ISSN: 2664-410X

Seismological Bulletin

of the

Institute of GeoSciences(IGEO)

December

2024

Department of Seismology (DS)
Institute of GeoSciences(IGEO)
Polytechnic University of Tirana (PUT)

Rr. "Don Bosko", Nr. 60
Tirana
Albania
Tel : +355-4-2259697
E-Mail : info@geo.edu.al

GENERAL BULLETIN INFORMATION

The location program currently used for locating earthquakes is Hypocenter (Lienert et al.,1986). Plane parallel layers are assumed for local and regional events, while the IASPEI travel time tables are used for distant events.

The model used for all local and regional events,is compiled by Havskov & Dushi (2021).

P-wave velocity (km/sec)	depth to top of layer (km)
5.6	0.0
6.0	11.0
6.35	23.5
7.80	41.0
8.20	70.0

Magnitudes are calculated from amplitudes.
Instrument corrected maximum ground amplitudes A(nm) are used to assess the local magnitude Ml, based on the Richter formula (Hutton & Boore, 1987), corrected refered to EMSC:

$$Ml = 1.0*\log(A) + 1.11*\log(D) + 0.00189*D - 1.686$$

where, D is the hypocentral distance (km).

Representative ML value is the arithmetic mean of the resulted magnitude values for each station. No station corrections are used for either travel times or magnitude. The Vp/Vs velocity ratio, used in the layered velocity model above, is 1.81.

As a general policy, neither depths nor epicenters are fixed unless stated, since this might restrict later use of the data.

As a consequence, some event locations might be unrealistic, like zero depth earthquakes or teleseismic locations off by 1000 km.

However, the locations are based on the available data and reflect the location procedure and the models used.

The bulletin working group is composed of supervising staff: Prof. Asoc. Edmond Dushi (researcher), MSc. Damiano Koxhaj (researcher), MSc. Klajdi Qoshi (researcher) and the Analysts: Eng. Ardian Minarolli, MSc. Irena Dushi, MSc. Anila Subashi, MSc. Olgert Gjuzi and MSc. Dionald Mucaj. Link to the web bulletine working group https://www.geo.edu.al/Services/Department_of_Seismology/Bulletin_working_group

STATIONS USED

The stations listed below are those operated by the Department of Seismology,Polytechnic University of Tirana (PUT). However, readings from other cooperating agencies are also used in locating the events and calculating magnitudes and thus more stations will appear in the event lists than in the station list.

STATION	LATITUDE	LONGITUDE	HEIGHT(m)	NAME
BCI	42.3666N	20.0675E	500	Bajram Curri
PUK	42.0426N	19.8926E	900	Puke
PHP	41.6847N	20.4408E	670	Peshkopi
SDA	42.0500N	19.5000E	30	Shkoder
TIR	41.3472N	19.8631E	247	Tirane
BERA	40.7081N	19.9455E	234	Berat
KBN	40.6200N	20.7900E	800	Korce
VLO	40.4700N	19.5000W	50	Vlore
SRN	39.8800N	20.0050W	20	Sarande
LSK	40.1499N	20.5987W	960	Leskovik
BPA1	40.7232N	19.6560E	10	Marinza Oilfield
BPA2	40.7302N	19.6187E	25	Marinza Oilfield
BELS	40.9709N	19.9128E	243	Belsh, Elbasan
BURR	41.6015N	20.0048E	362	Burrel
DRSH	41.2813N	19.5215E	123	Shkembi i Kavajes, Durres
FUST	41.3251N	20.3969E	1161	Fushe Studen, Librazhd
MOGL	40.7054N	20.3916E	497	Moglice, Maliq
PLSA	40.1659N	19.6240E	386	Palase, Vlore
POGR2	40.9376N	20.6340E	747	Memelisht, Pogradec
PRMT	40.2287N	20.3515E	294	Permet
RZM	42.3461N	19.5487E	1177	Razem, Shkoder
VLO2	40.4678N	19.5876E	183	Peshkepi - Vlore
POGR	40.8996N	20.6790E	710	Pogradec
KKS	42.0730N	20.4017E	399	Kukes

MACROSEISMIC DATA

Macroseismic data, if available, are included in the bulletin.

Abbreviations:

TIME:	Origin time in UTC (hr. min. and sec.) or data file onset time if event is not located.
LAT:	Latitude of epicenter
LON:	Longitude of epicenter
DEPTH:	Focal depth in kilometer (trailing F indicates fixed depth)
AGENCY:	Hypocenter reporting agency e.g. TIR (ASN), EMS (EMSC),etc
MAGNITUDES:	Up to 3 different magnitudes can be given followed by type and and reporting agency, e.g. 3.1 MC TIR - coda magnitude calculated in TIR.
RMS:	Root mean square value of travel time residuals
STAT:	Station code
CO:	Component,S:short period,L:long period,B:broadband,
DIST:	Epicenter distance (km)
AZI:	Azimuth from source to station
PHAS:	Phase; The first letter characterizes onset E(mergent) or I(mpulsive)
P:	Polarity (C for compression, D for dilatation)
HR:	Hour
MN:	Minute
SECON:	Seconds
TRES:	Residual (seconds)
CODA:	Signal duration in seconds
AMPL:	Ground Amplitude (0.5*(peak to peak)), (nm) at period PERI
PERI:	Period where amplitude is measured
BAZ:	Back azimuth (station to event)
ARES:	Back azimuth residual
VELO:	Apparent phase velocity (km/sec)
WT:	Weight of phase in the location
*:	An asterix before the phase arrival time implies a potential timing error. If an S phase is read, differential S-P times will be used in the hypocenter location.

References:

Ottemoller, Voss and Haskov (2017). Seisan Earthquake Analysis Software for Windows, Solaris, Linux and MacOSx. http://seisan.info.

Hutton, L. K. and Boore, David M. (1987). The Ml scale in Southern California. Bull. of Seimological Society of America, 77 (6). pp. 2074-2094. ISSN 0037-1106, https://resolver.caltech.edu/CaltechAUTHORS: 20140905-113510505.

Havskov, J., Kuka, N., Duni, Ll., Dushi, E., Bozo, Rr. (2020). The Albanian Seismic Network, plans and progress towards improving data acquisition and processing. Status January 2020. Cooperation between the Albanian Seismic Network and the Iniversity of Bergen. ftp://ftp.geo.uib.no/pub/seismo/REPORTS/ALBANIA/albania-uib-report-2.pdf.

December 5 2024 Hour: 20:19 11.7 Lat: 38.72N Lon: 20.57E D: 6.4 Ag: TIR Local
Magnitudes: 2.6ML TIR Rms: 0.3 secs
109 km S of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
LKD2	HZ	11	47	EP		2019	14.07	0.13							1.0
LKD2	HN	11	47	ES		2019	15.70	-0.07							1.0
VLS	HZ	61	178	EP		2019	22.18	-0.42							1.0
VLS	HN	61	178	ES		2019	31.69	0.24							1.0
JAN	HN	106	13	ES		2019	46.38	0.75							1.0
KEK	HZ	128	329	EP		2019	34.25	0.16							1.0
KEK	HN	128	329	ES		2019	52.21	-0.02							1.0
KEK	HZ	128	329	IAML		2019	58.62			51	1.4				
SRN	HZ	137	339	EP		2019	35.72	0.15							1.0
SRN	HE	137	339	ES		2019	53.96	-0.96							1.0
THL	HZ	156	53	EP		2019	38.28	-0.41							1.0
THL	HN	156	53	ES		2020	00.24	-0.32							1.0
LSK	HZ	158	1	EP		2019	39.47	0.34							0.9
LSK	HE	158	1	ES		2020	01.54	0.19							0.9
LSK	HZ	158	1	IAML		2020	09.66			37	2.2				
PENT	HZ	171	17	EP		2019	40.88	-0.30							0.9
PENT	HE	171	17	ES		2020	05.04	-0.04							0.9
PLSA	EZ	179	333	EP		2019	42.50	-0.04							0.9
NEST	HZ	192	12	EP		2019	44.82	0.57							0.9
NEST	HE	192	12	ES		2020	10.42	-0.21							0.9
NEST	HZ	192	12	IAML		2020	17.01			19	1.3				
ITM	HZ	209	145	EP		2019	46.38	0.06							0.9
ITM	HE	209	145	ES		2020	14.35	-0.02							0.9
MOGL	EZ	220	356	EP		2019	47.80	-0.01							0.9
AL05A	HZ	220	356	EP		2019	47.94	0.13							0.9
BERA	HZ	227	347	EP		2019	48.69	0.12							0.9

December 5 2024 Hour: 23:52 10.3 Lat: 38.24N Lon: 20.74E D: 5.8 Ag: TIR Local
Magnitudes: 2.7ML TIR Rms: 0.6 secs
164 km S of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
VLS	HZ	15	240	EP		2352	12.93	-0.22							1.0
VLS	HN	15	240	ES		2352	15.52	0.04							1.0
LKD2	HZ	61	353	EP		2352	21.58	0.35							1.0
LKD2	HN	61	353	ES		2352	29.73	-0.36							1.0
ITM	HZ	158	138	EP		2352	38.47	0.80							0.9
ITM	HN	158	138	ES		2352	59.24	-0.62							0.9
PENT	HZ	220	9	EP		2352	47.25	0.81							0.9
NEST	HZ	243	6	EP		2352	48.58	-0.81							0.9
NEST	HZ	243	6	IAML		2353	35.00			20	3.9				

December 8 2024 Hour: 4:10 37.9 Lat: 38.41N Lon: 20.42E D: 4.6 Ag: TIR Local
Magnitudes: 3.1ML TIR 4.2MW TIR Rms: 0.4 secs
140 km S of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
VLS	HZ	30	151	EP		0410	43.40	0.13							1.0
VLS	HN	30	151	ES		0410	47.56	-0.10							1.0
LKD2	HZ	46	26	EP		0410	46.41	0.22							1.0
LKD2	HN	46	26	ES		0410	52.83	-0.10							1.0
KEK	HZ	154	340	EP		0411	04.32	-0.36							1.0
KEK	HZ	154	340	IAML		0411	30.13			104	0.6				
SRN	HZ	167	347	EP		0411	06.48	-0.31							0.9
SRN	HZ	167	347	IAML		0411	33.85			59	0.4				
THL	HZ	188	47	EP		0411	10.06	0.08							0.9
THL	HN	188	47	ES		0411	35.87	-0.13							0.9
ITM	HZ	190	136	EP		0411	10.20	-0.13							0.9
LSK	HZ	193	4	EP		0411	11.27	0.48							0.9
LSK	HZ	193	4	IAML		0411	41.46			126	0.6				
AL06A	HZ	195	343	EP		0411	11.31	0.44							0.9

AL06AHZ		195	343	IAML	0411	44.79			72	0.2				
PLSA	EZ	206	341	EP	0411	11.98	-0.42							0.9
PLSA	EZ	206	341	IAML	0411	54.99			44	1.6				
PENT	HZ	207	17	EP	0411	12.74	0.15							0.9
TPE	HZ	212	351	EP	0411	13.90	0.83							0.9
TPE	HZ	212	351	IAML	0411	50.10			92	0.5				
NEST	HZ	229	13	EP	0411	16.13	0.81							0.9
KZN	HZ	240	28	EP	0411	16.86	0.09							0.9
AL05AHZ		255	359	EP	0411	18.33	-0.24							0.9
MOGL	EZ	255	359	EP	0411	18.96	0.39							0.9
PLG	HZ	339	49	EP	0411	28.92	-0.50							0.8
AL03AHZ		356	354	EP	0411	30.78	-0.77							0.8
PUK	HZ	406	354	EP	0411	37.44	-0.55							0.7
KKS	HZ	406	360	EP	0411	37.25	-0.78							0.7
NVR	HZ	439	41	EP	0411	42.05	-0.20							0.7
PEJK	HZ	470	359	EP	0411	46.52	0.30							0.7

December 9 2024 Hour: 12:49 20.2 Lat: 39.42N Lon: 20.51E D: 3.5 Ag: TIR Local Magnitudes: 2.5ML TIR Rms: 0.4 secs
39 km SE of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
JAN	HZ	40	47	EP		1249	27.00	-0.28							1.0
JAN	HN	40	47	ES		1249	33.00	-0.02							1.0
SRN	HZ	68	320	EP		1249	32.07	-0.27							1.0
SRN	HN	68	320	ES		1249	42.36	0.18							1.0
SRN	HZ	68	320	IAML		1249	46.14			79	0.8				
KEK	HZ	70	299	EP		1249	31.81	-0.87							1.0
KEK	HN	70	299	ES		1249	42.71	-0.09							1.0
KEK	HZ	70	299	IAML		1249	49.55			84	0.6				
LKD2	HZ	71	170	EP		1249	33.41	0.60							1.0
LKD2	HE	71	170	ES		1249	43.64	0.61							1.0
LSK	HZ	82	5	EP		1249	34.69	-0.15							1.0
LSK	HN	82	5	ES		1249	46.82	0.10							1.0
LSK	HZ	82	5	IAML		1249	52.72			81	0.8				
AL06AHZ		99	319	EP		1249	38.04	0.16							1.0
HIMA	HZ	99	319	EP		1249	38.16	0.28							1.0
HIMA	HE	99	319	ES		1249	52.40	0.18							1.0
AL06AHN		99	319	ES		1249	52.62	0.40							1.0
PENT	HZ	102	31	EP		1249	37.44	-0.96							1.0
PENT	HN	102	31	ES		1249	53.14	-0.01							1.0
TPE	HZ	107	337	EP		1249	39.06	-0.10							1.0
TPE	HN	107	337	ES		1249	54.65	0.12							1.0
TPE	HZ	107	337	IAML		1249	59.78			55	0.3				
NEST	HZ	120	22	EP		1249	41.17	-0.28							1.0
NEST	HN	120	22	ES		1249	58.85	0.17							1.0
NEST	HZ	120	22	IAML		1250	04.24			40	0.6				
THL	HZ	130	82	EP		1249	43.64	0.58							1.0
VLS	HZ	138	177	EP		1249	44.33	0.01							1.0
VLS	HN	138	177	ES		1250	03.08	-0.78							1.0
AL05AHZ		144	356	EP		1249	44.87	-0.49							1.0
AL05AHE		144	356	ES		1250	06.27	0.53							1.0
AL05AHZ		144	356	IAML		1250	17.30			35	1.9				
MOGL	EZ	144	356	EP		1249	45.74	0.38							1.0
KZN	HZ	146	47	EP		1249	45.99	0.20							1.0
BERA	HZ	152	342	EP		1249	46.92	0.26							1.0
BERA	HN	152	342	ES		1250	08.62	0.52							1.0
BERA	HZ	152	342	IAML		1250	12.86			22	0.7				
BELS	EZ	180	344	EP		1249	51.08	-0.35							0.9
BELS	EN	180	344	ES		1250	16.05	-0.68							0.9

