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# Monthly Bulletin of Seismology

from the

## Albanian Seismic Network (ASN)

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## 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  $M_l$ , based on the Richter formula (Hutton & Boore, 1987), corrected referred to EMSC:

$$M_l = 1.0 \cdot \log(A) + 1.11 \cdot \log(D) + 0.00189 \cdot D - 1.686$$

where,  $D$  is the hypocentral distance (km).

All available amplitude values are used for the magnitude assessment. No station corrections are used for either travel times or magnitude. The  $V_p/V_s$  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.

#### 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	40.7100N	19.9500E	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

#### REGIONAL STATIONS

THE	40.6319N	22.9628E	132	Thessaloniki, Greece
NEST	40.4147N	21.0489E	1056	Nestorio, Greece
FNA	40.7817N	21.3836E	806	Florina, Greece
IGT	39.5315N	20.3299E	262	Igoumenitsa, Greece
LKD2	38.7889N	20.6578E	485	Lefkada, Greece
PDG	42.4297N	19.2608E	40	Podgorica, Montenegro

#### 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 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 ( $0.5 * (\text{peak to peak})$ ), (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:

- Ottmoller, 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>.

**November 1 2022 Hour: 2:23.3 Lat: 39.97N Lon: 19.71E D: 13.4 Ag: TIR Local**  
**Magnitudes: 2.7ML TIR 3.1MW TIR Rms: 0.6 secs**  
**14 km S of Himare**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SRN	HZ	27	113	EP		0202	4.026	-0.57							1.0
SRN	HN	27	113	ES		0202	8.475	-0.42							1.0
SRN	HZ	27	113	IAML		0202	0.460			501	0.4				
KEK	HZ	30	165	EP		0202	5.566	0.48							1.0
KEK	HN	30	165	ES		0202	0.277	0.50							1.0
KEK	HZ	30	165	IAML		0202	6.106			515	0.4				
VLO	HZ	58	342	EP		0202	9.356	-0.31							1.0
VLO	HE	58	342	ES		0202	8.782	0.71							1.0
VLO	HZ	58	342	IAML		0203	3.874			324	0.3				
IGT	HZ	73	132	EP		0202	2.166	0.06							1.0
IGT	HN	73	132	ES		0203	2.803	0.32							1.0
IGT	HZ	73	132	IAML		0203	2.546			105	0.3				
LSK	HZ	78	75	EP		0202	2.199	-0.93							1.0
LSK	HE	78	75	ES		0203	5.011	0.67							1.0
LSK	HZ	78	75	IAML		0203	3.043			116	0.5				
BERA	HZ	84	14	EP		0202	2.707	-1.22							1.0
BERA	HN	84	14	ES		0203	6.327	0.55							1.0
BERA	HZ	84	14	IAML		0203	9.524			165	0.8				
JAN	HZ	104	109	EP		0202	7.589	0.24							1.0
JAN	HN	104	109	ES		0203	1.979	0.00							1.0
SCTE	HZ	107	276	EP		0202	7.585	-0.19							1.0
SCTE	HN	107	276	ES		0203	2.712	-0.03							1.0
KBN	HZ	117	51	EP		0202	8.588	-0.91							1.0
KBN	HN	117	51	ES		0203	6.290	0.42							1.0
KBN	HZ	117	51	IAML		0203	3.002			56	1.1				
PENT	HZ	124	78	EP		0203	0.441	-0.35							1.0
PENT	HN	124	78	ES		0203	8.694	0.48							1.0
NEST	HZ	124	66	EP		0203	0.664	-0.09							1.0
NEST	HN	124	66	ES		0203	8.630	0.48							1.0
NEST	HZ	124	66	IAML		0203	5.964			91	0.7				
TIR	HZ	153	5	EP		0203	5.824	0.29							1.0
TIR	HE	153	5	ES		0203	7.261	0.46							1.0
TIR	HZ	153	5	IAML		0203	6.001			17	1.0				
LKD2	HZ	155	148	EP		0203	6.042	0.21							1.0
LKD2	HN	155	148	ES		0203	7.651	0.32							1.0
KZN	HZ	180	77	EP		0203	9.991	0.60							0.9
KZN	HN	180	77	ES		0203	3.122	-0.65							0.9
PHP	HZ	200	18	EP		0203	1.401	-0.55							0.9
PHP	HN	200	18	ES		0203	8.254	-0.16							0.9
PHP	HZ	200	18	IAML		0203	3.056			38	1.0				
THL	HZ	203	102	EP		0203	2.723	0.47							0.9
THL	HN	203	102	ES		0203	9.070	0.12							0.9
VLS	HZ	213	159	EP		0203	3.068	-0.60							0.9
PUK	HZ	230	4	EP		0203	4.137	-1.76							0.9
PUK	HE	230	4	ES		0203	6.003	0.45							0.9
PUK	HZ	230	4	IAML		0203	1.627			10	0.4				
SDA	HZ	231	356	EP		0203	4.401	-1.51							0.9
SDA	HN	231	356	ES		0203	5.848	0.27							0.9
SDA	HZ	231	356	IAML		0204	0.132			10	0.6				
NOCI	HZ	242	293	EP		0203	8.016	0.66							0.9
NOCI	HN	242	293	ES		0203	9.001	0.81							0.9
BCI	HZ	267	6	EP		0203	9.372	-1.24							0.9
BCI	HN	267	6	ES		0203	4.920	0.83							0.9
BCI	HZ	267	6	IAML		0204	3.221			22	0.7				
PDG	HZ	275	352	EP		0203	1.945	0.38							0.8
PDG	HN	275	352	ES		0203	6.284	0.47							0.8
PDG	HZ	275	352	IAML		0204	5.075			10	0.7				
MRVN	HZ	321	293	EP		0203	7.738	0.21							0.8

November 1 2022 Hour: 2:22 37.3 Lat: 39.61N Lon: 20.53E D: 18.5 Ag: TIR Local  
 Magnitudes: 2.2ML TIR 2.8MW TIR Rms: 0.4 secs  
 30 km E of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
IGT	HZ	19	243	EP		0222	1.640	-0.30							1.0
IGT	HZ	19	243	ES		0222	4.966	-0.74							1.0
IGT	HZ	19	243	IAML		0222	6.052			429	0.2				
IGT	HZ	19	243	IAML		0222	6.218			481	0.1				
JAN	HZ	28	80	EP		0222	3.221	0.02							1.0
JAN	HN	28	80	ES		0222	8.000	0.02							1.0
SRN	HZ	54	304	EP		0222	7.224	0.02							1.0
SRN	HN	54	304	ES		0222	5.515	0.29							1.0
SRN	HZ	54	304	IAML		0222	7.516			55	0.6				
LSK	HZ	60	6	EP		0222	8.195	-0.04							1.0
LSK	HN	60	6	ES		0222	7.813	0.72							1.0
LSK	HZ	60	6	IAML		0223	1.821			78	0.5				
KEK	HZ	64	280	EP		0222	8.582	-0.17							1.0
KEK	HN	64	280	ES		0222	7.973	-0.07							1.0
KEK	HZ	64	280	IAML		0223	2.807			125	0.6				
PENT	HZ	83	39	EP		0222	1.880	-0.16							1.0
PENT	HN	83	39	ES		0223	3.843	-0.15							1.0
LKD2	HZ	92	173	EP		0222	3.061	-0.37							1.0
LKD2	HN	92	173	ES		0223	7.919	1.42							1.0
NEST	HZ	100	26	EP		0222	4.713	-0.04							1.0
NEST	HN	100	26	ES		0223	8.703	-0.19							1.0
NEST	HZ	100	26	IAML		0223	6.820			23	0.6				
KBN	HZ	115	11	EP		0222	6.820	-0.39							1.0
KBN	HN	115	11	ES		0223	3.641	0.30							1.0
KBN	HZ	115	11	IAML		0223	9.306			14	1.0				
THL	HZ	128	92	EP		0222	9.346	0.05							1.0
THL	HN	128	92	ES		0223	7.185	0.06							1.0
BERA	HN	131	338	ES		0223	8.530	0.51							1.0
KZN	HZ	131	54	EP		0222	9.949	0.02							1.0
KZN	HN	131	54	ES		0223	8.120	-0.14							1.0
BERA	HZ	131	338	EP		0222	9.818	0.02							1.0
BERA	HZ	131	338	IAML		0223	4.435			23	0.4				
VLS	HZ	159	178	EP		0223	3.663	-0.52							0.9
VLS	HN	159	178	ES		0223	6.207	0.24							0.9
SCTE	HZ	184	287	EP		0223	6.781	-0.51							0.9
PHP	HZ	230	358	EP		0223	4.046	0.70							0.9
PHP	HN	230	358	ES		0223	2.486	-0.06							0.9
PHP	HZ	230	358	IAML		0223	0.980			5	1.8				
PLG	HZ	263	70	EP		0223	7.924	0.41							0.9
PLG	HN	263	70	ES		0223	8.931	-1.16							0.9
PUK	HZ	275	349	EP		0223	9.353	0.22							0.8
PUK	HN	275	349	ES		0223	2.902	-0.12							0.8
PUK	HZ	275	349	IAML		0224	3.102			2	0.6				

November 1 2022 Hour: 19:40 44.9 Lat: 39.98N Lon: 19.71E D: 11.1 Ag: TIR Local  
 Magnitudes: 2.6ML TIR 3.1MW TIR Rms: 0.6 secs  
 13 km S of Himare

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SRN	HZ	28	114	EP		1940	9.748	-0.40							1.0
SRN	HN	28	114	ES		1940	4.152	-0.28							1.0
SRN	HZ	28	114	IAML		1940	6.135			273	0.4				
KEK	HZ	31	165	EP		1940	1.351	0.64							1.0
KEK	HE	31	165	ES		1940	6.154	0.70							1.0
KEK	HZ	31	165	IAML		1941	2.007			429	0.3				
VLO	HZ	57	342	EP		1940	5.410	0.34							1.0
VLO	HE	57	342	ES		1941	3.861	0.51							1.0
VLO	HZ	57	342	IAML		1941	5.708			183	0.3				
IGT	HZ	73	133	EP		1940	7.860	0.08							1.0
IGT	HE	73	133	ES		1941	8.499	0.25							1.0

IGT	HZ	73	133	IAML	1941	5.300			80	0.3				
LSK	HZ	78	76	EP	1940	8.420-0.26								1.0
LSK	HE	78	76	ES	1941	8.970-0.91								1.0
LSK	HZ	78	76	IAML	1941	2.617			60	0.5				
BERA	HZ	83	14	EP	1940	8.614-0.74								1.0
BERA	HN	83	14	ES	1941	1.583 0.49								1.0
BERA	HZ	83	14	IAML	1941	5.301			103	0.7				
JAN	HZ	104	110	EP	1941	3.100 0.11								1.0
JAN	HN	104	110	ES	1941	8.446 0.77								1.0
SCTE	HZ	106	276	EP	1941	3.469 0.19								1.0
SCTE	HE	106	276	ES	1941	8.108-0.10								1.0
KBN	HZ	116	52	EP	1941	4.869-0.13								1.0
KBN	HZ	116	52	IAML	1941	8.807			35	0.9				
PENT	HZ	124	78	EP	1941	6.284-0.08								1.0
NEST	HZ	124	67	EP	1941	6.059-0.23								1.0
NEST	HZ	124	67	IAML	1941	0.901			50	0.3				
TIR	HZ	152	5	EP	1941	0.553-0.41								1.0
LKD2	HZ	156	148	EP	1941	1.944 0.41								1.0
LKD2	HN	156	148	ES	1941	2.298-0.84								1.0
KZN	HZ	180	78	EP	1941	6.307 1.10								0.9
PHP	HZ	199	18	EP	1941	7.771 0.10								0.9
PHP	HN	199	18	ES	1941	4.436 0.17								0.9
PHP	HZ	199	18	IAML	1941	8.762			27	1.0				
THL	HZ	203	102	EP	1941	9.009 0.90								0.9
THL	HN	203	102	ES	1941	5.181 0.13								0.9
VLS	HZ	214	159	EP	1941	8.672-0.93								0.9
PUK	HZ	229	4	EP	1941	0.469-1.14								0.9
PUK	HE	229	4	ES	1941	1.715 0.34								0.9
PUK	HZ	229	4	IAML	1942	3.711			8	0.8				
SDA	HZ	230	356	EP	1941	2.581 0.96								0.9
NOCI	HZ	242	293	EP	1941	3.136 0.03								0.9
BCI	HZ	267	6	EP	1941	5.910-0.41								0.9
BCI	HZ	267	6	IAML A	1942	1.374			17	0.7				
TIP	HZ	268	252	EP	1941	5.129-1.46								0.9
PLG	HZ	321	81	EP	1941	2.641-0.69								0.8
BOSS	SZ	363	39	EP	1941	8.955 0.31								0.8

November 1 2022 Hour: 20:149.9 Lat: 39.40N Lon: 20.53E D: 18.1 Ag: TIR Local  
Magnitudes: 2.6ML TIR 3.1MW TIR Rms: 0.7 secs

