National Institute for Earth Physics
National Seismic Network

INFP

Antelope - associated stations measurements on atlas24 ronet database

ROMANIA - evid 23214312

Date	Time	Lat	Lon	Depth	ml	mb	orid
2025/12/23	21:43:12.496	45.412	25.818	66.0	3.7		164

		Sta	Chan	PGV	PGA
*	1	PRAD1	HHN	-0.00	
		PRAD1	HHE	-0.00	
		PRAD1	HHZ	-0.00	
*	2	TCAR	EHE	-0.00	
		TCAR	EHN	-0.00	
		TCAR	EHZ	0.00	
		TCAR	HNN		-0.02
		TCAR	HNE		-0.02
		TCAR	HNZ		-0.01
*	3	ISR	HHZ	-0.00	
		ISR	HHN	0.00	
		ISR	HHE	-0.00	
		ISR	HNN		-0.04
		ISR	HNE		-0.05
		ISR	HNZ		-0.03
*	4	MFTR	HHN	0.00	
		MFTR	HHE	0.00	
		MFTR	HHZ	-0.00	
		MFTR	HNZ		0.05
		MFTR	HNE		0.06
		MFTR	HNN		-0.05
*	5	DEV	HHE	-0.00	
		DEV	HHN	0.00	
		DEV	HHZ	0.00	
		DEV	HNZ		0.01
		DEV	HNE		0.01
		DEV	HNN		-0.01
*	6	MLR	HHN	0.00	
		MLR	HHE	0.00	
		MLR	HHZ	0.00	
		MLR	HNZ		-0.05
		MLR	HNN		-0.07
		MLR	HNE		0.05
*	7	SLPR	EHN	-0.00	
		SLPR	EHE	0.00	
		SLPR	EHZ	0.00	
		SLPR	HNZ		0.12
		SLPR	HNE		0.13
		SLPR	HNN		-0.22
*	8	SRE	HHZ	-0.00	
		SRE	HHE	-0.00	
		SRE	HHN	-0.00	
		SRE	HNZ		0.01
		SRE	HNE		0.02
		SRE	HNN		-0.02
*	9	DOPR	HHN	-0.00	

		DOPR	HHE	-0.00	
		DOPR	HHZ	-0.00	
		DOPR	HNZ		-0.05
		DOPR	HNN		0.10
		DOPR	HNE		0.08
*	10	PLOR	HHN	0.00	
		PLOR	HHE	-0.00	
		PLOR	HHZ	0.00	
		PLOR	HNZ		0.02
		PLOR	HNE		-0.02
		PLOR	HNN		-0.03
*	11	KALB	HHN	-0.00	
		KALB	HHE	0.00	
		KALB	HHZ	0.00	
		KALB	HNN		0.00
		KALB	HNE		-0.00
		KALB	HNZ		0.00
*	12	MARR	HHZ	0.00	
		MARR	HHE	-0.00	
		MARR	HHN	0.00	
		MARR	HNN		-0.01
		MARR	HNE		-0.01
		MARR	HNZ		0.01
*	13	TESR	HHZ	-0.00	
		TESR	HHN	-0.00	
		TESR	HHE	-0.00	
		TESR	HNZ		0.01
		TESR	HNN		-0.01
		TESR	HNE		0.01
*	14	PRAD2	HHE	-0.00	
		PRAD2	HHN	0.00	
		PRAD2	HHZ	0.00	
*	15	HARR	HHZ	0.00	
		HARR	HHE	-0.00	
		HARR	HHN	-0.00	
		HARR	HNZ		-0.03
		HARR	HNN		0.03