December 10 2024 Hour: 0:14 31.3 Lat: 40.09N Lon: 19.97E D: 7.2 Ag: TIR Local
Magnitudes: 2.8ML TIR 3.1MW TIR Rms: 0.4 secs
14 km W of Gjirokaster

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AL06A	HZ	18	271	EP	D	0014	34.71	-0.07							1.0
AL06A	HN	18	271	ES		0014	37.74	0.13							1.0
HIMA	HZ	18	271	EP	D	0014	34.69	-0.08							1.0
AL06A	HZ	18	271	IAML		0014	38.88			2064	0.2				
SRN	HZ	23	174	EP	D	0014	36.30	0.68							1.0
SRN	HE	23	174	ES		0014	38.77	-0.35							1.0
SRN	HZ	23	174	IAML		0014	41.24			852	0.2				
TPE	HZ	23	9	EP	D	0014	35.20	-0.47							1.0
TPE	HN	23	9	ES		0014	38.40	-0.81							1.0
TPE	HZ	23	9	IAML		0014	38.60			1263	0.2				
PLSA	EZ	31	287	EP		0014	36.60	-0.35							1.0
PLSA	EE	31	287	ES		0014	41.31	-0.22							1.0
PLSA	EZ	31	287	IAML		0014	44.69			366	0.2				
KEK	HZ	44	200	EP	D	0014	39.41	0.14							1.0
KEK	HE	44	200	ES		0014	45.88	0.15							1.0
KEK	HZ	44	200	IAML		0014	48.36			776	0.4				
VLO2	EZ	53	323	EP		0014	40.80	-0.10							1.0
VLO2	EZ	53	323	IAML		0014	48.44			227	0.3				
LSK	HZ	54	82	EP	D	0014	40.85	-0.19							1.0
LSK	HN	54	82	ES		0014	48.90	-0.04							1.0
LSK	HZ	54	82	IAML		0014	57.01			172	0.5				
VLO	HZ	59	317	EP		0014	42.07	0.25							1.0
VLO	HN	59	317	ES		0014	50.67	0.32							1.0
VLO	HZ	59	317	IAML		0014	55.92			240	0.3				
BERA	HZ	69	358	EP		0014	43.46	-0.22							1.0
BERA	HN	69	358	ES		0014	54.03	0.32							1.0
BERA	HZ	69	358	IAML		0014	56.39			200	0.3				
AL05A	HZ	77	27	EP		0014	44.46	-0.71							1.0
AL05A	HE	77	27	ES		0014	56.57	0.16							1.0
AL05A	HZ	77	27	IAML		0014	60.00			106	0.4				
MOGL	EZ	77	27	EP		0014	44.53	-0.63							1.0
KBN	HZ	92	49	EP		0014	47.67	0.14							1.0
KBN	HZ	92	49	IAML		0015	09.87			74	1.2				
BELS	EZ	98	357	EP		0014	48.53	-0.09							1.0
BELS	EE	98	357	ES		0015	02.82	0.16							1.0
NEST	HZ	99	68	EP		0014	48.36	-0.39							1.0
NEST	HN	99	68	ES		0015	03.15	0.25							1.0
NEST	HZ	99	68	IAML		0015	05.13			78	0.4				
PENT	HZ	100	83	EP		0014	49.05	0.04							1.0
PENT	HN	100	83	ES		0015	03.72	0.35							1.0
AL04A	HZ	108	341	EP		0014	50.57	0.36							1.0
AL07A	HZ	108	33	EP		0014	50.63	0.29							1.0
AL07A	HZ	108	33	IAML		0015	22.99			194	0.6				
AL08A	HZ	114	6	EP		0014	51.52	0.34							1.0
AL08A	HN	114	6	ES		0015	07.88	0.59							1.0
AL08A	HZ	114	6	IAML		0015	14.00			131	0.9				
SCTE	HZ	128	270	EP		0014	53.62	0.01							1.0
DRSH	EZ	138	344	EP		0014	56.24	1.01							1.0
TIR	HZ	140	356	EP		0014	56.15	0.53							1.0
TIR	HZ	140	356	IAML		0015	24.41			29	1.1				
LKD2	HZ	156	157	EP		0014	58.60	0.37							1.0
LKD2	HN	156	157	ES		0015	20.53	0.48							1.0
AL03A	HZ	168	1	EP		0015	00.82	0.53							0.9
BURR	EZ	168	1	EP		0015	00.71	0.42							0.9
BURR	EZ	168	1	IAML		0015	28.95			27	0.7				
AL03A	HN	168	1	ES		0015	24.63	0.85							0.9
AL03A	HZ	168	1	IAML		0015	28.95			49	1.4				
LACI	HZ	173	353	EP		0015	01.04	-0.09							0.9
LACI	HZ	173	353	IAML		0015	46.01			40	1.7				

PHP	HZ	182	12	EP		0015	02.92	0.55						0.9
PHP	HZ	182	12	IAML		0015	32.61			40	1.2			
THL	HZ	184	108	EP		0015	03.15	0.52						0.9
THL	HN	184	108	ES		0015	27.29	-0.73						0.9
PUK	HZ	217	358	EP		0015	05.91	-1.04						0.9
PUK	HZ	217	358	IAML		0015	38.59			14	0.5			
VLS	HZ	219	166	EP		0015	07.13	0.06						0.9
SDA	HZ	222	350	EP		0015	07.22	-0.17						0.9
KKS	HZ	224	9	EP		0015	07.69	0.00						0.9
KKS	HZ	224	9	IAML		0015	45.90			42	1.1			
BCI	HZ	253	2	EP		0015	11.26	-0.26						0.9
AL01A	HZ	253	352	EP		0015	11.01	-0.60						0.9
AL01A	HZ	253	352	IAML		0015	56.53			20	1.1			
RZM	EZ	253	352	EP		0015	10.76	-0.85						0.9
BCI	HZ	253	2	IAML		0015	57.26			27	1.0			
NOCI	HZ	259	288	EP		0015	12.23	0.05						0.9
NOCI	HN	259	288	ES		0015	45.12	-0.19						0.9
PDG	HZ	267	347	EP		0015	12.51	-0.69						0.9
PDG	HZ	267	347	IAML		0015	50.33			15	3.0			
PVY	HZ	278	360	EP		0015	14.78	-0.07						0.8
PEJK	HZ	285	5	EP		0015	15.63	0.00						0.8
PEJK	HZ	285	5	IAML		0016	02.19			20	1.7			
PLG	HZ	297	83	EP		0015	17.21	0.03						0.8
GMRK	HZ	304	20	EP		0015	17.95	-0.15						0.8
NKME	HZ	310	344	EP		0015	18.40	-0.35						0.8
BOSS	SZ	339	37	EP		0015	22.38	-0.21						0.8
ME02A	HZ	348	349	EP		0015	23.33	-0.47						0.8
SJES	BZ	353	0	EP		0015	24.11	-0.23						0.8
NVR	HZ	358	66	EP		0015	25.05	0.14						0.8
ITM	HZ	365	152	EP		0015	25.35	-0.47						0.8

December 10 2024 Hour: 1:51 52.5 Lat: 41.54N Lon: 19.68E D: 21.2 Ag: TIR Local Magnitudes: 2.6ML TIR 2.8MW TIR Rms: 0.5 secs
9 km W of Kruje

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
LACI	HZ	11	17	EP	D	0151	56.14	-0.55							1.0
LACI	HN	11	17	ES		0151	59.16	-0.91							1.0
LACI	HZ	11	17	IAML		0151	59.63			1140	0.3				
TIR	HZ	26	143	EP	C	0151	57.95	-0.44							1.0
TIR	HE	26	143	ES		0152	03.21	0.07							1.0
TIR	HZ	26	143	IAML		0152	03.63			478	0.3				
AL02A	HZ	28	238	EP		0151	58.62	0.09							1.0
AL02A	HE	28	238	ES		0152	04.11	0.72							1.0
AL02A	HZ	28	238	IAML		0152	05.82			806	0.3				
AL03A	HZ	28	75	EP	D	0151	58.78	0.12							1.0
AL03A	HN	28	75	ES		0152	04.15	0.53							1.0
AL03A	HZ	28	75	IAML		0152	05.77			549	0.6				
BURR	EZ	28	76	EP	D	0151	58.71	0.05							1.0
BURR	EN	28	76	ES		0152	04.10	0.47							1.0
BURR	EZ	28	76	IAML		0152	05.77			320	0.6				
DURR	HZ	30	217	EP	D	0151	59.36	0.43							1.0
DURR	HN	30	217	ES		0152	05.40	1.28							1.0
DRSH	EZ	31	205	EP		0151	59.18	0.10							1.0
DRSH	EZ	31	205	IAML		0152	07.79			434	0.4				
SDA	HZ	59	346	EP		0152	02.82	-0.45							1.0
PUK	HZ	59	18	EP		0152	02.82	-0.53							1.0
PUK	HE	59	18	ES		0152	12.49	0.37							1.0
PUK	HZ	59	18	IAML		0152	15.41			171	0.3				
AL04A	HZ	60	189	EP		0152	03.78	0.33							1.0
AL04A	HZ	60	189	IAML		0152	24.29			207	0.3				
AL08A	HZ	60	143	EP		0152	03.02	-0.46							1.0
AL08A	HN	60	143	ES		0152	12.10	-0.24							1.0
AL08A	HZ	60	143	IAML		0152	18.66			82	0.7				
PHP	HZ	66	75	EP		0152	04.42	-0.03							1.0

PHP	HN	66	75	ES	0152	14.56	0.46			1.0
PHP	HZ	66	75	IAML	0152	20.18		98	0.5	
BELS	EZ	66	163	EP	0152	04.22	-0.25			1.0
BELS	EE	66	163	ES	0152	13.92	-0.23			1.0
KKS	HZ	85	45	EP	0152	07.45	-0.05			1.0
KKS	HZ	85	45	IAML	0152	26.51		60	0.5	
BPA2	HZ	90	183	EP	0152	08.28	-0.07			1.0
AL01AHZ		90	353	EP	0152	08.00	-0.51			1.0
AL01AHN		90	353	ES	0152	21.73	0.27			1.0
AL01AHZ		90	353	IAML	0152	30.23		55	0.3	
RZM	EZ	90	353	EP	0152	08.14	-0.37			1.0
RZM	EZ	90	353	IAML	0152	25.48		31	0.3	
BERA	HZ	95	166	EP	0152	08.28	-0.92			1.0
BERA	HE	95	166	ES	0152	22.87	0.17			1.0
BERA	HZ	95	166	IAML	0152	24.80		157	0.6	
BCI	HZ	98	19	EP	0152	08.90	-0.74			1.0
BCI	HE	98	19	ES	0152	24.18	0.67			1.0
BCI	HZ	98	19	IAML	0152	34.50		72	0.7	
PDG	HZ	105	341	EP	0152	10.48	-0.29			1.0
PDG	HN	105	341	ES	0152	25.65	0.10			1.0
PDG	HZ	105	341	IAML	0152	28.65		39	0.3	
AL05AHZ		110	147	IAML	0152	46.72		48	3.8	
MOGL	EZ	110	147	IAML	0152	46.72		30	2.7	
AL07AHZ		110	130	EP	0152	11.65	0.01			1.0
AL05AHZ		110	147	EP	0152	10.95	-0.72			1.0
AL05AHN		110	147	ES	0152	27.45	0.27			1.0
MOGL	EZ	110	147	EP	0152	11.17	-0.50			1.0
MOGL	EN	110	147	ES	0152	27.71	0.54			1.0
VLO2	EZ	119	184	EP	0152	12.94	-0.10			1.0
VLO	HZ	120	187	EP	0152	13.60	0.47			1.0
PVY	HZ	120	11	EP	0152	12.61	-0.59			1.0
PVY	HZ	120	11	IAML	0152	31.55		81	0.8	
VLO	HZ	120	187	IAML	0152	37.78		105	0.5	
PEJK	HZ	132	22	EP	0152	15.04	-0.13			1.0
PEJK	HZ	132	22	IAML	0152	37.82		77	0.6	
KBN	HZ	138	137	EP	0152	16.38	0.33			1.0
TPE	HZ	141	168	IAML	0152	42.78		59	0.7	
ME05AHZ		141	317	EP	0152	16.38	-0.07			1.0
ME05AHZ		141	317	IAML	0152	36.56		107	0.2	
TPE	HZ	141	168	EP	0152	16.04	-0.45			1.0
ME01AHZ		146	7	EP	0152	17.26	-0.09			1.0
ME01AHN		146	7	ES	0152	38.22	0.76			1.0
ME01AHZ		146	7	IAML	0152	41.75		72	0.7	
NKME	HZ	149	337	EP	0152	17.38	-0.41			1.0
NKME	HN	149	337	ES	0152	37.82	-0.43			1.0
NKME	HZ	149	337	IAML	0152	39.97		42	0.2	
AL06AHZ		161	178	EP	0152	19.70	0.35			0.9
AL06AHN		161	178	ES	0152	40.06	-1.02			0.9
NEST	HZ	170	137	EP	0152	21.08	0.48			0.9
NEST	HZ	170	137	IAML	0152	47.76		20	0.4	
LSK	HZ	173	153	EP	0152	20.92	-0.01			0.9
LSK	HZ	173	153	IAML	0153	00.05		22	0.7	
GMRK	HZ	178	45	EP	0152	22.42	0.77			0.9
GMRK	HN	178	45	ES	0152	45.41	0.16			0.9
GMRK	HZ	178	45	IAML	0152	50.53		13	0.3	
ME02AHZ		185	346	EP	0152	23.10	0.47			0.9
ME02AHN		185	346	ES	0152	47.78	0.77			0.9
SRN	HZ	186	171	EP	0152	22.41	-0.13			0.9
PENT	HZ	193	140	EP	0152	24.09	0.49			0.9
KEK	HZ	203	177	EP	0152	24.69	-0.04			0.9
BOSS	SZ	254	64	EP	0152	31.20	-0.13			0.9