40 km SE of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
IGT	HZ	22	311	EP		2001	4.678-0.22								1.0
IGT	HN	22	311	ES		2001	7.983-0.96								1.0
IGT	HZ	22	311	IAML A		2001	8.508		1184	0.2					
JAN	HZ	40	45	EP		2001	7.766 0.25								1.0
JAN	HN	40	45	ES		2002	3.631-0.05								1.0
LKD2	HZ	69	170	EP		2002	2.404 0.14								1.0
LKD2	HN	69	170	ES		2002	2.970 0.69								1.0
SRN	HZ	70	320	EP		2002	2.156-0.15								1.0
SRN	HN	70	320	ES		2002	1.816-0.53								1.0
SRN	HZ	70	320	IAML		2002	5.024		85	0.3					
KEK	HZ	71	299	EP		2002	2.506-0.11								1.0
KEK	HN	71	299	ES		2002	3.350 0.43								1.0
KEK	HZ	71	299	IAML		2002	7.077		347	0.5					
LSK	HZ	83	4	EP		2002	5.578 0.96								1.0
LSK	HE	83	4	ES		2002	7.180 0.65								1.0
LSK	HZ	83	4	IAML		2002	2.257		98	1.2					
PENT	HZ	102	31	EP		2002	8.032 0.21								1.0
PENT	HE	102	31	ES		2002	2.007-0.33								1.0
NEST	HZ	121	22	EP		2002	1.080 0.20								1.0
NEST	HN	121	22	ES		2002	6.637-1.23								1.0
NEST	HZ	121	22	IAML		2002	3.071		84	0.6					
THL	HZ	129	82	EP		2002	2.188 0.01								1.0
THL	HE	129	82	ES		2002	9.210-1.01								1.0

VLS	HZ	136	178	EP	2002	3.404	0.12										1.0
VLS	HE	136	178	ES	2002	1.956	-0.27										1.0
KBN	HZ	137	9	EP	2002	4.793	1.28										1.0
KBN	HE	137	9	ES	2002	2.693	0.07										1.0
KBN	HZ	137	9	IAML	2002	8.241				38	0.8						
KZN	HZ	146	46	EP	2002	4.904	-0.03										1.0
VLO	HZ	148	324	EP	2002	6.617	1.57										1.0
BERA	HZ	152	341	EP	2002	5.876	0.05										1.0
BERA	HN	152	341	ES	2002	7.072	0.25										1.0
BERA	HZ	152	341	IAML	2002	0.869				36	0.5						
SCTE	HZ	191	293	EP	2002	0.137	-0.80										0.9
SCTE	HN	191	293	ES	2002	5.940	-0.14										0.9
PHP	HZ	253	358	EP	2002	9.342	0.38										0.9
PHP	HZ	253	358	IAML	2003	4.352				4	0.9						
PLG	HZ	272	66	EP	2002	1.156	-0.15										0.9
PUK	HZ	298	350	EP	2002	4.782	0.09										0.8
PUK	HZ	298	350	IAML	2003	6.990				4	0.6						
TIP	HZ	326	267	EP	2002	6.456	-1.81										0.8
NOCI	HZ	333	299	EP	2002	8.893	-0.21										0.8

November 2 2022 Hour: 9:45 48.7 Lat: 38.76N Lon: 20.55E D: 4.3 Ag: TIR Local  
Magnitudes: 2.0ML TIR Rms: 0.5 secs

104 km S of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
LKD2	HZ	10	71	EP		0945	0.660	-0.04							1.0
LKD2	HN	10	71	ES		0945	2.003	-0.32							1.0
VLS	HZ	65	177	EP		0945	9.520	-0.76							1.0
VLS	HN	65	177	ES		0946	0.132	0.46							1.0
IGT	HZ	88	348	EP		0946	3.914	-0.48							1.0
IGT	HN	88	348	ES		0946	7.437	0.33							1.0
IGT	HZ	88	348	IAML		0946	0.606			14	0.7				
JAN	HZ	103	15	EP		0946	7.431	0.40							1.0
JAN	HN	103	15	ES		0946	1.478	-0.40							1.0
KEK	HZ	124	329	EP		0946	0.427	-0.08							1.0
KEK	HN	124	329	ES		0946	8.409	0.22							1.0
KEK	HZ	124	329	IAML		0946	9.899			21	0.4				
SRN	HZ	133	339	EP		0946	2.007	0.01							1.0
SRN	HN	133	339	ES		0946	0.744	-0.13							1.0
SRN	HZ	133	339	IAML		0946	6.220			6	0.4				
LSK	HZ	154	2	EP		0946	6.516	0.89							1.0
LSK	HN	154	2	ES		0946	7.334	-0.11							1.0
LSK	HZ	154	2	IAML		0946	8.923			9	0.6				
THL	HZ	155	54	EP		0946	6.565	0.87							1.0
THL	HN	155	54	ES		0946	7.751	0.19							1.0
NEST	HZ	189	13	EP		0946	0.365	-0.72							0.9
NEST	HN	189	13	ES		0946	6.997	-0.33							0.9
NEST	HZ	189	13	IAML		0946	0.654			6	0.4				

November 4 2022 Hour: 22:43 2.0 Lat: 41.21N Lon: 20.50E D: 8.5 Ag: TIR Local  
Magnitudes: 3.1ML TIR 3.6MW TIR Rms: 0.7 secs

15 km E of Librazhd

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
PHP	HZ	53	355	EP	C	2243	1.843	0.24							1.0
PHP	HN	53	355	ES		2243	0.640	1.26							1.0
PHP	HZ	53	355	IAML		2243	4.628			272	0.2				
TIR	HZ	55	286	EP	C	2243	1.554	-0.41							1.0
TIR	HN	55	286	ES		2243	9.959	-0.08							1.0
TIR	HZ	55	286	IAML		2243	5.351			532	0.5				
KBN	HZ	70	159	EP	C	2243	4.284	-0.20							1.0
KBN	HN	70	159	ES		2243	4.750	0.15							1.0
KBN	HZ	70	159	IAML		2243	9.587			298	0.6				
BERA	HZ	73	220	EP		2243	4.056	-0.93							1.0
BERA	HE	73	220	ES		2243	3.830	-1.68							1.0
BERA	HZ	73	220	IAML		2243	8.397			278	0.3				



NEST	HZ	100	152	EP		2243	9.707	0.16									1.0
NEST	HN	100	152	ES		2243	3.605	-0.16									1.0
NEST	HZ	100	152	IAML		2243	7.028			591	0.4						
PUK	HZ	105	332	EP	D	2243	0.206	-0.27									1.0
PUK	HN	105	332	ES		2243	5.800	0.35									1.0
PUK	HZ	105	332	IAML		2243	8.901			125	0.6						
LSK	HZ	118	176	IAML		2243	2.829			243	0.8						
VLO	HZ	118	226	EP		2243	3.519	1.01									1.0
VLO	HN	118	226	ES		2243	0.242	1.11									1.0
VLO	HZ	118	226	IAML		2243	5.575			243	0.4						
LSK	HZ	118	176	EP		2243	2.237	-0.34									1.0
LSK	HN	118	176	ES		2243	9.343	0.10									1.0
PENT	HZ	125	154	EP		2243	4.265	0.52									1.0
SDA	HN	125	319	ES		2243	1.339	0.07									1.0
PENT	HN	125	154	ES		2243	1.339	-0.02									1.0
SDA	HZ	125	319	EP	D	2243	3.262	-0.43									1.0
SDA	HZ	125	319	IAML		2243	7.323			100	0.4						
BCI	HZ	133	345	EP	D	2243	4.975	-0.15									1.0
BCI	HN	133	345	ES		2243	4.266	0.40									1.0
BCI	HZ	133	345	IAML		2243	2.395			223	0.4						
KZN	HZ	147	133	EP		2243	7.439	0.03									1.0
KZN	HN	147	133	ES		2243	7.610	-0.40									1.0
SRN	HZ	153	196	EP		2243	9.110	0.67									1.0
SRN	HE	153	196	ES		2243	0.641	0.79									1.0
SRN	HZ	153	196	IAML		2244	0.392			94	0.6						
PDG	HZ	170	323	EP		2243	0.343	-0.86									0.9
PDG	HE	170	323	ES		2243	5.151	0.29									0.9
PDG	HZ	170	323	IAML		2243	9.594			133	0.4						
JAN	HZ	175	170	EP		2243	3.041	1.01									0.9
JAN	HN	175	170	ES		2243	7.085	0.73									0.9
KEK	HZ	176	200	EP		2243	1.910	-0.27									0.9
KEK	HN	176	200	ES		2243	7.035	0.41									0.9
KEK	HZ	176	200	IAML		2244	0.804			114	0.6						
IGT	HZ	187	184	EP		2243	4.150	0.65									0.9
IGT	HN	187	184	ES		2243	9.734	0.70									0.9
IGT	HZ	187	184	IAML		2244	6.708			96	0.9						
BARS	BZ	209	31	EP		2243	6.548	0.14									0.9
BARS	BN	209	31	ES		2244	3.959	-0.32									0.9
SCTE	HZ	213	234	EP		2243	7.453	0.59									0.9
BOSS	SZ	217	48	EP		2243	6.980	-0.46									0.9
THE	HZ	218	106	EP		2243	7.223	-0.20									0.9
THE	HZ	218	106	IAML		2244	5.002			22	0.6						
THL	HZ	223	144	EP		2243	7.771	-0.42									0.9
THL	HE	223	144	ES		2244	7.394	-0.11									0.9
SJES	BZ	232	349	EP		2243	9.337	-0.09									0.9
SJES	BN	232	349	ES		2244	0.096	0.34									0.9
SJES	BZ	232	349	IAML		2244	4.919			590	0.7						
PLG	HZ	265	110	EP		2243	3.299	-0.34									0.9
LKD2	HZ	269	177	EP		2243	3.954	-0.13									0.9
NVR	HZ	283	86	EP		2243	5.163	-0.67									0.8
NOCI	HZ	293	262	EP		2243	4.086	-3.00									0.8
VLS	HZ	337	179	EP		2243	1.822	-0.92									0.8

November 5 2022 Hour: 6: 7 11.9 Lat: 40.58N Lon: 20.81E D: 12.4 Ag: TIR Local  
Magnitudes: 2.0ML TIR 2.4MW TIR Rms: 0.6 secs  
4 km S of Korce

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KBN	HN	6	339	ES		0607	6.480	-0.10							1.0
NEST	HZ	27	131	EP		0607	7.767	0.50							1.0
NEST	HN	27	131	ES		0607	1.880	0.30							1.0
NEST	HZ	27	131	IAML		0607	2.751			195	0.2				
PENT	HZ	50	147	EP		0607	1.050	-0.09							1.0
PENT	HE	50	147	ES		0607	7.819	-0.76							1.0
LSK	HZ	51	201	EP		0607	1.158	0.00							1.0

LSK	HN	51	201	ES	0607	7.550-1.06									1.0
LSK	HZ	51	201	IAML	0607	0.774		49	0.3						
BERA	HZ	74	281	EP	0607	4.564-0.49									1.0
BERA	HN	74	281	ES	0607	5.125-0.54									1.0
BERA	HZ	74	281	IAML	0607	7.883		29	0.1						
KZN	HZ	87	110	EP	0607	7.537 0.38									1.0
KZN	HN	87	110	ES	0607	9.507 0.03									1.0
SRN	HZ	104	222	EP	0607	0.440 0.52									1.0
SRN	HE	104	222	ES	0607	4.398-0.08									1.0
IGT	HZ	123	200	EP	0607	3.353 0.21									1.0
IGT	HN	123	200	ES	0607	1.793 1.49									1.0
IGT	HZ	123	200	IAML	0607	6.456		21	0.7						
PHP	HZ	127	346	EP	0607	4.952 1.07									1.0
PHP	HN	127	346	ES	0607	0.707-0.94									1.0
PHP	HZ	127	346	IAML	0607	7.190		13	1.3						
THL	HZ	152	137	EP	0607	7.531-0.47									1.0
THL	HE	152	137	ES	0607	8.488-0.61									1.0
PUK	HZ	180	335	EP	0607	2.683 0.44									0.9
PUK	HN	180	335	ES	0608	6.949 0.16									0.9
PUK	HZ	180	335	IAML	0608	2.307		5	0.8						
PLG	HZ	224	95	EP	0607	7.515-0.34									0.9
KBN	HZ	6	339	EP	0607	4.872 0.36									1.0
KBN	HZ	6	339	IAML	0607	6.802		622	0.1						

November 5 2022 Hour: 6: 8 10.2 Lat: 40.55N Lon: 20.83E D: 10.8 Ag: TIR Local  
Magnitudes: 2.4ML TIR 2.6MW TIR Rms: 0.6 secs