		HARR	HNE		0.05
*	16	PANC	HHZ	-0.00	
		PANC	HHE	0.00	
		PANC	HHN	-0.00	
		PANC	HNN		-0.01
		PANC	HNE		-0.02
		PANC	HNZ		0.02
*	17	SGRR	EHN	0.00	
		SGRR	EHE	-0.00	
		SGRR	EHZ	0.00	
		SGRR	HNE		0.04
		SGRR	HNN		-0.04
		SGRR	HNZ		0.06
*	18	ODSR	HHE	-0.00	
		ODSR	HHN	-0.00	
		ODSR	HHZ	-0.00	
		ODSR	HNN		-0.04
		ODSR	HNE		-0.04
		ODSR	HNZ		-0.03
*	19	BURAR	BHE	-0.00	
		BURAR	BHN	0.00	
		BURAR	BHZ	-0.00	
		BURAR	BHE		0.00
		BURAR	BHN		0.00
		BURAR	BHZ		0.00
*	20	TGSR	HHZ	0.01	
		TGSR	HHN	-0.01	

		TGSR	HHE	-0.01	
		TGSR	HNN		0.48
		TGSR	HNE		0.63
		TGSR	HNZ		0.48
*	21	PTSR	HHN	-0.00	
		PTSR	HHE	-0.00	
		PTSR	HHZ	-0.00	
		PTSR	HNZ		-0.01
		PTSR	HNN		0.01
		PTSR	HNE		-0.01
*	22	PLAR	EHZ	0.00	
		PLAR	EHN	-0.00	
		PLAR	EHE	-0.00	
		PLAR	HNE		-0.05
		PLAR	HNN		-0.08
		PLAR	HNZ		0.08
*	23	HERR	HHZ	0.00	
		HERR	HHN	-0.00	
		HERR	HHE	-0.00	
		HERR	HNZ		0.05
		HERR	HNN		0.05
		HERR	HNE		0.06
*	24	TGMR	HHN	0.00	
		TGMR	HHE	0.00	
		TGMR	HHZ	0.00	
		TGMR	HNZ		0.01
		TGMR	HNN		0.01
		TGMR	HNE		0.01
*	25	BOSR	HHZ	-0.00	
		BOSR	HHN	0.00	
		BOSR	HHE	-0.01	
*	26	LOT	HHZ	0.00	
		LOT	HHE	-0.00	
		LOT	HHN	0.00	
		LOT	HNZ		-0.06
		LOT	HNE		-0.06
		LOT	HNN		0.06
*	27	BUR01	HHE	-0.00	
		BUR01	HHN	-0.00	
		BUR01	HHZ	0.00	
		BUR01	HNE		0.00
		BUR01	HNN		0.00
		BUR01	HNZ		0.01
*	28	SULR	HHN	-0.00	
		SULR	HHE	0.00	
		SULR	HHZ	-0.00	
		SULR	HNE		-0.15
		SULR	HNN		0.18
		SULR	HNZ		0.11
*	29	GZR	HHE	-0.00	
		GZR	HHN	-0.00	
		GZR	HHZ	-0.00	
		GZR	HNE		-0.01
		GZR	HNN		-0.01
		GZR	HNZ		-0.01
*	30	PGOR	HHZ	0.00	
		PGOR	HHE	-0.00	
		PGOR	HHN	-0.00	
		PGOR	HNN		0.07
		PGOR	HNE		-0.06
		PGOR	HNZ		0.12
*	31	TNR	HHE	0.00	
		TNR	HHN	0.00	
		TNR	HHZ	0.00	

	TNR	HNE		-0.10
	TNR	HNN		-0.11
	TNR	HNZ		0.09
* 32	NGRR	HHN	-0.00	
	NGRR	HHE	-0.00	
	NGRR	HHZ	-0.00	