December 10 2024 Hour: 11:11 52.2 Lat: 38.60N Lon: 20.52E D: 9.8 Ag: TIR Local
Magnitudes: 2.6ML TIR 3.4MW TIR Rms: 0.2 secs
121 km S of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
LKD2	HZ	24	29	EP		1111	56.84	0.05							1.0
LKD2	HE	24	29	ES		1112	00.44	-0.10							1.0
VLS	HZ	48	173	EP		1112	00.85	0.01							1.0
VLS	HN	48	173	ES		1112	07.83	-0.05							1.0
JAN	HE	120	14	ES		1112	30.61	0.64							1.0
KEK	HZ	138	333	EP		1112	16.17	0.16							1.0
KEK	HE	138	333	ES		1112	35.50	0.17							1.0
KEK	HZ	138	333	IAML		1112	40.55			41	1.6				
SRN	HZ	149	343	EP		1112	17.77	0.02							1.0
SRN	HZ	149	343	IAML		1112	49.70			26	2.0				
THL	HZ	168	50	EP		1112	20.58	-0.29							0.9
THL	HE	168	50	ES		1112	43.84	-0.28							0.9
LSK	HZ	172	2	EP		1112	21.78	0.12							0.9
LSK	HE	172	2	ES		1112	45.38	-0.17							0.9
LSK	HZ	172	2	IAML		1112	54.63			32	0.7				
AL06A	HZ	178	338	EP		1112	22.26	-0.09							0.9
AL06A	HE	178	338	ES		1112	46.33	-0.47							0.9
AL06A	HZ	178	338	IAML		1112	56.32			27	1.1				
PRMT	EZ	181	355	EP		1112	22.56	-0.24							0.9
PENT	HZ	185	16	EP		1112	23.44	0.09							0.9
ITM	HZ	200	142	EP		1112	25.30	0.02							0.9
ITM	HN	200	142	ES		1112	52.36	0.25							0.9
NEST	HZ	206	12	EP		1112	26.52	0.41							0.9
NEST	HZ	206	12	IAML		1113	00.81			13	0.4				
KZN	HZ	218	29	EP		1112	27.50	-0.04							0.9
AL05A	HZ	234	357	EP		1112	29.76	0.19							0.9
MOGL	EZ	234	357	EP		1112	29.49	-0.08							0.9
BELS	EZ	268	349	EP		1112	33.47	-0.47							0.9
PLG	HZ	319	51	EP		1112	40.56	0.05							0.8

December 11 2024 Hour: 20:51 17.7 Lat: 39.42N Lon: 20.51E D: 4.9 Ag: TIR Local
Magnitudes: 2.6ML TIR 3.3MW TIR Rms: 0.4 secs
39 km SE of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
JAN	HN	39	47	ES		2051	31.18	0.59							1.0
SRN	HZ	68	320	EP		2051	29.32	-0.55							1.0
SRN	HN	68	320	ES		2051	40.13	0.43							1.0
SRN	HZ	68	320	IAML		2051	45.47			60	0.3				
KEK	HZ	70	298	EP		2051	29.37	-0.86							1.0
KEK	HE	70	298	ES		2051	40.90	0.55							1.0
KEK	HZ	70	298	IAML		2051	48.33			197	0.2				
LKD2	HZ	71	170	EP		2051	30.26	-0.15							1.0
LKD2	HN	71	170	ES		2051	41.17	0.50							1.0
LSK	HZ	82	5	EP		2051	31.78	-0.59							1.0
LSK	HN	82	5	ES		2051	44.38	0.14							1.0
LSK	HZ	82	5	IAML		2051	49.50			176	0.4				
AL06A	HZ	99	319	EP		2051	35.24	-0.08							1.0
AL06A	HZ	99	319	IAML		2051	52.10			82	0.6				
PENT	HZ	102	31	EP		2051	35.34	-0.52							1.0
PENT	HN	102	31	ES		2051	50.51	-0.03							1.0
TPE	HZ	106	337	EP		2051	36.83	0.24							1.0
TPE	HN	106	337	ES		2051	51.79	-0.08							1.0
TPE	HZ	106	337	IAML		2051	57.41			92	0.8				
PLSA	EZ	113	318	EP		2051	37.89	0.22							1.0
PLSA	EN	113	318	ES		2051	53.87	0.05							1.0
PLSA	EZ	113	318	IAML		2051	59.16			28	0.4				
NEST	HZ	120	22	EP		2051	38.53	-0.35							1.0
NEST	HN	120	22	ES		2051	56.40	0.38							1.0
NEST	HZ	120	22	IAML		2052	01.69			130	0.6				

```
THL  HZ  130  82 EP       2051 40.67 0.14                                  1.0
VLS  HZ  138 177 EP       2051 41.73-0.07                                  1.0
VLS  HN  138 177 ES       2052 01.48 0.17                                  1.0
AL05AHZ  144 356 EP       2051 42.89 0.11                                  1.0
AL05AHZ  144 356  IAML    2052 14.77             42  0.3
KZN  HZ  146  47 EP       2051 42.80-0.44                                  1.0
BERA HZ  151 341 EP       2051 43.98-0.11                                  1.0
BERA HN  151 341 ES       2052 05.77 0.33                                  1.0
BERA HZ  151 341  IAML    2052 08.15             29  0.3
```

December 12 2024 Hour: 0:46 3.7 Lat: 42.12N Lon: 20.63E D: 3.9 Ag: TIR Local
Magnitudes: 4.0ML TIR 4.2MW TIR Rms: 0.4 secs
18 km E of Kukes

```
STAT CO DIST AZI PHASE  P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO  WT
KKS  HZ   20 253 EP     C 0046 07.96 0.63                                1.0
KKS  HN   20 253 ES       0046 10.67 0.39                                1.0
KKS  HZ   20 253  IAML    0046 12.69          12133  0.2
PHP  HZ   52 198 EP     C 0046 12.71-0.20                                1.0
PHP  HZ   52 198  IAML    0046 19.97           4954  0.5
PHP  HN   52 198 ES       0046 20.39 0.01                                1.0
BCI  HZ   54 300 EP     C 0046 13.72 0.40                                1.0
BCI  HN   54 300 ES       0046 21.46 0.33                                1.0
BCI  HZ   54 300  IAML    0046 24.14           6141  0.4
PUK  HZ   62 262 EP     C 0046 14.68-0.09                                1.0
PUK  HN   62 262 ES       0046 23.98 0.23                                1.0
PUK  HZ   62 262  IAML    0046 27.28           2879  1.6
PEJK HZ   64 333 EP     C 0046 15.75 0.53                                1.0
PEJK HN   64 333 ES       0046 24.59 0.03                                1.0
PEJK HZ   64 333  IAML    0046 31.16           2952  0.9
PVY  HZ   76 313 EP     D 0046 17.30-0.01                                1.0
PVY  HN   76 313 ES       0046 28.04-0.31                                1.0
AL03AHZ   78 222 EP     C 0046 17.30-0.36                                1.0
AL03AHN   78 222 ES       0046 29.26 0.28                                1.0
AL03AHZ   78 222  IAML    0046 36.88           2022  0.5
BURR EZ   78 222 EP       0046 17.35-0.30                                1.0
BURR EN   78 222 ES       0046 29.14 0.17                                1.0
AL01AHZ   93 286 EP     C 0046 19.80-0.47                                1.0
AL01AHZ   93 286  IAML    0046 36.63           1946  0.8
RZM  EZ   93 286 EP     C 0046 19.60-0.67                                1.0
AL01AHN   93 286 ES       0046 33.92 0.21                                1.0
RZM  EN   93 286 ES       0046 33.97 0.26                                1.0
LACI HZ   93 235 EP       0046 20.28-0.08                                1.0
LACI HE   93 235 ES       0046 34.21 0.33                                1.0
LACI HZ   93 235  IAML    0046 35.67           1509  0.8
SDA  HZ   94 265 EP     C 0046 20.55 0.05                                1.0
SDA  HN   94 265 ES       0046 34.41 0.29                                1.0
SDA  HZ   94 265  IAML    0046 39.25           1573  0.6
ME01AHZ  101 323 EP     C 0046 21.69-0.06                                1.0
ME01AHN  101 323 ES       0046 36.48 0.10                                1.0
ME01AHZ  101 323  IAML    0046 40.90           2839  0.5
TIR  HZ  107 217 EP       0046 23.16 0.40                                1.0
TIR  HN  107 217 ES       0046 38.51 0.30                                1.0
PDG  HZ  118 287 EP     C 0046 23.61-0.92                                1.0
PDG  HN  118 287 ES       0046 41.28-0.13                                1.0
PDG  HZ  118 287  IAML    0046 43.16           1110  0.7
AL08AHZ  122 201 EP       0046 24.69-0.44                                1.0
AL08AHN  122 201 ES       0046 41.86-0.64                                1.0
BARS BZ  124  51 EP     D 0046 26.40 0.88                                1.0
BARS BN  124  51 ES       0046 43.33 0.12                                1.0
DRSH EZ  132 225 EP       0046 26.97 0.17                                1.0
DRSH EN  132 225 ES       0046 45.22-0.30                                1.0
DRSH EZ  132 225  IAML    0046 55.37           1026  0.7
DURR HZ  133 228 EP       0046 27.19 0.26                                1.0
DURR HN  133 228 ES       0046 46.26 0.50                                1.0
```

```
AL07AHZ  136 178 EP       0046 27.61 0.02                              1.0
AL07AHE  136 178 ES       0046 47.19 0.24                              1.0
SJES BZ  137 337 EP       0046 27.69-0.11                              1.0
SJES BN  137 337 ES       0046 47.29-0.05                              1.0
BELS EZ  142 205 EP       0046 28.19-0.27                              1.0
BELS EN  142 205 ES       0046 47.35-1.17                              1.0
NKME HZ  155 298 EP     C 0046 29.91-0.89                              1.0
NKME HN  155 298 ES       0046 52.85 0.09                              1.0
NKME HZ  155 298  IAML    0047 01.34           949  0.7
BOSS SZ  156  74 EP     C 0046 31.32 0.37                              1.0
BOSS SN  156  74 ES       0046 52.43-0.60                              1.0
AL05AHN  159 187 ES       0046 53.12-0.68                              0.9
MOGL EZ  159 187 EP       0046 31.54 0.17                              0.9
MOGL EN  159 187 ES       0046 53.64-0.16                              0.9
AL05AHZ  159 187 EP       0046 31.66 0.29                              0.9
AL05AHZ  159 187  IAML    0046 54.87          1426  0.9
MOGL EZ  159 187  IAML    0046 55.76          1084  0.4
KBN  HZ  167 176 EP       0046 32.19-0.58                              0.9
KBN  HN  167 176 ES       0046 56.28-0.05                              0.9
KBN  HZ  167 176  IAML    0047 03.81           839  1.1
BERA HZ  168 200 EP       0046 32.28-0.50                              0.9
BERA HN  168 200 ES       0046 56.24-0.11                              0.9
BERA HZ  168 200  IAML    0046 58.72          1007  0.5
ME02AHZ  169 313 EP     C 0046 32.31-0.74                              0.9
ME02AHN  169 313 ES       0046 56.91 0.07                              0.9
ME02AHZ  169 313  IAML    0046 58.37           808  1.9
ME03AHZ  172 323 EP       0046 33.85 0.37                              0.9
ME03AHN  172 323 ES       0046 57.33-0.29                              0.9
ME03AHZ  172 323  IAML    0047 00.24          1321  0.1
BPA2 HZ  177 209 EP       0046 34.34 0.06                              0.9
ME05AHZ  179 283 EP       0046 33.64-1.04                              0.9
ME05AHE  179 283 ES       0046 59.97 0.18                              0.9
NEST HZ  193 169 EP       0046 36.58-0.11                              0.9
NEST HN  193 169 ES       0047 03.52 0.10                              0.9
NEST HZ  193 169  IAML    0047 10.04           657  0.6
VLO  HZ  207 208 EP       0046 38.36-0.00                              0.9
VLO  HN  207 208 ES       0047 06.87 0.42                              0.9
TPE  HZ  210 194 EP     C 0046 39.50 0.78                              0.9
TPE  HN  210 194 ES       0047 06.88-0.22                              0.9
TPE  HZ  210 194  IAML    0047 17.05           840  1.2
PENT HZ  218 169 EP       0046 40.55 0.62                              0.9
PENT HE  218 169 ES       0047 09.43 0.13                              0.9
LSK  HZ  219 181 EP       0046 40.39 0.35                              0.9
LSK  HN  219 181 ES       0047 09.86 0.37                              0.9
LSK  HZ  219 181  IAML    0047 13.49           727  0.6
KZN  HZ  223 154 EP     C 0046 40.58 0.04                              0.9
KZN  HN  223 154 ES       0047 10.59 0.19                              0.9
PLSA EZ  233 202 EP       0046 41.94 0.16                              0.9
PLSA EN  233 202 ES       0047 12.79 0.16                              0.9
PLSA EZ  233 202  IAML    0047 25.40           375  0.8
AL06AHZ  238 198 EP       0046 42.71 0.41                              0.9
AL06AHN  238 198 ES       0047 13.92 0.34                              0.9
AL06AHZ  238 198  IAML    0047 29.56           341  1.2
```

