0.04  0.83S      0.701
BCI  AC HHZ   127.2 359  62  P       37.13 23.36 22.65 0.00  0.41  0.00       0.000
BCI  AC HHN   127.2 359  62      6    0.00-13.77 22.65 0.00        0.00       0.000 1.00              0.16 .50   2.10 L
                             S       53.34 39.57 39.64 0.00 -0.07  0.64S      0.676
SRN  AC HHZ   149.3 184  55  P       40.90 27.13 26.40 0.00  0.73* 0.00       0.000
SRN  AC HHN   149.3 184  55      6   60.00 46.23 26.40 0.00        0.00       0.000 1.00              0.13 .41   2.16 L


YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS   ERH   ERZ  XMAG  FMAG  PMAG
2015-08-07  2052 55.19  41 15.13   20E 8.59   2.73  0.06  0.96  2.08  1.70  2.16  2.2
                                                                               SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
   8   12  25.6  Atl 179   5   0   8   4   8                2.00  0.14 L    2.00  0.01 D
REGION= 16km VL të Elbasanit, Rajoni Elbasan (16km NE of Elbasani, Elbasani  Region, Albania)


STA NET COM CR DIST AZM  AN P/S WT   SEC (TOBS -TCAL -DLY  =RES)  WT   SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
TIR  AC HHZ    25.6 295  91  P       60.39  5.20  5.17 0.00  0.03 1.06       0.429 1.00  15   2.15 D
TIR  AC HHE    25.6 295  91      6   60.00  4.81  5.17 0.00       0.00       0.000 1.00              0.85 .14   1.84 L
                             S       64.17  8.98  9.05 0.00 -0.07 1.06S      0.572
PHP  AC HHZ    54.1  27  62  P       65.47 10.28 10.21 0.00  0.07 1.06       0.428 1.00  14   2.17 D
PHP  AC HHN    54.1  27  62      6   60.00  4.81 10.21 0.00       0.00       0.000 1.00              0.22 .11   1.56 L
                             S       72.98 17.79 17.87 0.00 -0.08 1.06S      0.577
PUK  AC HHZ    90.2 347  62  P       71.58 16.39 16.43 0.00 -0.04 1.06       0.148
PUK  AC HHN    90.2 347  62  S       84.01 28.82 28.75 0.00  0.07 1.06S      0.785
FNA  AC HHN   116.7 116  62  P       76.24 21.05 20.97 0.00  0.08 0.83       0.339
FNA  AC HHE   116.7 116  62  S       91.84 36.65 36.70 0.00 -0.05 0.83S      0.718


YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS   ERH   ERZ  XMAG  FMAG  PMAG
2015-08-07  2225  1.17  41 14.27   20E 4.17  16.62  0.16  0.54  1.22  2.68  2.67  2.7
                                                                               SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
  18   24  21.0  Atl  96   7   0  11   4  16                7.00  0.07 L    3.00  0.03 D
REGION= 15km V të Elbasanit, Rajoni Elbasan (15km N of Elbasani, Elbasani  Region, Albania)


STA NET COM CR DIST AZM  AN P/S WT   SEC (TOBS -TCAL -DLY  =RES)  WT   SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
TIR  AC HHZ    21.0 306 123  P        6.26  5.09  4.86 0.00  0.23 1.61       0.307 1.00  26   2.67 D
TIR  AC HHE    21.0 306 123      6    0.00 -1.17  4.86 0.00       0.00       0.000 1.00              6.2 .15   2.75 L
                             S        9.56  8.39  8.50 0.00 -0.11 1.61S      0.685
PHP  AC HHZ    58.5  31  98  P       11.79 10.62 10.82 0.00 -0.20 1.61       0.232 1.00  22   2.64 D
PHP  AC HHN    58.5  31  98      6    0.00 -1.17 10.82 0.00       0.00       0.000 1.00              1.8 .11   2.55 L
                             S       20.22 19.05 18.93 0.00  0.11 1.61S      0.611
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PUK   AC HHZ     90.6 351   93  P       17.10 15.93 16.19 0.00 -0.26  1.39      0.248
PUK   AC HHN     90.6 351   93       6   0.00 -1.17 16.19 0.00        0.00      0.000 1.00                    1.0 .30   2.65 L
                             S       29.68 28.51 28.33 0.00  0.18  1.41S      0.586
KBN   AC HHZ     91.1 138   71  P       17.42 16.25 16.28 0.00 -0.03  1.40      0.276 1.00  26    2.81 D
KBN   AC HHN     91.1 138   71       6   0.00 -1.17 16.28 0.00        0.00      0.000 1.00                   0.93 .62   2.61 L
                             S       29.73 28.56 28.49 0.00  0.07  1.40S      0.521
VLO   AC HHZ     98.2 210   71  P       18.59 17.42 17.40 0.00  0.02  1.21      0.466
FNA   AC HHZ    121.6 114   71  P       22.18 21.01 21.14 0.00 -0.13  0.44      0.025
FNA   AC HHN    121.6 114   71  S       37.68 36.51 36.99 0.00 -0.48  0.00S      0.000
BCI   AC HHZ    125.4   0   71  P       22.96 21.79 21.74 0.00  0.05  0.33      0.037
BCI   AC HHE    125.4   0   71       6   0.00 -1.17 21.74 0.00        0.00      0.000 1.00                   0.88 .51   2.84 L
LSK   AC HHZ    128.8 159   71  P       22.99 21.82 22.29 0.00 -0.47  0.00      0.000
LSK   AC HHN    128.8 159   71       6   0.00 -1.17 22.29 0.00        0.00      0.000 1.00                   0.66 .50   2.73 L
                             S       40.65 39.48 39.01 0.00  0.47  0.00S      0.000
SRN   AC HHZ    150.9 183   71  P       27.59 26.42 25.81 0.00  0.61* 0.00      0.000
SRN   AC HHN    150.9 183   71       6   0.00 -1.17 25.81 0.00        0.00      0.000 1.00                   0.42 .54   2.68 L
IGT   AC HHZ    190.7 173   71  P       32.98 31.81 32.17 0.00 -0.36  0.00      0.000


 YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS   ERH   ERZ  XMAG  FMAG  PMAG
 2015-08-08  0533 18.56  40 12.23  20E38.74   5.51  0.02  1.56  1.97  2.67  2.59  2.7
                                                                              SOURCE
 NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T  N.FMG-FMMAD-T  L F X
   14   20   7.2  Atl  200   8   0   4   2  14              4.00  0.24 L   3.00  0.37 D
 REGION= Germenje, 7km L të Leskovikut, Rajoni Leskovikut (Germenje, 7km E of Leskoviku, Leskovikut  Region,
 Albania)