	NGRR	HNN		-0.05
	NGRR	HNE		-0.05
	NGRR	HNZ		0.02
* 33	NEHR	HHE	-0.00	
	NEHR	HHN	0.00	
	NEHR	HHZ	-0.00	
	NEHR	HNE		0.07
	NEHR	HNN		0.10
	NEHR	HNZ		-0.04
* 34	GRLR	HHN	-0.00	
	GRLR	HHE	0.00	
	GRLR	HHZ	-0.00	
	GRLR	HNE		0.02
	GRLR	HNN		-0.02
	GRLR	HNZ		-0.02
* 35	BUC	HNZ		0.14
	BUC	HNE		-0.05
	BUC	HNN		-0.06
* 36	SCTR	HHN	-0.00	
	SCTR	HHE	0.00	
	SCTR	HHZ	0.00	
	SCTR	HNZ		0.01
	SCTR	HNN		0.02
	SCTR	HNE		0.02
* 37	DRGR	HHZ	-0.00	
	DRGR	HHN	0.00	
	DRGR	HHE	-0.00	
	DRGR	HNE		0.49
	DRGR	HNN		0.33
	DRGR	HNZ		0.21
* 38	AMRR	HHZ	0.00	
	AMRR	HHE	-0.00	
	AMRR	HHN	-0.00	
	AMRR	HNZ		-0.08
	AMRR	HNN		0.04
	AMRR	HNE		0.07
* 39	SBDR	EHZ	0.00	
	SBDR	HNN		-0.03
	SBDR	HNE		-0.04
	SBDR	HNZ		0.02
* 40	MDB	HHZ	-0.00	
	MDB	HHE	0.00	
	MDB	HHN	0.00	
	MDB	HNE		0.01
	MDB	HNN		0.02
	MDB	HNZ		0.01
* 41	VASR	HHE	0.00	
	VASR	HHN	0.00	
	VASR	HHZ	-0.00	
	VASR	HNE		-0.04
	VASR	HNN		0.04
	VASR	HNZ		-0.03
* 42	STFAR	HHE	-0.00	
	STFAR	HHN	-0.00	
	STFAR	HHZ	0.00	
	STFAR	HNZ		0.06
	STFAR	HNE		-0.08
	STFAR	HNN		-0.10

*	43	ELND	HHE	0.00	
		ELND	HHN	0.00	
		ELND	HHZ	-0.00	
		ELND	HNN		0.11
		ELND	HNE		0.09
		ELND	HNZ		-0.07
*	44	CPSR	HHE	-0.00	
		CPSR	HHN	-0.00	
		CPSR	HHZ	-0.00	
*	45	IBZR	HHN	0.01	
		IBZR	HHE	-0.01	
		IBZR	HHZ	-0.00	
		IBZR	HNZ		-0.10
		IBZR	HNE		0.19
		IBZR	HNN		0.26
*	46	MTUR	EHZ	-0.00	
		MTUR	HNZ		0.05
		MTUR	HNE		0.07
		MTUR	HNN		0.08
*	47	ARR	HHZ	-0.00	
		ARR	HHE	0.00	
		ARR	HHN	0.00	
		ARR	HNZ		0.01
		ARR	HNE		-0.02
		ARR	HNN		0.03
*	48	BZS	HHZ	-0.00	
		BZS	HHE	-0.00	
		BZS	HHN	0.00	
		BZS	HNZ		-0.00
		BZS	HNN		0.02
		BZS	HNE		0.00
*	49	MFRD	HHZ	-0.00	
		MFRD	HHE	0.00	
		MFRD	HHN	-0.00	
		MFRD	HNZ		-0.07
		MFRD	HNN		-0.18
		MFRD	HNE		0.06
*	50	BMR	HHZ	0.00	
		BMR	HHE	0.00	
		BMR	HHN	-0.00	
		BMR	HNZ		-0.01
		BMR	HNN		0.01