8 km SE of Korce

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KBN	HZ	9	340	EP		0608	2.664-0.13								1.0
KBN	HN	9	340	ES		0608	4.461-0.46								1.0
KBN	HZ	9	340	IAML		0608	4.624		1014	0.2					
NEST	HZ	24	127	EP		0608	5.519 0.60								1.0
NEST	HN	24	127	ES		0608	9.592 0.81								1.0
NEST	HZ	24	127	IAML		0608	0.580		443	0.2					
PENT	HZ	47	145	EP		0608	7.912-0.89								1.0
PENT	HE	47	145	ES		0608	5.907 0.10								1.0
LSK	HZ	48	204	EP		0608	9.012 0.08								1.0
LSK	HN	48	204	ES		0608	5.672-0.38								1.0
LSK	HZ	48	204	IAML		0608	6.469		68	0.4					
BERA	HZ	76	284	EP		0608	3.866 0.30								1.0
BERA	HN	76	284	ES		0608	3.263-1.16								1.0
BERA	HZ	76	284	IAML		0608	4.608		44	0.3					
KZN	HZ	85	108	EP		0608	5.429 0.40								1.0
KZN	HN	85	108	ES		0608	7.378 0.30								1.0
JAN	HZ	99	179	EP		0608	6.608-0.76								1.0
JAN	HE	99	179	ES		0608	1.060-0.26								1.0
SRN	HZ	102	224	EP		0608	8.516 0.65								1.0
SRN	HE	102	224	ES		0608	2.756 0.54								1.0
SRN	HZ	102	224	IAML		0608	2.059		45	1.6					
IGT	HZ	120	201	EP		0608	1.301 0.39								1.0
IGT	HN	120	201	ES		0608	8.304 0.57								1.0
IGT	HZ	120	201	IAML		0608	6.966		42	2.6					
KEK	HZ	127	224	EP		0608	2.223 0.12								1.0
PHP	HZ	131	346	EP		0608	2.481-0.19								1.0
PHP	HN	131	346	ES		0608	0.456-0.45								1.0
PHP	HZ	131	346	IAML		0608	3.990		10	0.6					
THL	HZ	149	137	EP		0608	4.967-0.73								1.0
THL	HN	149	137	ES		0608	5.235-1.15								1.0
PUK	HZ	184	335	EP		0608	1.788 0.72								0.9
PUK	HN	184	335	ES		0609	7.289 1.18								0.9
PUK	HZ	184	335	IAML		0609	4.940		8	1.3					
BCI	HZ	212	343	EP		0608	5.184 0.54								0.9
BCI	HN	212	343	ES		0609	2.291-0.28								0.9
BCI	HZ	212	343	IAML		0609	9.556		12	0.8					

PLG HZ 223 94 EP 0608 5.703-0.37

0.9

November 5 2022 Hour: 19:37 41.2 Lat: 40.11N Lon: 19.90E D: 16.8 Ag: TIR Local  
Magnitudes: 2.6ML TIR 3.1MW TIR Rms: 0.3 secs

12 km E of Himare

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SRN	HZ	27	161	EP		1937	6.535	-0.20							1.0
SRN	HE	27	161	ES		1937	1.330	0.09							1.0
SRN	HZ	27	161	IAML		1937	3.135			383	0.4				
KEK	HZ	45	191	EP		1937	9.514	-0.01							1.0
KEK	HE	45	191	ES		1937	6.318	0.03							1.0
KEK	HZ	45	191	IAML		1937	8.976			212	0.2				
VLO	HZ	52	320	EP		1937	1.158	0.45							1.0
VLO	HN	52	320	ES		1937	8.729	0.29							1.0
VLO	HZ	52	320	IAML		1938	3.777			261	0.3				
LSK	HZ	60	86	EP		1937	1.998	-0.06							1.0
LSK	HN	60	86	ES		1938	0.932	0.06							1.0
LSK	HZ	60	86	IAML		1938	3.661			178	0.6				
BERA	HZ	66	4	EP		1937	2.391	-0.56							1.0
BERA	HN	66	4	ES		1938	2.693	0.21							1.0
BERA	HZ	66	4	IAML		1938	3.505			212	0.5				
IGT	HZ	74	150	EP		1937	4.265	-0.08							1.0
IGT	HE	74	150	ES		1938	4.945	-0.07							1.0
IGT	HZ	74	150	IAML		1938	4.138			97	0.3				
KBN	HZ	95	53	EP		1937	7.652	-0.13							1.0
KBN	HN	95	53	ES		1938	0.950	-0.28							1.0
KBN	HZ	95	53	IAML		1938	3.731			47	0.7				
JAN	HZ	96	121	EP		1937	8.109	0.14							1.0
JAN	HN	96	121	ES		1938	1.425	-0.14							1.0
NEST	HZ	104	71	EP		1937	9.246	-0.04							1.0
NEST	HE	104	71	ES		1938	4.168	0.20							1.0
NEST	HZ	104	71	IAML		1938	8.735			81	0.4				
PENT	HZ	106	84	EP		1937	9.452	-0.27							1.0
PENT	HE	106	84	ES		1938	5.078	0.34							1.0
SCTE	HZ	122	268	EP		1938	1.956	-0.26							1.0
TIR	HZ	137	359	EP		1938	4.756	-0.05							1.0
TIR	HZ	137	359	IAML		1938	3.521			30	0.7				
KZN	HZ	161	82	EP		1938	8.963	0.40							0.9
LKD2	HZ	161	156	EP		1938	8.452	0.00							0.9
LKD2	HE	161	156	ES		1938	0.707	0.16							0.9
PHP	HZ	181	15	EP		1938	0.927	-0.12							0.9
PHP	HZ	181	15	IAML		1938	3.672			19	0.6				
THL	HZ	191	108	EP		1938	3.061	0.74							0.9
THL	HE	191	108	ES		1938	7.178	-0.36							0.9
PUK	HZ	215	360	EP		1938	4.994	-0.41							0.9
PUK	HZ	215	360	IAML		1938	7.691			9	0.5				
NOCI	HZ	252	288	EP		1938	0.034	-0.06							0.9

November 6 2022 Hour: 1:11 22.2 Lat: 39.36N Lon: 20.14E D: 10.0F Ag: TIR Local  
Magnitudes: 2.1ML TIR Rms: 0.4 secs

33 km S of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
IGT	HZ	25	41	EP		0111	6.163	-0.53							1.0
IGT	HN	25	41	ES		0111	9.720	-0.61							1.0
IGT	HZ	25	41	IAML		0111	0.261			41	0.2				
KEK	HZ	49	323	EP		0111	1.229	0.29							1.0
KEK	HN	49	323	ES		0111	8.247	0.24							1.0
KEK	HZ	49	323	IAML		0111	0.169			88					
SRN	HZ	59	348	EP		0111	2.303	-0.41							1.0
SRN	HN	59	348	ES		0111	0.793	-0.42							1.0
SRN	HZ	59	348	IAML		0111	2.410			34	2.5				
JAN	HZ	69	62	EP		0111	4.949	0.37							1.0
JAN	HN	69	62	ES		0111	4.822	0.23							1.0
LSK	HZ	96	24	EP		0111	9.243	-0.09							1.0

LSK	HN	96	24	ES	0111	3.827	0.63										1.0
LSK	HZ	96	24	IAML	0112	0.199			11	1.2							
NEST	HZ	140	33	EP	0111	6.830	-0.25										1.0
NEST	HN	140	33	ES	0112	7.556	0.34										1.0
NEST	HZ	140	33	IAML	0112	3.828			24	3.5							
BERA	HZ	150	354	EP	0111	8.836	0.24										1.0
BERA	HN	150	354	ES	0112	9.975	0.01										1.0
BERA	HZ	150	354	IAML	0112	6.292			22	3.5							

**November 6 2022 Hour: 13:34 59.8 Lat: 39.51N Lon: 20.46E D: 8.7 Ag: TIR Local**  
**Magnitudes: 2.6ML TIR 3.2MW TIR Rms: 0.3 secs**  
**29 km SE of Konispol**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
IGT	HZ	12	280	EP		1335	2.461	0.00							1.0
IGT	HE	12	280	ES		1335	4.529	-0.04							1.0
IGT	HZ	12	280	IAML		1335	5.284		4096	0.2					
JAN	HZ	37	64	EP		1335	6.708	0.08							1.0
JAN	HN	37	64	ES		1335	2.330	0.21							1.0
SRN	HZ	57	316	EP		1335	0.149	0.03							1.0
SRN	HN	57	316	ES		1335	8.388	-0.05							1.0
SRN	HZ	57	316	IAML		1335	4.787		78	0.3					
KEK	HZ	61	291	EP		1335	0.654	-0.25							1.0
KEK	HE	61	291	ES		1335	9.614	-0.24							1.0
KEK	HZ	61	291	IAML		1335	7.275		366	0.4					
LSK	HZ	72	9	EP		1335	2.371	-0.31							1.0
LSK	HN	72	9	ES		1335	3.344	0.27							1.0
LSK	HZ	72	9	IAML		1335	9.000		103	0.6					
LKD2	HZ	82	168	EP		1335	4.242	-0.19							1.0
LKD2	HN	82	168	ES		1335	6.652	0.40							1.0
PENT	HZ	95	37	EP		1335	6.716	0.08							1.0
PENT	HE	95	37	ES		1335	9.919	-0.31							1.0
NEST	HZ	112	26	EP		1335	9.264	-0.13							1.0
NEST	HN	112	26	ES		1335	4.903	-0.33							1.0
NEST	HZ	112	26	IAML		1335	2.557		73	0.5					
THL	HZ	133	87	EP		1335	3.226	0.29							1.0
THL	HN	133	87	ES		1335	1.204	-0.44							1.0
BERA	HZ	139	342	EP		1335	4.403	0.52							1.0
BERA	HN	139	342	ES		1335	3.735	0.38							1.0
BERA	HZ	139	342	IAML		1335	4.833		43	0.4					
KZN	HZ	142	51	EP		1335	4.632	0.17							1.0
KZN	HE	142	51	ES		1335	4.400	-0.00							1.0
VLS	HZ	149	176	EP		1335	5.650	0.13							1.0
VLS	HN	149	176	ES		1335	6.026	-0.29							1.0
PHP	HZ	241	360	EP		1335	8.613	0.27							0.9
PHP	HN	241	360	ES		1336	9.355	-0.18							0.9
PHP	HZ	241	360	IAML		1336	4.697		14	1.0					

**November 7 2022 Hour: 15:40 42.5 Lat: 38.91N Lon: 21.25E D: 16.6 Ag: TIR Local**  
**Magnitudes: 2.3ML TIR Rms: 0.3 secs**  
**123 km SE of Konispol**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
LKD2	HZ	53	255	EP		1540	2.465	0.21							1.0
LKD2	HN	53	255	ES		1541	0.528	0.41							1.0
JAN	HZ	89	337	EP		1540	8.109	-0.11							1.0
JAN	HE	89	337	ES		1541	0.528	-0.39							1.0
THL	HZ	98	42	EP		1541	0.023	0.42							1.0
THL	HN	98	42	ES		1541	3.219	-0.20							1.0
VLS	HZ	100	215	EP		1540	9.561	-0.41							1.0
VLS	HN	100	215	ES		1541	3.941	-0.15							1.0
IGT	HZ	105	311	EP		1541	0.941	0.17							1.0
IGT	HE	105	311	ES		1541	5.481	-0.06							1.0
IGT	HZ	105	311	IAML		1541	9.716		20	0.6					
PENT	HZ	143	356	EP		1541	7.338	0.26							1.0
PENT	HN	143	356	ES		1541	7.373	0.42							1.0

LSK	HZ	148	338	EP	1541	7.578	-0.36							1.0
LSK	HN	148	338	ES	1541	8.439	-0.08							1.0
LSK	HZ	148	338	IAML	1541	3.463		18	0.3					
SRN	HZ	152	315	EP	1541	8.583	0.13							1.0
SRN	HZ	152	315	IAML	1541	8.045		19	0.6					
KEK	HZ	153	306	EP	1541	8.921	0.22							1.0
KEK	HE	153	306	ES	1541	9.541	-0.35							1.0
KEK	HZ	153	306	IAML	1541	6.285		23	0.7					
KZN	HZ	161	16	EP	1541	9.462	-0.46							0.9
NEST	HZ	168	354	EP	1541	0.954	0.18							0.9
NEST	HE	168	354	ES	1541	3.817	0.16							0.9
NEST	HZ	168	354	IAML	1541	8.661		13	0.7					

