Resultados del Análisis de TEMP\_MAX\_RBE

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID\_CIDERH | Media | D. Estándar | Min | Q1 | Mediana | Q3 | Max | IQR |
| CFM\_001\_A | -99.9 | 3.55e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| CFM\_002\_A | -99.9 | 9.67e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| FM\_001\_A | -99.9 | 3.70e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| FM\_002\_A | -99.9 | 9.10e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_001\_A | -99.9 | 2.46e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_001\_AA | -3.501 | 50.92659596 | -99.9 | 18.9 | 21.8 | 25.0 | 32.0 | 6.10 |
| M\_001\_AH | -84.621 | 38.90759425 | -99.9 | -99.9 | -99.9 | -99.9 | 22.1 | 0 |
| M\_001\_AJ | 3.056 | 42.45517916 | -99.9 | 18.2 | 20.2 | 21.6 | 33.0 | 3.40 |
| M\_001\_A\_II | -99.9 | 1.28e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_001\_A\_XV | 3.968 | 46.14146280 | -99.9 | 22.2 | 24.0 | 25.2 | 68.1 | 3.00 |
| M\_001\_BOL | -38.684 | 58.82612889 | -99.9 | -99.9 | 14.0 | 18.0 | 28.5 | 117.90 |
| M\_001\_B\_II | 22.876 | 7.04824416 | -99.9 | 22.0 | 23.5 | 24.8 | 30.6 | 2.80 |
| M\_001\_B\_XV | 22.065 | 3.88298264 | -99.9 | 19.4 | 22.0 | 24.8 | 33.3 | 5.40 |
| M\_001\_Q | 18.212 | 3.16894935 | 4.1 | 16.0 | 18.3 | 20.6 | 26.0 | 4.60 |
| M\_001\_W | 28.283 | 2.33686764 | 13.7 | 27.2 | 28.7 | 29.8 | 35.0 | 2.60 |
| M\_002\_A | -99.9 | 1.29e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_002\_AA | 3.256 | 44.33037014 | -99.9 | 17.8 | 21.1 | 23.9 | 30.0 | 6.10 |
| M\_002\_AH | -72.644 | 47.49493433 | -99.9 | -99.9 | -99.9 | -99.9 | 22.0 | 0 |
| M\_002\_AJ | -14.923 | 49.49447969 | -99.9 | -99.9 | 12.5 | 15.6 | 22.7 | 115.54 |
| M\_002\_A\_II | -99.9 | 1.01e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_002\_BOL | -99.9 | 3.13e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_002\_B\_II | 19.932 | 3.42391542 | -99.9 | 17.6 | 19.8 | 22.4 | 31.8 | 4.80 |
| M\_002\_H | -41.311 | 56.45949133 | -99.9 | -99.9 | 6.5 | 13.3 | 21.4 | 113.25 |
| M\_002\_Q | 32.490 | 101.66728974 | 15.0 | 29.3 | 30.9 | 32.0 | 5016.9 | 2.70 |
| M\_002\_W | 29.198 | 6.73405389 | -99.9 | 28.4 | 29.9 | 31.0 | 37.9 | 2.60 |
| M\_003\_A | -99.9 | 1.55e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_003\_AA | -99.9 | NaN | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_003\_AH | 19.788 | 22.27708290 | -99.9 | 7.5 | 10.9 | 22.9 | 98.1 | 15.42 |
| M\_003\_A\_II | -80.567 | 45.94626160 | -99.9 | -99.9 | -99.9 | -99.9 | 39.0 | 0 |
| M\_003\_A\_XV | -99.9 | 1.05e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_003\_BOL | -99.9 | 3.04e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_003\_H | -41.056 | 56.32982630 | -99.9 | -99.9 | 7.0 | 12.9 | 20.4 | 112.84 |
| M\_003\_Q | 20.999 | 1.74710679 | 11.7 | 20.1 | 21.1 | 22.1 | 25.9 | 2.00 |
| M\_004\_A | -8.017 | 57.41331643 | -99.9 | -99.9 | 25.0 | 30.2 | 35.0 | 130.10 |
| M\_004\_AA | -65.907 | 54.85506030 | -99.9 | -99.9 | -99.9 | 18.0 | 44.0 | 117.90 |
