

Antelope - associated stations measurements on atlas2 ronet database

NEAR EAST COAST OF HONSHU, JAPAN - evid 39363

| Date       | Time         | Lat    | Lon     | Depth  | ml | mb   | orid  |
|------------|--------------|--------|---------|--------|----|------|-------|
| 2019/08/04 | 10:23:10.086 | 38.293 | 141.128 | 50.0   |    | 6.57 | 39624 |
| Sta        | Chan         | PGV    | PGA     |        |    |      |       |
| * 1        | CFR          | HHE    | 0.000   |        |    |      |       |
|            | CFR          | HHZ    | 0.000   |        |    |      |       |
|            | CFR          | HHN    | -0.000  |        |    |      |       |
|            | CFR          | HNZ    |         | -0.003 |    |      |       |
|            | CFR          | HNE    |         | 0.002  |    |      |       |
|            | CFR          | HNN    |         | -0.004 |    |      |       |
| * 2        | VARL         | EHN    | 0.000   |        |    |      |       |
|            | VARL         | HNE    |         | 0.009  |    |      |       |
|            | VARL         | HNN    |         | 0.000  |    |      |       |
| * 3        | NEGRR        | HHE    | 0.001   |        |    |      |       |
|            | NEGRR        | HHZ    | 0.001   |        |    |      |       |
|            | NEGRR        | HHN    | -0.001  |        |    |      |       |
|            | NEGRR        | HNZ    |         | -0.003 |    |      |       |
|            | NEGRR        | HNE    |         | -0.002 |    |      |       |
|            | NEGRR        | HNN    |         | -0.002 |    |      |       |
| * 4        | ODBI         | EHE    | 0.000   |        |    |      |       |
|            | ODBI         | EHN    | 0.000   |        |    |      |       |
|            | ODBI         | EHZ    | 0.000   |        |    |      |       |
|            | ODBI         | HNZ    |         | 0.011  |    |      |       |
|            | ODBI         | HNE    |         | 0.011  |    |      |       |
|            | ODBI         | HNN    |         | -0.014 |    |      |       |
| * 5        | GIUM         | EHN    | -0.000  |        |    |      |       |
| * 6        | PANC         | HHE    | 0.001   |        |    |      |       |
|            | PANC         | HHZ    | 0.001   |        |    |      |       |
|            | PANC         | HHN    | -0.001  |        |    |      |       |
|            | PANC         | HNZ    |         | -0.014 |    |      |       |
|            | PANC         | HNE    |         | 0.024  |    |      |       |
|            | PANC         | HNN    |         | 0.032  |    |      |       |
| * 7        | TLBR         | HHE    | -0.000  |        |    |      |       |
|            | TLBR         | HHZ    | -0.000  |        |    |      |       |
|            | TLBR         | HHN    | -0.000  |        |    |      |       |
|            | TLBR         | HNZ    |         | -0.023 |    |      |       |
|            | TLBR         | HNE    |         | -0.012 |    |      |       |
|            | TLBR         | HNN    |         | -0.017 |    |      |       |
| * 8        | SCTR         | HHE    | 0.001   |        |    |      |       |
|            | SCTR         | HHZ    | 0.000   |        |    |      |       |
|            | SCTR         | HHN    | 0.001   |        |    |      |       |
|            | SCTR         | HNE    |         | 0.000  |    |      |       |
| * 9        | TURR         | HHZ    | -0.001  |        |    |      |       |
|            | TURR         | HHN    | -0.001  |        |    |      |       |
| * 10       | BIR          | EHE    | 0.004   |        |    |      |       |
|            | BIR          | EHN    | 0.000   |        |    |      |       |
|            | BIR          | EHZ    | 0.001   |        |    |      |       |
|            | BIR          | HNZ    |         | -0.133 |    |      |       |
|            | BIR          | HNE    |         | -0.429 |    |      |       |
|            | BIR          | HNN    |         | -0.392 |    |      |       |
| * 11       | GHRR         | HHE    | 0.002   |        |    |      |       |
|            | GHRR         | HHZ    | -0.001  |        |    |      |       |