November 8 2022 Hour: 3:34 45.6 Lat: 39.76N Lon: 20.70E D: 19.0 Ag: TIR Local  
Magnitudes: 2.6ML TIR 3.2MW TIR Rms: 0.6 secs  
45 km E of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
JAN	HZ	17	131	EP		0334	0.111	0.03							1.0
JAN	HN	17	131	ES		0334	3.627	-0.12							1.0
IGT	HZ	40	232	EP		0334	2.766	-0.54							1.0
IGT	HN	40	232	ES		0334	9.942	0.37							1.0
IGT	HZ	40	232	IAML		0335	2.741		608	0.3					
LSK	HZ	44	349	EP		0334	3.812	-0.16							1.0
LSK	HN	44	349	ES		0335	1.090	0.30							1.0
LSK	HZ	44	349	IAML		0335	4.678		524	0.6					
PENT	HZ	61	38	EP		0334	6.747	0.04							1.0
PENT	HE	61	38	ES		0335	5.714	-0.03							1.0
SRN	HZ	61	283	EP		0334	6.282	-0.36							1.0
SRN	HN	61	283	ES		0335	5.468	-0.15							1.0
SRN	HZ	61	283	IAML		0335	6.780		186	0.5					
KEK	HZ	77	267	EP		0334	8.549	-0.74							1.0
KEK	HN	77	267	ES		0335	0.275	-0.14							1.0
KEK	HZ	77	267	IAML		0335	2.010		254	0.8					
NEST	HZ	79	22	EP		0334	9.526	-0.02							1.0
NEST	HN	79	22	ES		0335	0.599	-0.28							1.0
NEST	HZ	79	22	IAML		0335	3.964		116	0.4					
KBN	HZ	96	4	EP		0335	2.023	-0.42							1.0
KBN	HE	96	4	ES		0335	6.244	0.12							1.0
KBN	HZ	96	4	IAML		0335	6.678		39	0.6					
LKD2	HZ	108	182	EP		0335	4.954	0.63							1.0
LKD2	HE	108	182	ES		0335	1.021	1.50							1.0
KZN	HZ	110	56	EP		0335	4.635	-0.05							1.0
KZN	HE	110	56	ES		0335	0.152	-0.03							1.0
THL	HZ	115	100	EP		0335	5.388	-0.08							1.0
THL	HN	115	100	ES		0335	0.912	-0.69							1.0
BERA	HZ	123	329	EP		0335	6.582	-0.16							1.0
BERA	HZ	123	329	IAML		0335	2.332		56	0.4					
VLO	HZ	129	308	EP		0335	8.624	0.83							1.0
VLS	HZ	176	183	EP		0335	4.413	-0.11							0.9
VLS	HN	176	183	ES		0335	6.952	-1.04							0.9
TIR	HZ	190	338	EP		0335	6.585	0.26							0.9
TIR	HZ	190	338	IAML		0335	9.231		14	0.7					
PHP	HZ	215	354	EP		0335	0.798	1.22							0.9
PHP	HZ	215	354	IAML		0335	6.387		17	0.8					
PLG	HZ	244	73	EP		0335	3.511	0.24							0.9
PUK	HZ	263	345	EP		0335	6.397	0.69							0.9
PUK	HZ	263	345	IAML		0336	8.308		8	0.7					
SDA	HZ	274	339	EP		0335	6.648	-0.39							0.8
SDA	HZ	274	339	IAML A		0336	1.526		13	1.7					
BCI	HZ	294	350	EP		0335	0.832	1.09							0.8
BCI	HZ	294	350	IAML		0336	0.731		11	0.7					
TIP	HZ	345	261	EP		0335	4.369	-1.92							0.8

November 8 2022 Hour: 10:17 9.6 Lat: 39.74N Lon: 20.72E D: 12.8 Ag: TIR Local  
 Magnitudes: 2.7ML TIR 3.3MW TIR Rms: 0.9 secs  
 46 km E of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
JAN	HZ	14	129	EP		1017	3.860	0.77							1.0
JAN	HN	14	129	ES		1017	7.302	1.40							1.0
IGT	HZ	41	236	EP		1017	6.641	-0.48							1.0
IGT	HN	41	236	ES		1017	3.868	0.68							1.0
IGT	HZ	41	236	IAML		1017	6.044			931	0.4				1.0
LSK	HZ	47	347	EP		1017	7.471	-0.73							1.0
LSK	HN	47	347	ES		1017	5.460	0.31							1.0
LSK	HZ	47	347	IAML		1017	8.379			885	0.8				1.0
PENT	HZ	62	35	EP		1017	0.461	-0.27							1.0
PENT	HE	62	35	ES		1017	9.118	-0.62							1.0
SRN	HZ	64	284	EP		1017	9.971	-0.97							1.0
SRN	HN	64	284	ES		1017	9.057	-1.06							1.0
SRN	HZ	64	284	IAML		1017	0.761			194	0.5				1.0
KEK	HZ	79	268	EP		1017	1.956	-1.58							1.0
KEK	HZ	79	268	IAML		1017	5.930			325	0.9				1.0
NEST	HZ	80	20	EP		1017	3.566	-0.17							1.0
NEST	HN	80	20	ES		1017	4.530	-0.65							1.0
NEST	HZ	80	20	IAML		1017	7.738			174	0.5				1.0
KBN	HZ	98	3	EP		1017	7.338	0.56							1.0
KBN	HE	98	3	ES		1017	1.245	0.57							1.0
KBN	HZ	98	3	IAML		1017	4.018			74	0.7				1.0
LKD2	HZ	106	183	EP		1017	8.475	0.51							1.0
LKD2	HN	106	183	ES		1017	3.613	0.79							1.0
KZN	HZ	110	55	EP		1017	7.610	-1.03							1.0
KZN	HE	110	55	ES		1017	3.962	-0.09							1.0
THL	HZ	113	99	EP		1017	8.820	-0.29							1.0
THL	HN	113	99	ES		1017	4.864	-0.04							1.0
BERA	HZ	126	329	EP		1017	2.011	0.75							1.0
BERA	HN	126	329	ES		1017	9.393	0.61							1.0
BERA	HZ	126	329	IAML		1017	6.365			71	0.9				1.0
VLS	HZ	174	184	EP		1017	7.871	-1.11							0.9
PHP	HZ	217	354	EP		1017	4.960	0.35							0.9
PHP	HN	217	354	ES		1018	4.122	1.17							0.9
PHP	HZ	217	354	IAML		1018	0.193			25	1.0				0.9
PLG	HZ	243	72	EP		1017	7.671	-0.18							0.9
PLG	HN	243	72	ES		1018	7.549	-1.28							0.9
PUK	HZ	265	345	EP		1017	0.240	-0.53							0.9
PUK	HN	265	345	ES		1018	7.357	3.26							0.9
PUK	HZ	265	345	IAML		1018	2.682			10	1.3				0.9
BCI	HZ	297	350	EP		1017	4.709	-0.08							0.8

November 11 2022 Hour: 0: 5 31.3 Lat: 38.84N Lon: 21.13E D: 20.8 Ag: TIR Local  
 Magnitudes: 2.1ML TIR 2.8MW TIR Rms: 0.5 secs  
 122 km SE of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
LKD2	HZ	42	262	EP		0005	9.091	-0.30							1.0
LKD2	HN	42	262	ES		0005	6.169	0.22							1.0
VLS	HZ	88	213	EP		0005	6.084	-0.68							1.0
VLS	HN	88	213	ES		0005	8.692	-0.60							1.0
JAN	HZ	94	345	EP		0005	7.540	-0.26							1.0
JAN	HE	94	345	ES		0006	1.719	0.55							1.0
IGT	HZ	103	318	EP		0005	9.280	-0.09							1.0
IGT	HN	103	318	ES		0006	4.786	0.78							1.0
IGT	HZ	103	318	IAML		0006	3.292			19	0.5				1.0
THL	HZ	111	43	EP		0005	0.393	-0.09							1.0
THL	HE	111	43	ES		0006	6.339	0.31							1.0
SRN	HZ	151	320	EP		0005	6.889	0.02							1.0
SRN	HN	151	320	ES		0006	7.471	-0.10							1.0
SRN	HZ	151	320	IAML		0006	3.024			11	1.1				1.0

KEK	HZ	151	310	EP	0005	6.845	0.06								1.0
KEK	HN	151	310	ES	0006	7.115	-0.31								1.0
KEK	HZ	151	310	IAML	0006	6.950			25	0.5					
LSK	HZ	152	343	EP	0005	7.484	0.34								1.0
LSK	HN	152	343	ES	0006	7.982	-0.10								1.0
LSK	HZ	152	343	IAML	0006	6.625			18	0.5					
NEST	HZ	175	358	EP	0006	0.257	0.22								0.9
NEST	HE	175	358	ES	0006	2.957	-0.37								0.9
NEST	HZ	175	358	IAML	0006	6.308			8	0.5					
ITM	HZ	197	159	EP	0006	3.927	1.12								0.9
ITM	HE	197	159	ES	0006	9.237	0.91								0.9
BERA	HZ	230	334	EP	0006	7.044	0.02								0.9
BERA	HN	230	334	ES	0006	5.793	-0.17								0.9
BERA	HZ	230	334	IAML	0006	6.885			6	1.4					
PLG	HZ	261	49	EP	0006	0.814	-0.25								0.9
PLG	HN	261	49	ES	0006	1.890	-1.39								0.9

**November 11 2022 Hour: 15:12 23.1 Lat: 42.46N Lon: 18.88E D: 11.0 Ag: TIR Local**  
**Magnitudes: 2.0ML TIR Rms: 0.5 secs**  
**53 km NW of Koplík**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
PDG	HZ	32	95	EP		1512	9.685	0.62							1.0
PDG	HN	32	95	ES		1512	3.768	-0.15							1.0
PDG	HZ	32	95	IAML		1512	4.632			273	0.2				
SDA	HZ	68	131	EP		1512	4.496	-0.66							1.0
SDA	HE	68	131	ES		1512	5.549	0.59							1.0
SDA	HZ	68	131	IAML		1512	7.068			23	1.0				
PUK	HZ	96	118	EP		1512	9.468	-0.28							1.0
PUK	HN	96	118	ES		1512	3.286	0.02							1.0
PUK	HZ	96	118	IAML		1512	9.534			19	0.3				
BCI	HZ	99	95	EP		1512	0.707	0.48							1.0
BCI	HN	99	95	ES		1512	3.573	-0.55							1.0
BCI	HZ	99	95	IAML		1512	6.604			32	0.3				
PHP	HZ	155	123	EP		1512	9.049	-0.62							1.0
PHP	HN	155	123	ES		1513	1.462	0.24							1.0
PHP	HZ	155	123	IAML		1513	7.719			9	0.5				
BARS	BZ	244	80	EP		1513	2.035	0.36							0.9

**November 12 2022 Hour: 5:34 9.3 Lat: 41.18N Lon: 20.41E D: 5.3 Ag: TIR Local**  
**Magnitudes: 2.5ML TIR 3.0MW TIR Rms: 0.3 secs**  
**7 km E of Librazhd**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TIR	HZ	49	292	EP		0534	8.329	0.18							1.0
TIR	HN	49	292	ES		0534	5.386	0.09							1.0
TIR	HZ	49	292	IAML		0534	8.616			174	0.3				
PHP	HZ	56	3	EP		0534	8.890	-0.47							1.0
PHP	HN	56	3	ES		0534	7.537	0.05							1.0
PHP	HZ	56	3	IAML		0534	9.689			78	0.2				
BERA	HZ	66	216	EP		0534	1.036	-0.08							1.0
BERA	HE	66	216	ES		0534	0.503	-0.16							1.0
BERA	HZ	66	216	IAML		0534	4.022			113	0.3				
KBN	HZ	70	153	EP		0534	2.279	0.44							1.0
KBN	HE	70	153	ES		0534	2.019	0.05							1.0
KBN	HZ	70	153	IAML		0534	5.835			47	0.6				
NEST	HZ	101	147	EP		0534	7.106	-0.18							1.0
NEST	HE	101	147	ES		0534	1.057	-0.78							1.0
NEST	HZ	101	147	IAML		0534	1.558			84	0.4				
PUK	HZ	105	336	EP		0534	8.014	0.10							1.0
PUK	HN	105	336	ES		0534	3.024	0.05							1.0
PUK	HZ	105	336	IAML		0534	5.823			40	0.3				
LSK	HZ	116	172	EP		0534	0.195	0.44							1.0
LSK	HN	116	172	ES		0534	6.586	0.29							1.0
LSK	HZ	116	172	IAML		0534	6.826			58	0.5				
SDA	HZ	123	322	EP		0534	0.734	-0.09							1.0

SDA	HN	123	322	ES	0534	8.315	0.08										1.0
SDA	HZ	123	322	IAML	0534	9.658			28	0.2							
PENT	HZ	126	150	EP	0534	1.921	0.50										1.0
BCI	HZ	135	348	EP	0534	2.430	-0.43										1.0
BCI	HZ	135	348	IAML	0534	8.898			50	0.5							
SRN	HZ	149	194	EP	0534	5.020	-0.16										1.0
SRN	HZ	149	194	IAML	0535	3.126			31	0.6							
KZN	HZ	151	130	EP	0534	5.771	0.21										1.0
PDG	HZ	168	326	EP	0534	8.190	-0.24										0.9
PDG	HN	168	326	ES	0535	2.124	0.12										0.9
PDG	HZ	168	326	IAML	0535	6.063			45	0.6							
KEK	HZ	171	198	EP	0534	8.509	-0.43										0.9
KEK	HZ	171	198	IAML	0535	4.304			32	0.6							
IGT	HZ	183	182	EP	0534	1.001	0.20										0.9
IGT	HZ	183	182	IAML	0535	1.664			26	0.9							
BARS	BZ	216	32	EP	0534	5.480	0.51										0.9
THL	HZ	226	142	EP	0534	5.914	-0.27										0.9