| M\_004\_AH | -99.9 | 9.39e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_004\_A\_II | 28.647 | 16.80756071 | -99.9 | 29.2 | 31.0 | 32.6 | 39.2 | 3.40 |
| M\_004\_A\_XV | -99.9 | 2.30e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_004\_BOL | -99.9 | 9.04e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_004\_H | -47.071 | 53.11255260 | -99.9 | -99.9 | -99.9 | 6.3 | 14.7 | 106.22 |
| M\_005\_A | -99.9 | 5.91e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_005\_AA | -7.596 | 53.37106183 | -99.9 | -13.0 | 21.2 | 25.0 | 55.5 | 37.98 |
| M\_005\_AH | 14.342 | 3.19301489 | 0.3 | 12.3 | 14.9 | 16.6 | 21.3 | 4.30 |
| M\_005\_A\_II | -99.9 | 6.00e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_005\_A\_XV | -99.9 | 9.53e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_005\_BOL | -27.092 | 57.18649585 | -99.9 | -99.9 | 15.5 | 18.5 | 29.0 | 118.40 |
| M\_005\_H | -46.206 | 57.68366075 | -99.9 | -99.9 | -99.9 | 15.4 | 23.2 | 115.25 |
| M\_005\_Q | 27.391 | 4.31102933 | 7.4 | 26.5 | 28.5 | 29.8 | 34.1 | 3.30 |
| M\_006\_A | -99.9 | 3.27e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_006\_AA | -99.9 | NaN | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_006\_A\_II | -43.566 | 58.82878565 | -99.9 | -99.9 | -99.9 | 17.8 | 32.5 | 117.70 |
| M\_006\_A\_XV | 6.978 | 17.25142824 | -99.9 | 8.0 | 10.0 | 11.5 | 20.8 | 3.50 |
| M\_006\_BOL | 2.454 | 22.52177809 | -99.9 | 4.2 | 7.1 | 9.9 | 21.0 | 5.70 |
| M\_006\_Q | 34.571 | 34.57069748 | 10.6 | 28.9 | 30.3 | 31.6 | 305.0 | 2.70 |
| M\_007\_A | -99.9 | 3.88e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_007\_AA | -99.9 | 3.24e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_007\_A\_II | -99.9 | 1.22e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_007\_A\_XV | -10.572 | 48.14341092 | -99.9 | 10.3 | 14.8 | 16.4 | 24.8 | 6.10 |
| M\_007\_BOL | -99.9 | 7.83e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_008\_A | -99.9 | 1.63e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_008\_AA | 6.383 | 35.86733415 | -99.9 | 16.5 | 18.0 | 19.6 | 30.4 | 3.10 |
| M\_008\_A\_II | -99.9 | 1.46e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_008\_A\_XV | -99.9 | 3.27e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_008\_BOL | -99.9 | 9.38e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_009\_A | -99.9 | 1.17e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_009\_AA | -4.767 | 46.85066110 | -99.9 | 15.4 | 18.0 | 19.0 | 30.0 | 3.60 |
| M\_009\_A\_II | 6.167 | 35.05285073 | -99.9 | 14.6 | 17.5 | 19.8 | 28.2 | 5.20 |
| M\_009\_A\_XV | -60.099 | 54.94733490 | -99.9 | -99.9 | -99.9 | 14.3 | 23.0 | 114.20 |
| M\_009\_BOL | 6.451 | 34.36001008 | -99.9 | 14.8 | 17.1 | 19.2 | 32.0 | 4.40 |
| M\_010\_A | -25.257 | 54.56408442 | -99.9 | -99.9 | 12.0 | 15.9 | 22.2 | 115.85 |
| M\_010\_AA | -13.213 | 51.76256891 | -99.9 | -99.9 | 16.9 | 18.5 | 35.0 | 118.40 |
| M\_010\_A\_II | -68.263 | 50.93917227 | -99.9 | -99.9 | -99.9 | 9.5 | 29.1 | 109.40 |