 STA NET COM CR DIST AZM  AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)  WT   SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
 LSK  AC HHZ      7.2 214 124  P       20.41  1.85  1.83 0.00  0.02  1.46      0.756 1.00  17    2.16 D
 LSK  AC HHN      7.2 214 124       6   0.00-18.56  1.83 0.00        0.00      0.000 1.00                   121 .14   3.65 L
                             S       21.76  3.20  3.20 0.00  0.00  1.46S      0.920
 KBN  AC HHZ     48.1  14  62  P       27.48  8.92  8.94 0.00 -0.02  1.01      0.489 1.00  23    2.59 D
 KBN  AC HHN     48.1  14  62       6   0.00-18.56  8.94 0.00        0.00      0.000 1.00                   3.0 .41   2.63 L
                             S       34.24 15.68 15.64 0.00  0.03  1.01S      0.833
 SRN  AC HHZ     65.8 238  62  P       29.88 11.32 11.97 0.00 -0.45  0.00      0.000 1.00  35    2.96 D
 SRN  AC HHE     65.8 238  62       6   0.00-18.56 11.97 0.00        0.00      0.000 1.00                   0.70 .41   2.23 L
                             S       39.51 20.95 20.95 0.00  0.00  0.05S      1.000
 IGT  AC HHZ     79.4 200  62  P       31.91 13.35 14.31 0.00 -0.96* 0.00      0.000
 IGT  AC HHE     79.4 200  62  S       43.68 25.12 25.04 0.00  0.08  0.00S      0.000
 FNA  AC HHZ     89.6  44  62  P       33.71 15.15 16.07 0.00 -0.92* 0.00      0.000
 FNA  AC HHE     89.6  44  62  S       46.41 27.85 28.12 0.00 -0.27  0.00S      0.000
 LKD2 AC HHZ    157.1 179  55  P       45.81 27.25 27.50 0.00 -0.25  0.00      0.000
 PHP  AC HHZ    165.4 355  55  P       47.09 28.53 28.82 0.00 -0.29  0.00      0.000
 PHP  AC HHN    165.4 355  55       6  60.00 41.44 28.82 0.00        0.00      0.000 1.00                   0.36 .68   2.70 L
```

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                         S        69.09 50.53 50.43 0.00  0.10  0.00S     0.000
SCTE AC HHZ    186.1 267  55  P        50.31 31.75 32.13 0.00 -0.38  0.00      0.000




YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS   ERH   ERZ  XMAG  FMAG  PMAG
2015-08-08  2123 11.08  40 29.58  19E54.90   4.01  0.55  0.84  1.71  2.50  3.03  3.0
                                                                          SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
  19   28  35.7  Atl   93   5   0  18   9  18      #        6.00  0.04 L   3.00  0.03 D
REGION= 16km JL të Ballëshit, Rajoni Ballëshit (16km SE of Ballëshi, Ballëshi  Region, Albania)

STA NET COM CR DIST AZM  AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)  WT   SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
VLO  AC HHZ    35.7 266  61  P        18.07  6.99  7.32 0.00 -0.33 1.05      0.287 1.00  39    3.00 D
VLO  AC HHE    35.7 266  61      6     0.00-11.08  7.32 0.00        0.00     0.000 1.00            13 .14    3.13 L
                         S        24.54 13.46 12.81 0.00  0.45 1.05S     0.507
SRN  AC HHZ    68.5 173  51  P        23.89 12.81 13.02 0.00 -0.21 1.05      0.162 1.00  38    3.03 D
SRN  AC HHN    68.5 173  51      6     0.00-11.08 13.02 0.00        0.00     0.000 1.00           1.2 .31    2.51 L
                         S        34.09 23.01 22.78 0.00  0.23 1.05S     0.336
LSK  AC HHZ    69.5 123  51  P        23.33 12.25 13.20 0.00 -0.35 0.96      0.139
LSK  AC HHE    69.5 123  51      6     0.00-11.08 13.20 0.00        0.00     0.000 1.00           1.1 .74    2.47 L
                         S        34.66 23.58 23.10 0.00  0.48 1.05S     0.226
KBN  AC HHZ    75.3  78  51  P        24.82 13.74 14.20 0.00 -0.46 1.05      0.176
KBN  AC HHE    75.3  78  51  S        36.36 25.28 24.85 0.00  0.43 1.05S     0.214
KBN  AC HHN    75.3  78  51      6     0.00-11.08 14.20 0.00        0.00     0.000 1.00          0.98 .98    2.49 L
TIR  AC HHZ    95.0 358  51  P        28.16 17.08 17.58 0.00 -0.50 1.05      0.164 1.00  39    3.07 D
TIR  AC HHN    95.0 358  51      6     0.00-11.08 17.58 0.00        0.00     0.000 1.00          0.60 .56    2.44 L
                         S        42.12 31.04 30.76 0.00  0.27 1.05S     0.313
IGT  AC HHZ   112.5 161  51  P        31.40 20.32 20.59 0.00 -0.27 1.05      0.160
IGT  AC HHN   112.5 161  51  S        47.68 36.60 36.03 0.00  0.37 1.05S     0.296
FNA  AC HHZ   128.3  75  51  P        33.49 22.41 23.31 0.00 -0.90* 1.02     0.166
FNA  AC HHE   128.3  75  51  S        52.21 41.13 40.79 0.00  0.34 1.05S     0.213
PHP  AC HHZ   139.5  18  51  P        37.14 26.06 25.23 0.00  0.43 1.01      0.153
PHP  AC HHN   139.5  18  51      6     0.00-11.08 25.23 0.00        0.00     0.000 1.00          0.36 .46    2.54 L
                         S        56.04 44.96 44.15 0.00  0.81* 1.01S    0.243
PUK  AC HHZ   172.1   0  46  P        41.10 30.02 30.59 0.00 -0.57* 0.72     0.062
PUK  AC HHN   172.1   0  46  S        64.18 53.10 53.53 0.00 -0.43 0.72S     0.175




YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS   ERH   ERZ  XMAG  FMAG  PMAG
2015-08-17  0221 59.07  41 56.64  20E18.69   4.32  0.09  0.84  2.14  1.61  2.17  2.2
                                                                          SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
   6    9  30.8  Atl  182   8   0   6   3   6                2.00  0.09 L   2.00  0.00 D
```