**November 12 2022 Hour: 20:10 12.9 Lat: 40.64N Lon: 21.21E D: 10.0F Ag: TIR Local**  
**Magnitudes: 2.0ML TIR Rms: 0.4 secs**  
**18 km E of Bilisht**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
NEST	HZ	28	208	EP		2010	7.792	-0.12							1.0
NEST	HN	28	208	ES		2010	2.182	0.18							1.0
NEST	HZ	28	208	IAML		2010	2.945			109	0.2				
KBN	HZ	36	267	EP		2010	9.107	-0.10							1.0
KBN	HN	36	267	ES		2010	4.152	-0.19							1.0
KBN	HZ	36	267	IAML		2010	4.313			31	0.2				
PENT	HZ	50	187	EP		2010	1.465	-0.24							1.0
PENT	HN	50	187	ES		2010	9.315	0.44							1.0
KZN	HZ	60	127	EP		2010	3.739	0.09							1.0
KZN	HN	60	127	ES		2010	2.294	-0.09							1.0
LSK	HZ	75	224	EP		2010	6.105	-0.13							1.0
LSK	HN	75	224	ES		2010	6.218	-0.86							1.0
LSK	HZ	75	224	IAML		2010	9.488			5	0.6				
SRN	HZ	133	231	EP		2010	7.043	0.64							1.0
SRN	HN	133	231	ES		2010	5.724	0.26							1.0
SRN	HZ	133	231	IAML		2011	2.035			19	1.7				
THL	HZ	138	150	EP		2010	6.839	-0.39							1.0
THL	HN	138	150	ES		2010	6.773	-0.19							1.0
IGT	HZ	144	212	EP		2010	9.129	0.89							1.0
IGT	HN	144	212	ES		2010	8.686	-0.11							1.0
IGT	HZ	144	212	IAML		2011	4.621			12	2.2				

**November 13 2022 Hour: 0:16 3.1 Lat: 41.62N Lon: 20.14E D: 13.1 Ag: TIR Local**  
**Magnitudes: 2.2ML TIR 2.5MW TIR Rms: 0.6 secs**  
**10 km E of Burrel**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
PHP	HZ	26	75	EP		0016	8.653	0.36							1.0
PHP	HN	26	75	ES		0016	2.784	0.28							1.0
PHP	HZ	26	75	IAML		0016	3.961			554	0.2				
TIR	HZ	38	217	EP		0016	0.092	-0.13							1.0
TIR	HE	38	217	ES		0016	6.450	0.46							1.0
TIR	HZ	38	217	IAML		0016	0.503			75	0.6				
PUK	HZ	51	336	EP		0016	2.587	0.24							1.0
PUK	HE	51	336	ES		0016	0.081	0.23							1.0
PUK	HZ	51	336	IAML		0016	2.349			49	0.3				
SDA	HZ	71	312	EP		0016	5.496	-0.17							1.0
SDA	HN	71	312	ES		0016	5.908	0.06							1.0
SDA	HZ	71	312	IAML		0016	7.259			56	0.3				
BCI	HZ	83	356	EP		0016	7.483	-0.15							1.0
BCI	HE	83	356	ES		0016	9.590	0.18							1.0
BCI	HZ	83	356	IAML		0016	5.128			35	0.3				
BERA	HZ	104	189	EP		0016	9.990	-1.07							1.0



BERA	HN	104	189	ES	0016	5.531-0.08									1.0
BERA	HZ	104	189	IAML	0016	0.925			23	0.3					
PDG	HZ	115	321	EP	0016	2.411-0.62									1.0
PDG	HN	115	321	ES	0016	9.322 0.14									1.0
PDG	HZ	115	321	IAML	0016	5.857			20	0.6					
KBN	HZ	124	154	EP	0016	4.225-0.24									1.0
KBN	HN	124	154	ES	0016	1.691-0.09									1.0
KBN	HZ	124	154	IAML	0016	5.916			20	1.6					
NEST	HZ	155	150	EP	0016	9.243-0.38									1.0
NEST	HN	155	150	ES	0016	1.073-0.04									1.0
NEST	HZ	155	150	IAML	0017	4.822			28	2.5					
LSK	HZ	168	167	EP	0016	2.423 0.64									0.9
LSK	HN	168	167	ES	0016	4.497-0.52									0.9
LSK	HZ	168	167	IAML	0017	6.495			28	2.2					
BARS	BZ	192	46	EP	0016	3.090-1.63									0.9
SRN	HZ	194	184	EP	0016	5.228 0.26									0.9
KZN	HZ	201	136	EP	0016	6.290 0.35									0.9
IGT	HZ	233	176	EP	0016	0.914 0.93									0.9
THL	HZ	278	145	EP	0016	7.191 1.40									0.8

November 13 2022 Hour: 3:33 58.1 Lat: 40.54N Lon: 21.32E D: 18.0 Ag: TIR Local  
Magnitudes: 3.0ML TIR 3.5MW TIR Rms: 0.8 secs  
29 km E of Bilisht

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
NEST	HZ	27	239	EP		0334	3.999	0.13							1.0
NEST	HN	27	239	ES		0334	8.001-0.51								1.0
NEST	HZ	27	239	IAML		0334	8.443			2549	0.3				
PENT	HZ	41	202	EP		0334	6.442	0.40							1.0
PENT	HE	41	202	ES		0334	2.492	0.04							1.0
KBN	HZ	46	282	EP		0334	6.531-0.21								1.0
KBN	HN	46	282	ES		0334	3.209-0.51								1.0
KBN	HZ	46	282	IAML		0334	4.232			684	0.4				
KZN	HZ	46	124	EP		0334	7.855	1.03							1.0
KZN	HE	46	124	ES		0334	3.909	0.04							1.0
LSK	HZ	75	235	EP		0334	0.687-0.81								1.0
LSK	HE	75	235	ES		0334	1.017-1.31								1.0
LSK	HZ	75	235	IAML		0334	3.822			210	0.6				
JAN	HZ	106	202	EP		0334	7.456	0.86							1.0
JAN	HN	106	202	ES		0334	0.592-0.96								1.0
BERA	HZ	117	279	EP		0334	7.537-0.89								1.0
BERA	HE	117	279	ES		0334	5.608	0.74							1.0
BERA	HZ	117	279	IAML		0334	3.405			136	0.6				
THL	HZ	124	151	EP		0334	9.309-0.18								1.0
THL	HN	124	151	ES		0334	6.958	0.17							1.0
SRN	HZ	134	237	EP		0334	1.851	0.69							1.0
SRN	HE	134	237	ES		0334	0.436	0.63							1.0
SRN	HZ	134	237	IAML		0334	2.834			91	0.4				
IGT	HZ	140	217	EP		0334	2.861	0.73							1.0
IGT	HE	140	217	ES		0334	1.728	0.16							1.0
IGT	HZ	140	217	IAML		0335	3.154			73	10.4				
THE	HZ	140	85	EP		0334	2.076	0.03							1.0
PHP	HZ	147	330	EP		0334	2.443-0.77								1.0
PHP	HN	147	330	ES		0334	1.893-1.64								1.0
PHP	HZ	147	330	IAML		0334	3.548			93	0.7				
TIR	HZ	152	307	EP		0334	4.582	0.64							1.0
TIR	HN	152	307	ES		0334	5.766	0.92							1.0
TIR	HZ	152	307	IAML		0334	6.014			30	0.5				
VLO	HZ	155	268	EP		0334	5.540	1.13							1.0
VLO	HN	155	268	ES		0334	6.417	0.71							1.0
VLO	HZ	155	268	IAML		0334	1.531			229	0.6				
KEK	HZ	159	235	EP		0334	5.054	0.04							0.9
KEK	HN	159	235	ES		0334	5.035-1.76								0.9
KEK	HZ	159	235	IAML		0334	6.781			86	1.7				
PLG	HZ	181	95	EP		0334	7.807-0.12								0.9

PLG	HN	181	95	ES	0334	0.527	-1.53								0.9
LKD2	HZ	203	196	EP	0334	1.599	0.94								0.9
LKD2	HE	203	196	ES	0334	7.442	0.44								0.9
PUK	HZ	205	325	EP	0334	1.385	0.36								0.9
PUK	HN	205	325	ES	0334	8.305	0.64								0.9
PUK	HZ	205	325	IAML	0335	3.766			26	0.5					
SDA	HZ	226	318	EP	0334	4.700	1.05								0.9
SDA	HN	226	318	ES	0335	2.467	0.05								0.9
BCI	HZ	228	333	EP	0334	4.357	0.44								0.9
BCI	HN	228	333	ES	0335	3.286	0.38								0.9
BCI	HZ	228	333	IAML	0335	8.880			38	1.6					
NVR	HZ	232	66	EP	0334	4.026	-0.46								0.9
BARS	BZ	256	9	EP	0334	7.443	-0.04								0.9
PDG	HZ	271	321	EP	0334	0.013	0.63								0.9
PDG	HN	271	321	ES	0335	1.899	-0.89								0.9
PDG	HZ	271	321	IAML	0335	5.582			28	0.6					
NOCI	HZ	361	276	EP	0334	9.298	-1.62								0.8

**November 13 2022 Hour: 5:15 13.2 Lat: 41.64N Lon: 20.14E D: 16.0 Ag: TIR Local**  
**Magnitudes: 2.9ML TIR 3.2MW TIR Rms: 0.6 secs**  
**11 km E of Burrel**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
PHP	HZ	25	79	EP		0515	8.780	0.32							1.0
PHP	HN	25	79	ES		0515	3.186	0.45							1.0
PHP	HZ	25	79	IAML		0515	4.568			638	0.5				
TIR	HZ	40	216	EP		0515	0.159	-0.57							1.0
TIR	HN	40	216	ES		0515	5.980	-0.86							1.0
TIR	HZ	40	216	IAML		0515	8.285			442	0.4				
PUK	HZ	49	335	EP		0515	2.553	0.30							1.0
PUK	HE	49	335	ES		0515	9.941	0.34							1.0
PUK	HZ	49	335	IAML		0515	1.070			311	0.4				
SDA	HZ	70	311	EP		0515	5.532	-0.11							1.0
SDA	HN	70	311	ES		0515	6.196	0.47							1.0
SDA	HZ	70	311	IAML		0515	7.183			454	0.6				
BCI	HZ	81	355	EP		0515	7.244	-0.19							1.0
BCI	HN	81	355	ES		0515	8.944	-0.03							1.0
BCI	HZ	81	355	IAML		0515	1.631			144	0.3				
BERA	HZ	106	189	EP		0515	9.768	-1.75							1.0
BERA	HE	106	189	ES		0515	6.516	0.16							1.0
BERA	HZ	106	189	IAML		0515	3.714			62	0.7				
PDG	HZ	114	320	EP		0515	2.414	-0.52							1.0
PDG	HN	114	320	ES		0515	9.292	0.36							1.0
PDG	HZ	114	320	IAML		0515	3.695			173	0.2				
KBN	HZ	125	154	EP		0515	5.189	0.35							1.0
KBN	HZ	125	154	IAML		0515	2.824			48	0.9				
KBN	HE	125	154	ES		0515	2.873	0.49							1.0
VLO	HZ	141	203	EP		0515	8.035	0.59							1.0
VLO	HN	141	203	ES		0515	8.024	0.93							1.0
NEST	HZ	156	151	EP		0515	9.555	-0.31							1.0
NEST	HN	156	151	ES		0516	1.175	-0.29							1.0
NEST	HZ	156	151	IAML		0516	7.876			67	0.5				
LSK	HZ	170	167	EP		0515	2.105	0.31							0.9
LSK	HE	170	167	ES		0516	5.365	0.39							0.9
LSK	HZ	170	167	IAML		0516	3.701			61	0.6				
PENT	HZ	181	152	EP		0515	3.436	0.21							0.9
BARS	BZ	190	46	EP		0515	3.667	-0.61							0.9
BARS	BE	190	46	ES		0516	8.590	-0.87							0.9
SRN	HZ	196	184	EP		0515	4.613	-0.40							0.9
KZN	HZ	202	137	EP		0515	5.892	0.03							0.9
KEK	HZ	216	188	EP		0515	7.823	0.20							0.9
KEK	HZ	216	188	IAML		0516	1.075			87	2.1				
JAN	HZ	228	165	EP		0515	0.374	1.15							0.9
IGT	HZ	235	176	EP		0515	9.969	-0.04							0.9
THL	HZ	280	145	EP		0515	5.325	-0.42							0.8

