

Antelope - associated stations measurements on atlas24 ronet database

UKRAINE-MOLDOVA-SW RUSSIA REGION - evid 20003543

Date	Time	Lat	Lon	Depth	ml	mb	orid
2025/10/20	00:35:43.939	45.347	28.031	7.9	3.3		43
Sta	Chan	PGV	PGA				
* 1	CRCR EHZ	-0.00					
	CRCR EHE	-0.00					
	CRCR EHN	-0.00					
	CRCR HNN		-0.02				
	CRCR HNE		0.01				
	CRCR HNZ		-0.01				
* 2	VARL HHZ	0.00					
	VARL HHE	0.00					
	VARL HHN	-0.00					
	VARL HNN		0.12				
	VARL HNE		-0.15				
	VARL HNZ		-0.17				
* 3	GIRR HHN	-0.00					
	GIRR HHZ	0.00					
	GIRR HHE	0.00					
	GIRR HNN		0.04				
	GIRR HNE		0.04				
	GIRR HNZ		0.02				
* 4	CVDA EHN	0.00					
	CVDA EHZ	-0.00					
	CVDA EHE	-0.00					
	CVDA HNN		-0.07				
	CVDA HNZ		-0.09				
	CVDA HNE		0.07				
* 5	BURAR BHZ	-0.00					
	BURAR BHE	-0.00					
	BURAR BHN	0.00					
	BURAR BHE		0.00				
	BURAR BHZ		0.00				
	BURAR BHN		0.00				
* 6	NGRR HHN	0.00					
	NGRR HHZ	-0.00					
	NGRR HHE	0.00					
	NGRR HNZ		0.07				
	NGRR HNE		-0.11				
	NGRR HNN		0.09				
* 7	LEOM HHE	-0.00					
	LEOM HHZ	0.00					
	LEOM HHN	-0.00					
	LEOM HNN		-0.16				
	LEOM HNZ		0.14				
	LEOM HNE		0.20				
* 8	SGRR EHN	-0.00					
	SGRR EHE	0.00					
	SGRR EHZ	0.00					
	SGRR HNN		0.03				

		SGRR	HNE		0.03
		SGRR	HNZ		-0.03
*	9	ONER	HHN	0.00	
		ONER	HHZ	0.00	
		ONER	HHE	0.00	
		ONER	HNE		-0.05
		ONER	HNZ		-0.03
		ONER	HNN		0.05
*	10	LEHL	HHZ	0.00	
		LEHL	HHE	-0.00	
		LEHL	HHN	-0.00	
		LEHL	HNE		-0.14
		LEHL	HNZ		-0.07
		LEHL	HNN		0.10
*	11	MARR	HHE	-0.00	
		MARR	HHZ	0.00	
		MARR	HHN	0.00	
		MARR	HNE		0.00
		MARR	HNZ		-0.00
		MARR	HNN		0.00
*	12	TSMN	EHN	0.00	
		TSMN	EHE	-0.00	
		TSMN	EHZ	-0.00	
		TSMN	HNE		-0.03
		TSMN	HNZ		0.03
		TSMN	HNN		-0.02
*	13	BUC1	HHE	-0.00	
		BUC1	HHZ	0.00	
		BUC1	HHN	0.00	
		BUC1	HNN		-0.05
		BUC1	HNE		0.02
		BUC1	HNZ		-0.02
*	14	SCHL	HHN	0.01	
		SCHL	HHE	-0.01	
		SCHL	HHZ	-0.02	
		SCHL	HNN		-0.39
		SCHL	HNE		0.35
		SCHL	HNZ		1.31
*	15	MLR	HHN	-0.00	
		MLR	HHE	-0.00	
		MLR	HHZ	0.00	
		MLR	HNZ		0.00
		MLR	HNE		0.00
		MLR	HNN		0.00
*	16	TPGR	HHE	-0.00	
		TPGR	HHZ	-0.00	
		TPGR	HHN	-0.00	
		TPGR	HNZ		-0.10
		TPGR	HNE		-0.14
		TPGR	HNN		-0.11
*	17	TULR	HHZ	-0.00	
		TULR	HHE	-0.00	
		TULR	HHN	-0.00	
*	18	HARR	HHE	-0.00	
		HARR	HHZ	-0.00	
		HARR	HHN	0.00	
		HARR	HNE		-0.11
		HARR	HNZ		-0.10
		HARR	HNN		-0.09
*	19	CHLR	HHE	0.00	
		CHLR	HHZ	0.00	
		CHLR	HHN	-0.00	
		CHLR	HNN		0.10
		CHLR	HNZ		-0.18