REGION= Arren, 18km JL të Kukësit, Rajoni Kukësit (Arren, 18km SE of Kukësit, Kukësi Region, Albania)

```
STA NET COM CR DIST AZM   AN P/S WT   SEC (TOBS -TCAL -DLY  =RES)  WT   SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
PHP  AC HHZ    30.8 159   62 P     65.12  6.05  6.06 0.00 -0.01 1.00      0.498 1.00  15   2.17 D
PHP  AC HHN    30.8 159   62      6 60.00  0.93  6.06 0.00        0.00      0.000 1.00              0.53 .14   1.69 L
               S     69.69 10.62 10.60 0.00  0.01 1.00S      0.836
BCI  AC HHZ    51.1 337   62 P     68.50  9.43  9.56 0.00 -0.13 1.00      0.498 1.00  14   2.17 D
BCI  AC HHN    51.1 337   62      6 60.00  0.93  9.56 0.00        0.00      0.000 1.00              0.22 .37   1.52 L
               S     75.87 16.80 16.73 0.00  0.07 1.00S      0.836
TIR  AC HHE    76.0 210   62 S     83.19 24.12 24.20 0.00 -0.08 1.00S      0.837
TIR  AC HHZ    76.0 210   62 P     73.04 13.97 13.83 0.00  0.14 0.99      0.491
```

```
YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS   ERH   ERZ   XMAG  FMAG  PMAG
2015-08-18  1852  2.11  41 55.68  20E12.05   1.05  0.04  0.74  1.73  2.13  2.13  2.1
                                                                                  SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
   6    9  28.5  Atl 155  11   0   5   3   6     #         0.00  0.00 L    2.00  0.21 D
```
REGION=   Klos, Rajoni Burrel (Klos, Burreli Region, Albania)

```
STA NET COM CR DIST AZM   AN P/S WT   SEC (TOBS -TCAL -DLY  =RES)  WT   SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
PUK  AC HHZ    28.5 297   61 P      7.58  5.47  5.94 0.00 -0.47 0.00      0.000
PUK  AC HHE    28.5 297   61 S     12.52 10.41 10.40 0.00  0.01 1.00S      0.999
PHP  AC HHZ    33.6 143   61 P      8.96  6.85  6.91 0.00 -0.06 1.00      0.623 1.00  11   1.92 D
PHP  AC HHN    33.6 143   61 S     14.27 12.16 12.09 0.00  0.07 1.00S      0.876
BCI  AC HHZ    50.0 348   51 P     11.95  9.84  9.84 0.00  0.00 1.00      0.623 1.00  17   2.33 D
BCI  AC HHN    50.0 348   51 S     19.31 17.20 17.22 0.00 -0.02 1.00S      0.876
```

```
YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS   ERH   ERZ   XMAG  FMAG  PMAG
2015-08-18  2359 31.47  41 33.56  19E52.79   2.03  0.21  0.84  2.00  1.61  2.71  2.7
                                                                                  SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
   8   12  23.5  Atl 177   9   0   8   4   8     #         3.00  0.17 L    4.00  0.14 D
```
REGION= 4km V të Krujës, Rajoni Krujë (4km N of Kruja, Kruja Region, Albania)

```
STA NET COM CR DIST AZM   AN P/S WT   SEC (TOBS -TCAL -DLY  =RES)  WT   SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
TIR  AC HHZ    23.5 184   61 P     36.33  4.86  4.97 0.00 -0.11 1.06      0.448 1.00  16   2.19 D
TIR  AC HHN    23.5 184   61      6  0.00-31.47  4.97 0.00        0.00      0.000 1.00              1.1 .20   1.93 L
               S     40.21  8.74  8.70 0.00  0.04 1.06S      0.816
PHP  AC HHZ    48.8  73   51 P     40.79  9.32  9.64 0.00 -0.32 1.06      0.437 1.00  36   2.97 D
PHP  AC HHN    48.8  73   51      6  0.00-31.47  9.64 0.00        0.00      0.000 1.00              0.29 .36   1.61 L
               S     48.54 17.07 16.87 0.00  0.20 1.06S      0.821
```

```
PUK   AC HHZ      53.7    1  51  P         42.18 10.71 10.48 0.00  0.23  1.06      0.339 1.00  26   2.69 D
PUK   AC HHN      53.7    1  51      6    0.00-31.47 10.48 0.00        0.00      0.000 1.00              0.17 .15  1.44 L
                                  S        49.83 18.36 18.34 0.00  0.02  1.06S     0.671
BCI   AC HHZ      91.0    9  51  P         48.57 17.10 16.89 0.00  0.21  1.04      0.300 1.00  26   2.73 D
BCI   AC HHN      91.0    9  51  S         60.56 29.09 29.56 0.00 -0.47  0.58S     0.163
```

```
YEAR MO DA   --ORIGIN--   --LAT N-   --LON W--   DEPTH   RMS    ERH    ERZ   XMAG   FMAG   PMAG
2015-08-23  1057 50.03   40 27.92   19E36.04   14.02  0.35   0.59   1.14   3.01   3.01   3.0
                                                                                          SOURCE
NSTA NPHS   DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
  15   20    8.9  Atl  99  11   0  14   5  14     #         6.00  0.35 L    3.00  0.05 D
REGION= Sherishte ,  10km  L të Vlorës, Rajoni Vlorë (Sherishte, 10km  E of Vlora, Vlora  Region, Albania)
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```
STA NET COM CR DIST AZM   AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)  WT    SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
VLO  AC HHZ       8.9 273 144  P        53.34  3.31  3.06 0.00  0.25  1.43      0.261 1.00  41   2.96 D
VLO  AC HHE       8.9 273 144      6    0.00-50.03  3.06 0.00        0.00      0.000 1.00              102 .15  3.81 L
                                  S        55.23  5.20  5.36 0.00 -0.15  1.43S     0.657
SRN  AC HHZ      73.4 152  90  P        63.36 13.33 13.28 0.00  0.05  1.43      0.172 1.00  35   3.01 D
SRN  AC HHE      73.4 152  90      6   60.00  9.97 13.28 0.00        0.00      0.000 1.00             0.92 .46  2.46 L
                                  S        73.01 22.98 23.24 0.00 -0.26  1.43S     0.361
LSK  AC HHZ      91.8 112  90  P        66.17 16.14 16.38 0.00 -0.24  1.43      0.143
TIR  AC HHZ     100.5  12  90  P        68.06 18.03 17.84 0.00  0.19  1.43      0.146
TIR  AC HHE     100.5  12  90      6   60.00  9.97 17.84 0.00        0.00      0.000 1.00             0.73 .46  2.58 L
                                  S        81.60 31.57 31.22 0.00  0.35  1.43S     0.303
KBN  AC HHZ     102.1  79  90  P        68.19 18.16 18.10 0.00  0.06  1.43      0.135
KBN  AC HHN     102.1  79  90      6   60.00  9.97 18.10 0.00        0.00      0.000 1.00              1.7 .87  2.95 L
                                  S        81.59 31.56 31.68 0.00 -0.12  1.43S     0.438
SCTE AC HHZ     105.5 247  90  P        68.30 18.27 18.68 0.00 -0.41  1.43      0.533
IGT  AC HHZ     120.9 148  71  P        72.18 22.15 21.17 0.00  0.98* 1.43      0.236
PHP  AC HHZ     152.7  27  71  P        75.97 25.94 26.24 0.00 -0.30  1.43      0.168 1.00  40   3.20 D
PHP  AC HHN     152.7  27  71      6   60.00  9.97 26.24 0.00        0.00      0.000 1.00             0.99 .62  3.07 L
                                  S        95.77 45.74 45.92 0.00 -0.18  1.43S     0.323
FNA  AC HHZ     154.9  76  71  P        76.33 26.30 26.59 0.00 -0.29  1.43      0.118
BCI  AC HHE     214.7  10  51      6   60.00  9.97 35.86 0.00        0.00      0.000 1.00             0.70 .51  3.28 L
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YEAR MO DA   --ORIGIN--   --LAT N-   --LON W--   DEPTH   RMS    ERH    ERZ   XMAG   FMAG   PMAG
2015-08-24  0108 38.48   40  6.18   19E52.01    2.05  0.22   0.58   1.53   2.25   2.38   2.3
                                                                                          SOURCE
NSTA NPHS   DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
  12   17   27.3  Atl 115  10   0  10   5  12     #         2.00  0.09 L    2.00  0.10 D
REGION= Fterë, Rajoni Vlorës (Fterë, Vlora  Region, Albania)
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STA NET COM CR DIST AZM   AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)   WT    SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
SRN  AC  HHZ    27.3 155  61 P      44.88  6.40  5.69 0.00  0.31* 0.00      0.000 1.00 22   2.48 D
SRN  AC  HHN    27.3 155  61     6  0.00-38.48  5.69 0.00        0.00      0.000 1.00            1.7 .37   2.16 L
                        S      48.45  9.97  9.96 0.00  0.01 1.21S     0.429
VLO  AC  HHZ    51.4 323  51 P      48.86 10.38 10.09 0.00  0.29 1.21      0.365 1.00 16   2.28 D
VLO  AC  HHN    51.4 323  51     6  0.00-38.48 10.09 0.00        0.00      0.000 1.00            1.4 .18   2.33 L
                        S      56.31 17.83 17.66 0.00  0.17 1.21S     0.561
LSK  AC  HHZ    62.6  84  51 P      50.10 11.62 12.01 0.00 -0.39 1.19      0.365
LSK  AC  HHE    62.6  84  51 S      59.50 21.02 21.02 0.00  0.00 1.21S     0.664
IGT  AC  HHZ    74.8 147  51 P      52.59 14.11 14.11 0.00  0.00 1.21      0.287
IGT  AC  HHE    74.8 147  51 S      63.29 24.81 24.69 0.00  0.12 1.21S     0.460
SCTE AC  HHZ   119.3 270  51 P      60.03 21.55 21.75 0.00 -0.20 1.03      0.286
SCTE AC  HHN   119.3 270  51 S      76.22 37.74 38.06 0.00 -0.32 1.03S     0.507
FNA  AC  HHZ   149.1  59  51 P      65.01 26.53 26.88 0.00 -0.35 0.49      0.071
LKD2 AC  HHZ   161.0 154  46 P      68.18 29.70 28.81 0.00  0.89* 0.00      0.000


YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH  RMS   ERH   ERZ  XMAG  FMAG  PMAG
2015-08-26  0240 27.92  41 22.42  20E19.46   6.26  0.11  0.46  2.49  1.41  2.45  2.4
                                                                    SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
   8   12  35.9  Atl  140   5   0   8   4   8     -        3.00  0.21 L    3.00  0.04 D
REGION=  16km  JL të Bulqizës, Rajoni Bulqizë (16km  SE of Bulqiza, Bulqiza  Region, Albania)


STA NET COM CR DIST AZM   AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)   WT    SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