		BMR	HNE		-0.01
*	51	TIRR	HHZ	0.00	
		TIRR	HHN	-0.00	
		TIRR	HHE	-0.00	
		TIRR	HNE		0.03
		TIRR	HNN		-0.04
		TIRR	HNZ		-0.03
*	52	VLAD	HHZ	0.00	
		VLAD	HHN	-0.00	
		VLAD	HHE	-0.00	
		VLAD	HNZ		0.05
		VLAD	HNN		-0.05
		VLAD	HNE		-0.10
*	53	PRAR	HHZ	0.00	
		PRAR	HHN	-0.00	
		PRAR	HHE	-0.00	
		PRAR	HNN		0.02
		PRAR	HNE		-0.01
		PRAR	HNZ		0.02
*	54	ZIMR	HHE	-0.00	
		ZIMR	HHN	0.00	
		ZIMR	HHZ	-0.00	

		ZIMR	HNN		0.03
		ZIMR	HNE		0.05
		ZIMR	HNZ		-0.07
*	55	HUMR	HHN	0.00	
		HUMR	HHE	0.00	
		HUMR	HHZ	-0.00	
		HUMR	HNZ		-0.10
		HUMR	HNN		-0.12
		HUMR	HNE		-0.15
*	56	BUC1	HHN	-0.00	
		BUC1	HHE	0.00	
		BUC1	HHZ	0.00	
		BUC1	HNZ		0.06
		BUC1	HNE		-0.07
		BUC1	HNN		-0.07
*	57	COPA	HHZ	-0.00	
		COPA	HHN	-0.03	
		COPA	HHE	0.00	
		COPA	HNE		-0.07
		COPA	HNN		0.07
		COPA	HNZ		0.05
*	58	CJR	HHZ	-0.00	
		CJR	HHN	0.00	
		CJR	HHE	-0.00	
		CJR	HNN		-0.01
		CJR	HNE		-0.01
		CJR	HNZ		0.01
*	59	VLDR	HHE	0.00	
		VLDR	HHN	0.00	
		VLDR	HHZ	-0.00	
		VLDR	HNE		-0.04
		VLDR	HNN		-0.06
		VLDR	HNZ		0.03
*	60	TPGR	HHN	-0.00	
		TPGR	HHE	0.00	
		TPGR	HHZ	-0.00	
		TPGR	HNZ		-0.03
		TPGR	HNE		-0.03
		TPGR	HNN		-0.03
*	61	BVPR	EHE	0.00	
		BVPR	EHN	0.00	
		BVPR	EHZ	0.00	
		BVPR	HNN		-0.03
		BVPR	HNE		-0.03
		BVPR	HNZ		0.02
*	62	VRI	HHZ	-0.00	
		VRI	HHN	0.00	
		VRI	HHE	-0.00	
		VRI	HNE		-0.03
		VRI	HNN		-0.02
		VRI	HNZ		0.01
*	63	TULR	HHN	0.00	
		TULR	HHE	-0.00	
		TULR	HHZ	0.00	
*	64	RAZG	HHN	-0.00	
		RAZG	HHE	-0.00	
		RAZG	HHZ	-0.00	
		RAZG	HNE		0.10
		RAZG	HNN		0.11
		RAZG	HNZ		0.06
*	65	DALR	HHZ	0.00	
		DALR	HHN	0.00	
		DALR	HHE	-0.00	
		DALR	HNE		-0.04

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      DALR    HNN                0.04
      DALR    HNZ               -0.03
*  66 CVSR    HHN        0.00
      CVSR    HHE       -0.00