November 13 2022 Hour: 19:49 17.9 Lat: 38.72N Lon: 20.54E D: 9.4 Ag: TIR Local  
 Magnitudes: 2.8ML TIR 3.4MW TIR Rms: 0.7 secs  
 109 km S of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
LKD2	HZ	13	51	EP		1949	0.687	-0.12							1.0
LKD2	HE	13	51	ES		1949	2.559	-0.58							1.0
VLS	HZ	60	176	EP		1949	9.195	0.46							1.0
VLS	HN	60	176	ES		1949	8.089	0.59							1.0
IGT	HZ	93	349	EP		1949	4.261	0.10							1.0
IGT	HN	93	349	ES		1949	7.937	0.62							1.0
IGT	HZ	93	349	IAML		1949	1.546			137	0.2				
JAN	HZ	108	14	EP		1949	7.221	0.50							1.0
JAN	HN	108	14	ES		1949	2.507	0.56							1.0
KEK	HZ	128	330	EP		1949	0.629	0.54							1.0
KEK	HN	128	330	ES		1949	8.350	0.31							1.0
KEK	HZ	128	330	IAML		1950	9.425			151	0.4				
SRN	HZ	137	340	EP		1949	1.681	0.04							1.0
SRN	HE	137	340	ES		1950	0.964	0.11							1.0
SRN	HZ	137	340	IAML		1950	0.405			54	0.5				
THL	HZ	158	53	EP		1949	4.307	-0.79							0.9
THL	HE	158	53	ES		1950	7.051	-0.07							0.9
LSK	HZ	159	2	EP		1949	6.261	0.93							0.9
LSK	HN	159	2	ES		1950	7.593	0.06							0.9
LSK	HZ	159	2	IAML		1950	9.520			95	0.8				
PENT	HZ	172	17	EP		1949	7.857	0.38							0.9
PENT	HE	172	17	ES		1950	1.470	0.05							0.9
NEST	HZ	194	13	EP		1949	1.908	1.62							0.9
NEST	HN	194	13	ES		1950	6.018	-0.49							0.9
NEST	HZ	194	13	IAML		1950	3.128			41	0.6				
KZN	HZ	206	30	EP		1949	2.182	0.35							0.9
KZN	HN	206	30	ES		1950	9.539	0.24							0.9
ITM	HZ	209	144	EP		1949	3.133	0.89							0.9
ITM	HN	209	144	ES		1950	9.646	-0.40							0.9
KBN	HZ	213	6	EP		1949	2.753	0.02							0.9
KBN	HE	213	6	ES		1950	0.363	-0.57							0.9
KBN	HZ	213	6	IAML		1950	6.730			32	0.8				
BERA	HZ	226	347	EP		1949	4.250	-0.13							0.9
BERA	HE	226	347	ES		1950	4.298	0.38							0.9
BERA	HZ	226	347	IAML		1950	1.886			37	0.6				
PLG	HZ	310	53	EP		1950	4.466	-0.67							0.8
PHP	HZ	330	359	EP		1950	7.407	-0.30							0.8
PHP	HZ	330	359	IAML		1951	2.142			10	1.2				
TIP	HZ	332	280	EP		1950	6.743	-1.29							0.8
PUK	HZ	374	352	EP		1950	2.152	-1.20							0.8
PUK	HZ	374	352	IAML		1951	8.443			5	0.5				
NOCI	HZ	377	309	EP		1950	1.979	-1.71							0.8
SDA	HZ	381	347	EP		1950	2.476	-1.68							0.8
BCI	HZ	407	354	EP		1950	7.276	-0.37							0.7
BCI	HZ	407	354	IAML		1951	6.323			16	1.0				
PDG	HZ	426	346	EP		1950	8.352	-1.68							0.7

November 15 2022 Hour: 15:17 5.9 Lat: 39.29N Lon: 21.50E D: 17.1 Ag: TIR Local  
 Magnitudes: 2.3ML TIR 4.2MW TIR Rms: 0.4 secs  
 119 km E of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
THL	HZ	54	56	EP		1517	6.319	0.60							1.0
THL	HE	54	56	ES		1517	3.820	0.15							1.0
JAN	HZ	69	306	EP		1517	8.242	0.08							1.0
LKD2	HZ	92	233	EP		1517	2.507	0.54							1.0
LKD2	HN	92	233	ES		1517	4.644	-0.33							1.0
IGT	HZ	104	285	EP		1517	3.738	-0.21							1.0
IGT	HN	104	285	ES		1517	8.338	-0.21							1.0
PENT	HZ	105	343	EP		1517	4.271	0.08							1.0

PENT	HE	105	343	ES		1517	8.502-0.50										1.0
KZN	HZ	115	12	EP		1517	5.636-0.24										1.0
KZN	HN	115	12	ES		1517	1.069-0.98										1.0
LSK	HZ	122	321	EP		1517	7.432 0.34										1.0
LSK	HN	122	321	ES		1517	4.608 0.36										1.0
LSK	HZ	122	321	IAML		1517	3.014			21	0.9						
NEST	HZ	130	343	EP		1517	8.626 0.20										1.0
NEST	HE	130	343	ES		1517	6.683 0.02										1.0
NEST	HZ	130	343	IAML		1517	0.475			36	0.7						
SRN	HZ	144	297	EP		1517	0.702 0.15										1.0
SRN	HN	144	297	ES		1517	0.627 0.12										1.0
SRN	HZ	144	297	IAML		1517	1.355			11	0.6						
VLS	HZ	147	213	EP		1517	0.702-0.32										1.0
VLS	HN	147	213	ES		1517	0.827-0.53										1.0
KEK	HZ	153	288	EP		1517	2.459 0.44										1.0
KEK	HE	153	288	ES		1517	3.429 0.27										1.0
KEK	HZ	153	288	IAML		1518	1.961			32	0.4						

**November 23 2022 Hour: 14:34 9.6 Lat: 39.80N Lon: 20.56E D: 15.0F Ag: TIR Local**  
**Magnitudes: 2.1ML TIR 2.7MW TIR Rms: 0.6 secs**

**36 km SE of Libohove**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
IGT	HZ	36	214	IP	0A	1434	7.038	0.59							1.0
IGT	HZ	36	214	IAML	A	1434	2.152			99	0.7				
LSK	HZ	39	4	IP	4A	1433	3.450-23.5								0.0
SRN	HZ	49	280	IP	0A	1434	7.720-0.84								1.0
KEK	HZ	66	262	IP	0A	1434	1.590 0.16								1.0
NEST	HZ	80	31	IP	4A	1434	0.610-13.1								0.0
KBN	HZ	93	12	IP	0A	1434	6.530 0.57								1.0
BERA	HZ	113	333	IP	4A	1434	4.950-4.23								0.0
VLO	HZ	117	310	IP	4A	1434	4.340 4.42								0.0
THL	HZ	127	101	IP	0A	1434	1.070-0.49								1.0

**November 25 2022 Hour: 1:15 57.8 Lat: 40.53N Lon: 19.62E D: 21.8 Ag: TIR Local**  
**Magnitudes: 2.0ML TIR 2.6MW TIR Rms: 0.6 secs**

**0 km S of Selenice**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
VLO	HZ	13	240	EP		0116	2.043-0.12								1.0
VLO	HN	13	240	ES		0116	5.423-0.27								1.0
VLO	HZ	13	240	IAML		0116	6.671			763	0.3				
BPA2	HZ	23	359	EP		0116	3.878 0.65								1.0
BPA2	HE	23	359	ES		0116	8.402 0.78								1.0
BERA	HZ	34	54	EP		0116	3.832-0.91								1.0
BERA	HE	34	54	ES		0116	9.340-1.02								1.0
BERA	HZ	34	54	IAML		0116	9.632			71					
SRN	HZ	79	156	EP		0116	1.460-0.32								1.0
SRN	HE	79	156	ES		0116	3.224 0.12								1.0
SRN	HZ	79	156	IAML		0116	6.016			26	0.7				
KEK	HZ	92	171	EP		0116	4.036 0.12								1.0
KEK	HE	92	171	ES		0116	6.755-0.22								1.0
KEK	HZ	92	171	IAML		0116	9.594			49	0.4				
LSK	HZ	93	116	EP		0116	4.301 0.13								1.0
LSK	HZ	93	116	IAML		0116	2.040			19	0.5				
TIR	HZ	94	12	EP		0116	4.879 0.64								1.0
TIR	HE	94	12	ES		0116	8.055 0.50								1.0
TIR	HZ	94	12	IAML		0116	2.619			12	0.5				
KBN	HZ	99	83	EP		0116	5.168 0.00								1.0
KBN	HE	99	83	ES		0116	8.666-0.57								1.0
KBN	HZ	99	83	IAML		0116	4.659			10	1.5				
SCTE	HZ	111	243	EP		0116	7.350 0.43								1.0
SCTE	HN	111	243	ES		0116	1.670-0.74								1.0
NEST	HZ	121	95	EP		0116	9.800 1.09								1.0
NEST	HZ	121	95	IAML		0116	2.787			12	0.9				
PENT	HZ	134	105	EP		0116	0.877 0.23								1.0

PHP	HZ	146	28	EP	0116	2.582	0.06										1.0
PHP	HN	146	28	ES	0116	2.692	0.15										1.0
PHP	HZ	146	28	IAML	0116	0.512				6	1.0						
SDA	HZ	170	357	EP	0116	5.618	-0.01										0.9
PUK	HZ	170	7	EP	0116	5.735	-0.05										0.9
PUK	HE	170	7	ES	0116	7.311	-1.14										0.9
PUK	HZ	170	7	IAML	0116	3.540				8	0.3						
BCI	HZ	208	10	EP	0116	0.953	0.37										0.9
BCI	HZ	208	10	IAML	0117	4.418				10	1.6						
LKD2	HZ	212	155	EP	0116	2.219	1.07										0.9
PDG	HZ	214	352	EP	0116	0.309	-0.97										0.9
PDG	HZ	214	352	IAML	0117	2.922				5	0.5						

**November 27 2022 Hour: 7:217.4 Lat: 38.83N Lon: 21.23E D: 5.0 Ag: TIR Local**  
**Magnitudes: 2.5ML TIR Rms: 0.5 secs**

**129 km SE of Konispol**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT	
LKD2	HZ	50	265	EP		0702	7.121	0.72							1.0	
LKD2	HN	50	265	ES		0702	3.672	-0.04							1.0	
VLS	HZ	91	218	EP		0702	3.157	-0.57							1.0	
VLS	HE	91	218	ES		0702	6.414	-0.55							1.0	
JAN	HZ	98	340	EP		0702	4.509	-0.31							1.0	
JAN	HE	98	340	ES		0702	8.793	-0.15							1.0	
THL	HZ	106	39	EP		0702	5.639	-0.53							1.0	
THL	HN	106	39	ES		0702	1.006	-0.37							1.0	
IGT	HZ	110	315	EP		0702	6.881	-0.02							1.0	
IGT	HE	110	315	ES		0702	2.713	0.00							1.0	
IGT	HZ	110	315	IAML		0703	0.171			28	0.8					
PENT	HZ	152	357	EP		0702	4.115	0.20							1.0	
PENT	HN	152	357	ES		0703	6.261	0.86							1.0	
LSK	HZ	157	340	EP		0702	5.025	0.37							1.0	
LSK	HN	157	340	ES		0703	6.962	0.22							1.0	
LSK	HZ	157	340	IAML		0703	5.379			21	0.7					
KEK	HZ	158	309	EP		0702	4.061	-0.79							0.9	
KEK	HN	158	309	ES		0703	7.478	0.38							0.9	
KEK	HZ	158	309	IAML		0703	9.232			34	1.0					
SRN	HZ	158	318	EP		0702	4.904	0.09							0.9	
SRN	HE	158	318	ES		0703	6.831	-0.19							0.9	
SRN	HZ	158	318	IAML		0703	1.074			34	2.0					
NEST	HZ	177	355	EP		0702	8.605	0.56							0.9	
NEST	HN	177	355	ES		0703	2.041	-0.84							0.9	
NEST	HZ	177	355	IAML		0703	9.743			21	1.0					
ITM	HZ	193	161	EP		0702	0.983	0.86							0.9	
ITM	HN	193	161	ES		0703	6.977	0.34							0.9	

**November 27 2022 Hour: 8:2736.6 Lat: 39.05N Lon: 20.47E D: 2.4 Ag: TIR Local**  
**Magnitudes: 2.3ML TIR 3.2MW TIR Rms: 0.6 secs**

**71 km S of Konispol**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT	
LKD2	HZ	34	151	EP		0827	2.213	-0.39							1.0	
LKD2	HN	34	151	ES		0827	7.050	-0.42							1.0	
IGT	HZ	55	347	EP		0827	5.719	-0.64							1.0	
IGT	HE	55	347	ES		0827	3.951	-0.30							1.0	
IGT	HZ	55	347	IAML		0827	8.552			75	0.3					
JAN	HZ	74	26	EP		0827	9.655	-0.26							1.0	
JAN	HE	74	26	ES		0828	0.422	-0.26							1.0	
KEK	HZ	93	322	EP		0827	3.008	-0.30							1.0	
KEK	HE	93	322	ES		0828	7.393	0.57							1.0	
KEK	HZ	93	322	IAML		0828	9.090			54	0.4					
VLS	HZ	98	174	EP		0827	4.216	0.13							1.0	
VLS	HE	98	174	ES		0828	8.239	-0.00							1.0	
SRN	HZ	100	336	EP		0827	5.311	0.78							1.0	
SRN	HE	100	336	ES		0828	8.459	-0.59							1.0	
SRN	HZ	100	336	IAML		0828	4.625			22	0.6					