| M\_010\_A\_XV | -23.905 | 52.60813959 | -99.9 | -99.9 | 10.0 | 13.8 | 28.0 | 113.70 |
| M\_011\_A | -99.9 | 6.08e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_011\_AA | -99.9 | 1.47e-14 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_011\_A\_II | -49.312 | 56.16763153 | -99.9 | -99.9 | -99.9 | 12.5 | 27.5 | 112.40 |
| M\_011\_A\_XV | -99.9 | 1.30e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_011\_B | 21.545 | 3.41232129 | -99.9 | 18.9 | 21.3 | 24.2 | 31.2 | 5.30 |
| M\_011\_BOL | -99.9 | 5.29e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_012\_A | -99.9 | 7.25e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_012\_AA | -30.288 | 60.20116897 | -99.9 | -99.9 | 20.0 | 22.2 | 28.9 | 122.10 |
| M\_012\_A\_XV | -99.9 | 2.99e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_012\_BOL | 14.964 | 2.63411311 | 0 | 13.3 | 14.9 | 16.4 | 21.3 | 3.10 |
| M\_013\_A | -99.9 | 2.99e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_013\_AA | 8.913 | 38.65722320 | -99.9 | 21.1 | 22.5 | 23.6 | 29.5 | 2.50 |
| M\_013\_A\_II | -99.246 | 8.81443611 | -99.9 | -99.9 | -99.9 | -99.9 | 21.2 | 0 |
| M\_013\_A\_XV | -99.9 | 1.30e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_013\_BOL | 6.912 | 35.27027527 | -99.9 | 15.9 | 18.2 | 20.2 | 29.5 | 4.30 |
| M\_014\_A | -99.9 | 1.49e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_014\_AA | -19.745 | 58.06891084 | -99.9 | -99.9 | 21.2 | 22.9 | 34.1 | 122.80 |
| M\_014\_A\_II | -99.9 | 3.40e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_014\_A\_XV | -99.9 | 2.90e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_014\_BOL | -13.916 | 52.48732497 | -99.9 | -99.9 | 17.0 | 19.0 | 27.0 | 118.90 |
| M\_015\_A | -99.9 | 4.04e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_015\_AA | 0.016 | 47.08317727 | -99.9 | 19.8 | 22.0 | 23.1 | 26.2 | 3.30 |
| M\_015\_A\_II | 10.170 | 32.49868999 | -99.9 | 17.0 | 19.5 | 21.5 | 31.0 | 4.50 |
| M\_015\_A\_XV | -15.927 | 48.25093363 | -99.9 | 0 | 10.5 | 13.2 | 25.0 | 13.20 |
| M\_015\_BOL | 19.540 | 15.29892734 | -99.9 | 20.0 | 21.5 | 23.0 | 29.0 | 3.00 |
| M\_015\_H | 20.092 | 7.98621348 | -99.9 | 17.4 | 20.4 | 23.6 | 28.4 | 6.14 |
| M\_016\_A | 3.190 | 35.53169387 | -99.9 | 11.4 | 15.0 | 18.0 | 25.5 | 6.60 |
| M\_016\_AA | -38.454 | 60.97350251 | -99.9 | -99.9 | 17.7 | 20.8 | 24.1 | 120.70 |
| M\_016\_A\_II | -6.756 | 49.80283501 | -99.9 | 14.0 | 19.0 | 21.4 | 30.5 | 7.40 |
| M\_016\_A\_XV | -37.305 | 55.68176542 | -99.9 | -99.9 | 8.0 | 13.0 | 29.0 | 112.90 |
| M\_016\_BOL | -59.682 | 54.96732561 | -99.9 | -99.9 | -99.9 | 13.2 | 27.0 | 113.10 |
| M\_016\_H | -25.003 | 57.08462802 | -99.9 | -99.9 | 17.8 | 20.7 | 27.8 | 120.60 |
| M\_017\_A | -99.9 | 1.52e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_017\_AA | 5.083 | 40.28047565 | -99.9 | 18.9 | 20.3 | 21.4 | 28.0 | 2.50 |
| M\_017\_A\_II | 2.233 | 45.64257785 | -99.9 | 19.8 | 22.2 | 23.8 | 30.0 | 4.00 |