PHP  AC  HHZ    35.9  15  90 P      34.86  6.94  6.79 0.00  0.15 1.01      0.204 1.00 17   2.30 D
PHP  AC  HHN    35.9  15  90     6  0.00-27.92  6.79 0.00        0.00      0.000 1.00            0.40 .11   1.62 L
                        S      39.76 11.84 11.88 0.00 -0.04 1.01S     0.464
TIR  AC  HHZ    38.5 266  90 P      35.36  7.44  7.25 0.00  0.19 0.90      0.250 1.00 21   2.49 D
TIR  AC  HHN    38.5 266  90     6  0.00-27.92  7.25 0.00        0.00      1.000 1.00            0.14 .23   1.19 L
                        S      40.51 12.59 12.69 0.00 -0.10 1.01S     0.637
PUK  AC  HHZ    82.5 335  90 P      42.73 14.81 14.81 0.00  0.00 1.01      0.166 1.00 19   2.45 D
PUK  AC  HHN    82.5 335  90     6  0.00-27.92 14.81 0.00        0.00      0.000 1.00            0.07 .20   1.41 L
                        S      53.75 25.83 25.92 0.00 -0.09 1.01S     0.332
FNA  AC  HHZ   110.7 126  90 P      47.41 19.49 19.64 0.00 -0.15 1.01      0.333
FNA  AC  HHE   110.7 126  90 S      62.33 34.41 34.37 0.00  0.04 1.01S     0.611


YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH  RMS   ERH   ERZ  XMAG  FMAG  PMAG
2015-08-29  1644 14.63  40 17.25  19E29.66  14.02  0.62  1.59  2.77  2.98  3.10  3.0
                                                                    SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
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    16    24   20.1  Atl  120   7   0  12   6  16                    0.00  0.00 L    2.00  0.29 D
REGION=  Orikum, Rajoni Vlorë (orikum, Vlora  Region, Albania)


STA NET COM CR DIST AZM   AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)  WT    SR  INFO   CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
VLO  AC HHZ     20.1   0 137  P      19.68  5.05  5.63 0.00 -0.48 1.70      0.973
VLO  AC HHN     20.1   0 137  S      22.31  7.68  9.85 0.00 -0.17 0.13S     0.020
SRN  AC HHZ     62.5 136 102  P      25.91 11.28 11.64 0.00 -0.36 1.70      0.258 1.00  26   2.88 D
SRN  AC HHE     62.5 136 102  S      33.87 19.24 20.37 0.00 -0.13 1.70S     0.744
SCTE AC HHZ     90.4 256  96  P      31.00 16.37 16.03 0.00  0.34 1.39      0.380
SCTE AC HHE     90.4 256  96  S      42.99 28.36 28.05 0.00  0.31 1.39S     0.607
LSK  AC HHZ     95.2  98  95  P      31.21 16.58 16.80 0.00 -0.22 1.23      0.273
LSK  AC HHE     95.2  98  92d                                                         SOURCE




YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS   ERH   ERZ  XMAG  FMAG  PMAG
2015-08-30  2251 53.62  41 19.68   20E16.58  14.69  0.17  0.60  1.70  2.58  2.53  2.5
                                                                         SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
  10   15  34.5  Atl 132   6   0   9   4  10               2.00  0.07 L    2.00  0.04 D
REGION=  Neshtë, 14km  V të Librazhdit, Rajoni Librazhdit (Neshtë, 14km N of Librazhdit, Librazhdi  Region,
Albania)


STA NET COM CR DIST AZM   AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)  WT    SR  INFO   CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
TIR  AC HHZ     34.5 274 104  P      60.40  6.78  6.80 0.00 -0.02 1.00      0.287 1.00  20   2.49 D
TIR  AC HHN     34.5 274 104     6   60.00  6.38  6.80 0.00       0.00      0.000 1.00              0.51 .18   1.75 L
                           S       65.44 11.82 11.90 0.00 -0.08 1.00S     0.678
PHP  AC HHZ     41.9  19  99  P      61.69  8.07  8.02 0.00  0.05 1.00      0.269 1.00  21   2.56 D
PHP  AC HHN     41.9  19  99     6   60.00  6.38  8.02 0.00       0.00      0.000 1.00              0.32 .18   1.61 L
                           S       67.54 13.92 14.03 0.00 -0.11 1.00S     0.706
PUK  AC HHZ     85.6 339  91  P      69.21 15.59 15.34 0.00  0.25 1.00      0.145
PUK  AC HHN     85.6 339  91  S      81.06 27.44 26.84 0.00  0.39 0.00S     0.000
KBN  AC HHZ     89.3 151  90  P      69.44 15.82 15.97 0.00 -0.15 1.00      0.338
KBN  AC HHN     89.3 151  90  S      81.60 27.98 27.95 0.00  0.03 1.00S     0.633
BCI  AC HHZ    116.7 352  71  P      74.34 20.72 20.46 0.00  0.26 1.00      0.296
BCI  AC HHN    116.7 352  71  S      89.12 35.50 35.81 0.00 -0.31 0.98S     0.643
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Tërmetet Rajonalë   (Parametric Data for Regional Events recorded by ASN)

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YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH  RMS   ERH   ERZ  XMAG  FMAG  PMAG
2015-08-03  0727 50.70  39 17.11   16E43.18  50.90  0.17  1.41 18.79  3.97  4.04  4.0
                                                                           SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
  16   20 169.5  Atl  247   8   0  13   4  15     -        2.00  0.13 L    2.00  0.16 D
REGION=  Italia e Jugut (Southern Italy)


STA NET COM CR DIST AZM  AN P/S WT   SEC (TOBS -TCAL -DLY  =RES)  WT   SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
NOCI AC HHZ    169.5   9  90  P     78.21 27.51 27.05 0.00  0.46 0.71       0.069 1.00  75   4.19 D
NOCI AC HHE    169.5   9  90  S     97.93 47.23 47.34 0.00 -0.11 1.02S      0.401
SCTE AC HHZ    173.9  59  90  P     79.20 28.50 27.63 0.00  0.87* 0.00      0.000 1.00  52   3.88 D
SCTE AC HHN    173.9  59  90  S     99.12 48.42 48.35 0.00  0.07 1.02S      0.418
SGRT AC HHZ    285.6 344  90  P     93.20 42.50 42.40 0.00  0.10 1.02       0.336
SGRT AC HHE    285.6 344  90  S    124.71 74.01 74.20 0.00 -0.19 1.02S      0.419
SRN  AC HHZ    289.6  75  90  P     93.84 43.14 42.93 0.00  0.21 1.02       0.159
SRN  AC HHN    289.6  75  90    6  120.00 69.30 42.93 0.00       0.00       0.000 1.00             1.1 .54   3.84 L
                           S    125.77 75.07 75.13 0.00 -0.06 1.02S      0.346
IGT  AC HHZ    312.2  83  90  P     96.57 45.87 45.93 0.00 -0.06 1.02       0.209
LKD2 AC HHZ    345.5  97  90  P    100.75 50.05 50.33 0.00 -0.28 1.02       0.350
LSK  AC HHZ    346.3  72  90  P    102.10 51.40 50.43 0.00  0.97* 0.00      0.000
TIR  AC HHZ    352.1  48  90  P    101.73 51.03 51.20 0.00 -0.17 1.02       0.166
PUK  AC HHZ    407.2  40  90  P    109.15 58.45 58.48 0.00 -0.03 1.02       0.081
PHP  AC HHZ    413.1  48  90  P    110.08 59.38 59.26 0.00  0.12 1.02       0.956
PHP  AC HHN    413.1  48  90    6  120.00 69.30 59.26 0.00       0.00       0.000 1.00           0.83 .56   4.09 L
BCI  AC HHZ    443.7  38  90  P    114.15 63.45 63.32 0.00  0.13 1.02       0.085



YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH  RMS   ERH   ERZ  XMAG  FMAG  PMAG
2015-08-03  2131 25.56  39 54.02   20E46.46  13.69  0.22  1.13  1.46  1.87  2.31  2.3
                                                                           SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
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   9   13  31.5  Atl  224  15   0   9   4   9               3.00  0.17 L   2.00  0.04 D
REGION= Greqi (Greece)


STA NET COM CR DIST AZM  AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)  WT    SR   INFO   CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
LSK  AC HHZ     31.5 332 108  P     31.20  5.64  6.26 0.00 -0.62* 0.28      0.019 1.00  16   2.27 D
LSK  AC HHN     31.5 332 108      6  0.00-25.56  6.26 0.00        0.00      0.000 1.00                1.6 .68   2.23 L
                            S     36.55 10.99 10.95 0.00  0.03  1.23S      0.974
IGT  AC HHZ     55.9 224  99  P     35.54  9.98 10.35 0.00 -0.37  1.23      0.433
IGT  AC HHN     55.9 224  99  S     43.88 18.32 18.11 0.00  0.21  1.23S      0.536
SRN  AC HHZ     66.2 269  78  P     37.94 12.38 12.09 0.00  0.29  1.23      0.222 1.00  16   2.34 D
SRN  AC HHN     66.2 269  78      6  0.00-25.56 12.09 0.00        0.00      0.000 1.00               0.29 .37   1.87 L
                            S     46.57 21.01 21.16 0.00 -0.15  1.23S      0.828
KBN  AC HHZ     80.3   0  78  P     40.19 14.63 14.46 0.00  0.17  1.23      0.428
KBN  AC HHN     80.3   0  78      6  0.00-25.56 14.46 0.00        0.00      0.000 1.00               0.14 .51   1.70 L
                            S     50.76 25.20 25.31 0.00 -0.11  1.23S      0.553
SCTE AC HHZ    197.9 277  68  P     59.01 33.45 33.47 0.00 -0.02  0.12      0.003




YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS   ERH   ERZ  XMAG  FMAG  PMAG
2015-08-03  2330 38.50  40 47.74  21E11.78   6.35  0.23  1.15  1.88  2.72  3.03  3.0
                                                                                            SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T  N.FMG-FMMAD-T  L F X
  15   22  39.5  Atl  236   7   0  13   7  14               6.00  0.15 L   4.00  0.08 D
REGION= Greqi (Greece)


STA NET COM CR DIST AZM  AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)  WT    SR   INFO   CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
KBN  AC HHZ     39.5 242  90  P     46.13  7.63  7.41 0.00  0.22  1.08      0.197 1.00  31   2.83 D
KBN  AC HHE     39.5 242  90      6  0.00-38.50  7.41 0.00        0.00      0.000 1.00                3.4 .25   2.58 L
                            S     51.22 12.72 12.97 0.00 -0.25  1.08S      0.418