      CVSR    HHZ        0.00
      CVSR    HNZ               -0.04
      CVSR    HNE               -0.02
      CVSR    HNN                0.04
```

* Associated RO stations: 66
Excluded stations:

Largest velocities (cm/sec) and accelerations (cm/sec**2)

Velocity	COPA_HHN	0.03
Acceleration	TGSR_HNE	0.63

Stations max. horizontal acceleration and MSK intensity

1	AMRR_HNE	0.07	-
2	ARR_HNN	0.03	-
3	BMR_HNE	0.01	-
4	BUC_HNN	0.06	-
5	BUC1_HNE	0.07	-
6	BUR01_HNE	0.00	
7	BURAR_HNE		
8	BVPR_HNE	0.03	-
9	BZS_HNN	0.02	-
10	CJR_HNE	0.01	-
11	COPA_HNE	0.07	-
12	CVSR_HNN	0.04	-
13	DALR_HNE	0.04	-
14	DEV_HNE	0.01	-
15	DOPR_HNN	0.10	-
16	DRGR_HNE	0.49	I
17	ELND_HNN	0.11	-
18	GRLR_HNE	0.02	-
19	GZR_HNE	0.01	-
20	HARR_HNE	0.05	-
21	HERR_HNE	0.06	-
22	HUMR_HNE	0.15	-
23	IBZR_HNN	0.26	I
24	ISR_HNE	0.05	-
25	KALB_HNE	0.00	
26	LOT_HNE	0.06	-
27	MARR_HNE	0.01	-
28	MDB_HNN	0.02	-
29	MFRD_HNN	0.18	-
30	MFTR_HNE	0.06	-
31	MLR_HNN	0.07	-
32	MTUR_HNN	0.08	-
33	NEHR_HNN	0.10	-
34	NGRR_HNE	0.05	-
35	ODSR_HNE	0.04	-
36	PANC_HNE	0.02	-
37	PGOR_HNN	0.07	-
38	PLAR_HNN	0.08	-
39	PLOR_HNN	0.03	-
40	PRAR_HNN	0.02	-

41	PTSR_HNE	0.01	-
42	RAZG_HNN	0.11	-
43	SBDR_HNE	0.04	-
44	SCTR_HNE	0.02	-
45	SGRR_HNE	0.04	-
46	SLPR_HNN	0.22	I
47	SRE_HNE	0.02	-
48	STFAR_HNN	0.10	-
49	SULR_HNN	0.18	-
50	TCAR_HNE	0.02	-
51	TESR_HNE	0.01	-
52	TGMR_HNE	0.01	-
53	TGSR_HNE	0.63	I
54	TIRR_HNN	0.04	-
55	TNR_HNN	0.11	-
56	TPGR_HNE	0.03	-
57	VASR_HNE	0.04	-
58	VLAD_HNE	0.10	-
59	VLDR_HNN	0.06	-
60	VRI_HNE	0.03	-
61	ZIMR_HNE	0.05	-

Observed stations accelerations – Antelope platform (cm/sec**2)

Maximum observed acceleration: TGSR_HNE 0.63

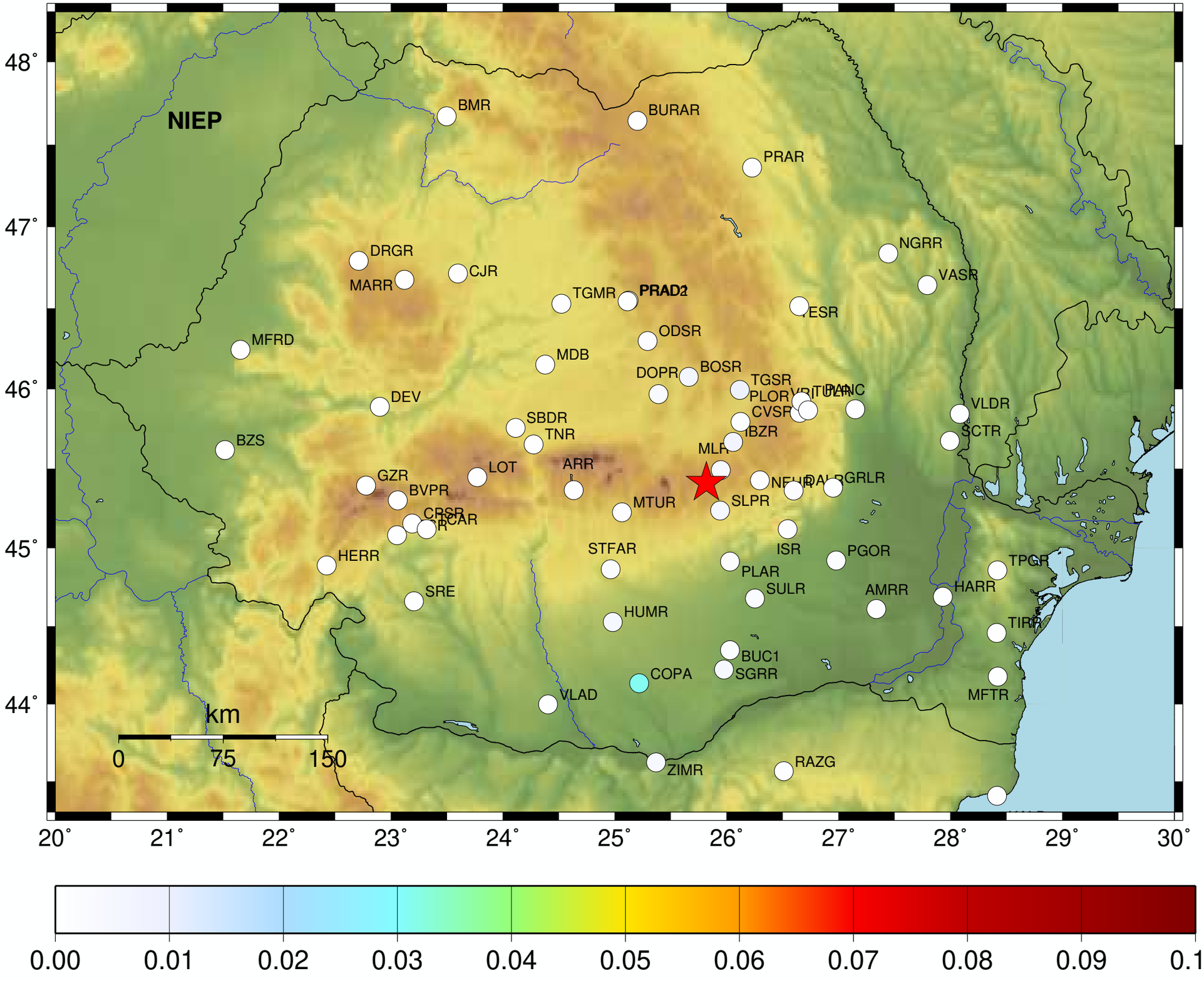
Tue Dec 23, 2025 21:43:12 GMT ML 3.7 Mb N45.41 E25.82 Depth: 66.0km ID:23214312

Station	Dist.(km)	Acc.