|   |    |       |     |        |        |
|---|----|-------|-----|--------|--------|
|   |    | GHRR  | HHN | -0.001 |        |
|   |    | GHRR  | HNZ |        | -0.066 |
|   |    | GHRR  | HNE |        | -0.124 |
|   |    | GHRR  | HNN |        | -0.134 |
| * | 12 | TLCR  | EHN | -0.000 |        |
|   |    | TLCR  | HNZ |        | -0.007 |
| * | 13 | PLOR  | HHE | -0.000 |        |
|   |    | PLOR  | HHZ | -0.001 |        |
|   |    | PLOR  | HHN | 0.000  |        |
|   |    | PLOR  | HNZ |        | -0.010 |
|   |    | PLOR  | HNE |        | 0.004  |
|   |    | PLOR  | HNN |        | -0.003 |
| * | 14 | TATR  | HHE | 0.001  |        |
|   |    | TATR  | HHZ | -0.001 |        |
|   |    | TATR  | HHN | 0.003  |        |
|   |    | TATR  | HNZ |        | 0.021  |
|   |    | TATR  | HNE |        | -0.006 |
|   |    | TATR  | HNN |        | 0.020  |
| * | 15 | SCHLR | HHE | 0.001  |        |
|   |    | SCHLR | HHZ | -0.001 |        |
|   |    | SCHLR | HHN | -0.003 |        |
|   |    | SCHLR | HNZ |        | -0.003 |
|   |    | SCHLR | HNE |        | -0.003 |
|   |    | SCHLR | HNN |        | 0.002  |
| * | 16 | OZUR  | HHE | 0.003  |        |
|   |    | OZUR  | HHZ | 0.002  |        |
|   |    | OZUR  | HHN | 0.002  |        |
|   |    | OZUR  | HNN |        | 0.000  |
| * | 17 | SCHL  | HHE | -0.000 |        |
|   |    | SCHL  | HHZ | 0.000  |        |
|   |    | SCHL  | HHN | 0.000  |        |
|   |    | SCHL  | HNZ |        | -0.009 |
|   |    | SCHL  | HNE |        | -0.009 |
|   |    | SCHL  | HNN |        | 0.007  |
| * | 18 | TUDR  | HHE | 0.001  |        |
|   |    | TUDR  | HHZ | -0.001 |        |
|   |    | TUDR  | HHN | -0.001 |        |
|   |    | TUDR  | HNZ |        | -0.015 |
|   |    | TUDR  | HNE |        | -0.007 |
|   |    | TUDR  | HNN |        | -0.006 |
| * | 19 | IZVR  | HHE | -0.001 |        |
|   |    | IZVR  | HHZ | -0.001 |        |
|   |    | IZVR  | HHN | -0.001 |        |
|   |    | IZVR  | HNZ |        | -0.005 |
|   |    | IZVR  | HNE |        | -0.002 |
|   |    | IZVR  | HNN |        | -0.002 |
| * | 20 | ONER  | HHE | 0.001  |        |
|   |    | ONER  | HHZ | 0.001  |        |
|   |    | ONER  | HHN | 0.001  |        |
|   |    | ONER  | HNZ |        | 0.060  |
|   |    | ONER  | HNE |        | 0.076  |
|   |    | ONER  | HNN |        | -0.057 |
| * | 21 | EFOR  | HHE | -0.001 |        |
|   |    | EFOR  | HNZ |        | -0.048 |
|   |    | EFOR  | HNN |        | -0.052 |
| * | 22 | VLDR  | HHZ | -0.002 |        |
|   |    | VLDR  | HNZ |        | -0.022 |
|   |    | VLDR  | HNN |        | 0.000  |
| * | 23 | VRI   | HHE | 0.000  |        |
|   |    | VRI   | HHZ | 0.001  |        |
|   |    | VRI   | HHN | 0.000  |        |
|   |    | VRI   | HNZ |        | 0.003  |
|   |    | VRI   | HNE |        | -0.006 |
|   |    | VRI   | HNN |        | -0.003 |

\* Associated RO stations: 26  
Excluded stations:

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

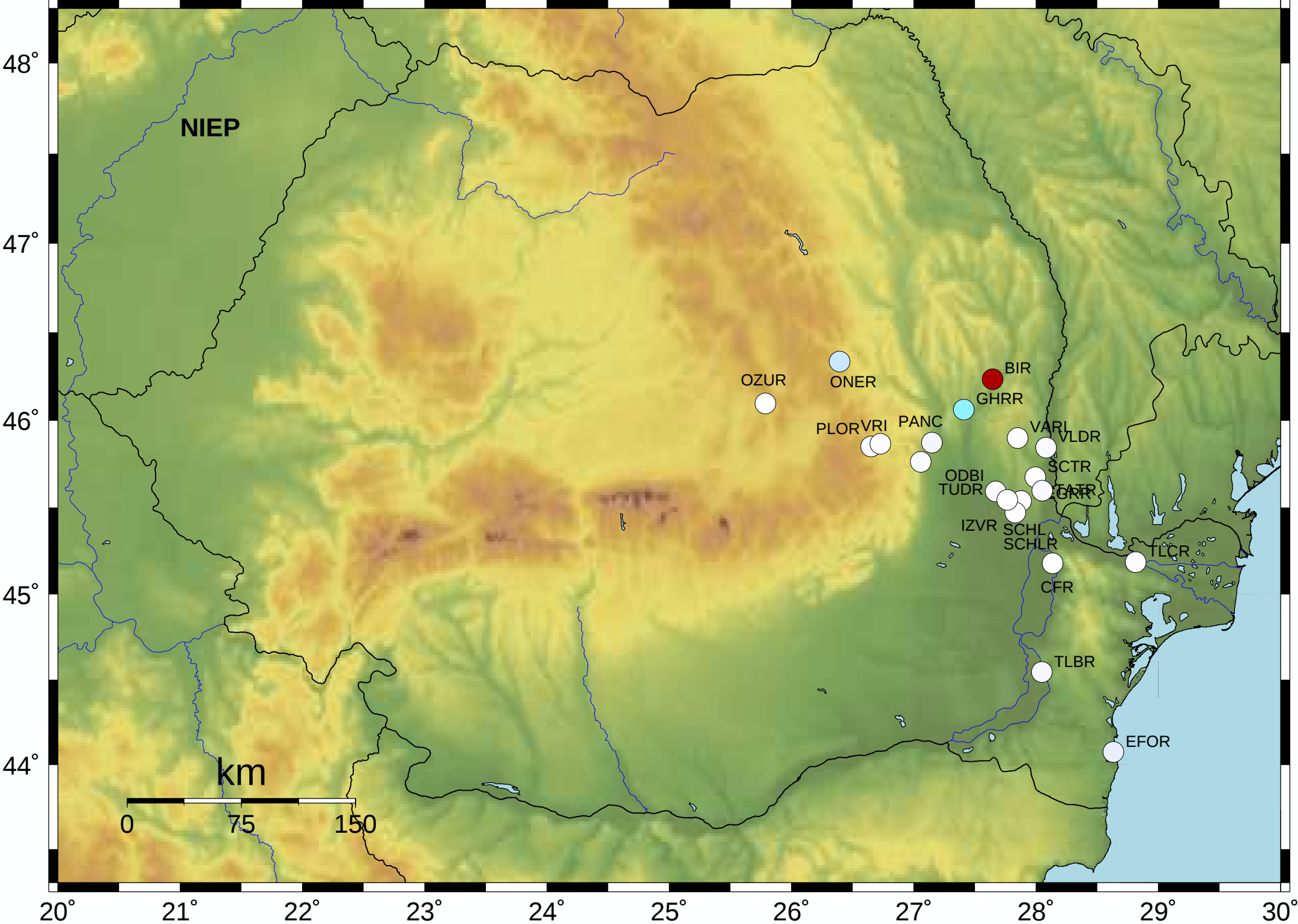
|              |         |       |
|--------------|---------|-------|
| Velocity     | BIR_EHE | 0.004 |
| Acceleration | BIR_HNE | 0.429 |