LSK  AC HHZ     87.8 216  90  P     53.31 14.81 15.72 0.00 -0.41  0.00      0.000 1.00  42   3.13 D
LSK  AC HHE     87.8 216  90  S     65.87 27.37 27.51 0.00 -0.14  1.08S      0.392
LSK  AC HHN     87.8 216  90      6 60.00 21.50 15.72 0.00        0.00      0.000 1.00                2.0 .46   2.91 L
PHP  AC HHZ    117.3 328  90  P     59.13 20.63 20.78 0.00 -0.15  1.08      0.332 1.00  38   3.07 D
PHP  AC HHN    117.3 328  90      6 60.00 21.50 20.78 0.00        0.00      0.000 1.00               0.77 .56   2.72 L
                            S     74.64 36.14 36.36 0.00 -0.22  1.08S      0.324
TIR  AC HHZ    127.6 300  90  P     61.12 22.62 22.55 0.00  0.07  1.08      0.159
TIR  AC HHN    127.6 300  90      6 60.00 21.50 22.55 0.00        0.00      0.000 1.00               0.37 .57   2.47 L
                            S     78.26 39.76 39.46 0.00  0.30  1.08S      0.471
SRN  AC HHZ    143.7 226  68  P     64.20 25.70 25.30 0.00  0.40  1.04      0.156 1.00  33   2.98 D
SRN  AC HHE    143.7 226  68      6 60.00 21.50 25.30 0.00        0.00      0.000 1.00               0.51 .41   2.72 L
                            S     82.92 44.42 44.27 0.00  0.15  1.08S      0.473
IGT  AC HHZ    158.6 209  68  P     66.29 27.79 27.67 0.00  0.12  1.02      0.276
IGT  AC HHE    158.6 209  68  S     86.53 48.03 48.42 0.00 -0.39  1.00S      0.326
BCI  AC HHZ    198.3 333  68  P     72.47 33.97 33.99 0.00 -0.02  0.65      0.140
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BCI   AC HHN    198.3 333  68       6  60.00 21.50 33.99 0.00          0.00      0.000 1.00                      0.33 .89   2.87 L
                                    S         97.78 59.28 59.48 0.00 -0.20  0.65S    0.328




YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS    ERH    ERZ   XMAG   FMAG   PMAG
2015-08-03 2332  9.03  40 47.63   21E14.23   2.37   0.28   0.71   1.15   2.91   2.93   2.9
                                                                                    SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
  15   21  42.5  Atl  124   9   0  13   6  14                7.00  0.09 L   3.00  0.10 D
REGION= Greqi (Greece)


STA NET COM CR DIST AZM  AN P/S WT   SEC (TOBS -TCAL -DLY  =RES)  WT    SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
KBN   AC HHZ     42.5 244  51 P       17.22  8.19  8.37 0.00 -0.18  1.05    0.250 1.00  30   2.81 D
KBN   AC HHN     42.5 244  51       6  0.00 -9.03  8.37 0.00        0.00    0.000 1.00               8.1 .21   2.98 L
                                    S         23.74 14.71 14.65 0.00  0.06  1.05S    0.259
LSK   AC HHZ     89.7 218  51 P       24.59 15.56 16.48 0.00 -0.42  0.00    0.000 1.00  33   2.93 D
LSK   AC HHE     89.7 218  51       6  0.00 -9.03 16.48 0.00        0.00    0.000 1.00              1.91.01   2.91 L
                                    S         37.86 28.83 28.84 0.00 -0.01  1.05S    0.362
PHP   AC HHZ    119.4 327  51 P       30.25 21.22 21.58 0.00 -0.36  1.05    0.253 1.00  36   3.03 D
PHP   AC HHN    119.4 327  51       6  0.00 -9.03 21.58 0.00        0.00    0.000 1.00              0.93 .46   2.81 L
                                    S         46.42 37.39 37.76 0.00 -0.38  1.05S    0.416
TIR   AC HHZ    130.7 299  51 P       32.71 23.68 23.53 0.00  0.15  1.05    0.274
TIR   AC HHN    130.7 299  51       6  0.00 -9.03 23.53 0.00        0.00    0.000 1.00              0.50 .34   2.62 L
                                    S         50.56 41.53 41.18 0.00  0.35  1.05S    0.303
SRN   AC HHZ    146.1 227  51 P       35.24 26.21 26.17 0.00  0.04  1.05    0.229
SRN   AC HHE    146.1 227  51       6  0.00 -9.03 26.17 0.00        0.00    0.000 1.00              1.3 .69   3.13 L
                                    S         54.45 45.42 45.80 0.00 -0.38  1.05S    0.302
THE   AC HHZ    146.9  96  51 P       35.33 26.30 26.32 0.00 -0.02  1.05    0.818
VLO   AC HHN    151.7 257  46       6  60.00 50.97 27.13 0.00        0.00    0.000 1.00              0.87 .30   3.00 L
IGT   AC HHZ    160.1 210  46 P       37.93 28.90 28.46 0.00  0.44  1.04    0.176
BCI   AC HHZ    200.1 332  46 P       43.98 34.95 34.84 0.00  0.11  0.77    0.106
BCI   AC HHN    200.1 332  46       6  60.00 50.97 34.84 0.00        0.00    0.000 1.00              0.34 .60   2.89 L
                                    S         70.53 61.50 60.97 0.00  0.53* 0.67S    0.246




YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS    ERH    ERZ   XMAG   FMAG   PMAG
2015-08-03 2335 56.70  40 45.30   21E18.64   2.00   0.30   0.76   1.46   2.99   3.11   3.1
                                                                                    SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
  15   22  46.6  Atl  124   5   0  15   7  15        #       6.00  0.15 L   2.00  0.00 D
REGION= Greqi (Greece)


STA NET COM CR DIST AZM  AN P/S WT   SEC (TOBS -TCAL -DLY  =RES)  WT    SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
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KBN   AC HHZ    46.6 252  51  P     65.83  9.13  9.26 0.00 -0.13  1.03       0.205 1.00  43   3.11 D
KBN   AC HHN    46.6 252  51      6 60.00  3.30  9.26 0.00        0.00       0.000 1.00                 7.8 .18   3.02 L
                            S     72.43 15.73 16.20 0.00 -0.47  1.03S      0.216
LSK   AC HHZ    90.3 223  51  P     73.06 16.36 16.78 0.00 -0.42  1.03       0.186 1.00  41   3.11 D
LSK   AC HHE    90.3 223  51      6 60.00  3.30 16.78 0.00        0.00       0.000 1.00                 2.1 .60   2.95 L
                            S     86.31 29.61 29.36 0.00  0.25  1.03S      0.236
PHP   AC HHZ   126.4 326  51  P     79.76 23.06 22.98 0.00  0.08  1.03       0.209
PHP   AC HHN   126.4 326  51      6 60.00  3.30 22.98 0.00        0.00       0.000 1.00                0.85 .56   2.82 L
                            S     97.01 40.31 40.22 0.00  0.09  1.03S      0.347
TIR   AC HHZ   138.2 299  51  P     81.34 24.64 25.01 0.00 -0.37  1.03       0.213
TIR   AC HHN   138.2 299  51      6 60.00  3.30 25.01 0.00        0.00       0.000 1.00                0.49 .43   2.66 L
                            S    100.60 43.90 43.77 0.00  0.13  1.03S      0.266
THE   AC HHZ   140.3  95  51  P     81.93 25.23 25.37 0.00 -0.14  1.03       0.755
SRN   AC HHZ   147.8 230  51  P     83.85 27.15 26.65 0.00  0.50* 0.99       0.172
SRN   AC HHE   147.8 230  51      6 60.00  3.30 26.65 0.00        0.00       0.000 1.00                 1.2 .75   3.12 L
                            S    103.47 46.77 46.64 0.00  0.13  1.03S      0.217
IGT   AC HHZ   159.5 212  46  P     85.80 29.10 28.58 0.00  0.52* 0.94       0.128
IGT   AC HHN   159.5 212  46  S    106.50 49.80 50.01 0.00 -0.21  1.03S      0.393
BCI   AC HHZ   206.9 331  46  P     92.53 35.83 36.13 0.00 -0.30  0.86       0.121
BCI   AC HHE   206.9 331  46      6 120.00 63.30 36.13 0.00        0.00       0.000 1.00                0.60 .74   3.17 L
                            S    120.23 63.53 63.23 0.00  0.30  0.86S      0.329


 YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS    ERH    ERZ   XMAG  FMAG  PMAG
 2015-08-05  0411 20.30  40  6.78   20E45.82   4.13  0.23   0.94   1.09   1.90  2.14  1.9
                                                                                   SOURCE
 NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
    9   13  14.6  Atl  176  14   0   9   4   9             3.00  0.23 L    2.00  0.31 D
 REGION= Greqi (Greece)


 STA NET COM CR DIST AZM  AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)   WT   SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
 LSK   AC HHZ    14.6 287 100  P     23.67  3.37  3.08 0.00  0.29  1.60       0.494 1.00  11   1.83 D
 LSK   AC HHE    14.6 287 100      6  0.00-20.30  3.08 0.00        0.00       0.000 1.00                 9.6 .50   2.73 L
                            S     25.52  5.22  5.39 0.00 -0.17  1.60S      0.776
 KBN   AC HHZ    56.7   2  62  P     30.53 10.23 10.54 0.00 -0.31  1.56       0.460
 KBN   AC HHE    56.7   2  62      6  0.00-20.30 10.54 0.00        0.00       0.000 1.00                0.26 .28   1.67 L
                            S     38.91 18.61 18.44 0.00  0.17  1.56S      0.792
 SRN   AC HHZ    70.1 249  62  P     33.72 13.42 12.84 0.00  0.58* 0.31       0.023 1.00  19   2.44 D
 SRN   AC HHE    70.1 249  62      6  0.00-20.30 12.84 0.00        0.00       0.000 1.00                0.28 .43   1.90 L
                            S     42.77 22.47 22.47 0.00  0.00  1.12S      0.871
 IGT   AC HHZ    74.5 211  62  P     33.82 13.52 13.60 0.00 -0.08  0.92       0.549
 FNA   AC HHZ    91.0  35  62  P     36.98 16.68 16.43 0.00  0.25  0.19       0.019
 FNA   AC HHE    91.0  35  62  S     49.53 29.23 28.75 0.00  0.48  0.15S      0.012
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 YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS    ERH    ERZ   XMAG  FMAG  PMAG
2015-08-05  1353 43.53  41 40.01  22E40.72  13.89  0.23   2.00   2.68  3.01  3.15  3.0
                                                                                      SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T    N.FMG-FMMAD-T  L F X
  11   16 117.4  Atl  256   5   0  10   5  10              3.00  0.00 L    2.00  0.20 D