December 12 2024 Hour: 2:59 7.0 Lat: 42.13N Lon: 20.64E D: 5.8 Ag: TIR Local
Magnitudes: 3.3ML TIR 3.6MW TIR Rms: 0.4 secs
19 km E of Kukes

```
STAT CO DIST AZI PHASE  P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO  WT
KKS  HZ   21 253 EP     C 0259 11.29 0.41                              1.0
KKS  HE   21 253 ES       0259 14.22 0.18                              1.0
KKS  HZ   21 253  IAML    0259 15.72          2815  0.1
PHP  HZ   52 199 EP     C 0259 16.02-0.30                              1.0
PHP  HZ   52 199  IAML    0259 23.02          1225  0.3
PHP  HN   52 199 ES       0259 23.10-0.80                              1.0
```

BCI	HZ	55	299	EP	C	0259	16.87	0.10			1.0
BCI	HN	55	299	ES		0259	24.90	0.18			1.0
BCI	HZ	55	299	IAML		0259	28.25		1198	0.1	
PUK	HZ	63	262	EP	C	0259	17.80	-0.47			1.0
PUK	HE	63	262	ES		0259	27.58	0.16			1.0
PUK	HZ	63	262	IAML		0259	34.38		465	1.8	
PEJK	HZ	65	332	EP	C	0259	18.97	0.38			1.0
PEJK	HN	65	332	ES		0259	28.25	0.26			1.0
PEJK	HZ	65	332	IAML		0259	33.71		470	0.4	
PVY	HZ	77	313	EP	C	0259	20.40	-0.33			1.0
PVY	HN	77	313	ES		0259	31.91	0.04			1.0
PVY	HZ	77	313	IAML		0259	37.07		632	0.3	
AL03AHE		79	223	ES		0259	32.81	0.23			1.0
BURR	EZ	79	222	EP	C	0259	20.70	-0.41			1.0
BURR	EN	79	222	ES		0259	32.67	0.12			1.0
AL03AHZ		79	223	EP	C	0259	20.69	-0.43			1.0
AL03AHZ		79	223	IAML		0259	43.45		310	0.7	
AL01AHZ		94	285	EP	C	0259	22.73	-0.97			1.0
AL01AHN		94	285	ES		0259	37.27	0.03			1.0
AL01AHZ		94	285	IAML		0259	39.12		378	0.4	
RZM	EZ	94	285	EP	D	0259	23.17	-0.53			1.0
RZM	EN	94	285	ES		0259	37.38	0.13			1.0
LACI	HZ	94	235	EP		0259	23.74	0.01			1.0
LACI	HN	94	235	ES		0259	37.47	0.18			1.0
SDA	HZ	95	265	EP		0259	24.00	0.14			1.0
SDA	HN	95	265	ES		0259	37.76	0.22			1.0
ME01AHZ		102	322	EP		0259	25.01	0.01			1.0
ME01AHN		102	322	ES		0259	39.70	0.12			1.0
TIR	HZ	108	217	EP		0259	26.19	0.14			1.0
TIR	HN	108	217	ES		0259	41.82	0.31			1.0
PDG	HZ	119	287	EP	C	0259	27.03	-0.82			1.0
PDG	HN	119	287	ES		0259	44.66	-0.08			1.0
PDG	HZ	119	287	IAML		0259	45.47		188	0.5	
AL08AHZ		122	202	EP		0259	28.45	0.06			1.0
AL08AHN		122	202	ES		0259	44.76	-0.98			1.0
BARS	BZ	123	51	EP		0259	29.18	0.64			1.0
BARS	BN	123	51	ES		0259	45.68	-0.34			1.0
DRSH	EZ	132	225	EP		0259	30.57	0.47			1.0
DRSH	EN	132	225	ES		0259	48.92	0.08			1.0
DRSH	EZ	132	225	IAML		0259	56.19		160	0.5	
DURR	HZ	133	228	EP		0259	30.44	0.19			1.0
DURR	HN	133	228	ES		0259	49.18	0.08			1.0
AL07AHZ		136	179	EP		0259	31.09	0.30			1.0
AL07AHN		136	179	ES		0259	50.19	0.11			1.0
SJES	BZ	137	337	EP		0259	30.89	-0.12			1.0
SJES	BN	137	337	ES		0259	50.42	-0.06			1.0
BELS	EZ	142	206	EP		0259	31.12	-0.61			1.0
BELS	EN	142	206	ES		0259	51.69	-0.08			1.0
AL04AHZ		154	216	EP		0259	34.21	0.57			1.0
AL04AHN		154	216	ES		0259	55.26	0.02			1.0
AL04AHZ		154	216	IAML		0300	13.64		212	1.3	
BOSS	SZ	155	74	EP	C	0259	34.69	0.73			1.0
BOSS	SN	155	74	ES		0259	55.10	-0.71			1.0
NKME	HZ	156	298	EP		0259	33.76	-0.34			1.0
NKME	HN	156	298	ES		0259	56.15	0.08			1.0
NKME	HZ	156	298	IAML		0300	01.43		213	0.3	
MOGL	EZ	159	188	EP		0259	34.77	0.17			0.9
MOGL	EN	159	188	ES		0259	57.16	0.19			0.9
AL05AHZ		159	188	EP		0259	34.69	0.08			0.9
AL05AHN		159	188	ES		0259	56.99	0.01			0.9
AL05AHZ		159	188	IAML		0259	57.81		233	1.0	
KBN	HZ	167	176	EP		0259	36.12	0.15			0.9
KBN	HN	167	176	ES		0259	59.56	0.11			0.9
KBN	HZ	167	176	IAML		0259	59.95		128	0.6	

BERA	HZ	168	201	EP		0259	35.25	-0.79					0.9
BERA	HN	168	201	ES		0259	59.76	0.17					0.9
BERA	HZ	168	201	IAML		0300	04.42			174	0.7		
ME02AHZ		169	313	EP		0259	36.32	-0.00					0.9
ME02AHN		169	313	ES		0259	59.94	-0.15					0.9
ME02AHZ		169	313	IAML		0300	01.10			121	0.8		
ME03AHZ		172	323	EP		0259	36.85	0.13					0.9
ME03AHN		172	323	ES		0300	00.74	-0.08					0.9
ME03AHZ		172	323	IAML		0300	06.61			198	0.3		
ME05AHZ		180	283	EP		0259	37.81	-0.12					0.9
ME05AHN		180	283	ES		0300	02.79	-0.22					0.9
NEST	HZ	193	170	EP		0259	39.73	-0.02					0.9
NEST	HN	193	170	ES		0300	06.16	-0.14					0.9
NEST	HZ	193	170	IAML		0300	10.25			115	0.7		
VLO2	EZ	204	206	EP		0259	41.83	0.75					0.9
VLO2	EN	204	206	ES		0300	08.64	-0.07					0.9
VLO	HZ	208	208	EP		0259	41.87	0.37					0.9
VLO	HN	208	208	ES		0300	09.47	0.00					0.9
TPE	HZ	210	195	EP		0259	43.36	1.52					0.9
TPE	HN	210	195	ES		0300	09.95	-0.12					0.9
TPE	HZ	210	195	IAML		0300	21.71			120	0.6		
PENT	HZ	218	169	EP		0259	43.14	0.14					0.9
PENT	HE	218	169	ES		0300	11.87	-0.30					0.9
LSK	HZ	220	181	EP		0259	43.70	0.57					0.9
LSK	HE	220	181	ES		0300	12.18	-0.23					0.9
LSK	HZ	220	181	IAML		0300	16.53			101	0.6		
KZN	HZ	223	155	EP		0259	43.69	0.12					0.9
KZN	HN	223	155	ES		0300	13.06	-0.16					0.9

December 12 2024 Hour: 19:36 49.6 Lat: 38.15N Lon: 20.59E D: 14.4 Ag: TIR Local Magnitudes: 2.5ML TIR Rms: 0.4 secs
170 km S of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
VLS	HZ	3	352	EP		1936	52.73	0.55							1.0
VLS	HN	3	352	ES		1936	54.71	0.40							1.0
LKD2	HZ	71	4	EP		1937	01.32	-0.77							1.0
LKD2	HN	71	4	ES		1937	11.51	-0.73							1.0
ITM	HZ	160	132	EP		1937	16.27	-0.59							0.9
ITM	HN	160	132	ES		1937	39.05	0.07							0.9
KEK	HZ	186	339	EP		1937	20.60	0.26							0.9
KEK	HN	186	339	ES		1937	45.43	0.15							0.9
KEK	HZ	186	339	IAML		1937	58.82			35	0.9				
SRN	HZ	198	345	EP		1937	22.13	0.27							0.9
SRN	HN	198	345	ES		1937	48.21	0.19							0.9
SRN	HZ	198	345	IAML		1937	53.40			13	1.0				
THL	HZ	199	38	EP		1937	22.32	0.33							0.9
THL	HE	199	38	ES		1937	48.32	0.06							0.9
LSK	HZ	222	0	EP		1937	25.04	0.09							0.9
LSK	HN	222	0	ES		1937	53.69	0.07							0.9
LSK	HZ	222	0	IAML		1938	07.12			11	1.5				
AL06AHZ		227	342	EP		1937	24.76	-0.74							0.9
AL06AHN		227	342	ES		1937	54.57	-0.05							0.9
AL06AHZ		227	342	IAML		1938	05.00			14	0.9				
PENT	HZ	231	12	EP		1937	26.41	0.17							0.9
PENT	HN	231	12	ES		1937	56.09	0.14							0.9
PLSA	EZ	239	340	EP		1937	26.76	-0.30							0.9
PLSA	EN	239	340	ES		1937	57.72	0.29							0.9
TPE	HZ	243	348	EP		1937	27.93	0.34							0.9
TPE	HN	243	348	ES		1937	58.79	0.39							0.9
TPE	HZ	243	348	IAML		1938	13.68			14	1.4				
NEST	HZ	254	9	EP		1937	29.54	0.42							0.9
NEST	HN	254	9	ES		1938	01.32	0.15							0.9
SCTE	HZ	281	320	EP		1937	31.42	-1.10							0.8

December 13 2024 Hour: 15: 7 29.9 Lat: 40.05N Lon: 20.02E D: 10.0F Ag: TIR Local
Magnitudes: 2.6ML TIR 3.0MW TIR Rms: 0.4 secs
10 km W of Gjirokaster

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SRN	HZ	19	185	EP	D	1507	33.49	0.24							1.0
SRN	HE	19	185	ES		1507	36.32	0.33							1.0
SRN	HZ	19	185	IAML		1507	39.60			949	0.4				
TPE	HZ	27	359	EP	D	1507	34.30	-0.42							1.0
TPE	HN	27	359	ES		1507	38.56	-0.11							1.0
TPE	HZ	27	359	IAML		1507	41.23			579	0.5				
PLSA	EZ	36	291	EP		1507	36.15	-0.16							1.0
PLSA	EZ	36	291	IAML		1507	48.44			145	0.7				
KEK	HZ	42	207	EP	D	1507	37.01	-0.34							1.0
KEK	HE	42	207	ES		1507	43.56	0.16							1.0
KEK	HZ	42	207	IAML		1507	44.94			230	0.4				
LSK	HZ	51	77	EP	C	1507	38.00	-0.92							1.0
LSK	HE	51	77	ES		1507	46.85	0.59							1.0
LSK	HZ	51	77	IAML		1507	50.82			244	0.7				
VLO2	EZ	59	322	EP		1507	40.47	0.04							1.0
VLO2	EN	59	322	ES		1507	49.45	0.46							1.0
VLO2	EZ	59	322	IAML		1507	57.18			208	0.6				
VLO	HZ	64	316	EP		1507	41.37	0.01							1.0
VLO	HZ	64	316	IAML		1508	02.12			167	0.4				
BERA	HZ	73	355	EP		1507	42.97	0.00							1.0
BERA	HN	73	355	ES		1507	53.90	0.32							1.0
BERA	HZ	73	355	IAML		1508	00.06			121	0.6				
MOGL	EZ	79	23	EP		1507	44.02	-0.02							1.0
AL05A	HZ	79	23	EP		1507	43.76	-0.28							1.0
AL05A	HZ	79	23	IAML		1508	07.63			71	0.8				
MOGL	EZ	79	23	IAML		1508	07.98			41	1.0				
JAN	HE	84	121	ES		1507	57.33	0.46							1.0
KBN	HZ	91	45	EP		1507	46.02	-0.14							1.0
KBN	HZ	91	45	IAML		1508	13.58			49	1.2				
NEST	HZ	97	65	EP		1507	46.88	-0.23							1.0
NEST	HN	97	65	ES		1508	00.92	-0.17							1.0
NEST	HZ	97	65	IAML		1508	07.98			72	0.5				
PENT	HZ	97	80	EP		1507	46.19	-0.96							1.0
PENT	HN	97	80	ES		1508	01.35	0.19							1.0
AL04A	HZ	113	340	EP		1507	50.61	0.55							1.0
SCTE	HZ	132	272	EP		1507	53.39	0.12							1.0
SCTE	HN	132	272	ES		1508	11.37	-0.87							1.0
FUST	EZ	145	13	EP		1507	56.40	0.92							1.0
LKD2	HZ	150	158	EP		1507	56.27	-0.04							1.0
KZN	HZ	152	79	EP		1507	56.70	0.11							1.0
LACI	HZ	178	352	EP		1508	00.81	-0.07							0.9
LACI	HZ	178	352	IAML		1508	35.47			22	0.7				
THL	HZ	179	107	EP		1508	01.44	0.37							0.9
THL	HE	179	107	ES		1508	25.94	-0.41							0.9
PHP	HZ	185	11	EP		1508	02.35	0.26							0.9
PHP	HZ	185	11	IAML		1508	38.24			33	1.0				
VLS	HZ	214	166	EP		1508	05.98	0.21							0.9
PUK	HZ	222	357	EP		1508	06.69	-0.15							0.9
PUK	HZ	222	357	IAML		1508	46.27			10	0.5				
NOCI	HZ	264	289	EP		1508	12.43	0.23							0.9
PLG	HZ	294	82	EP		1508	15.86	-0.20							0.8