		CHLR	HNE		-0.08
*	20	BISRR	HHN	0.00	
		BISRR	HHZ	0.00	
		BISRR	HHE	-0.01	
		BISRR	HNZ		-0.04
		BISRR	HNE		0.02
		BISRR	HNN		0.08
*	21	GRLR	HHN	0.00	
		GRLR	HHE	-0.00	
		GRLR	HHZ	-0.00	
		GRLR	HNZ		0.04
		GRLR	HNE		0.05
		GRLR	HNN		-0.06
*	22	GIUM	EHE	0.01	
		GIUM	EHZ	0.00	
		GIUM	EHN	-0.01	
		GIUM	HNN		-0.52
		GIUM	HNZ		-0.27
		GIUM	HNE		0.66
*	23	MFTR	HHN	0.00	
		MFTR	HHE	0.00	
		MFTR	HHZ	0.00	
		MFTR	HNN		0.08
		MFTR	HNZ		0.07
		MFTR	HNE		-0.08
*	24	ICOR	HHE	0.00	
		ICOR	HHZ	0.00	
		ICOR	HHN	0.00	
		ICOR	HNE		0.08
		ICOR	HNZ		-0.06
		ICOR	HNN		0.05
*	25	DRGR	HHE	-0.00	
		DRGR	HHZ	-0.00	
		DRGR	HHN	-0.00	
		DRGR	HNZ		1.00
		DRGR	HNE		-0.95
		DRGR	HNN		0.66
*	26	SCTR	HHN	0.00	
		SCTR	HHE	0.00	
		SCTR	HHZ	-0.00	
		SCTR	HNZ		-0.15
		SCTR	HNE		-0.12
		SCTR	HNN		0.15
*	27	IASR	HHN	0.00	
		IASR	HHE	-0.00	
		IASR	HHZ	-0.00	
		IASR	HNN		0.04
		IASR	HNZ		0.04
		IASR	HNE		-0.04
*	28	HERR	HHZ	0.00	
		HERR	HHE	0.00	
		HERR	HHN	-0.00	
		HERR	HNN		-0.06
		HERR	HNE		0.04
		HERR	HNZ		0.02
*	29	VASR	HHE	0.00	
		VASR	HHZ	-0.00	
		VASR	HHN	0.00	
		VASR	HNZ		0.14
		VASR	HNE		-0.09
		VASR	HNN		0.10
*	30	EFOR	HHE	-0.00	
		EFOR	HHZ	0.00	
		EFOR	HHN	0.00	