REGION= Maqedoni (FYROM)


STA NET COM CR DIST AZM  AN P/S WT   SEC (TOBS -TCAL -DLY  =RES)   WT   SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
THE  AC HHZ    117.4 168  68  P    64.19 20.66 20.62 0.00  0.04  1.00       0.396 1.00  31  2.95 D
THE  AC HHN    117.4 168  68  S    79.42 35.89 36.08 0.00 -0.19  1.00S      0.539
PHP  AC HHZ    186.4 272  68  P    75.32 31.79 31.62 0.00  0.17  1.00       0.389 1.00  46  3.34 D
PHP  AC HHN    186.4 272  68     6 60.00 16.47 31.62 0.00        0.00       0.000 1.00               0.54 .92   3.01 L
                          S      98.50 54.97 55.33 0.00 -0.36  0.99S      0.410
KBN  AC HHZ    196.6 235  68  P    76.43 32.90 33.24 0.00 -0.34  1.00       0.278
KBN  AC HHE    196.6 235  68  S   102.04 58.51 58.17 0.00  0.34  1.00S      0.784
KBN  AC HHN    196.6 235  68     6 60.00 16.47 33.24 0.00        0.00       0.000 1.00               0.37 .77   2.91 L
LSK  AC HHZ    243.1 227  50  P    83.40 39.87 39.63 0.00  0.24  1.00       0.181
LSK  AC HHE    243.1 227  50     6 60.00 16.47 39.63 0.00        0.00       0.000 1.00               0.27 .80   3.01 L
                          S     112.95 69.42 69.35 0.00  0.07  1.00S      0.423
IGT  AC HHZ    309.5 221  50  P    92.07 48.54 48.40 0.00  0.14  1.00       0.175
IGT  AC HHE    309.5 221  50  S   128.07 84.54 84.70 0.00 -0.16  1.00S      0.420




 YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS    ERH    ERZ   XMAG  FMAG  PMAG
2015-08-10  1001 20.88  40  8.63  20E44.63   2.64  0.03   0.88   1.25  2.55  2.47  2.5
                                                                                      SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T    N.FMG-FMMAD-T  L F X
  11   16  12.4  Atl  205   8   0   7   3  11              2.00  0.47 L    2.00  0.07 D
REGION= Greqi (Greece)


STA NET COM CR DIST AZM  AN P/S WT   SEC (TOBS -TCAL -DLY  =RES)   WT   SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
LSK  AC HHZ     12.4 274  94  P    23.51  2.63  2.61 0.00  0.02  1.55       0.639 1.00  22  2.40 D
LSK  AC HHN     12.4 274  94     6  0.00-20.88  2.61 0.00        0.00       0.000 1.00               22 .68   3.02 L
                          S      25.42  4.54  4.57 0.00 -0.03  1.55S      0.875
KBN  AC HHZ     53.4   3  62  P    30.96 10.08 10.11 0.00 -0.03  1.35       0.544
KBN  AC HHN     53.4   3  62  S    38.58 17.70 17.69 0.00  0.01  1.35S      0.847
SRN  AC HHZ     69.9 246  62  P    33.70 12.82 12.94 0.00 -0.12  0.51       0.266 1.00  21  2.53 D
SRN  AC HHN     69.9 246  62     6  0.00-20.88 12.94 0.00        0.00       0.000 1.00               0.42 .46   2.08 L
                          S      43.56 22.68 22.64 0.00  0.03  0.51S      0.737
IGT  AC HHZ     76.7 208  62  P    35.11 14.23 14.10 0.00  0.13  0.20       0.088
IGT  AC HHE     76.7 208  62  S    46.05 25.17 24.67 0.00  0.50  0.00S      0.000
FNA  AC HHZ     89.2  37  62  P    36.53 15.65 16.26 0.00 -0.41  0.00       0.000
```

```
FNA   AC HHN    89.2  37  62  S      49.41 28.53 28.45 0.00  0.08  0.00S    0.000
PHP   AC HHZ   173.0 352  55  P      53.63 32.75 30.36 0.00  2.39* 0.00     0.000




YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS    ERH    ERZ   XMAG  FMAG   PMAG
2015-08-24  0425 17.97  40 47.56   21E14.23  12.24  0.25   0.64   1.88  4.19  3.62   3.7
                                                                                 SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T  N.FMG-FMMAD-T  L F X
  18   24  42.4  Atl  124   7   0  15   6  16               7.00  0.15 L   3.00  0.09 D
REGION= Greqi (Greece)

STA NET COM CR DIST AZM   AN P/S WT   SEC (TOBS -TCAL -DLY  =RES)  WT    SR   INFO   CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
KBN   AC HHZ    42.4 244  51  P      26.49  8.52  8.37 0.00  0.15  1.08       0.224 1.00  71   3.53 D
KBN   AC HHE    42.4 244  51      6   0.00-17.97  8.37 0.00        0.00       0.000 1.00                91 .25   4.04 L
                         S      32.43 14.46 14.65 0.00 -0.19  1.08S       0.257
LSK   AC HHZ    89.6 218  51  P      33.80 15.83 16.48 0.00 -0.45  0.55       0.052 1.00  87   3.75 D
LSK   AC HHN    89.6 218  51  S      46.60 28.63 28.84 0.00 -0.21  1.08S      0.355
LSK   AC HHE    89.6 218  51      6   0.00-17.97 16.48 0.00        0.00       0.000 1.00                47 .60   4.29 L
PHP   AC HHZ   119.5 327  51  P      39.30 21.33 21.62 0.00 -0.29  1.08       0.218 1.00  72   3.62 D
PHP   AC HHN   119.5 327  51      6   0.00-17.97 21.62 0.00        0.00       0.000 1.00                22 .56   4.19 L
                         S      56.23 38.26 37.83 0.00  0.43  1.08S       0.374
TIR   AC HHZ   130.8 299  51  P      41.51 23.54 23.56 0.00 -0.02  1.08       0.241
TIR   AC HHN   130.8 299  51      6   0.00-17.97 23.56 0.00        0.00       0.000 1.00                11 .83   3.96 L
                         S      59.21 41.24 41.23 0.00  0.01  1.08S       0.286
SRN   AC HHZ   146.0 227  51  P      44.41 26.44 26.17 0.00  0.27  1.08       0.206
SRN   AC HHE   146.0 227  51      6  60.00 42.03 26.17 0.00        0.00       0.000 1.00                29 .74   4.48 L
                         S      63.81 45.84 45.80 0.00  0.04  1.08S       0.297
THE   AC HHZ   146.9  96  51  P      44.27 26.30 26.33 0.00 -0.03  1.08       0.806
VLO   AC HHZ   151.7 257  46  P      46.48 28.51 27.14 0.00  0.37  0.00       0.000
IGT   AC HHZ   159.9 210  46  P      46.83 28.86 28.46 0.00  0.40  1.07       0.165
PUK   AC HHZ   178.6 322  46  P      49.02 31.05 31.44 0.00 -0.39  0.98       0.130
PUK   AC HHE   178.6 322  46      6  60.00 42.03 31.44 0.00        0.00       0.000 1.00               7.2 .66   4.08 L
BCI   AC HHZ   200.2 332  46  P      52.80 34.83 34.88 0.00 -0.05  0.79       0.090
BCI   AC HHE   200.2 332  46      6  60.00 42.03 34.88 0.00        0.00       0.000 1.00                13 .62   4.48 L
                         S      78.88 60.91 61.04 0.00 -0.13  0.79S       0.292




YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS    ERH    ERZ   XMAG  FMAG   PMAG
2015-08-26  0755 47.93  39 21.28   20E15.84   0.02  0.34   2.00   3.06        3.07
                                                                                 SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T  N.FMG-FMMAD-T  L F X
  12   17  20.4  Atl  188   9   0   7   3  12       #       0.00  0.00 L   1.00  0.00 D
REGION=  Greqi (Greece)
```

```
STA NET COM CR DIST AZM   AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)   WT    SR   INFO   CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
IGT  AC HHZ     20.4  16   61 P       52.25  4.32  4.37 0.00 -0.05  1.18       0.625 1.00   46   3.07 D
IGT  AC HHN     20.4  16   61 S       54.62  6.69  7.65 0.00 -0.96* 0.42S      0.125
SRN  AC HHZ     62.6 339   51 P       60.09 12.16 12.01 0.00  0.15  1.18       0.516
SRN  AC HHE     62.6 339   51 S       69.24 21.31 21.02 0.00  0.29  1.18S      0.805
LKD2 AC HHZ     71.4 151   51 P       61.57 13.64 13.53 0.00  0.11  1.18       0.980
LSK  AC HHZ     92.8  17   51 P       64.62 16.69 17.21 0.00 -0.52* 0.94       0.192
LSK  AC HHN     92.8  17   51 S       78.64 30.71 30.12 0.00  0.59* 0.94S      0.753
KBN  AC HHZ    147.8  17   51 P       73.90 25.97 26.66 0.00 -0.69* 0.00       0.000
KBN  AC HHN    147.8  17   51 S       94.86 46.93 46.65 0.00  0.28  0.00S      0.000
SCTE AC HHZ    173.6 299   46 P       78.51 30.58 30.83 0.00 -0.25  0.00       0.000
FNA  AC HHZ    185.0  30   46 P       81.17 33.24 32.64 0.00  0.60* 0.00       0.000
FNA  AC HHN    185.0  30   46 S      105.16 57.23 57.12 0.00  0.11  0.00S      0.000


YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS   ERH   ERZ  XMAG  FMAG  PMAG
2015-08-26  0755 47.96  39 21.44   20E16.13   2.02  0.25  1.57  2.29  3.05  3.04  3.0
                                                                            SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
  12   17  20.0  Atl  188   9   0   7   3  12      #       2.00  0.01 L   1.00  0.00 D
REGION= Greqi (Greece)

STA NET COM CR DIST AZM   AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)   WT    SR   INFO   CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
IGT  AC HHZ     20.0  15   61 P       52.25  4.29  4.29 0.00  0.00  1.23       0.654
IGT  AC HHN     20.0  15   61 S       54.62  6.66  7.51 0.00 -0.45  0.19S      0.026
SRN  AC HHZ     62.4 339   51 P       60.09 12.13 11.98 0.00  0.15  1.23       0.519
SRN  AC HHE     62.4 339   51 S       69.24 21.28 20.97 0.00  0.31  1.23S      0.811
LKD2 AC HHZ     71.5 151   51 P       61.57 13.61 13.55 0.00  0.06  1.23       0.985
LSK  AC HHZ     92.4  17   51 P       64.62 16.66 17.14 0.00 -0.48  0.95       0.197 1.00   49   3.27 D
LSK  AC HHN     92.4  17   51    6   60.00 12.04 17.14 0.00        0.00       0.000 1.00              2.8 .69   3.08 L
                              S       78.22 30.26 29.99 0.00  0.27  0.95S      0.805
KBN  AC HHZ    147.4  17   51 P       73.90 25.94 26.58 0.00 -0.34  0.00       0.000
KBN  AC HHN    147.4  17   51    6   60.00 12.04 26.58 0.00        0.00       0.000 1.00              1.1 .93   3.07 L