LSK	HZ	122	5	EP	0827	8.568	0.28										1.0
LSK	HN	122	5	ES	0828	6.217	0.37										1.0
LSK	HZ	122	5	IAML	0828	9.659		35	0.7								
PENT	HZ	139	24	EP	0828	1.587	0.47										1.0
THL	HZ	145	66	EP	0828	2.114	0.16										1.0
THL	HE	145	66	ES	0828	2.422	-0.07										1.0
NEST	HZ	159	18	EP	0828	5.497	1.07										0.9
NEST	HE	159	18	ES	0828	7.741	0.78										0.9
NEST	HZ	159	18	IAML	0828	1.220		38	0.6								
KZN	HZ	178	38	EP	0828	7.997	0.38										0.9
KZN	HE	178	38	ES	0828	1.924	-0.81										0.9
BERA	HZ	188	346	EP	0828	8.726	-0.36										0.9
BERA	HN	188	346	ES	0828	4.194	-1.20										0.9
BERA	HZ	188	346	IAML	0828	9.870		13	0.6								
ITM	HZ	244	148	EP	0828	7.002	0.76										0.9

**November 27 2022 Hour: 10:59 35.8 Lat: 42.94N Lon: 18.77E D: 26.4 Ag: TIR Local**  
**Magnitudes: 2.9ML TIR 3.3MW TIR Rms: 0.8 secs**  
**97 km NW of Koplík**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
PDG	HZ	70	144	EP		1059	7.833	-0.58							1.0
PDG	HN	70	144	ES		1059	6.773	-1.86							1.0
PDG	HZ	70	144	IAML		1059	9.253		250	0.4					
SDA	HZ	116	148	EP		1059	5.837	0.19							1.0
SDA	HE	116	148	ES		1100	1.429	-0.29							1.0
SDA	HZ	116	148	IAML		1100	7.286		81	0.3					
BCI	HZ	124	120	EP		1059	7.919	0.90							1.0
BCI	HE	124	120	ES		1100	4.636	0.43							1.0
BCI	HZ	124	120	IAML		1100	8.402		165	0.4					
PUK	HZ	136	137	EP		1059	9.518	0.61							1.0
PUK	HZ	136	137	IAML		1100	2.720		117	0.2					
PHP	HZ	196	135	EP		1100	7.957	1.30							0.9
PHP	HN	196	135	ES		1100	1.986	0.33							0.9
PHP	HZ	196	135	IAML		1100	3.782		57	0.6					
TIR	HZ	199	152	EP		1100	7.191	0.26							0.9
TIR	HN	199	152	ES		1100	2.085	-0.06							0.9
TIR	HZ	199	152	IAML		1100	8.563		24	0.4					
BLY	HZ	238	328	EP		1100	3.041	1.06							0.9
BLY	HE	238	328	ES		1100	9.697	-1.59							0.9
BARS	BZ	249	92	EP		1100	4.585	1.12							0.9
BARS	BN	249	92	ES		1100	2.665	-1.30							0.9
BERA	HZ	267	158	EP		1100	5.301	-0.39							0.9
BERA	HZ	267	158	IAML		1100	4.975		23	0.3					
NEST	HZ	339	145	EP		1100	5.105	0.12							0.8
SRN	HZ	355	163	EP		1100	7.570	0.62							0.8
KEK	HZ	368	166	EP		1100	8.435	-0.28							0.8
BZS	HZ	376	37	EP		1100	9.058	-0.60							0.8
IGT	HZ	400	160	EP		1100	2.893	0.09							0.7

**November 27 2022 Hour: 19:12 50.3 Lat: 38.78N Lon: 21.23E D: 3.7 Ag: TIR Local**  
**Magnitudes: 2.0ML TIR Rms: 0.5 secs**  
**133 km SE of Konispol**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
LKD2	HZ	49	272	EP		1912	9.448	0.35							1.0
LKD2	HN	49	272	ES		1913	6.763	0.50							1.0
JAN	HZ	103	342	EP		1913	8.121	-0.52							1.0
IGT	HZ	114	318	EP		1913	9.688	-0.78							1.0
IGT	HN	114	318	ES		1913	6.902	0.06							1.0
IGT	HZ	114	318	IAML		1913	2.236		6	0.7					
KEK	HZ	161	311	EP		1913	7.767	-0.56							0.9
KEK	HN	161	311	ES		1913	0.687	-0.37							0.9
KEK	HZ	161	311	IAML		1913	4.410		17	1.2					
LSK	HN	162	341	ES		1913	1.836	0.52							0.9
SRN	HZ	162	320	IAML		1913	8.930		14	1.7					

LSK	HZ	162	341	IAML	1913	7.532			8	0.2					
SRN	HN	162	320	ES	1913	0.995	-0.21								0.9
LSK	HZ	162	341	EP	1913	8.967	0.50								0.9
SRN	HZ	162	320	EP	1913	8.104	-0.30								0.9
NEST	HZ	183	355	EP	1913	2.343	0.40								0.9
NEST	HN	183	355	ES	1913	8.078	0.47								0.9
NEST	HZ	183	355	IAML	1913	1.415			5	0.7					

**November 28 2022 Hour: 3:51 27.3 Lat: 38.83N Lon: 21.13E D: 13.6 Ag: TIR Local**  
**Magnitudes: 2.4ML TIR 3.3MW TIR Rms: 0.4 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
LKD2	HZ	41	263	EP		0351	5.468	0.53							1.0
LKD2	HN	41	263	ES		0351	0.953	-0.21							1.0
VLS	HZ	87	213	EP		0351	1.919	-0.54							1.0
VLS	HE	87	213	ES		0351	4.403	-0.37							1.0
JAN	HZ	95	345	EP		0351	3.906	0.14							1.0
JAN	HE	95	345	ES		0351	7.659	0.52							1.0
THL	HZ	111	43	EP		0351	6.239	-0.31							1.0
THL	HN	111	43	ES		0352	2.019	-0.16							1.0
KEK	HZ	151	311	IAML		0352	4.444		37	0.7					
PENT	HZ	151	0	EP		0351	3.088	-0.16							1.0
KEK	HZ	151	311	EP		0351	3.148	0.02							1.0
KEK	HE	151	311	ES		0352	3.916	-0.17							1.0
SRN	HZ	152	320	EP		0351	3.597	0.35							1.0
SRN	HN	152	320	ES		0352	4.417	0.12							1.0
SRN	HZ	152	320	IAML		0352	4.251		12	0.6					
LSK	HZ	153	343	EP		0351	3.893	0.33							1.0
LSK	HN	153	343	ES		0352	4.672	-0.19							1.0
LSK	HZ	153	343	IAML		0352	3.089		32	0.6					
NEST	HZ	176	358	EP		0351	7.079	0.21							0.9
NEST	HN	176	358	ES		0352	0.226	-0.63							0.9
NEST	HZ	176	358	IAML		0352	7.171		15	0.4					
ITM	HZ	196	159	EP		0351	9.165	-0.27							0.9
ITM	HE	196	159	ES		0352	6.392	0.88							0.9
KBN	HZ	201	352	EP		0352	0.457	0.39							0.9
KBN	HN	201	352	ES		0352	6.028	-0.62							0.9
KBN	HZ	201	352	IAML		0352	4.290		8	0.5					
BERA	HZ	231	334	EP		0352	3.750	-0.08							0.9
BERA	HN	231	334	ES		0352	3.706	0.26							0.9
BERA	HZ	231	334	IAML		0352	2.292		12	0.9					

**November 28 2022 Hour: 7: 6 31.9 Lat: 41.61N Lon: 20.80E D: 10.0 Ag: TIR Local**  
**Magnitudes: 2.0ML TIR Rms: 0.5 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
PHP	HZ	31	285	EP		0706	7.798	0.08							1.0
PHP	HN	31	285	ES		0706	2.436	0.03							1.0
PHP	HZ	31	285	IAML		0706	2.912		151	0.2					
PUK	HZ	89	303	EP		0706	7.392	-0.18							1.0
PUK	HN	89	303	ES		0706	9.341	-0.90							1.0
PUK	HZ	89	303	IAML		0707	5.004		7	0.3					
BCI	HZ	103	324	EP		0706	8.930	-0.98							1.0
BCI	HN	103	324	ES		0707	5.306	0.82							1.0
BCI	HZ	103	324	IAML		0707	8.732		13	0.3					
SDA	HZ	118	295	EP		0706	3.276	0.90							1.0
SDA	HN	118	295	ES		0707	9.175	0.23							1.0
NEST	HZ	135	171	EP		0706	5.137	-0.11							1.0
NEST	HN	135	171	ES		0707	4.287	0.15							1.0
NEST	HZ	135	171	IAML		0707	5.937		14	0.4					
BARS	BZ	158	32	EP		0706	9.114	0.10							0.9
PENT	HZ	160	170	EP		0706	9.346	-0.10							0.9

November 28 2022 Hour: 16:15 33.0 Lat: 42.37N Lon: 19.19E D: 26.9 Ag: TIR Local  
 Magnitudes: 3.0ML TIR 3.2MW TIR Rms: 0.8 secs  
 26 km NW of Koplík

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
PDG	HZ	9	39	EP		1615	8.121	0.25							1.0
PDG	HN	9	39	ES		1615	1.261	-0.51							1.0
PDG	HZ	9	39	IAML		1615	1.571			3325	0.2				
SDA	HZ	44	144	EP		1615	1.693	-0.04							1.0
SDA	HE	44	144	ES		1615	8.351	-0.43							1.0
SDA	HZ	44	144	IAML		1615	0.446			196	0.4				
PUK	HZ	68	122	EP		1615	5.564	0.04							1.0
PUK	HE	68	122	ES		1615	5.327	-0.30							1.0
PUK	HZ	68	122	IAML		1615	5.837			249	0.3				
BCI	HZ	72	90	EP		1615	6.001	-0.08							1.0
BCI	HN	72	90	ES		1615	6.055	-0.59							1.0
BCI	HZ	72	90	IAML		1615	8.241			652	0.3				
TIR	HZ	126	154	EP		1615	4.805	0.23							1.0
TIR	HE	126	154	ES		1616	2.860	0.84							1.0
TIR	HZ	126	154	IAML		1616	5.266			38	0.4				
PHP	HZ	128	126	EP		1615	5.359	0.45							1.0
PHP	HN	128	126	ES		1616	2.917	0.29							1.0
PHP	HZ	128	126	IAML		1616	8.482			104	1.0				
BERA	HZ	195	161	EP		1616	4.465	0.76							0.9
BERA	HE	195	161	ES		1616	8.868	0.33							0.9
BERA	HZ	195	161	IAML		1616	2.697			59	0.3				
BARS	BZ	221	76	EP		1616	8.024	1.02							0.9
BARS	BE	221	76	ES		1616	3.667	-0.84							0.9
NOCI	HZ	250	226	EP		1616	0.256	-0.43							0.9
SCTE	HZ	262	194	EP		1616	1.093	-1.17							0.9
NEST	HZ	267	144	EP		1616	4.213	1.25							0.9
NEST	HN	267	144	ES		1616	4.849	-0.45							0.9
NEST	HZ	267	144	IAML		1617	1.211			32	0.5				
LSK	HZ	273	154	EP		1616	5.105	1.34							0.8
SRN	HZ	285	166	EP		1616	4.931	-0.18							0.8
SRN	HN	285	166	ES		1616	6.908	-2.28							0.8
SRN	HZ	285	166	IAML		1617	9.081			15	0.8				
PENT	HZ	291	145	EP		1616	7.332	1.24							0.8
KEK	HZ	299	170	EP		1616	6.173	-0.86							0.8
KEK	HZ	299	170	IAML		1617	0.426			28	1.6				

November 28 2022 Hour: 20:38 10.0 Lat: 38.84N Lon: 21.17E D: 14.5 Ag: TIR Local  
 Magnitudes: 3.1ML TIR 3.5MW TIR Rms: 0.9 secs  
 124 km SE of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
LKD2	HZ	45	263	EP		2038	8.269	0.01							1.0
LKD2	HE	45	263	ES		2038	5.045	0.11							1.0
VLS	HZ	89	215	EP		2038	4.794	-0.81							1.0
VLS	HE	89	215	ES		2038	8.233	0.01							1.0
JAN	HZ	95	343	EP		2038	6.781	0.18							1.0
THL	HZ	109	42	EP		2038	8.905	0.01							1.0
THL	HN	109	42	ES		2038	4.823	0.64							1.0
PENT	HZ	151	359	EP		2038	6.051	0.11							1.0
PENT	HE	151	359	ES		2038	7.157	0.23							1.0
KEK	HZ	153	310	EP		2038	6.034	-0.20							1.0
KEK	HN	153	310	ES		2038	7.270	-0.19							1.0
KEK	HZ	153	310	IAML		2039	7.472			270	0.6				
SRN	HZ	153	319	EP		2038	6.467	0.20							1.0
SRN	HN	153	319	ES		2038	7.498	-0.03							1.0
SRN	HZ	153	319	IAML		2039	1.473			79	0.5				
LSK	HZ	154	342	EP		2038	6.504	0.10							1.0
LSK	HZ	154	342	IAML		2039	6.080			278	0.5				
KZN	HZ	171	17	EP		2038	8.597	-0.33							0.9
KZN	HE	171	17	ES		2039	2.552	0.21							0.9