		EFOR	HNN		0.10
		EFOR	HNZ		-0.07
		EFOR	HNE		-0.10
*	31	TIRR	HHZ	0.00	
		TIRR	HHE	-0.00	
		TIRR	HHN	0.00	
		TIRR	HNZ		0.04
		TIRR	HNE		0.04
		TIRR	HNN		-0.06
*	32	NARR	HHZ	-0.00	
		NARR	HHE	0.00	
		NARR	HHN	-0.00	
*	33	PGOR	HHE	-0.00	
		PGOR	HHZ	0.00	
		PGOR	HHN	0.00	
		PGOR	HNN		0.09
		PGOR	HNE		0.06
		PGOR	HNZ		-0.15
*	34	SLPR	EHN	0.00	
		SLPR	EHE	0.00	
		SLPR	EHZ	-0.00	
		SLPR	HNN		0.01
		SLPR	HNZ		-0.01
		SLPR	HNE		0.01
*	35	PLOR	HHN	0.00	
		PLOR	HHZ	-0.00	
		PLOR	HHE	0.00	
		PLOR	HNE		0.01
		PLOR	HNZ		0.01
		PLOR	HNN		0.01
*	36	IBZR	HHZ	0.00	
		IBZR	HHE	-0.00	
		IBZR	HHN	-0.00	
		IBZR	HNN		0.03
		IBZR	HNZ		-0.01
		IBZR	HNE		0.02
*	37	CFR	HHN	-0.03	
		CFR	HHZ	-0.01	
		CFR	HHE	0.02	
		CFR	HNZ		0.97
		CFR	HNE		1.53
		CFR	HNN		-1.80
*	38	COPA	HHZ	0.00	
		COPA	HHE	0.00	
		COPA	HHN	-0.00	
		COPA	HNN		-0.02
		COPA	HNE		-0.02
		COPA	HNZ		-0.01
*	39	ARR	HHN	0.00	
		ARR	HHZ	-0.00	
		ARR	HHE	-0.00	
		ARR	HNE		0.00
		ARR	HNZ		0.00
		ARR	HNN		-0.01
*	40	TSCT	EHN	0.00	
		TSCT	EHZ	-0.00	
		TSCT	EHE	-0.00	
		TSCT	HNN		-0.05
		TSCT	HNZ		-0.04
		TSCT	HNE		0.05
*	41	ISR	HHN	0.00	
		ISR	HHZ	-0.00	
		ISR	HHE	-0.00	
		ISR	HNE		-0.06

		ISR	HNZ		0.03
		ISR	HNN		-0.07
*	42	VRI	HHN	0.00	
		VRI	HHE	0.00	
		VRI	HHZ	-0.00	
		VRI	HNN		0.01
		VRI	HNZ		0.01
		VRI	HNE		0.02
*	43	AMRR	HHZ	-0.00	
		AMRR	HHE	-0.00	
		AMRR	HHN	-0.00	
		AMRR	HNZ		-0.10
		AMRR	HNE		0.06
		AMRR	HNN		0.05
*	44	HUMR	HHE	0.00	
		HUMR	HHZ	-0.00	
		HUMR	HHN	0.00	
		HUMR	HNZ		0.03
		HUMR	HNE		0.04
		HUMR	HNN		-0.04
*	45	TLCR	HHE	0.00	
		TLCR	HHZ	0.00	
		TLCR	HHN	-0.00	
		TLCR	HNE		-0.04
		TLCR	HNZ		-0.05
		TLCR	HNN		0.06
*	46	PANC	HHE	0.00	
		PANC	HHZ	-0.00	
		PANC	HHN	0.00	
		PANC	HNN		0.08
		PANC	HNZ		0.05
		PANC	HNE		-0.07
*	47	DOPR	HHE	0.00	
		DOPR	HHZ	0.00	
		DOPR	HHN	-0.00	
		DOPR	HNN		0.00
		DOPR	HNZ		0.00
		DOPR	HNE		0.01
*	48	BIR	HHN	-0.00	
		BIR	HHE	-0.00	
		BIR	HHZ	0.00	
		BIR	HNZ		-0.08
		BIR	HNE		-0.13
		BIR	HNN		0.11
*	49	MANR	HHE	0.00	
		MANR	HHZ	-0.00	
		MANR	HHN	-0.00	
		MANR	HNN		0.15
		MANR	HNE		0.11
		MANR	HNZ		-0.07
*	50	TUDR	HHN	-0.03	
		TUDR	HHZ	0.04	
		TUDR	HHE	0.02	
		TUDR	HNE		-0.53
		TUDR	HNZ		2.63
		TUDR	HNN		1.00
*	51	NEGRR	HHN	0.01	
		NEGRR	HHE	0.01	
		NEGRR	HHZ	-0.01	
		NEGRR	HNE		0.17
		NEGRR	HNZ		-0.19
		NEGRR	HNN		-0.16
*	52	CVSR	HHE	-0.00	
		CVSR	HHZ	0.00	