                              S       94.86 46.90 46.51 0.00  0.39  0.00S      0.000
SCTE AC HHZ    173.8 298   46 P       78.51 30.55 30.86 0.00 -0.31  0.00       0.000
FNA  AC HHZ    184.5  30   46 P       81.17 33.21 32.57 0.00  0.34  0.00       0.000
FNA  AC HHN    184.5  30   46 S      105.16 57.20 57.00 0.00  0.20  0.00S      0.000



YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS   ERH   ERZ  XMAG  FMAG  PMAG
2015-08-26  2041 53.83  40 48.03   21E15.35   7.55  0.25  1.09  1.43  4.21  4.03  4.0
```

```
                                                                    SOURCE
NSTA NPHS   DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
  17   25   44.2  Atl 239  11   0  15   8  16              5.00  0.28 L   3.00  0.09 D
REGION= Greqi (Greece)


STA NET COM CR DIST AZM   AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)   WT    SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
KBN  AC HHZ    44.2 244   92  P     62.35  8.52  8.23 0.00  0.29  1.13      0.161 1.00 127   4.03 D
KBN  AC HHE    44.2 244   92      6 60.00  6.17  8.23 0.00        0.00      0.000 1.00               105 .50    4.12 L
                       S        68.10 14.27 14.40 0.00 -0.13  1.13S     0.388
LSK  AC HHZ    91.2 218   91  P     69.76 15.93 16.33 0.00 -0.40  1.13      0.252 1.00 134   4.12 D
LSK  AC HHE    91.2 218   91  S     82.47 28.64 28.58 0.00  0.06  1.13S     0.294
LSK  AC HHN    91.2 218   91      6 60.00  6.17 16.33 0.00        0.00      0.000 1.00                76 .51    4.51 L
PHP  AC HHZ   119.6 326   90  P     75.22 21.39 21.18 0.00  0.21  1.13      0.302 1.00  94   3.84 D
PHP  AC HHN   119.6 326   90      6 60.00  6.17 21.18 0.00        0.00      0.000 1.00               231.00    4.21 L
                       S        90.93 37.10 37.07 0.00  0.03  1.13S     0.346
TIR  AC HHZ   131.7 298   90  P     78.00 24.17 23.26 0.00  0.41  0.10      0.001
TIR  AC HHN   131.7 298   90      6 60.00  6.17 23.26 0.00        0.00      0.000 1.00                10 .56    3.93 L
                       S        94.59 40.76 40.71 0.00  0.05  1.13S     0.374
SRN  AC HHZ   147.7 227   68  P     79.78 25.95 25.86 0.00  0.09  1.13      0.148
SRN  AC HHN   147.7 227   68  S     99.24 45.41 45.25 0.00  0.16  1.13S     0.282
VLO  AC HHZ   153.4 257   68  P     81.86 28.03 26.77 0.00  1.26* 0.00      0.000
VLO  AC HHN   153.4 257   68  S    100.48 46.65 46.85 0.00 -0.20  1.13S     0.438
IGT  AC HHZ   161.5 210   68  P     81.48 27.65 28.05 0.00 -0.40  1.12      0.250
IGT  AC HHE   161.5 210   68  S    103.20 49.37 49.09 0.00  0.28  1.12S     0.304
BCI  AC HHZ   200.2 331   68  P     88.81 34.98 34.23 0.00  0.75* 0.49      0.069
BCI  AC HHE   200.2 331   68      6 60.00  6.17 34.23 0.00        0.00      0.000 1.00               191.36    4.64 L
                       S       113.45 59.62 59.90 0.00 -0.28  0.90S     0.384



YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS    ERH    ERZ   XMAG  FMAG   PMAG
2015-08-27  1601 43.35   40 46.63   21E20.29  3.02   0.84   4.67   5.53  3.87  3.87   3.9
                                                                    SOURCE
NSTA NPHS   DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
  20   30   49.6  Atl 253  12   0  18   9  20        #     3.00  0.38 L   5.00  0.03 D
REGION=  Greqi (Greece)


STA NET COM CR DIST AZM   AN P/S WT    SEC (TOBS -TCAL -DLY  =RES)   WT    SR   INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
KBN  AC HHN    49.6 251   51      6  0.00-43.35  9.78 0.00        0.00      0.000 1.00                52 .36    3.87 L
                       S        59.22 15.87 17.11 0.00 -0.25  1.01S     0.262
KBN  AC HHZ    49.6 251   51  P     53.06  9.71  9.78 0.00 -0.07  1.01      0.155 1.00 137   4.10 D
POGR AC HHN    57.2 284   51  S     64.00 20.65 19.41 0.00  0.24  1.01S     0.329
POGR AC HHZ    57.2 284   51  P     55.20 11.85 11.09 0.00  0.36  1.01      0.182
LSK  AC HHN    93.7 223   51      6 60.00 16.65 17.36 0.00        0.00      0.000 1.00                40 .62    4.25 L
                       S        73.89 30.54 30.38 0.00  0.16  1.01S     0.418
```

```
LSK   AC HHZ    93.7 223  51  P        60.26 16.91 17.36 0.00 -0.45  1.01       0.218 1.00 103    3.90 D
PHP   AC HHN   125.8 324  51  S        85.17 41.82 40.02 0.00  0.40  1.01S      0.188
PHP   AC HHZ   125.8 324  51  P        66.62 23.27 22.87 0.00  0.40  1.01       0.168 1.00  97    3.87 D
TIR   AC HHN   139.1 298  51      6    60.00 16.65 25.16 0.00        0.00       0.000 1.00              3.3 .50    3.49 L
                                S        87.85 44.50 44.03 0.00  0.47  1.01S      0.257
TIR   AC HHZ   139.1 298  51  P        69.19 25.84 25.16 0.00  0.38  1.01       0.167 1.00  86    3.78 D
SRN   AC HHN   151.2 230  51  S        91.15 47.80 47.65 0.00  0.15  1.01S      0.306
SRN   AC HHZ   151.2 230  51  P        70.82 27.47 27.23 0.00  0.24  1.01       0.178 1.00  92    3.85 D
LACI  AC HHN   165.9 306  46  S        95.90 52.55 51.80 0.00  0.25  1.01S      0.173
LACI  AC HHZ   165.9 306  46  P        73.20 29.85 29.60 0.00  0.25  1.01       0.107
PUK   AC HHN   185.4 320  46  S       101.88 58.53 57.23 0.00  0.30  1.00S      0.238
PUK   AC HHZ   185.4 320  46  P        76.76 33.41 32.70 0.00  0.41  1.00       0.139
BCI   AC HHN   205.9 330  46  S       107.62 64.27 62.97 0.00  0.30  0.93S      0.337
BCI   AC HHZ   205.9 330  46  P        79.56 36.21 35.98 0.00  0.23  0.93       0.171
SDA   AC HHN   208.7 314  46  S        89.00 45.65 63.75 0.00  0.50  0.00S      0.000
SDA   AC HHZ   208.7 314  46  P        70.10 26.75 36.43 0.00  0.48  0.00       0.000


YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH   RMS   ERH   ERZ  XMAG  FMAG  PMAG
2015-08-29  1249 10.54  39 23.08   20E31.30  13.08  0.74  2.49  2.97  3.55  3.47  3.5
                                                                              SOURCE
NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T  N.FMG-FMMAD-T  L F X
  15   22  67.2  Atl  160   6   0  14   7  15             2.00  0.06 L   1.00  0.00 D
REGION=  Greqi (Greece)

STA NET COM CR DIST AZM  AN P/S WT   SEC (TOBS -TCAL -DLY  =RES)  WT   SR  INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
LKD2 AC HHZ    67.2 169  97  P        22.40 11.86 12.24 0.00 -0.38  1.07       0.332
LKD2 AC HHE    67.2 169  97  S        32.76 22.22 21.42 0.00  0.40  1.07S      0.585
SRN  AC HHZ    70.9 322  96  P        22.67 12.13 12.88 0.00 -0.45  1.07       0.242
SRN  AC HHE    70.9 322  96  S        33.21 22.67 22.54 0.00  0.13  1.07S      0.536
LSK  AC HHZ    85.2   4  78  P        25.12 14.58 15.30 0.00 -0.42  1.07       0.179
LSK  AC HHN    85.2   4  78      6     0.00-10.54 15.30 0.00        0.00       0.000 1.00              11 .68    3.64 L
                                S        37.36 26.82 26.77 0.00  0.05  1.07S      0.351
KBN  AC HHZ   139.4   9  68  P        35.66 25.12 24.18 0.00  0.34  1.07       0.147 1.00  57    3.47 D
KBN  AC HHE   139.4   9  68      6     0.00-10.54 24.18 0.00        0.00       0.000 1.00              3.5 .74    3.52 L
                                S        53.97 43.43 42.32 0.00  0.22  1.07S      0.293
VLO  AC HHZ   148.9 325  68  P        36.88 26.34 25.70 0.00  0.26  1.07       0.133
VLO  AC HHN   148.9 325  68  S        56.12 45.58 44.97 0.00  0.49  1.07S      0.356
TIR  AC HHZ   225.0 346  50  P        47.07 36.53 37.32 0.00 -0.38  1.07       0.115
TIR  AC HHE   225.0 346  50  S        76.40 65.86 65.31 0.00  0.29  1.07S      0.335
PHP  AC HHZ   255.5 359  50  P        50.81 40.27 41.35 0.00 -0.44  1.05       0.106
PHP  AC HHN   255.5 359  50  S        81.99 71.45 72.36 0.00 -0.50  1.05S      0.280
BCI  AC HHZ   333.4 354  50  P        60.37 49.83 51.65 0.00 -0.47  0.09       0.000
```

```
YEAR MO DA  --ORIGIN--  --LAT N-  --LON W--  DEPTH  RMS   ERH   ERZ   XMAG  FMAG  PMAG
2015-08-30  1807 18.41  42  7.31  20E42.67   7.05  0.27  2.06  2.15  2.25  2.41  2.4


NSTA NPHS  DMIN MODEL GAP ITR NFM NWR NWS NVR REMRKS-AVH  N.XMG-XMMAD-T   N.FMG-FMMAD-T  L F X
  6   9   53.5  Atl  267  10   0   5   2   6      -        2.00  0.27 L    2.00  0.02 D
REGION= kosovë (Kosovo)


STA NET COM CR DIST AZM  AN P/S WT   SEC (TOBS -TCAL -DLY  =RES)  WT   SR  INFO  CAL DUR-W-FMAG-T AMP-PER-W-XMAG-T
PHP  AC HHZ     53.5 205  91  P     28.01  9.60  9.83 0.00 -0.23 1.00      0.623 1.00  26   2.69 D
PHP  AC HHN     53.5 205  91     6   0.00-18.41  9.83 0.00       0.00      0.000 1.00                0.58 .34   1.98 L
                        S         35.66 17.25 17.20 0.00  0.05 1.00S      0.876
BCI  AC HHZ     59.7 298  91  P     29.14 10.73 10.89 0.00 -0.16 1.00      0.999 1.00  27   2.73 D
BCI  AC HHN     59.7 298  91     6   0.00-18.41 10.89 0.00       0.00      0.000 1.00                1.7 .50   2.52 L
                        S         34.97 16.56 19.06 0.00 -0.30 0.00S      0.000
PUK  AC HHZ     68.3 263  91  P     31.28 12.87 12.38 0.00  0.49 1.00      0.623
PUK  AC HHN     68.3 263  91  S     39.90 21.49 21.67 0.00 -0.18 1.00S      0.876
```
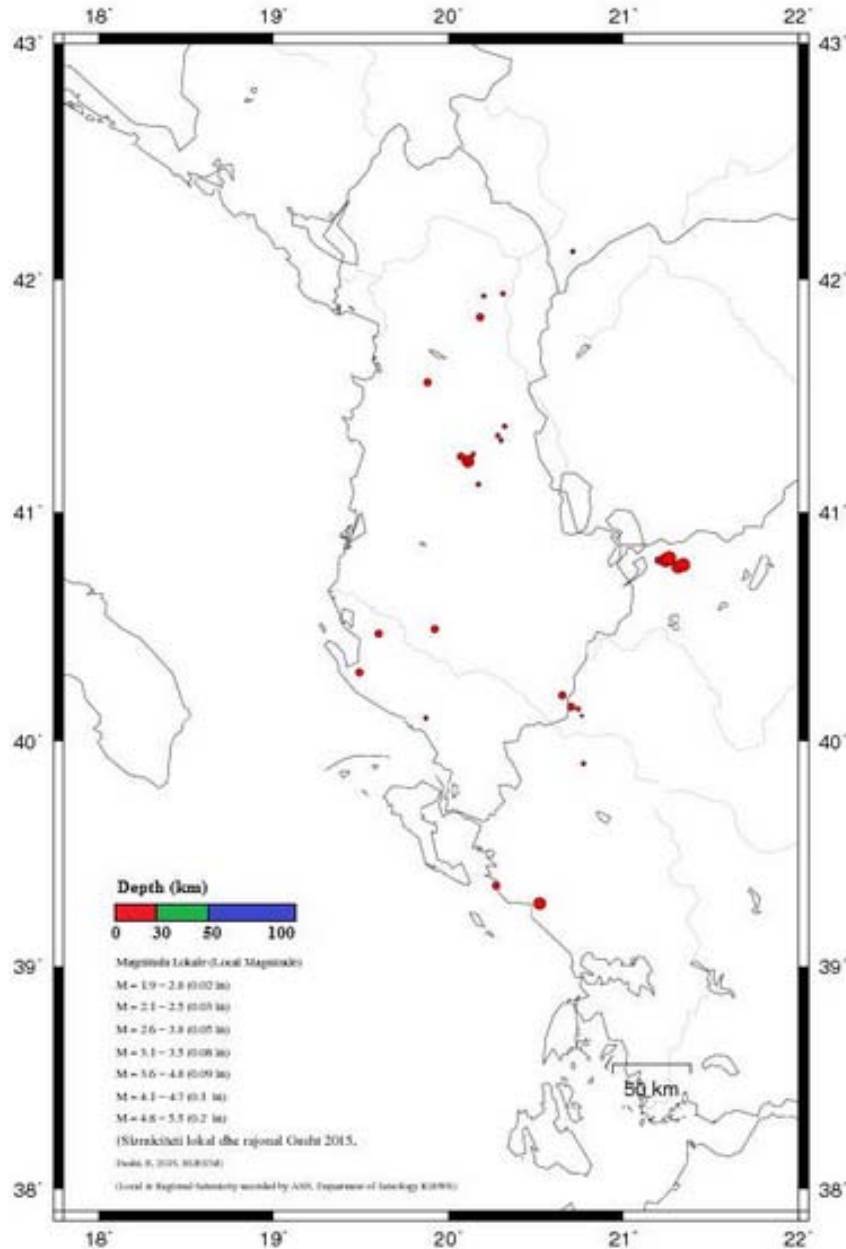
Përshkrim i të dhënave makrosizmike (*Macro-seismic data description for individual events*)