December 15 2024 Hour: 5:23 19.1 Lat: 38.15N Lon: 20.44E D: 19.5 Ag: TIR Local
Magnitudes: 3.1ML TIR 3.5MW TIR Rms: 0.3 secs
169 km S of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
VLS	HZ	13	78	EP		0523	23.60	0.39							1.0
VLS	HN	13	78	ES		0523	26.14	-0.43							1.0
LKD2	HZ	73	15	EP		0523	31.78	-0.36							1.0

LKD2	HN	73	15	ES		0523	43.05	0.32						1.0
ITM	HZ	170	129	EP		0523	47.13	-0.08						0.9
ITM	HN	170	129	ES		0524	10.02	0.02						0.9
JAN	HZ	171	12	EP		0523	47.53	0.17						0.9
JAN	HN	171	12	ES		0524	10.25	-0.03						0.9
KEK	HZ	182	342	EP		0523	49.32	0.55						0.9
KEK	HN	182	342	ES		0524	12.73	-0.10						0.9
KEK	HZ	182	342	IAML		0524	24.35		106	0.3				
SRN	HZ	196	349	EP		0523	50.47	0.00						0.9
SRN	HN	196	349	ES		0524	16.05	0.13						0.9
SRN	HZ	196	349	IAML		0524	28.60		51	0.2				
THL	HZ	208	41	EP		0523	52.46	0.39						0.9
THL	HN	208	41	ES		0524	18.71	-0.10						0.9
LSK	HZ	222	3	EP		0523	54.33	0.33						0.9
LSK	HE	222	3	ES		0524	22.30	-0.02						0.9
LSK	HZ	222	3	IAML		0524	37.90		63	0.6				
AL06A	HZ	223	345	EP		0523	54.20	0.19						0.9
AL06A	HE	223	345	ES		0524	21.55	-0.77						0.9
AL06A	HZ	223	345	IAML		0524	36.41		55	0.2				
PENT	HZ	235	15	EP		0523	56.15	0.51						0.9
PENT	HE	235	15	ES		0524	25.40	0.14						0.9
TPE	HZ	241	351	EP		0523	56.38	0.09						0.9
TPE	HE	241	351	ES		0524	26.48	0.04						0.9
TPE	HZ	241	351	IAML		0524	35.86		55	0.6				
NEST	HZ	257	12	EP		0523	58.55	0.12						0.9
NEST	HN	257	12	ES		0524	30.19	-0.13						0.9
NEST	HZ	257	12	IAML		0524	49.06		31	1.6				
SCTE	HZ	273	322	EP		0524	00.52	0.10						0.8
KBN	HZ	276	6	EP		0524	01.28	0.39						0.8
KBN	HN	276	6	ES		0524	34.68	-0.09						0.8
KBN	HZ	276	6	IAML		0524	57.02		25	0.8				
AL05A	HZ	284	359	EP		0524	01.83	0.02						0.8
AL05A	HZ	284	359	IAML		0525	00.39		30	1.8				
MOGL	EZ	284	359	EP		0524	01.80	-0.01						0.8
BERA	HZ	287	352	EP		0524	02.04	-0.19						0.8
BERA	HN	287	352	ES		0524	37.34	0.15						0.8
BERA	HZ	287	352	IAML		0524	51.78		26	0.4				
PLG	HZ	358	45	EP		0524	10.61	-0.73						0.8
LACI	HZ	392	351	EP		0524	14.57	-1.07						0.7
PHP	HZ	392	0	EP		0524	15.53	-0.24						0.7
PHP	HZ	392	0	IAML		0525	03.71		15	0.6				
NOCI	HZ	412	316	EP		0524	18.00	-0.32						0.7
PUK	HZ	435	354	EP		0524	21.08	-0.14						0.7
PRZK	HZ	452	3	EP		0524	23.44	0.07						0.7

December 16 2024 Hour: 0:22 42.3 Lat: 42.10N Lon: 21.39E D: 12.4 Ag: TIR Local
Magnitudes: 2.5ML TIR 3.0MW TIR Rms: 0.3 secs
80 km E of Kukes

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
PRZK	HZ	54	284	EP	D	0022	52.15	0.11							1.0
PRZK	HE	54	284	ES		0022	59.48	-0.42							1.0
PRZK	HZ	54	284	IAML		0023	02.04		307	0.2					
GMRK	HZ	64	347	EP	C	0022	54.37	0.64							1.0
GMRK	HN	64	347	ES		0023	02.33	-0.63							1.0
GMRK	HZ	64	347	IAML		0023	02.91		193	0.2					
KKS	HZ	82	268	EP		0022	56.99	0.28							1.0
KKS	HN	82	268	ES		0023	08.35	-0.00							1.0
KKS	HZ	82	268	IAML		0023	11.82		73	0.2					
BARS	BZ	87	24	EP	C	0022	57.83	0.27							1.0
BARS	BN	87	24	ES		0023	09.88	-0.02							1.0
BARS	BZ	87	24	IAML		0023	11.53		81	0.7					
PHP	HZ	91	240	EP		0022	57.82	-0.47							1.0
PHP	HZ	91	240	IAML		0023	12.10		31	0.3					
BOSS	SZ	99	63	EP		0022	59.74	0.19							1.0

BOSS	SE	99	63	ES	0023	12.86	-0.63							1.0
PEJK	HZ	110	304	EP	0023	01.85	0.48							1.0
PEJK	HN	110	304	ES	0023	16.86	0.06							1.0
PEJK	HZ	110	304	IAML	0023	24.35			26	0.7				
BCI	HZ	113	286	EP	0023	02.22	0.29							1.0
BCI	HZ	113	286	IAML	0023	22.02			52	0.3				
PUK	HZ	124	268	EP	0023	03.60	-0.18							1.0
PUK	HE	124	268	ES	0023	20.95	-0.21							1.0
PUK	HZ	124	268	IAML	0023	23.24			23	0.4				
BURR	EZ	128	245	EP	0023	04.41	0.08							1.0
BURR	EZ	128	245	IAML	0023	25.14			20	0.8				
PVY	HZ	130	295	EP	0023	04.86	0.04							1.0
PVY	HN	130	295	ES	0023	23.22	0.19							1.0
PVY	HZ	130	295	IAML	0023	28.68			50	0.3				
LACI	HZ	148	250	EP	0023	07.59	-0.12							1.0
AL01A	HZ	155	281	EP	0023	08.86	-0.00							1.0
AL01A	HE	155	281	ES	0023	30.22	-0.14							1.0
AL01A	HZ	155	281	IAML	0023	31.72			26	1.1				
RZM	EZ	155	281	EP	0023	08.53	-0.33							1.0
RZM	EZ	155	281	IAML	0023	30.41			13	0.7				
SDA	HZ	157	269	EP	0023	09.59	0.46							1.0
SDA	HN	157	269	ES	0023	30.41	-0.42							1.0
SDA	HZ	157	269	IAML	0023	37.62			33	2.1				
KBN	HZ	171	197	EP	0023	11.02	-0.47							0.9
KBN	HZ	171	197	IAML	0023	33.95			17	1.3				
SJES	BZ	174	318	EP	0023	11.81	-0.03							0.9
AL05A	HZ	176	209	EP	0023	12.33	0.30							0.9
MOGL	EZ	176	209	EP	0023	12.61	0.59							0.9
AL05A	HZ	176	209	IAML	0023	38.38			27	2.6				
PDG	HN	180	283	ES	0023	36.44	-0.38							0.9
DRSH	EZ	180	240	EP	0023	13.22	0.69							0.9
PDG	HZ	180	283	EP	0023	12.60	0.17							0.9
PDG	HZ	180	283	IAML	0023	38.14			17	2.0				
NEST	HZ	189	189	EP	0023	13.52	-0.29							0.9
NEST	HE	189	189	ES	0023	38.85	-0.45							0.9
NEST	HZ	189	189	IAML	0023	44.07			29	0.6				
BERA	HZ	196	219	EP	0023	14.77	0.18							0.9
BERA	HZ	196	219	IAML	0023	47.19			15	1.6				
PENT	HZ	212	186	EP	0023	16.95	0.17							0.9
NKME	HZ	214	291	EP	0023	17.04	0.12							0.9
ME02A	HZ	220	303	EP	0023	17.95	0.14							0.9
NVR	HZ	222	111	EP	0023	17.86	-0.11							0.9
LSK	HZ	226	197	EP	0023	18.46	-0.10							0.9
LSK	HZ	226	197	IAML	0024	03.23			25	0.8				

December 16 2024 Hour: 16:10 51.7 Lat: 39.41N Lon: 19.89E D: 23.6 Ag: TIR Local
Magnitudes: 2.5ML TIR 2.7MW TIR Rms: 0.4 secs
37 km SW of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KEK	HZ	35	346	EP		1610	59.24	0.32							1.0
KEK	HN	35	346	ES		1611	04.90	0.13							1.0
KEK	HN	35	346	E		1611	04.90								
KEK	HZ	35	346	IAML		1611	05.99			205	0.4				
SRN	HZ	53	10	EP		1611	01.86	0.22							1.0
SRN	HN	53	10	ES		1611	09.65	-0.05							1.0
SRN	HZ	53	10	IAML		1611	11.08			149	0.5				
AL06A	HZ	76	351	EP		1611	05.52	0.22							1.0
AL06A	HE	76	351	ES		1611	16.41	0.06							1.0
AL06A	HZ	76	351	IAML		1611	17.83			111	0.5				
JAN	HN	87	71	ES		1611	19.29	-0.09							1.0
PLSA	EZ	87	345	EP		1611	07.26	0.24							1.0
PLSA	EZ	87	345	IAML		1611	19.90			71	0.2				
TPE	HZ	99	6	EP		1611	08.92	0.07							1.0
TPE	HZ	99	6	IAML		1611	22.13			36	0.2				

PRMT	EZ	99	23	EP		1611	08.85	-0.04						1.0
PRMT	EN	99	23	ES		1611	21.97	-0.87						1.0
PRMT	EZ	99	23	IAML		1611	22.52			56	0.3			
LSK	HZ	102	36	EP		1611	09.60	0.18						1.0
LSK	HN	102	36	ES		1611	23.48	-0.30						1.0
LSK	HZ	102	36	IAML		1611	29.20			71	0.6			
VLO2	EZ	120	348	EP		1611	12.63	0.38						1.0
VLO2	EZ	120	348	IAML		1611	46.53			26	1.0			
PENT	HZ	138	50	EP		1611	15.25	0.19						1.0
SCTE	HZ	143	301	EP		1611	14.73	-1.03						1.0
BERA	HZ	144	2	EP		1611	15.97	-0.04						1.0
BERA	HN	144	2	ES		1611	35.37	-0.35						1.0
BERA	HZ	144	2	IAML		1611	37.39			44	0.4			
NEST	HZ	149	41	EP		1611	17.48	0.68						1.0
NEST	HZ	149	41	IAML		1611	42.08			31	0.3			
AL05A	HZ	150	16	EP		1611	16.98	0.12						1.0
VLS	HZ	150	156	EP		1611	16.22	-0.58						1.0
MOGL	EZ	150	16	EP		1611	17.27	0.41						1.0
AL05A	HZ	150	16	IAML		1611	40.96			20	0.3			
BELS	EZ	173	1	EP		1611	19.86	0.05						0.9
THL	HZ	183	84	EP		1611	21.26	0.19						0.9
AL08A	HZ	189	5	EP		1611	22.41	0.57						0.9
KZN	HZ	189	58	EP		1611	21.99	0.08						0.9
NOCI	HZ	286	303	EP		1611	34.40	0.15						0.8
PUK	HZ	292	360	EP		1611	35.63	0.47						0.8
ITM	HZ	305	144	EP		1611	36.44	-0.26						0.8
RZM	EZ	327	355	EP		1611	38.88	-0.81						0.8
AL01A	HZ	327	355	EP		1611	39.15	-0.54						0.8
PVY	HZ	354	1	EP		1611	42.94	-0.14						0.8
MRVN	HZ	364	301	EP		1611	44.43	0.10						0.8

December 17 2024 Hour: 10:41 38.2 Lat: 42.31N Lon: 21.42E D: 11.1 Ag: TIR Local
Magnitudes: 2.7ML TIR 3.0MW TIR Rms: 0.4 secs
83 km E of Krume

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GMRK	HZ	42	337	EP		1041	46.27	0.34							1.0
GMRK	HN	42	337	ES		1041	51.96	-0.21							1.0
PRZK	HZ	56	258	EP		1041	48.50	0.28							1.0
PRZK	HN	56	258	ES		1041	55.95	-0.37							1.0
BARS	BZ	65	30	EP		1041	50.05	0.32							1.0
BARS	BN	65	30	ES		1041	59.02	-0.03							1.0
KKS	HZ	88	253	EP		1041	53.90	0.29							1.0
KKS	HN	88	253	ES		1042	06.12	0.04							1.0
KKS	HZ	88	253	IAML		1042	07.03			92	0.1				
BOSS	SZ	88	76	EP		1041	53.93	0.25							1.0
BOSS	SN	88	76	ES		1042	05.31	-0.91							1.0
PEJK	HZ	101	292	EP		1041	55.92	0.19							1.0
PEJK	HE	101	292	ES		1042	09.42	-0.49							1.0
PEJK	HZ	101	292	IAML		1042	10.18			70	0.3				
PHP	HZ	107	230	EP		1041	57.18	0.41							1.0
PHP	HN	107	230	ES		1042	11.51	-0.29							1.0
PHP	HZ	107	230	IAML		1042	12.22			98	0.3				
BCI	HZ	111	273	EP		1041	58.09	0.58							1.0
BCI	HN	111	273	ES		1042	11.72	-1.42							1.0
BCI	HZ	111	273	IAML		1042	19.87			110	0.6				
PVY	HZ	124	285	EP		1041	59.55	-0.11							1.0
PVY	HN	124	285	ES		1042	17.83	0.80							1.0
PVY	HZ	124	285	IAML		1042	20.45			92	0.4				
PUK	HZ	130	257	EP		1042	00.77	0.21							1.0
PUK	HN	130	257	ES		1042	18.66	0.01							1.0
PUK	HZ	130	257	IAML		1042	21.81			50	0.1				
FUST	EZ	139	218	EP		1042	02.06	-0.04							1.0
FUST	EN	139	218	ES		1042	21.09	-0.36							1.0
BURR	EZ	141	236	EP		1042	02.73	0.24							1.0