	CVSR	HHN	0.00	
	CVSR	HNN		0.01
	CVSR	HNZ		0.01
	CVSR	HNE		0.01
* 53	SULR	HHN	0.00	
	SULR	HHZ	0.00	
	SULR	HHE	0.00	
	SULR	HNN		0.08
	SULR	HNE		-0.05
	SULR	HNZ		0.04
* 54	TESR	HHN	-0.00	
	TESR	HHE	0.00	
	TESR	HHZ	-0.00	
	TESR	HNN		-0.01
	TESR	HNZ		0.01
	TESR	HNE		-0.01
* 55	DALR	HHZ	-0.00	
	DALR	HHE	0.00	
	DALR	HHN	-0.00	
	DALR	HNE		0.02
	DALR	HNZ		-0.01
	DALR	HNN		-0.02

* Associated RO stations: 55
Excluded stations:

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

Velocity	TUDR_HHZ	0.04
Acceleration	TUDR_HNZ	2.63
Horizontal acc.	CFR_HNN	1.80

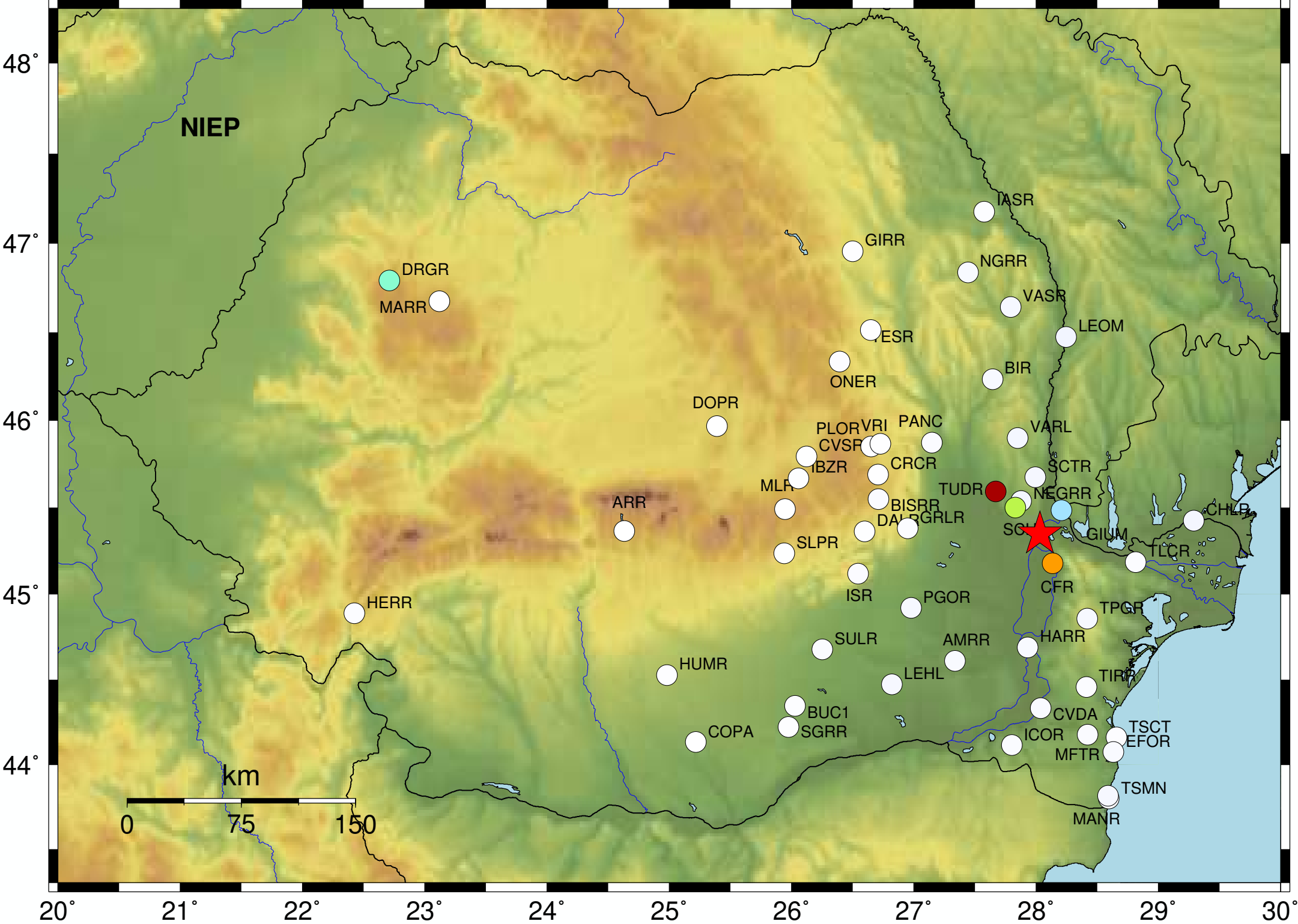
Stations max. horizontal acceleration and MSK intensity