TGSR	68	0.63
DRGR	284	0.49
IBZR	34	0.26
SLPR	21	0.22
MFRD	335	0.18
SULR	88	0.18
HUMR	118	0.15
BUC	113	0.14
PGOR	106	0.12
TNR	123	0.11
RAZG	212	0.11
DOPR	70	0.10
VLAD	192	0.10
NEHR	37	0.10
STFAR	90	0.10
AMRR	148	0.08
PLAR	57	0.08
MTUR	62	0.08
ZIMR	202	0.07
MLR	13	0.07
BUC1	119	0.07
COPA	149	0.07
VLDR	182	0.06
MFTR	247	0.06
HERR	272	0.06
LOT	159	0.06
SGRR	132	0.06
NGRR	201	0.05
HARR	184	0.05
ISR	65	0.05
VASR	204	0.04
SBDR	138	0.04
ODSR	106	0.04
DALR	61	0.04

Observed stations velocities – Antelope platform (cm/sec)

Maximum observed velocity: COPA_HHN 0.03

Tue Dec 23, 2025 21:43:12 GMT ML 3.7 Mb N45.41 E25.82 Depth: 66.0km ID:23214312

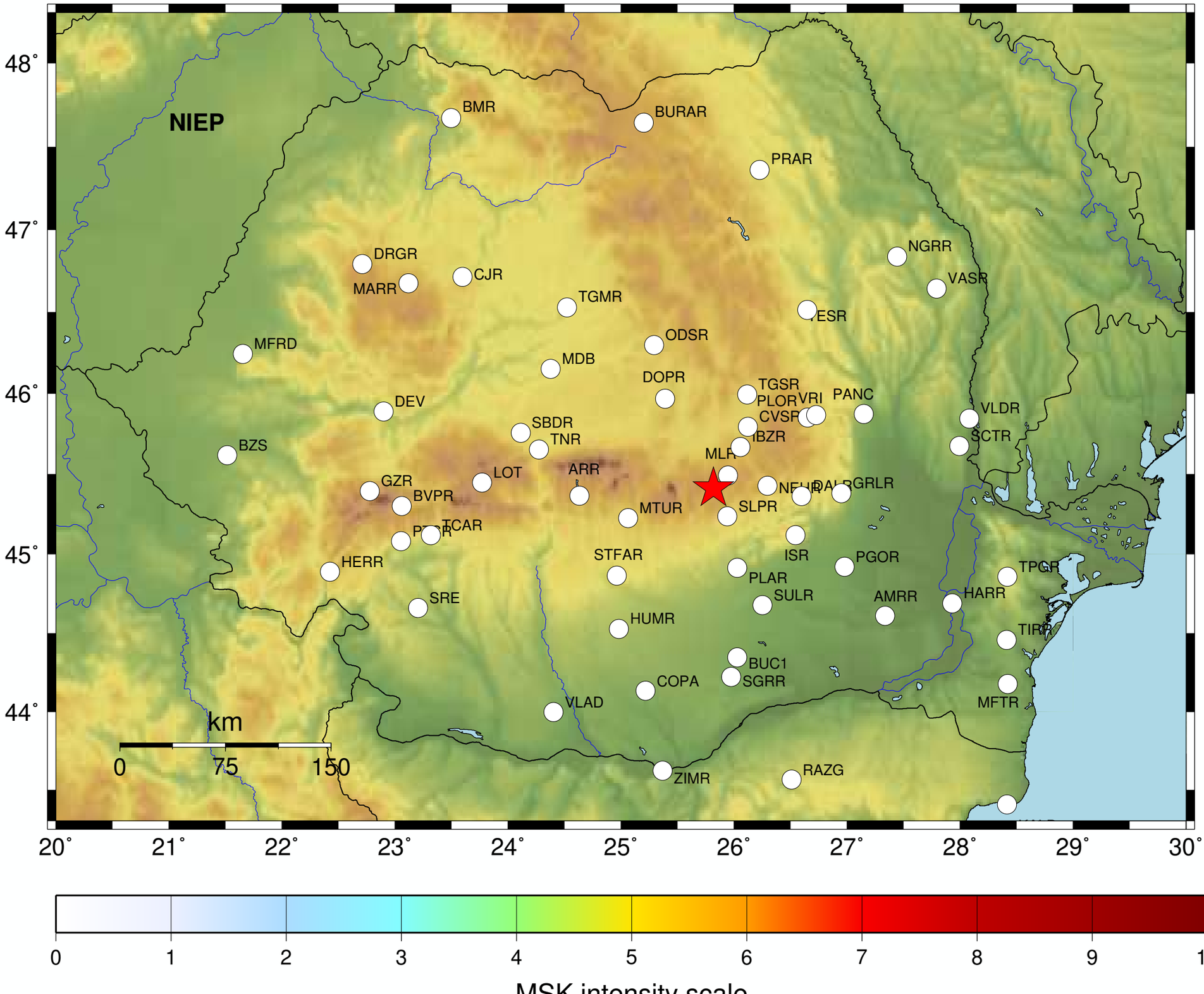


Station	Dist.(km)	Velocity
COPA	149	0.03
TGSR	68	0.01
IBZR	34	0.01
BOSR	74	0.01
SGRR	132	0.00
SLPR	21	0.00
ZIMR	202	0.00
HUMR	118	0.00
MLR	13	0.00
DOPR	70	0.00