BURR	EZ	141	236	IAML	1042	25.38		34	0.3				
AL03A	HZ	141	236	EP	1042	02.54	0.04						1.0
AL03A	HZ	141	236	IAML	1042	27.96		57	1.0				
AL01A	HZ	154	272	EP	1042	04.83	0.16						1.0
AL01A	HZ	154	272	IAML	1042	30.38		54	0.8				
SJES	BZ	158	312	EP	1042	05.24	-0.13						0.9
LACI	HZ	160	242	EP	1042	05.76	0.23						0.9
LACI	HZ	160	242	IAML	1042	34.13		20	0.4				

December 17 2024 Hour: 17: 1 37.0 Lat: 41.62N Lon: 20.15E D: 15.6 Ag: TIR Local
Magnitudes: 3.7ML TIR 3.8MW TIR Rms: 0.3 secs
11 km E of Burrel

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BURR	EZ	13	261	EP		1701	40.76	0.19							1.0
BURR	EN	13	261	ES		1701	43.41	-0.04							1.0
BURR	EZ	13	261	IAML		1701	44.43			7014	0.2				
AL03A	HZ	13	261	EP		1701	41.00	0.41							1.0
AL03A	HE	13	261	ES		1701	43.24	-0.23							1.0
AL03A	HZ	13	261	IAML		1701	44.42			15156	0.2				
PHP	HZ	25	73	EP		1701	42.58	0.33							1.0
PHP	HN	25	73	ES		1701	46.70	0.22							1.0
PHP	HZ	25	73	IAML		1701	47.83			5600	0.1				
LACI	HZ	36	273	EP		1701	43.80	-0.13							1.0
LACI	HN	36	273	ES		1701	49.54	0.02							1.0
LACI	HZ	36	273	IAML		1701	51.78			5019	0.3				
FUST	EZ	38	148	EP		1701	44.28	-0.08							1.0
FUST	EN	38	148	ES		1701	50.20	-0.09							1.0
TIR	HZ	39	219	EP		1701	44.22	-0.08							1.0
TIR	HN	39	219	ES		1701	50.03	-0.15							1.0
TIR	HZ	39	219	IAML		1701	50.30			1478	0.2				
PUK	HZ	52	335	EP		1701	46.67	0.17							1.0
PUK	HN	52	335	ES		1701	54.40	0.22							1.0
PUK	HZ	52	335	IAML		1701	56.16			2256	0.3				
KKS	HZ	55	22	EP		1701	47.05	0.14							1.0
KKS	HN	55	22	ES		1701	54.78	-0.13							1.0
KKS	HZ	55	22	IAML		1701	55.80			2351	0.2				
AL08A	HZ	57	184	EP		1701	47.11	-0.23							1.0
AL08A	HN	57	184	ES		1701	55.62	-0.08							1.0
AL08A	HZ	57	184	IAML		1701	56.31			4802	0.2				
DRSH	EZ	65	235	EP		1701	48.91	0.33							1.0
DURR	HZ	67	240	EP		1701	49.25	0.31							1.0
SDA	HZ	72	312	EP		1701	49.88	0.04							1.0
SDA	HN	72	312	ES		1702	00.60	0.39							1.0
SDA	HZ	72	312	IAML		1702	01.61			2216	0.3				
BELS	EZ	75	196	EP		1701	50.08	-0.16							1.0
BELS	EZ	75	196	IAML		1702	02.85			724	0.3				
PRZK	HZ	83	37	EP		1701	51.60	0.00							1.0
PRZK	HZ	83	37	IAML		1702	04.94			1124	0.5				
BCI	HZ	83	355	EP		1701	51.62	-0.07							1.0
BCI	HZ	83	355	IAML		1702	06.21			811	0.3				
AL04A	HZ	84	216	EP		1701	52.50	0.71							1.0
AL07A	HZ	91	151	EP		1701	53.29	0.28							1.0
AL07A	HN	91	151	ES		1702	06.47	0.51							1.0
AL07A	HZ	91	151	IAML		1702	10.27			2934	0.5				
RZM	EZ	95	328	EP		1701	53.54	-0.14							1.0
RZM	EN	95	328	ES		1702	07.19	0.02							1.0
AL01A	HZ	95	328	EP		1701	53.37	-0.31							1.0
AL01A	HE	95	328	ES		1702	07.13	-0.04							1.0
AL01A	HZ	95	328	IAML		1702	08.65			1642	0.5				
BERA	HZ	103	190	EP		1701	54.24	-0.64							1.0
BERA	HN	103	190	ES		1702	09.43	0.10							1.0
BERA	HZ	103	190	IAML		1702	12.91			705	0.4				
AL05A	HZ	103	169	EP		1701	54.76	-0.26							1.0
AL05A	HN	103	169	ES		1702	09.54	-0.06							1.0

AL05AHZ		103	169	IAML	1702	11.74			969	0.4				
MOGL	EZ	103	169	EP	1701	54.93	-0.09							1.0
BPA2	HZ	108	205	EP	1701	55.35	-0.47							1.0
PVY	HZ	110	352	EP	1701	55.61	-0.49							1.0
PVY	HN	110	352	ES	1702	11.39	-0.16							1.0
PVY	HZ	110	352	IAML	1702	14.28			1182	0.6				
PEJK	HZ	114	5	EP	1701	56.65	-0.19							1.0
PDG	HZ	117	321	EP	1701	56.69	-0.49							1.0
PDG	HN	117	321	ES	1702	13.81	0.32							1.0
PDG	HZ	117	321	IAML	1702	15.52			914	0.3				
VLO2	EZ	136	201	EP	1701	59.96	-0.53							1.0
VLO	HZ	139	204	EP	1702	00.97	0.02							1.0
VLO	HZ	139	204	IAML	1702	24.85			961	0.4				
TPE	HZ	147	185	EP	1702	02.78	0.46							1.0
TPE	HZ	147	185	IAML	1702	32.58			613	0.7				
NEST	HZ	153	150	EP	1702	02.93	-0.40							1.0
NEST	HZ	153	150	IAML	1702	28.32			836	0.2				
AL06AHZ		173	191	EP	1702	06.31	0.32							0.9
AL06AHZ		173	191	IAML	1702	34.07			125	0.3				
SRN	HZ	194	184	EP	1702	08.86	0.28							0.9
SRN	HZ	194	184	IAML	1702	42.85			126					

December 18 2024 Hour: 10:44 6.2 Lat: 40.41N Lon: 20.09E D: 15.7 Ag: TIR Local Magnitudes: 2.5ML TIR 3.0MW TIR Rms: 0.4 secs
11 km NE of Memaliaj

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TPE	HZ	14	206	EP		1044	09.60	-0.38							1.0
TPE	HN	14	206	ES		1044	12.85	-0.18							1.0
TPE	HZ	14	206	IAML		1044	14.69			627	0.1				
PRMT	EZ	30	132	EP		1044	11.90	-0.29							1.0
PRMT	EZ	30	132	ES		1044	17.03	0.01							1.0
BERA	HZ	35	340	EP		1044	12.11	-0.84							1.0
BERA	HN	35	340	ES		1044	17.27	-1.13							1.0
MOGL	EZ	41	38	EP		1044	13.94	-0.05							1.0
AL05AHZ		42	38	EP		1044	13.91	-0.08							1.0
AL05AHN		42	38	ES		1044	20.59	0.31							1.0
AL05AHZ		42	38	IAML		1044	21.46			218	0.3				
VLO2	EZ	43	278	EP		1044	13.70	-0.52							1.0
VLO2	EN	43	278	ES		1044	20.08	-0.61							1.0
AL06AHZ		46	218	EP		1044	14.72	0.09							1.0
AL06AHN		46	218	ES		1044	21.72	0.27							1.0
AL06AHZ		46	218	IAML		1044	27.45			138	0.5				
PLSA	EZ	48	236	EP		1044	14.75	-0.30							1.0
PLSA	EN	48	236	ES		1044	22.66	0.46							1.0
VLO	HZ	51	277	EP		1044	15.54	0.07							1.0
VLO	HN	51	277	ES		1044	23.25	0.29							1.0
LSK	HZ	52	124	EP		1044	15.40	-0.37							1.0
LSK	HE	52	124	ES		1044	23.44	-0.06							1.0
LSK	HZ	52	124	IAML		1044	29.58			109	0.5				
BPA2	HZ	53	312	EP		1044	16.17	0.29							1.0
SRN	HZ	60	187	EP		1044	16.97	0.06							1.0
SRN	HN	60	187	ES		1044	25.82	0.26							1.0
SRN	HZ	60	187	IAML		1044	31.03			77	0.5				
BELS	EZ	64	347	EP		1044	17.08	-0.56							1.0
BELS	EN	64	347	ES		1044	26.39	-0.49							1.0
AL07AHZ		74	42	EP		1044	18.61	-0.68							1.0
AL08AHZ		77	1	EP		1044	20.26	0.45							1.0
AL08AHN		77	1	ES		1044	31.15	0.33							1.0
AL08AHZ		77	1	IAML		1044	35.33			76	0.4				
AL04AHZ		80	326	EP		1044	20.58	0.32							1.0
AL04AHN		80	326	ES		1044	32.06	0.43							1.0
AL04AHZ		80	326	IAML		1044	39.28			103	0.3				
KEK	HZ	81	198	EP		1044	20.74	0.18							1.0
KEK	HN	81	198	ES		1044	32.26	0.09							1.0

```
KEK  HZ   81 198  IAML    1044 37.48             81  0.4
PENT HZ   92 105 EP       1044 22.58 0.16                      1.0
PENT HE   92 105 ES       1044 35.56 0.02                      1.0
FUST EZ  105  14 EP       1044 24.90 0.42                      1.0
FUST EN  105  14 ES       1044 39.42 0.16                      1.0
AL03AHZ  132 357 EP       1044 29.31 0.28                      1.0
AL03AHN  132 357 ES       1044 47.84 0.34                      1.0
AL03AHZ  132 357  IAML    1044 50.88             48  0.3
BURR EZ  132 357 EP       1044 29.30 0.28                      1.0
BURR EN  132 357 ES       1044 48.04 0.55                      1.0
BURR EZ  132 357  IAML    1044 50.97             28  0.4
LACI HZ  140 347 EP       1044 30.42 0.21                      1.0
LACI HN  140 347 ES       1044 49.90 0.26                      1.0
LACI HZ  140 347  IAML    1044 52.12             37  0.4
KZN  HZ  143  94 EP       1044 30.95 0.06                      1.0
SCTE HZ  143 255 EP       1044 30.94 0.14                      1.0
KZN  HN  143  94 ES       1044 50.83-0.04                      1.0
PHP  HZ  144  12 EP       1044 31.68 0.62                      1.0
PHP  HN  144  12 ES       1044 51.22 0.05                      1.0
PHP  HZ  144  12  IAML    1044 56.01             30  1.0
PUK  HZ  182 355 EP       1044 36.46 0.07                      0.9
PUK  HN  182 355 ES       1045 00.50-0.32                      0.9
PUK  HZ  182 355  IAML    1045 05.30             14  0.4
KKS  HZ  186   8 EP       1044 36.85-0.05                      0.9
KKS  HN  186   8 ES       1045 01.82 0.07                      0.9
KKS  HZ  186   8  IAML    1045 13.18             17  0.8
SDA  HZ  189 345 EP       1044 37.38 0.25                      0.9
THL  HZ  189 119 EP       1044 37.31 0.06                      0.9
THL  HE  189 119 ES       1045 02.09-0.30                      0.9
PRZK HZ  208  15 EP       1044 39.91 0.26                      0.9
PRZK HN  208  15 ES       1045 06.73 0.01                      0.9
PRZK HZ  208  15  IAML    1045 07.39             22  0.7
AL01AHZ  220 348 EP       1044 41.47 0.22                      0.9
AL01AHN  220 348 ES       1045 08.73-0.90                      0.9
AL01AHZ  220 348  IAML    1045 13.64             14  0.4
PVY  HZ  243 357 EP       1044 44.43 0.20                      0.9
PVY  HN  243 357 ES       1045 14.57-0.45                      0.9
```

December 19 2024 Hour: 13:15 33.7 Lat: 40.72N Lon: 21.25E D: 7.0 Ag: TIR Local
Magnitudes: 2.7ML TIR 3.2MW TIR Rms: 0.3 secs
24 km NE of Bilisht

```
STAT CO DIST AZI PHASE  P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO  WT
NEST HZ   38 207 EP     D 1315 41.01 0.47                            1.0
NEST HN   38 207 ES       1315 46.03-0.07                            1.0
NEST HZ   38 207  IAML    1315 47.28          3135  0.2
AL07AHZ   53 293 EP       1315 43.11-0.06                            1.0
AL07AHN   53 293 ES       1315 50.90 0.05                            1.0
AL07AHZ   53 293  IAML    1315 59.70           963  0.3
PENT HZ   59 190 EP     C 1315 44.50 0.27                            1.0
PENT HE   59 190 ES       1315 53.19 0.42                            1.0
KZN  HZ   63 136 EP     C 1315 45.58 0.52                            1.0
KZN  HE   63 136 ES       1315 53.84-0.43                            1.0
MOGL EZ   73 269 EP       1315 46.67-0.07                            1.0
MOGL EN   73 269 ES       1315 56.99-0.33                            1.0
MOGL EZ   73 269  IAML    1315 58.24           144  0.3
LSK  HZ   84 222 EP     C 1315 48.01-0.66                            1.0
LSK  HE   84 222 ES       1316 00.61-0.19                            1.0
LSK  HZ   84 222  IAML    1316 06.45           110  0.5
PRMT EZ   94 235 EP     C 1315 49.72-0.54                            1.0
FUST EZ   99 314 EP     D 1315 50.88-0.31                            1.0
AL08AHZ  106 294 EP       1315 51.97-0.37                            1.0
BERA HZ  110 270 EP       1315 53.15 0.08                            1.0
BERA HN  110 270 ES       1316 08.88 0.12                            1.0
BERA HZ  110 270  IAML    1316 15.99           98  0.6
```