NEST	HZ	175	357	EP	2038	9.851	0.36										0.9
NEST	HZ	175	357	IAML	2039	0.146		144	0.4								
ITM	HZ	196	160	EP	2038	2.667	0.63										0.9
ITM	HE	196	160	ES	2039	9.519	1.56										0.9
KBN	HZ	201	351	EP	2038	4.180	1.44										0.9
KBN	HN	201	351	ES	2039	0.297	1.05										0.9
VLO	HZ	231	322	EP	2038	6.295	-0.21										0.9
VLO	HN	231	322	ES	2039	6.610	0.54										0.9
VLO	HZ	231	322	IAML	2039	4.380		143	0.7								
BERA	HZ	232	334	EP	2038	6.921	0.30										0.9
BERA	HE	232	334	ES	2039	6.973	0.71										0.9
BERA	HZ	232	334	IAML	2039	3.024		58	1.1								
THE	HZ	252	37	EP	2038	9.731	0.56										0.9
PLG	HZ	259	48	EP	2038	9.366	-0.84										0.9
PLG	HN	259	48	ES	2039	9.330	-3.42										0.9
SCTE	HZ	270	301	EP	2038	9.975	-1.51										0.9
TIR	HZ	300	339	EP	2038	5.574	0.21										0.8
TIR	HZ	300	339	IAML A	2039	5.508		21	1.0								
PHP	HZ	322	349	EP	2038	8.136	-0.12										0.8
PHP	HZ	322	349	IAML	2040	4.625		19	1.1								
NVR	HZ	361	39	EP	2039	3.847	0.56										0.8
PUK	HZ	372	343	EP	2039	4.124	-0.55										0.8
PUK	HZ	372	343	IAML	2039	6.686		15	0.9								
SDA	HZ	384	339	EP	2039	4.244	-1.83										0.8
SDA	HZ	384	339	IAML	2039	0.341		7	1.4								
TIP	HZ	384	277	EP	2039	4.530	-1.65										0.8
BCI	HZ	403	347	EP	2039	8.959	0.38										0.7
BCI	HZ	403	347	IAML	2039	6.245		34	0.5								

November 28 2022 Hour: 21:20 56.1 Lat: 38.83N Lon: 21.15E D: 13.3 Ag: TIR Local  
Magnitudes: 2.8ML TIR Rms: 0.9 secs  
124 km SE of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
LKD2	HZ	43	264	EP		2121	4.462	0.45							1.0
LKD2	HE	43	264	ES		2121	0.091	-0.37							1.0
VLS	HZ	87	214	EP		2121	0.897	-0.46							1.0
VLS	HE	87	214	ES		2121	3.493	-0.26							1.0
JAN	HZ	96	344	EP		2121	2.901	0.19							1.0
JAN	HE	96	344	ES		2121	6.305	0.10							1.0
THL	HZ	111	42	EP		2121	5.033	-0.17							1.0
THL	HE	111	42	ES		2121	0.207	-0.50							1.0
PENT	HZ	152	360	EP		2121	2.061	-0.06							1.0
SRN	HZ	153	320	EP		2121	2.648	0.36							1.0
KEK	HZ	153	310	EP		2121	2.202	0.00							1.0
KEK	HE	153	310	ES		2121	3.742	0.36							1.0
SRN	HN	153	320	ES		2121	3.416	-0.12							1.0
SRN	HZ	153	320	IAML		2121	4.096			43	1.2				
KEK	HZ	153	310	IAML		2121	0.898			119	0.7				
LSK	HZ	154	342	EP		2121	2.929	0.41							1.0
LSK	HN	154	342	ES		2121	4.271	0.32							1.0
LSK	HZ	154	342	IAML		2121	1.609			95	0.6				
KZN	HZ	172	18	EP		2121	5.898	0.63							0.9
KZN	HE	172	18	ES		2121	7.442	-1.49							0.9
NEST	HZ	176	357	EP		2121	6.080	0.31							0.9
NEST	HZ	176	357	IAML		2121	5.992			36	0.3				
ITM	HZ	195	159	EP		2121	9.254	1.11							0.9
ITM	HE	195	159	ES		2121	4.841	0.70							0.9
KBN	HZ	202	351	EP		2121	1.720	2.72							0.9
VLO	HZ	231	323	EP		2121	1.853	-0.81							0.9
BERA	HZ	232	334	EP		2121	2.780	-0.04							0.9
BERA	HN	232	334	ES		2122	3.824	1.23							0.9
BERA	HZ	232	334	IAML		2122	1.251			34	0.9				
PLG	HZ	261	48	EP		2121	5.797	-0.79							0.9
SCTE	HZ	269	302	EP		2121	6.153	-1.41							0.9

PHP	HZ	323	349	EP		2121	3.973	-0.54									0.8
PUK	HZ	372	344	EP		2121	9.839	-1.07									0.8
PUK	HZ	372	344	IAML		2122	2.664			6	0.8						
TIP	HZ	383	277	EP		2121	0.194	-1.99									0.8

**November 30 2022 Hour: 9:16 46.8 Lat: 39.42N Lon: 20.91E D: 20.6 Ag: TIR Local**  
**Magnitudes: 2.1ML TIR Rms: 0.2 secs**

**67 km SE of Konispol**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
JAN	HZ	26	350	EP		0916	2.787	0.14							1.0
JAN	HN	26	350	ES		0916	7.324	-0.03							1.0
LKD2	HZ	74	197	EP		0917	0.127	0.10							1.0
LKD2	HE	74	197	ES		0917	0.437	-0.29							1.0
LSK	HZ	85	342	EP		0917	1.822	-0.02							1.0
LSK	HN	85	342	ES		0917	3.866	-0.14							1.0
PENT	HZ	88	13	EP		0917	2.535	0.15							1.0
PENT	HE	88	13	ES		0917	4.936	-0.04							1.0
SRN	HZ	93	303	EP		0917	3.059	-0.03							1.0
THL	HZ	97	80	EP		0917	3.685	-0.07							1.0
THL	HE	97	80	ES		0917	7.407	-0.06							1.0
KEK	HZ	100	289	EP		0917	5.012	0.63							1.0
KEK	HE	100	289	ES		0917	8.260	-0.33							1.0
KEK	HZ	100	289	IAML		0917	4.789			23	0.2				
NEST	HZ	111	6	EP		0917	6.399	0.30							1.0
NEST	HE	111	6	ES		0917	1.387	-0.32							1.0

**November 30 2022 Hour: 9:37 24.0 Lat: 39.42N Lon: 20.85E D: 23.0 Ag: TIR Local**  
**Magnitudes: 2.1ML TIR Rms: 0.4 secs**

**63 km SE of Konispol**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
JAN	HZ	26	360	EP		0937	0.001	-0.01							1.0
JAN	HN	26	360	ES		0937	4.533	-0.35							1.0
LKD2	HZ	73	194	EP		0937	7.186	0.11							1.0
LKD2	HE	73	194	ES		0937	7.651	-0.03							1.0
LSK	HZ	83	345	EP		0937	8.906	0.06							1.0
LSK	HN	83	345	ES		0937	0.885	0.00							1.0
SRN	HZ	89	305	EP		0937	9.604	-0.03							1.0
SRN	HE	89	305	ES		0937	1.743	-0.56							1.0
SRN	HZ	89	305	IAML		0937	4.687			22	0.4				
PENT	HZ	89	16	EP		0937	0.307	0.56							1.0
KEK	HZ	96	290	EP		0937	1.262	0.48							1.0
KEK	HE	96	290	ES		0937	4.337	-0.04							1.0
KEK	HZ	96	290	IAML		0937	7.224			35	0.3				
THL	HZ	101	81	EP		0937	2.029	0.46							1.0
THL	HN	101	81	ES		0937	5.152	-0.65							1.0
NEST	HZ	111	9	EP		0937	3.632	0.40							1.0
NEST	HN	111	9	ES		0937	8.627	-0.19							1.0
VLS	HZ	140	189	EP		0937	8.016	0.26							1.0
VLS	HN	140	189	ES		0938	6.552	-0.46							1.0

**November 30 2022 Hour: 14:26 41.4 Lat: 41.87N Lon: 20.02E D: 15.0 Ag: TIR Local**  
**Magnitudes: 3.0ML TIR 3.2MW TIR Rms: 0.4 secs**

**16 km NE of Reshen**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
PUK	HZ	22	332	EP		1426	6.648	0.46							1.0
PUK	HN	22	332	ES		1426	0.564	0.53							1.0
PUK	HZ	22	332	IAML		1426	3.174			858	0.2				
PHP	HZ	41	120	EP		1426	9.093	0.02							1.0
PHP	HN	41	120	ES		1426	4.882	-0.37							1.0
PHP	HZ	41	120	IAML		1426	7.385			579	0.2				
SDA	HZ	47	295	EP		1426	0.222	0.10							1.0
SDA	HN	47	295	ES		1426	7.006	-0.14							1.0
SDA	HZ	47	295	IAML		1426	7.806			245	0.1				
BCI	HZ	55	4	EP		1426	1.349	-0.11							1.0

BCI	HE	55	4	ES	1426	9.545	-0.03								1.0
BCI	HZ	55	4	IAML	1427	3.948		523	0.4						
TIR	HZ	59	192	EP	1426	2.169	0.07								1.0
TIR	HE	59	192	ES	1427	0.695	-0.04								1.0
TIR	HZ	59	192	IAML	1427	7.294		337	0.5						
PDG	HZ	88	315	EP	1426	6.489	-0.40								1.0
PDG	HN	88	315	ES	1427	9.147	-0.25								1.0
PDG	HZ	88	315	IAML	1427	2.176		251	0.2						
BERA	HZ	130	183	EP	1427	3.309	-0.48								1.0
BERA	HN	130	183	ES	1427	1.870	-0.02								1.0
BERA	HZ	130	183	IAML	1427	6.877		119	0.3						
BARS	BZ	182	54	EP	1427	0.927	-0.65								0.9
NEST	HZ	183	151	EP	1427	2.069	0.19								0.9
NEST	HN	183	151	ES	1427	6.386	-0.14								0.9
NEST	HZ	183	151	IAML	1427	2.206		65	0.4						
LSK	HZ	197	165	EP	1427	4.523	0.89								0.9
LSK	HN	197	165	ES	1427	0.461	0.75								0.9
LSK	HZ	197	165	IAML	1427	0.265		95	0.8						
SRN	HZ	221	180	EP	1427	6.832	0.26								0.9
SRN	HN	221	180	ES	1427	4.286	-0.74								0.9
SRN	HZ	221	180	IAML	1427	7.598		43	0.9						
KZN	HZ	228	139	EP	1427	8.102	0.56								0.9
KZN	HE	228	139	ES	1427	7.021	0.25								0.9
KEK	HZ	240	184	EP	1427	8.607	-0.47								0.9
KEK	HZ	240	184	IAML	1427	5.353		34	0.4						
THL	HZ	306	146	EP	1427	7.377	-0.17								0.8

**November 30 2022 Hour: 14:52 38.9 Lat: 41.87N Lon: 20.01E D: 22.6 Ag: TIR Local**  
**Magnitudes: 2.5ML TIR Rms: 0.2 secs**

**15 km NE of Reshen**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
PUK	HZ	21	333	EP		1452	4.435	0.05							1.0
PUK	HN	21	333	ES		1452	8.530	-0.27							1.0
PUK	HZ	21	333	IAML		1452	9.991		361	0.2					
PHP	HZ	42	120	EP		1452	6.902	-0.24							1.0
PHP	HE	42	120	ES		1452	3.815	0.02							1.0
PHP	HZ	42	120	IAML		1452	4.193		179	0.3					
SDA	HZ	46	295	EP		1452	7.969	0.16							1.0
SDA	HE	46	295	ES		1452	4.987	-0.02							1.0
SDA	HZ	46	295	IAML		1452	5.600		158	0.1					
BCI	HZ	55	5	EP		1452	9.237	0.03							1.0
BCI	HN	55	5	ES		1452	7.686	0.14							1.0
BCI	HZ	55	5	IAML		1452	9.485		155	0.2					
TIR	HZ	59	192	EP		1452	0.194	0.34							1.0
TIR	HE	59	192	ES		1452	8.431	-0.28							1.0
TIR	HZ	59	192	IAML		1453	3.431		85	0.5					
PDG	HZ	87	315	EP		1452	4.247	-0.10							1.0
PDG	HN	87	315	ES		1453	6.687	-0.16							1.0
PDG	HZ	87	315	IAML		1453	9.951		92	0.2					
BERA	HZ	130	182	EP		1453	1.316	0.26							1.0
BERA	HN	130	182	ES		1453	9.068	0.09							1.0
BERA	HZ	130	182	IAML		1453	4.758		23	0.2					
BARS	BZ	182	54	EP		1453	8.703	0.37							0.9
BARS	BN	182	54	ES		1453	1.971	-0.19							0.9
NEST	HZ	184	151	EP		1453	8.953	0.32							0.9
NEST	HN	184	151	ES		1453	2.205	-0.50							0.9
NEST	HZ	184	151	IAML		1453	9.545		24	0.2					