1	AMRR_HNE	0.06	-
2	ARR_HNN	0.01	-
3	BIR_HNE	0.13	-
4	BISRR_HNN	0.08	-
5	BUC1_HNN	0.05	-
6	BURAR_HNE		
7	CFR_HNN	1.80	II
8	CHLR_HNN	0.10	-
9	COPA_HNE	0.02	-
10	CRCR_HNN	0.02	-
11	CVDA_HNE	0.07	-
12	CVSR_HNE	0.01	-
13	DALR_HNE	0.02	-
14	DOPR_HNE	0.01	-
15	DRGR_HNE	0.95	II
16	EFOR_HNE	0.10	-
17	GIRR_HNE	0.04	-
18	GIUM_HNE	0.66	I
19	GRLR_HNN	0.06	-
20	HARR_HNE	0.11	-
21	HERR_HNN	0.06	-
22	HUMR_HNE	0.04	-
23	IASR_HNE	0.04	-
24	IBZR_HNN	0.03	-
25	ICOR_HNE	0.08	-
26	ISR_HNN	0.07	-

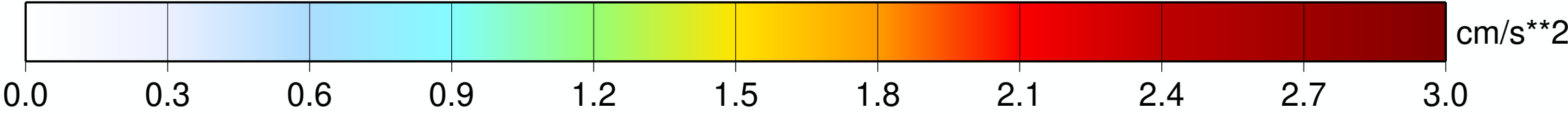
27	LEHL_HNE	0.14	-
28	LEOM_HNE	0.20	-
29	MANR_HNN	0.15	-
30	MARR_HNE	0.00	
31	MFTR_HNE	0.08	-
32	MLR_HNE	0.00	
33	NEGRR_HNE	0.17	-
34	NGRR_HNE	0.11	-
35	ONER_HNE	0.05	-
36	PANC_HNN	0.08	-
37	PGOR_HNN	0.09	-
38	PLOR_HNE	0.01	-
39	SCHL_HNN	0.39	I
40	SCTR_HNN	0.15	-
41	SGRR_HNE	0.03	-
42	SLPR_HNE	0.01	-
43	SULR_HNN	0.08	-
44	TESR_HNE	0.01	-
45	TIRR_HNN	0.06	-
46	TLCR_HNN	0.06	-
47	TPGR_HNE	0.14	-
48	TSCT_HNE	0.05	-
49	TSMN_HNE	0.03	-
50	TUDR_HNN	1.00	II
51	VARL_HNE	0.15	-
52	VASR_HNN	0.10	-
53	VRI_HNE	0.02	-

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

Maximum observed acceleration: TUDR_HNZ 2.63
Mon Oct 20, 2025 00:35:43 GMT ML 3.3 Mb N45.35 E28.03 Depth: 7.9km ID:20003543