TPE	HZ	115	246	EP		1315	53.45	-0.34					1.0
TPE	HE	115	246	ES		1316	10.30	0.23					1.0
TPE	HZ	115	246	IAML		1316	19.78			84	0.7		
BELS	EZ	116	285	EP		1315	54.02	-0.05					1.0
BELS	EZ	116	285	IAML		1316	14.75			37	0.7		
JAN	HN	122	196	ES		1316	12.48	0.07					1.0
PHP	HZ	127	328	EP		1315	55.83	-0.09					1.0
PHP	HZ	127	328	IAML		1316	14.40			58	0.5		
SRN	HZ	141	229	EP		1315	58.57	0.40					1.0
SRN	HZ	141	229	IAML		1316	24.69			50	0.4		
THL	HZ	143	153	EP		1315	58.11	-0.43					1.0
THL	HN	143	153	ES		1316	18.58	-0.09					1.0
BURR	EZ	144	314	EP		1315	58.73	0.11					1.0
BURR	EZ	144	314	IAML		1316	25.14			44	0.4		
VLO2	EZ	144	260	EP		1315	58.80	0.21					1.0
THE	HZ	145	93	EP		1315	58.64	-0.20					1.0
PLSA	EZ	151	247	EP		1315	59.95	0.11					1.0
LACI	HZ	164	309	EP		1316	02.01	-0.05					0.9
LACI	HZ	164	309	IAML		1316	26.73			38	0.8		
KEK	HZ	166	228	EP		1316	02.79	0.39					0.9
KEK	HZ	166	228	IAML		1316	27.97			51	1.3		
KKS	HZ	167	335	EP		1316	02.47	0.01					0.9
KKS	HZ	167	335	IAML		1316	29.02			39	1.3		
PRZK	HZ	171	346	EP		1316	02.99	-0.23					0.9
PUK	HZ	186	323	EP		1316	04.74	-0.66					0.9
PUK	HZ	186	323	IAML		1316	36.00			24	0.4		
PLG	HZ	190	101	EP		1316	05.61	-0.18					0.9
SDA	HZ	208	316	EP		1316	08.27	0.13					0.9
BCI	HZ	208	332	EP		1316	08.75	0.56					0.9
GMRK	HZ	216	359	EP		1316	09.80	0.58					0.9
BOSS	SZ	222	27	EP		1316	10.24	0.24					0.9
RZM	EZ	230	322	EP		1316	11.50	0.42					0.9
PVY	HZ	235	333	EP		1316	11.72	0.03					0.9
PVY	HZ	235	333	IAML		1316	48.90			40	0.6		
BARS	BZ	238	11	EP		1316	12.02	0.04					0.9
NKME	HZ	297	321	EP		1316	19.57	-0.07					0.8
ME02A	HZ	324	328	EP		1316	23.44	0.36					0.8

December 22 2024 Hour: 12:33 42.6 Lat: 39.68N Lon: 20.44E D: 13.1 Ag: TIR Local
Magnitudes: 3.7ML TIR 3.8MW TIR Rms: 0.5 secs
22 km E of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
JAN	HN	35	94	ES		1233	55.03	0.45							1.0
SRN	HZ	44	300	EP	D	1233	50.66	0.00							1.0
SRN	HE	44	300	ES		1233	57.65	0.47							1.0
SRN	HZ	44	300	IAML		1233	59.72			3797	0.3				
LSK	HZ	54	14	EP	D	1233	52.11	-0.23							1.0
LSK	HN	54	14	ES		1234	00.17	-0.06							1.0
LSK	HZ	54	14	IAML		1234	05.22			3641	0.9				
KEK	HZ	55	274	EP	D	1233	52.89	0.31							1.0
KEK	HN	55	274	ES		1234	01.03	0.37							1.0
KEK	HZ	55	274	IAML		1234	05.22			3338	0.4				
PRMT	EZ	61	353	EP	D	1233	52.93	-0.63							1.0
PRMT	EZ	61	353	IAML		1234	03.27			2345	0.4				
AL06A	HZ	74	308	EP		1233	55.53	-0.15							1.0
AL06A	HN	74	308	ES		1234	05.74	-0.54							1.0
AL06A	HZ	74	308	IAML		1234	09.31			2198	0.3				
TPE	HZ	77	332	EP		1233	56.18	-0.05							1.0
TPE	HN	77	332	ES		1234	08.00	0.74							1.0
TPE	HZ	77	332	IAML		1234	11.89			2417	0.3				
PENT	HZ	82	46	EP	D	1233	56.96	-0.16							1.0
PLSA	EZ	88	308	EP		1233	57.99	-0.08							1.0
PLSA	EN	88	308	ES		1234	10.34	-0.26							1.0
PLSA	EZ	88	308	IAML		1234	15.02			1283	0.6				

NEST	HZ	97	32	EP	C	1233	59.44	-0.02						1.0
NEST	HZ	97	32	IAML		1234	18.33			919	0.4			
KBN	HE	109	16	ES		1234	16.88	0.10						1.0
KBN	HZ	109	16	IAML		1234	19.37			486	0.5			
AL05AHZ		114	358	EP		1234	01.87	-0.45						1.0
AL05AHZ		114	358	IAML		1234	20.83			620	0.9			
MOGL	EZ	114	358	IAML		1234	32.32			346	0.4			
VLO2	EZ	114	320	EP		1234	03.32	1.01						1.0
MOGL	EZ	114	358	EP		1234	01.91	-0.41						1.0
VLO2	EZ	114	320	IAML		1234	28.95			1408	0.3			
VLO	HZ	119	318	IAML		1234	23.91			1629	0.6			
BERA	HZ	122	340	EP		1234	03.12	-0.50						1.0
BERA	HZ	122	340	IAML		1234	31.88			1162	0.4			
KZN	HZ	133	58	EP		1234	05.20	-0.32						1.0
THL	HZ	135	95	EP		1234	05.81	-0.08						1.0
AL07AHZ		137	8	EP		1234	06.44	0.28						1.0
BELS	EZ	150	343	EP		1234	08.24	-0.12						1.0
BELS	EZ	150	343	IAML		1234	33.67			465	1.0			
AL08AHZ		161	350	EP		1234	09.73	-0.39						0.9
AL08AHE		161	350	ES		1234	33.04	0.62						0.9
VLS	HZ	167	176	EP		1234	11.12	0.01						0.9
SCTE	HZ	175	285	EP		1234	11.22	-0.79						0.9
FUST	EZ	183	359	EP		1234	13.93	0.76						0.9
TIR	HZ	192	345	EP		1234	14.48	0.29						0.9
TIR	HZ	192	345	IAML		1234	55.10			226	0.9			
AL02AHZ		211	336	EP		1234	17.24	0.53						0.9
AL02AHZ		211	336	IAML		1234	56.90			594	0.5			
BURR	EZ	217	350	EP		1234	17.26	-0.16						0.9
AL03AHZ		217	350	IAML		1234	58.15			387	1.6			
BURR	EZ	217	350	IAML		1234	58.15			235	1.6			
AL03AHZ		217	350	EP		1234	17.68	0.26						0.9
PHP	HZ	223	360	EP	C	1234	19.10	0.87						0.9
PHP	HZ	223	360	IAML		1234	53.43			235	0.7			
LACI	HZ	226	344	EP		1234	18.26	-0.30						0.9
LACI	HZ	226	344	IAML		1235	00.24			195	0.5			
THE	HZ	239	63	EP		1234	20.62	0.31						0.9
KKS	HZ	266	359	EP		1234	24.25	0.52						0.9
KKS	HZ	266	359	IAML		1235	25.05			145	1.1			
PUK	HZ	266	350	EP	C	1234	23.49	-0.39						0.9
PUK	HZ	266	350	IAML		1235	09.32			105	0.6			
PLG	HZ	267	72	EP		1234	24.40	0.44						0.9
SDA	HZ	275	343	EP		1234	24.10	-0.76						0.8
SDA	HZ	275	343	IAML		1235	15.37			67	0.8			
PRZK	HZ	282	5	EP		1234	26.29	0.41						0.8
BCI	HZ	300	354	EP		1234	28.18	0.05						0.8
AL01AHZ		305	346	EP		1234	27.89	-1.03						0.8
AL01AHZ		305	346	IAML		1235	17.03			101	0.8			
PDG	HZ	321	342	EP		1234	29.82	-0.96						0.8
PDG	HZ	321	342	IAML		1235	32.13			64	1.1			
PVY	HZ	326	353	EP		1234	31.74	0.15						0.8
PVY	HZ	326	353	IAML		1235	29.53			144	0.5			
PEJK	HZ	329	358	EP		1234	31.74	-0.19						0.8
PEJK	HZ	329	358	IAML		1235	28.84			75	0.8			
NVR	HZ	344	56	EP		1234	33.52	-0.27						0.8

December 24 2024 Hour: 4: 9 21.1 Lat: 38.74N Lon: 20.58E D: 7.6 Ag: TIR Local
Magnitudes: 2.6ML TIR Rms: 0.1 secs
107 km S of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
LKD2	HZ	9	53	EP		0409	23.38	0.14							1.0
LKD2	HN	9	53	ES		0409	24.86	-0.12							1.0
VLS	HZ	63	179	EP		0409	32.24	-0.11							1.0
VLS	HN	63	179	ES		0409	41.55	0.08							1.0
KEK	HZ	127	328	EP		0409	43.29	0.06							1.0

```
KEK  HN  127 328 ES       0410 01.31 0.15                          1.0
KEK  HZ  127 328  IAML    0410 06.68            53  0.7
SRN  HZ  136 339 EP       0409 44.78 0.11                          1.0
SRN  HN  136 339 ES       0410 03.63-0.15                          1.0
THL  HZ  154  53 EP       0409 47.76 0.00                          1.0
THL  HN  154  53 ES       0410 09.44 0.08                          1.0
LSK  HZ  157   1 EP       0409 48.20 0.04                          1.0
LSK  HN  157   1 ES       0410 10.13 0.04                          1.0
LSK  HZ  157   1  IAML    0410 26.50            36  1.5
PENT HZ  169  16 EP       0409 50.05-0.16                          0.9
PENT HE  169  16 ES       0410 13.82 0.04                          0.9
TPE  HZ  179 345 EP       0409 51.93 0.18                          0.9
TPE  HN  179 345 ES       0410 16.41-0.18                          0.9
TPE  HZ  179 345  IAML    0410 19.64            33  1.2
NEST HZ  190  12 EP       0409 53.19-0.09                          0.9
NEST HN  190  12 ES       0410 19.45 0.10                          0.9
NEST HZ  190  12  IAML    0410 21.75            20  1.8
BERA HZ  225 346 EP       0409 57.33-0.31                          0.9
BERA HN  225 346 ES       0410 27.30 0.06                          0.9
BERA HZ  225 346  IAML    0410 38.45            22  1.1
```

December 25 2024 Hour: 5:59 14.7 Lat: 41.61N Lon: 20.35E D: 8.2 Ag: TIR Local Magnitudes: 2.6ML TIR 3.0MW TIR Rms: 0.4 secs
10 km SW of Peshkopi

```
STAT CO DIST AZI PHASE  P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO  WT
PHP  HZ   11  43 EP     D 0559 17.52 0.30                          1.0
PHP  HN   11  43 ES       0559 19.84 0.58                          1.0
PHP  HZ   11  43  IAML    0559 21.48          1302  0.4
AL03AHE   29 268 ES       0559 24.14-0.31                          1.0
BURR EZ   29 268 EP     C 0559 19.77-0.30                          1.0
BURR EN   29 268 ES       0559 23.88-0.54                          1.0
BURR EZ   29 268  IAML    0559 24.91           584  0.5
AL03AHZ   29 268 EP     C 0559 19.77-0.31                          1.0
TIR  HZ   50 234 EP       0559 24.13 0.37                          1.0
TIR  HN   50 234 ES       0559 31.85 0.74                          1.0
TIR  HZ   50 234  IAML    0559 33.73           100  0.4
KKS  HZ   51   5 EP       0559 23.98-0.01                          1.0
KKS  HN   51   5 ES       0559 31.51-0.02                          1.0
KKS  HZ   51   5  IAML    0559 35.07           179  0.4
LACI HZ   53 273 EP       0559 24.40 0.16                          1.0
LACI HN   53 273 ES       0559 32.29 0.32                          1.0
LACI HZ   53 273  IAML    0559 37.93           237  0.7
AL08AHZ   60 200 EP       0559 25.30-0.22                          1.0
AL08AHN   60 200 ES       0559 33.46-0.83                          1.0
AL08AHZ   60 200  IAML    0559 41.27           133  0.4
PUK  HZ   61 322 EP       0559 25.50-0.23                          1.0
PUK  HN   61 322 ES       0559 34.81 0.14                          1.0
PUK  HZ   61 322  IAML    0559 35.98           130  0.4
PRZK HZ   75  27 EP       0559 27.65-0.41                          1.0
PRZK HE   75  27 ES       0559 38.76-0.12                          1.0
PRZK HZ   75  27  IAML    0559 39.93           117  0.4
DRSH EZ   78 242 EP       0559 28.84 0.18                          1.0
BELS EZ   80 207 EP       0559 28.90-0.05                          1.0
SDA  HZ   86 305 EP       0559 30.10 0.22                          1.0
SDA  HN   86 305 ES       0559 42.35 0.17                          1.0
SDA  HZ   86 305  IAML    0559 56.54            59  2.1
BCI  HZ   87 344 EP       0559 29.56-0.56                          1.0
BCI  HZ   87 344  IAML    0559 43.97            88  0.4
AL04AHZ   94 225 EP       0559 31.82 0.52                          1.0
AL05AHN  101 178 ES       0559 46.53-0.22                          1.0
AL05AHZ  101 178  IAML    0559 50.07            91  0.4
AL01AHZ  105 321 EP       0559 32.81-0.38                          1.0
AL01AHZ  105 321  IAML    0559 51.24            56  0.4
RZM  EZ  105 321 EP       0559 33.00-0.19                          1.0
```