Stations max. horizontal acceleration and MSK intensity

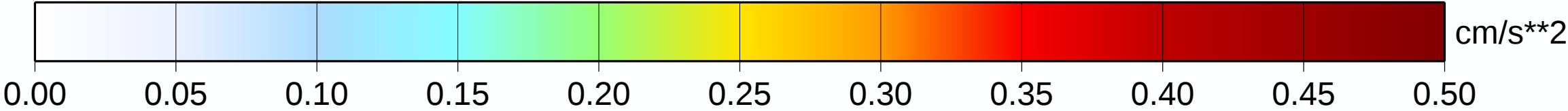
|    |           |       |   |
|----|-----------|-------|---|
| 1  | BIR_HNE   | 0.429 | I |
| 2  | CFR_HNN   | 0.004 | I |
| 3  | EFOR_HNN  | 0.052 | I |
| 4  | GHRR_HNN  | 0.134 | I |
| 5  | IZVR_HNE  | 0.002 | I |
| 6  | NEGRR_HNE | 0.002 | I |
| 7  | ODBI_HNN  | 0.014 | I |
| 8  | ONER_HNE  | 0.076 | I |
| 9  | OZUR_HNE  |       |   |
| 10 | PANC_HNN  | 0.032 | I |
| 11 | PLOR_HNE  | 0.004 | I |
| 12 | SCHL_HNE  | 0.009 | I |
| 13 | SCHLR_HNE | 0.003 | I |
| 14 | SCTR_HNE  | 0.000 |   |
| 15 | TATR_HNN  | 0.020 | I |
| 16 | TLBR_HNN  | 0.017 | I |
| 17 | TUDR_HNE  | 0.007 | I |
| 18 | VARL_HNE  | 0.009 | I |
| 19 | VLDR_HNE  |       |   |
| 20 | VRI_HNE   | 0.006 | I |

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

Maximum observed acceleration: BIR\_HNE 0.429  
Sun Aug 4, 2019 10:23:10 GMT ML Mb 6.6 N38.29 E141.13 Depth: 50.0km ID:39363