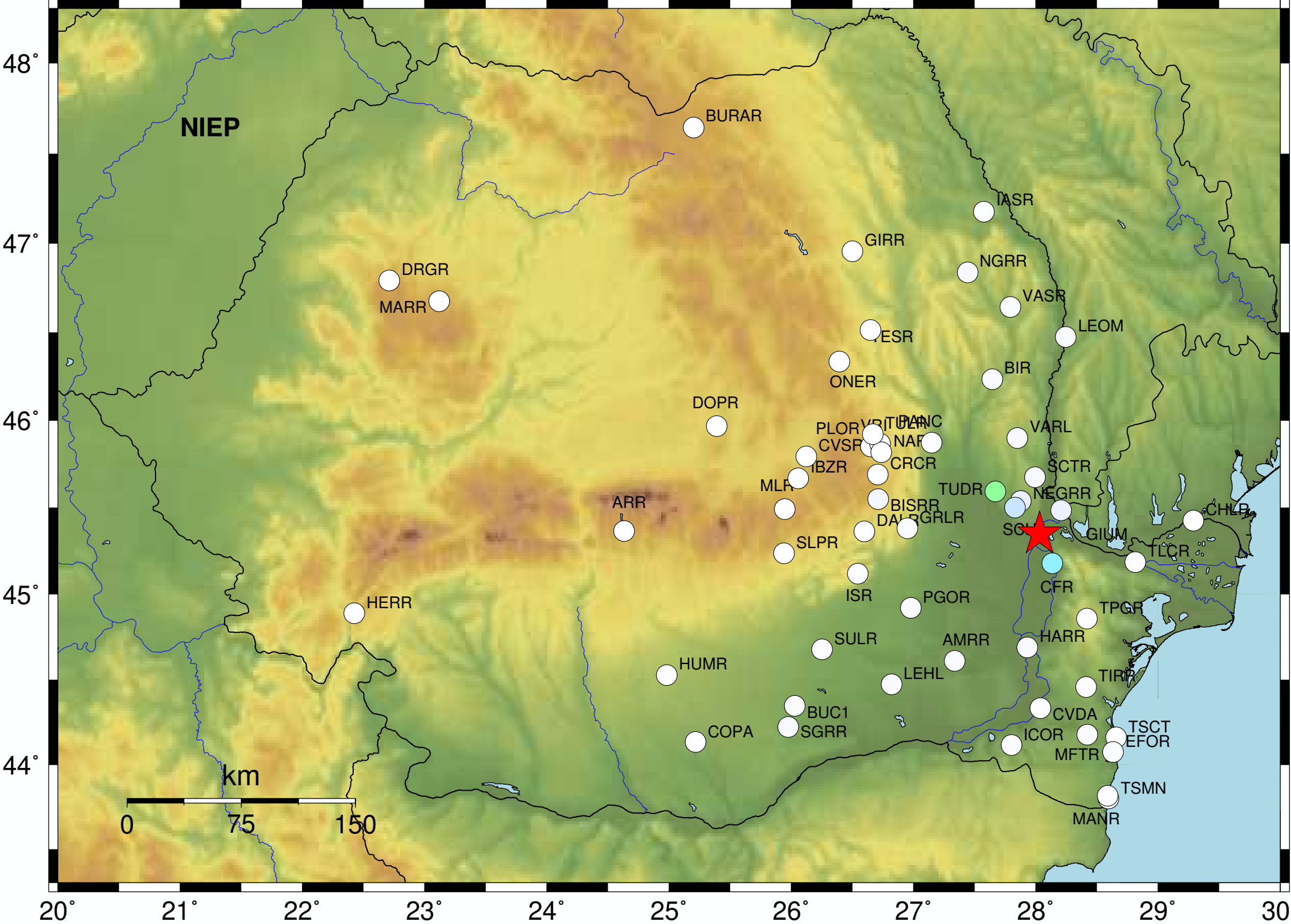


Station	Dist.(km)	Acc.
TUDR	39	2.63
CFR	20	1.80
SCHL	23	1.31
DRGR	440	1.00
GIUM	20	0.66
LEOM	126	0.20
NEGRR	24	0.19
CHLR	98	0.18
VARL	63	0.17
SCTR	36	0.15
MANR	175	0.15
PGOR	95	0.15
LEHL	136	0.14
TPGR	62	0.14
VASR	145	0.14
BIR	103	0.13
HARR	73	0.11
NGRR	171	0.11
AMRR	98	0.10
EFOR	149	0.10
CVDA	112	0.09
ICOR	137	0.08
PANC	90	0.08
BISRR	105	0.08
MFTR	133	0.08
SULR	158	0.08
ISR	119	0.07
GRLR	84	0.06
HERR	442	0.06
TIRR	103	0.06
TLCR	63	0.06
TSCT	140	0.05
ONER	167	0.05
BUC1	193	0.05
IASR	206	0.04

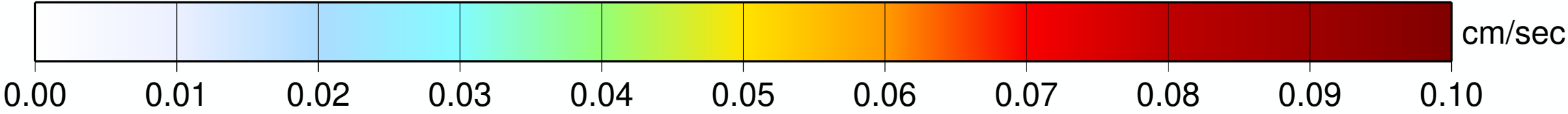


Observed stations velocities – Antelope platform (cm/sec)

Maximum observed velocity: TUDR_HHZ 0.04
Mon Oct 20, 2025 00:35:43 GMT ML 3.3 Mb N45.35 E28.03 Depth: 7.9km ID:20003543