RZM	EZ	105	321	IAML		0559	51.24			32	0.4			
BERA	HZ	106	199	EP		0559	33.12	-0.14						1.0
BERA	HZ	106	199	IAML		0559	51.04			35	0.9			
PVY	HZ	114	344	EP	C	0559	34.35	-0.29						1.0
PVY	HN	114	344	ES		0559	51.72	0.93						1.0
PVY	HZ	114	344	IAML		0559	53.88			93	0.5			
PEJK	HZ	115	357	EP		0559	33.89	-0.85						1.0
PEJK	HZ	115	357	IAML		0559	56.71			44	0.5			
KBN	HZ	116	161	EP		0559	35.32	0.40						1.0
KBN	HZ	116	161	IAML		0559	57.09			41	0.7			
PDG	HZ	128	316	EP		0559	36.92	-0.00						1.0
PDG	HN	128	316	ES		0559	55.02	0.09						1.0
PDG	HZ	128	316	IAML		0559	59.53			50	0.4			
GMRK	HZ	137	31	EP		0559	38.35	-0.07						1.0
GMRK	HZ	137	31	IAML		0600	03.11			33	0.8			
ME01AHZ		142	344	EP		0559	39.18	-0.19						1.0
ME01AHZ		142	344	IAML		0600	08.19			65	0.4			
NEST	HZ	145	156	EP		0559	39.80	-0.07						1.0
NEST	HN	145	156	ES		0559	59.77	-0.50						1.0
NEST	HZ	145	156	IAML		0600	02.30			41	0.5			
TPE	HZ	149	191	EP		0559	40.72	0.29						1.0
TPE	HZ	149	191	IAML		0600	10.45			58	0.6			
LSK	HZ	164	173	EP		0559	43.63	0.70						0.9
LSK	HZ	164	173	IAML		0600	14.29			28	0.9			
PENT	HZ	171	157	EP		0559	44.16	0.06						0.9
NKME	HZ	173	318	EP		0559	44.42	0.03						0.9
NKME	HZ	173	318	IAML		0600	11.97			35	0.6			
AL06AHZ		176	197	EP		0559	45.47	0.56						0.9
BARS	BZ	180	42	EP		0559	45.57	0.13						0.9
SJES	BZ	186	350	EP		0559	46.21	-0.04						0.9
KZN	HZ	188	140	EP		0559	46.57	0.10						0.9

December 28 2024 Hour: 18:14 9.9 Lat: 39.18N Lon: 20.66E D: 11.1 Ag: TIR Local
Magnitudes: 2.5ML TIR 2.9MW TIR Rms: 0.3 secs
66 km SE of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
LKD2	HZ	44	180	EP		1814	17.58	-0.32							1.0
LKD2	HN	44	180	ES		1814	24.52	0.10							1.0
JAN	HE	55	18	ES		1814	27.74	-0.07							1.0
KEK	HZ	94	309	EP		1814	26.58	0.28							1.0
KEK	HZ	94	309	IAML		1814	43.58			82	0.6				
SRN	HZ	96	324	EP		1814	26.85	0.34							1.0
SRN	HZ	96	324	IAML		1814	44.56			25	0.8				
LSK	HZ	107	357	EP		1814	28.52	0.00							1.0
LSK	HZ	107	357	IAML		1814	48.12			51	0.7				
VLS	HZ	112	183	EP		1814	29.13	-0.11							1.0
PENT	HZ	120	20	EP		1814	30.19	-0.40							1.0
THL	HZ	124	70	EP		1814	31.16	-0.15							1.0
AL06AHZ		127	323	EP		1814	31.49	-0.19							1.0
AL06AHN		127	323	ES		1814	48.57	-0.78							1.0
AL06AHZ		127	323	IAML		1814	51.45			54	1.1				
TPE	HZ	135	336	EP		1814	33.35	0.27							1.0
PLSA	EZ	140	321	EP		1814	34.23	0.23							1.0
PLSA	EZ	140	321	IAML		1814	55.03			23	0.2				
NEST	HZ	141	14	EP		1814	34.48	0.39							1.0
NEST	HZ	141	14	IAML		1814	59.85			32	0.7				
KZN	HZ	157	37	EP		1814	36.81	0.01							1.0
MOGL	EZ	170	352	EP		1814	39.22	0.22							0.9
AL05AHZ		170	352	EP		1814	39.06	0.06							0.9
BERA	HZ	180	340	EP		1814	40.31	0.14							0.9

December 31 2024 Hour: 6:42 43.6 Lat: 38.81N Lon: 21.26E D: 11.6 Ag: TIR Local
Magnitudes: 2.5ML TIR 3.3MW TIR Rms: 0.4 secs
132 km SE of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
LKD2	HZ	53	267	EP		0642	52.98	-0.16							1.0
LKD2	HE	53	267	ES		0643	00.68	-0.19							1.0
VLS	HZ	92	220	EP		0642	59.54	-0.11							1.0
VLS	HN	92	220	ES		0643	12.74	0.08							1.0
JAN	HN	100	339	ES		0643	15.35	0.19							1.0
THL	HZ	106	38	EP		0643	01.91	0.01							1.0
THL	HE	106	38	ES		0643	16.35	-0.38							1.0
PENT	HZ	154	356	EP		0643	09.90	-0.11							1.0
LSK	HZ	159	339	EP		0643	10.62	-0.25							0.9
LSK	HN	159	339	ES		0643	33.66	0.70							0.9
LSK	HZ	159	339	IAML		0643	38.02			53	0.6				
SRN	HZ	161	318	EP		0643	11.77	0.65							0.9
SRN	HZ	161	318	IAML		0643	45.91			13	1.2				
KEK	HZ	161	309	EP		0643	11.77	0.59							0.9
KEK	HE	161	309	ES		0643	32.61	-0.92							0.9
KEK	HZ	161	309	IAML		0643	41.34			21	0.4				
KZN	HZ	171	15	EP		0643	12.60	-0.24							0.9
NEST	HZ	179	354	EP		0643	13.43	-0.37							0.9
NEST	HZ	179	354	IAML		0643	51.82			23	0.5				
ITM	HZ	190	162	EP		0643	15.52	0.29							0.9
AL06A	HZ	192	318	EP		0643	14.94	-0.46							0.9
TPE	HZ	196	327	EP		0643	16.28	0.31							0.9
TPE	HZ	196	327	IAML		0643	50.47			26	1.1				
PLSA	EZ	206	317	EP		0643	17.34	0.11							0.9
PLSA	EZ	206	317	IAML		0643	50.79			12	0.4				
AL05A	HZ	223	341	EP		0643	19.45	0.04							0.9
AL05A	HZ	223	341	IAML		0644	19.58			14	1.8				
MOGL	EZ	223	341	EP		0643	19.76	0.35							0.9

December 31 2024 Hour: 23:15 24.8 Lat: 42.11N Lon: 20.58E D: 3.6 Ag: TIR Local
Magnitudes: 3.1ML TIR 3.4MW TIR Rms: 0.5 secs
14 km E of Kukes

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KKS	HZ	16	253	EP	D	2315	28.63	0.96							1.0
KKS	HE	16	253	ES		2315	30.47	0.43							1.0
KKS	HZ	16	253	IAML		2315	31.27			5120	0.4				
PHP	HZ	49	194	EP	C	2315	33.49	-0.08							1.0
PHP	HN	49	194	ES		2315	39.87	-0.85							1.0
PHP	HZ	49	194	IAML		2315	40.26			1228	0.6				
BCI	HZ	51	303	EP	C	2315	34.26	0.36							1.0
BCI	HE	51	303	ES		2315	40.66	-0.65							1.0
BCI	HZ	51	303	IAML		2315	50.30			2025	0.8				
PUK	HZ	58	262	EP	C	2315	35.13	0.02							1.0
PUK	HN	58	262	ES		2315	44.19	0.69							1.0
PUK	HZ	58	262	IAML		2315	47.62			465	0.5				
PEJK	HZ	64	337	EP	C	2315	36.29	0.11							1.0
PEJK	HN	64	337	ES		2315	45.72	0.28							1.0
PEJK	HZ	64	337	IAML		2315	52.56			491	0.4				
PVY	HZ	74	316	EP	C	2315	37.63	-0.40							1.0
PVY	HN	74	316	ES		2315	48.10	-0.69							1.0
PVY	HZ	74	316	IAML		2315	54.50			600	0.3				
BURR	EZ	75	220	EP	C	2315	37.80	-0.29							1.0
BURR	EZ	75	220	IAML		2315	54.86			191	0.6				
AL03A	HZ	75	220	EP	C	2315	37.99	-0.11							1.0
AL03A	HN	75	220	ES		2315	48.64	-0.28							1.0
AL03A	HZ	75	220	IAML		2315	54.86			326	0.6				
GMRK	HZ	80	41	EP	C	2315	40.08	1.03							1.0
GMRK	HN	80	41	ES		2315	50.10	-0.53							1.0
GMRK	HZ	80	41	IAML		2315	57.19			503	0.4				

```
FUST EZ   89 190 EP       2315 40.03-0.65                          1.0
FUST EZ   89 190  IAML    2315 59.67           76  0.4
AL01AHZ   89 287 EP     C 2315 40.32-0.41                          1.0
AL01AHZ   89 287  IAML    2315 57.34          315  0.4
LACI HZ   89 234 EP       2315 41.20 0.47                          1.0
LACI HZ   89 234  IAML    2315 59.58          171  0.9
SDA  HZ   90 266 EP       2315 41.29 0.44                          1.0
SDA  HZ   90 266  IAML    2316 04.24          142  0.3
ME01AHZ  100 325 EP       2315 42.36-0.23                          1.0
ME01AHZ  100 325  IAML    2316 04.03          648  0.4
TIR  HZ  104 215 EP       2315 43.55 0.26                          1.0
TIR  HZ  104 215  IAML    2316 10.88           74  0.8
PDG  HZ  115 288 EP       2315 44.55-0.50                          1.0
PDG  HZ  115 288  IAML    2316 10.37          115  0.4
DRSH EZ  128 224  IAML    2316 21.28          116  0.6
BARS BZ  128  52 EP       2315 47.78 0.53                          1.0
BARS BZ  128  52  IAML    2316 11.25           97  0.4
AL07AHZ  135 177 EP       2315 49.26 0.76                          1.0
AL07AHZ  135 177  IAML    2316 19.43          844  0.7
SJES BZ  137 339 EP       2315 48.86 0.03                          1.0
BELS EZ  139 204 EP       2315 48.67-0.42                          1.0
BELS EZ  139 204  IAML    2316 13.18           85  0.8
NKME HZ  153 299 EP       2315 50.45-0.95                          1.0
NKME HZ  153 299  IAML    2316 18.26          309  0.3
MOGL EZ  157 186 EP       2315 52.17-0.01                          1.0
MOGL EZ  157 186  IAML    2316 19.16           91  0.7
AL05AHZ  157 186 EP       2315 52.05-0.13                          1.0
AL05AHZ  157 186  IAML    2316 18.88          160  0.5
BOSS SZ  160  74 EP     D 2315 52.76 0.04                          0.9
BERA HZ  165 199 EP       2315 52.92-0.54                          0.9
BERA HZ  165 199  IAML    2316 18.95          179  0.4
KBN  HZ  166 174 EP       2315 54.16 0.44                          0.9
KBN  HZ  166 174  IAML    2316 17.30           77  0.5
ME02AHZ  167 314 EP       2315 53.68-0.12                          0.9
ME02AHZ  167 314  IAML    2316 23.21          100  0.7
ME03AHZ  170 324 EP       2315 54.89 0.55                          0.9
ME05AHZ  175 283 EP       2315 55.53 0.36                          0.9
ME05AHZ  175 283  IAML    2316 25.82          647  0.5
NEST HZ  193 168 EP       2315 57.69-0.05                          0.9
NEST HZ  193 168  IAML    2316 26.30          121  0.4
TPE  HZ  208 193 EP       2315 60.00 0.45                          0.9
TPE  HZ  208 193  IAML    2316 37.42           90  1.3
PENT HZ  218 168 EP       2316 01.10 0.11                          0.9
LSK  HZ  218 180 EP       2316 01.30 0.31                          0.9
LSK  HZ  218 180  IAML    2316 41.05          116  0.7
KZN  HZ  224 153 EP       2316 01.30-0.43                          0.9
AL06AHZ  235 197 EP       2316 03.51 0.41                          0.9
AL06AHZ  235 197  IAML    2316 44.77           39  0.8
SRN  HZ  253 191 EP       2316 05.82 0.49                          0.9
SRN  HZ  253 191  IAML    2316 49.08           35  1.1
KEK  HZ  275 194 EP       2316 08.35 0.19                          0.8
KEK  HZ  275 194  IAML    2316 53.69           42  1.0
NVR  HZ  286 106 EP       2316 09.14-0.48                          0.8
PLG  HZ  308 128 EP       2316 11.75-0.70                          0.8
THL  HZ  308 156 EP       2316 12.05-0.31                          0.8
```