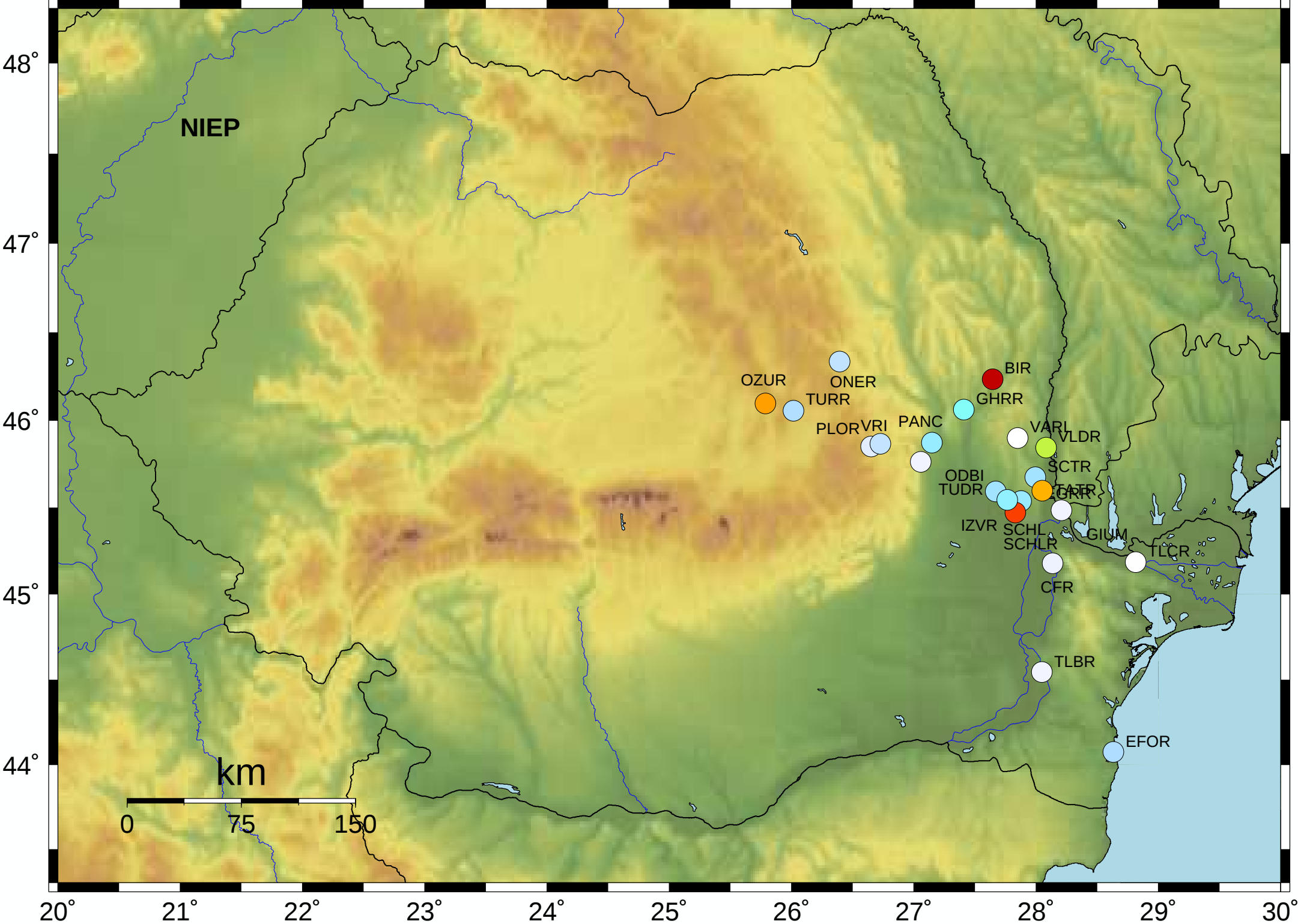


| Station | Dist.(km) | Acc.  |
|---------|-----------|-------|
| BIR     | 9380      | 0.429 |
| GHRR    | 9410      | 0.134 |
| ONER    | 9476      | 0.076 |
| EFOR    | 9436      | 0.052 |
| PANC    | 9444      | 0.032 |
| TLBR    | 9454      | 0.023 |
| VLDR    | 9369      | 0.022 |
| TATR    | 9387      | 0.021 |
| TUDR    | 9419      | 0.015 |
| ODBI    | 9458      | 0.014 |
| PLOR    | 9486      | 0.010 |
| SCHL    | 9411      | 0.009 |
| VARL    | 9384      | 0.009 |
| TLCR    | 9350      | 0.007 |
| VRI     | 9479      | 0.006 |
| IZVR    | 9414      | 0.005 |
| CFR     | 9406      | 0.004 |
| NEGRR   | 9405      | 0.003 |
| SCHLR   | 9413      | 0.003 |
| OZUR    | 9541      | 0.000 |



Observed stations velocities – Antelope platform (cm/sec)

Maximum observed velocity: BIR\_EHE 0.004  
Sun Aug 4, 2019 10:23:10 GMT ML Mb 6.6 N38.29 E141.13 Depth: 50.0km ID:39363