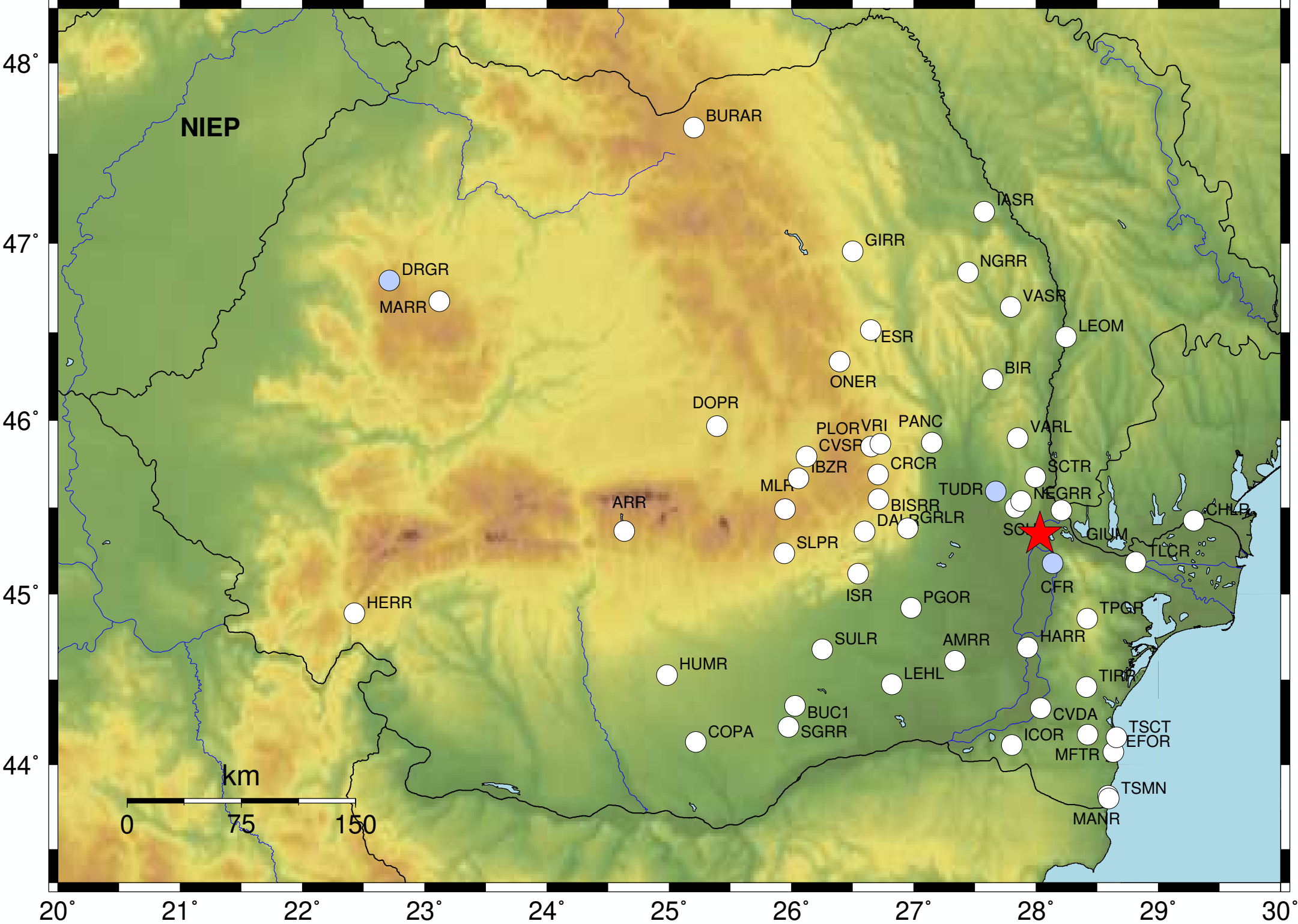
Station	Dist.(km)	Velocity
TUDR	39	0.04
CFR	20	0.03
SCHL	23	0.02
GIUM	20	0.01
NEGRR	24	0.01
BISRR	105	0.01
SCTR	36	0.00
SGRR	204	0.00
HARR	73	0.00
NGRR	171	0.00
LEHL	136	0.00
VARL	63	0.00
LEOM	126	0.00
BIR	103	0.00
VASR	145	0.00
AMRR	98	0.00
ICOR	137	0.00
MFTR	133	0.00
PGOR	95	0.00
ISR	119	0.00
MANR	175	0.00
EFOR	149	0.00
GRLR	84	0.00
TPGR	62	0.00
BUC1	193	0.00
SULR	158	0.00
IASR	206	0.00
CVDA	112	0.00
PANC	90	0.00
TLCR	63	0.00
TSCT	140	0.00
COPA	259	0.00
DALR	112	0.00
HUMR	256	0.00
IBZR	157	0.00



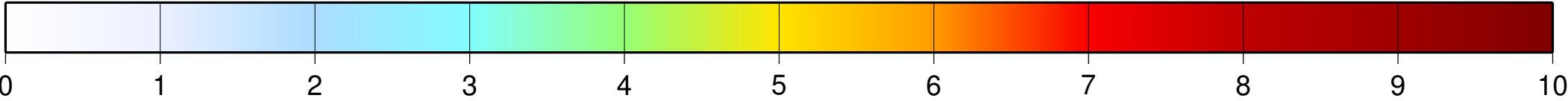
Stations intensities

Maximum intensity: CFR

Mon Oct 20, 2025 00:35:43 GMT ML 3.3 Mb N45.35 E28.03 Depth: 7.9km ID:20003543



Station	Dist.(km)	Imsk
TUDR	39	II
DRGR	441	II
CFR	21	II
SCHL	23	I
GIUM	21	I
VRI	117	-
VASR	145	-
VARL	63	-
TSMN	178	-
TSCT	141	-
TPGR	62	-
TLCR	64	-
TIRR	103	-
TESR	168	-
SULR	158	-
SLPR	164	-
SGRR	205	-
SCTR	36	-
PLOR	121	-
PGOR	95	-
PANC	90	-
ONER	168	-
NGRR	172	-
NEGRR	24	-
MFTR	134	-
MANR	176	-
LEOM	126	-
LEHL	136	-
ISR	119	-
ICOR	138	-
IBZR	158	-
IASR	207	-
HUMR	257	-
HERR	444	-
HARR	74	-
GRLR	85	-



MSK intensity scale