Ngjarja 1 (Event 1):

Datë 26.08.2015, në orën 20:41:53.81 (UTC); lokalizuar 40.80V; 21.26L, Greqi , në VL të qytetit të Korcës; Intensiteti i tërmetit në epiqendër I_0= V ballë (EMS-98); Ndjerë:III-IV ballë në qytetet Korcës, Maliqit de Pogradecit.
(Intensity I_0 = IV degree (EMS-98), felt III-IV degree at Korca, Maliqi and Pogradeci towns.

Shënim: Intensiteti i tërmetit në epiqendër I_0 është përcaktuar nga relacioni $I_0 = (Mag\ (M_{L/d}) – 1)/0.6$
Note: The earthquake Intensity in epicenter I_0 is derived from the relation $I_0 = (Mag\ (M_{L/d}) – 1)/0.6$

-Fig. 3 -
Harta e shpërndarjes në hapësirë të epiqendrave, në përputhje me magnitude (madhësia e simbolit) dhe thellësinë (ngjyra e simbolit);
Ngjarjet janë lokalizuar gjatë muajit Gusht 2015, bazuar në regjistrimet e ASN dhe stacioneve sizmologjike në rajon.

(Epicentral map for located seismicity within Albania and surrounding during August 2015)

Statistika e ngjarjeve (Events Statistics)

Tab. 5 – Të dhënat përfaqësuese për statistikën e ngjarjeve (representative earthquake statistical data)

Të dhënat përfaqësuese	Representative Parameters	Vlerat (observed values)
Numuri i përgjitshëm i ngjarjeve të regjistruara *(kuandrati 39_0-43_0 V; 18.5_0-21.5_0L)*	[total recorded number of seismic events]	31
Numuri i ngjarjeve sizmike brenda kufirit shtetëror	[earthquakes occurred within state border]	20
Thellësia mesatare e vrojtuar (km)	[mean observed depth]	8
Thellësia maksimale e vrojtuar (km)	[maximum observed depth]	39
Magnituda lokale minimale e vrojtuar ($M_{L/d}$)	[minimum observed local magnitude]	1.9
Magnituda lokale maksimale e vrojtuar ($M_{L/d}$)	[maximum observed local magnitude]	4.1
Intensiteti maksimal i vrojtuar (MSK-64)	[maximum observed intensity]	V

REFERENCA (*References*)

- Sulstarova, E., Koçiaj, S., (1975). "Katalogu i tërmeteve të Shqipërisë", Qendra Sizmologjike, ASH të Shqipërisë.
- Nanometrics Inc. (©2002-2004). " Atlas-seismic analysis tool", ver. 1.1 User Guide.
- Klein. W. F., (2002). "User's guide to Hypoinverse-2000, a fortran program to solve for earthquake location and magnitudes", 4/2002 version, USGS, Open File Report 02-171.
- Ormëni. Rr (2011). "P- & S-Wave Velocity Model of the crust and uppermost mantle of the Albania region" ELSEVIER, Journal of Tectonophysic, Vol 497, 2011.
- Natvik, O., (2014). "Seisan explorer v. 2.4.0", University of Bergen, Department of Earth Science (© 2012).
- Ottemöller, L., Voss, P., Hskov, J., (2014). "SEISAN – earthquake analyzing software", Department of Earth Science, University of Bergen, Norway; Geological Survey of Denmark and Greenland, Denmark, (June 18, 2014©).
- OrigineLab Corporation (©1991-2002). "Origine programm v.7.0 SRO", Northampton, MA 01060 USA (http://www.OrigineLab.com).