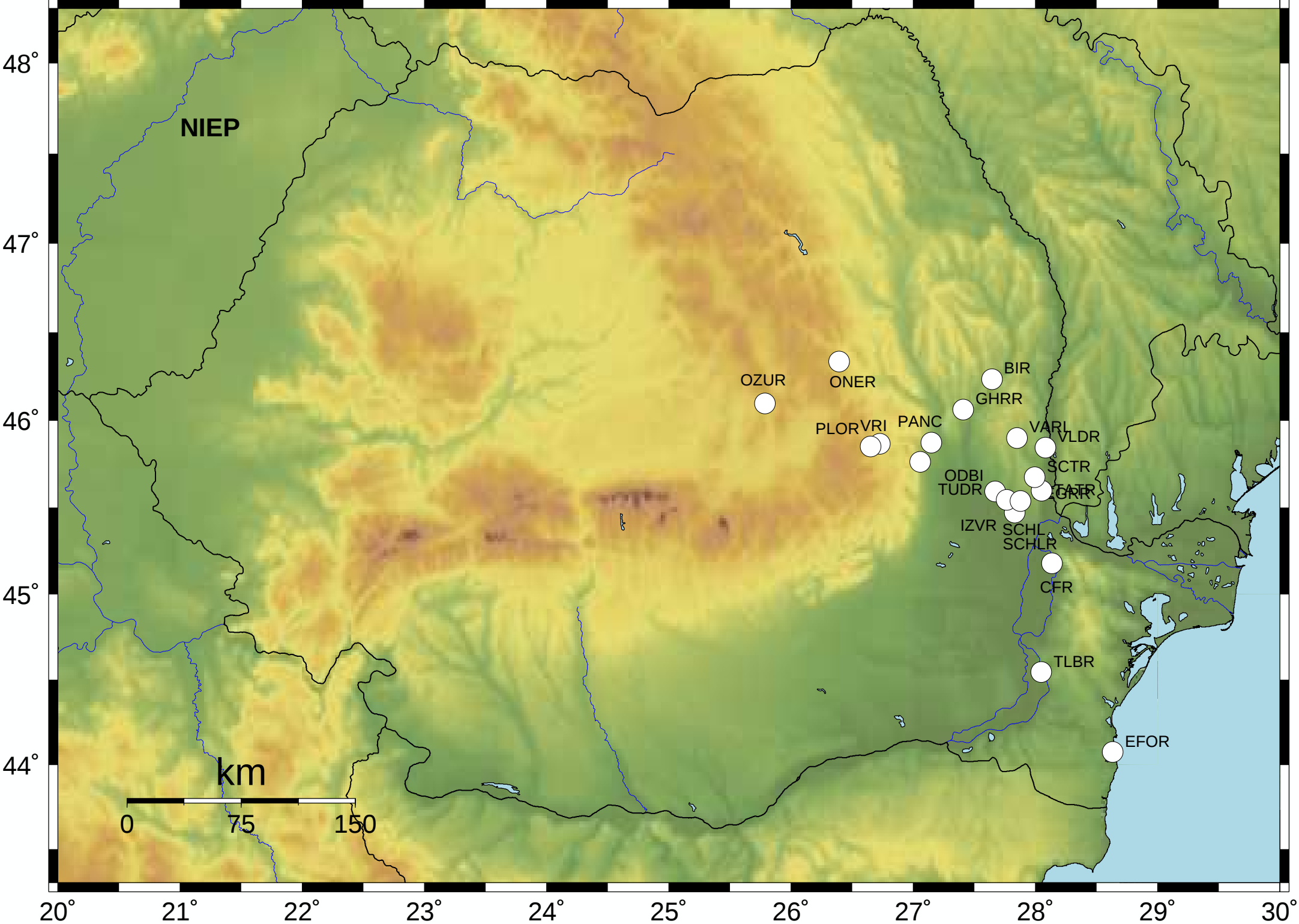


| Station | Dist.(km) | Velocity |
|---------|-----------|----------|
| BIR     | 9380      | 0.004    |
| SCHLR   | 9413      | 0.003    |
| OZUR    | 9541      | 0.003    |
| TATR    | 9387      | 0.003    |
| VLDR    | 9369      | 0.002    |
| GHRR    | 9410      | 0.002    |
| IZVR    | 9414      | 0.001    |
| PANC    | 9444      | 0.001    |
| NEGRR   | 9405      | 0.001    |
| TUDR    | 9419      | 0.001    |
| SCTR    | 9387      | 0.001    |
| EFOR    | 9436      | 0.001    |
| TURR    | 9525      | 0.001    |
| ONER    | 9476      | 0.001    |
| VRI     | 9479      | 0.001    |
| PLOR    | 9486      | 0.001    |
| CFR     | 9406      | 0.000    |
| GIUM    | 9381      | 0.000    |
| ODBI    | 9458      | 0.000    |
| TLBR    | 9454      | 0.000    |
| SCHL    | 9411      | 0.000    |
| TLCR    | 9350      | 0.000    |
| VARL    | 9384      | 0.000    |

# MSK macroseismic intensities map

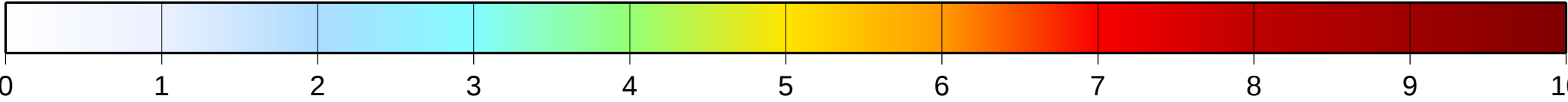
Maximum MSK intensity: BIR\_HNE I

Sun Aug 4, 2019 10:23:10 GMT ML Mb 6.6 N38.29 E141.13 Depth: 50.0km ID:39363



| Station | Dist.(km) | IMSK |
|---------|-----------|------|
|---------|-----------|------|

|       |      |   |
|-------|------|---|
| VRI   | 9479 | I |
| VARL  | 9385 | I |
| TUDR  | 9419 | I |
| TLBR  | 9455 | I |
| TATR  | 9387 | I |
| SCHLR | 9413 | I |
| SCHL  | 9412 | I |
| PLOR  | 9486 | I |
| PANC  | 9444 | I |
| ONER  | 9476 | I |
| ODBI  | 9459 | I |
| NEGRR | 9405 | I |
| IZVR  | 9414 | I |
| GHRR  | 9411 | I |
| EFOR  | 9436 | I |
| CFR   | 9407 | I |
| BIR   | 9380 | I |



MSK intensity scale