STFAR	90	0.00
SULR	88	0.00
DALR	61	0.00
BUC1	119	0.00
PGOR	106	0.00
PLAR	57	0.00
ODSR	106	0.00
RAZG	212	0.00
VLDR	182	0.00
CVSR	48	0.00
AMRR	148	0.00
VRI	86	0.00
MTUR	62	0.00
NGRR	201	0.00
ARR	92	0.00
ISR	65	0.00
VASR	204	0.00
TULR	86	0.00
MFTR	247	0.00
PTSR	219	0.00
GRLR	88	0.00
VLAD	192	0.00
PLOR	81	0.00
HARR	184	0.00

Stations intensities

Maximum intensity: TGSR

Tue Dec 23, 2025 21:43:12 GMT ML 3.7 Mb N45.41 E25.82 Depth: 66.0km ID:23214312



Station	Dist.(km)	Imsk
TGSR	69	I
SLPR	22	I
IBZR	34	I
DRGR	284	I
ZIMR	198	–
VRI	87	–
VLDR	182	–
VLAD	193	–
VASR	205	–
TPGR	213	–
TNR	123	–
TIRR	230	–
TGMR	160	–
TESR	138	–
TCAR	199	–
SULR	88	–
STFAR	91	–
SRE	222	–
SGRR	133	–
SCTR	172	–
SBDR	138	–
RAZG	212	–
PTSR	220	–
PRAR	218	–
PLOR	81	–
PLAR	58	–
PGOR	106	–
PANC	115	–
ODSR	107	–
NGRR	202	–
NEHR	37	–
MTUR	61	–
MLR	13	–
MFTR	247	–
MFRD	336	–
MDB	139	–