| M\_017\_A\_XV | -99.9 | 2.01e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_017\_BOL | -99.9 | 2.73e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_018\_A | -67.282 | 53.99989423 | -99.9 | -99.9 | -99.9 | 17.8 | 29.6 | 117.70 |
| M\_018\_AA | -70.529 | 51.92728633 | -99.9 | -99.9 | -99.9 | -99.9 | 32.0 | 0 |
| M\_018\_A\_II | -99.327 | 8.37867768 | -99.9 | -99.9 | -99.9 | -99.9 | 24.6 | 0 |
| M\_018\_A\_XV | -99.9 | 6.69e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_018\_BOL | -4.677 | 47.06663441 | -99.9 | 12.9 | 17.3 | 20.2 | 29.0 | 7.30 |
| M\_019\_A | 18.883 | 33.88431793 | -99.9 | 26.6 | 29.0 | 30.1 | 37.0 | 3.50 |
| M\_019\_AA | -92.128 | 32.97474623 | -99.9 | -99.9 | -99.9 | -99.9 | 40.0 | 0 |
| M\_019\_A\_II | -99.9 | 5.97e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_019\_A\_XV | -99.9 | 3.70e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_019\_BOL | 25.712 | 13.67745543 | -99.9 | 25.2 | 27.4 | 29.0 | 39.6 | 3.80 |
| M\_020\_A | -99.9 | 1.58e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_020\_AA | -99.9 | NaN | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_020\_A\_II | -99.834 | 2.77328514 | -99.9 | -99.9 | -99.9 | -99.9 | 19.3 | 0 |
| M\_020\_A\_XV | -2.848 | 37.02983301 | -99.9 | 8.0 | 10.8 | 13.0 | 24.3 | 5.00 |
| M\_020\_BOL | -59.149 | 52.76737787 | -99.9 | -99.9 | -99.9 | 0 | 25.5 | 99.9 |
| M\_021\_A | -99.9 | 1.51e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_021\_AA | -99.9 | 1.74e-14 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_021\_A\_II | 16.813 | 18.59292537 | -99.9 | 17.2 | 19.8 | 21.9 | 29.9 | 4.70 |
| M\_021\_A\_XV | -94.655 | 23.72976135 | -99.9 | -99.9 | -99.9 | -99.9 | 21.6 | 0 |
| M\_021\_BOL | -99.9 | 1.62e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_022\_A | -99.9 | 1.60e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_022\_AA | -99.9 | 1.15e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_022\_A\_II | -4.950 | 40.50546823 | -99.9 | 8.2 | 11.7 | 14.2 | 22.2 | 6.00 |
| M\_022\_A\_XV | -4.791 | 42.28586953 | -99.9 | 10.2 | 13.6 | 15.6 | 22.2 | 5.40 |
| M\_022\_BOL | -5.172 | 47.66053757 | -99.9 | 14.0 | 18.0 | 20.1 | 27.2 | 6.10 |
| M\_023\_A | -99.9 | 1.48e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_023\_AA | -99.9 | 1.71e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_023\_A\_II | -51.361 | 58.48671152 | -99.9 | -99.9 | -99.9 | 18.4 | 27.8 | 118.30 |
| M\_023\_A\_XV | -99.9 | 8.68e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_023\_BOL | 22.138 | 4.79037591 | -99.9 | 20.1 | 22.5 | 24.1 | 31.1 | 4.00 |
| M\_024\_A | -99.9 | 3.40e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_024\_AA | -99.9 | 6.97e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_024\_A\_II | -48.929 | 59.03519738 | -99.9 | -99.9 | -99.9 | 19.0 | 28.0 | 118.90 |
| M\_024\_A\_XV | -99.9 | 2.80e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_024\_BOL | 13.466 | 14.11279745 | -99.9 | 13.5 | 15.0 | 17.0 | 26.5 | 3.50 |
| M\_025\_A | -99.9 | 9.69e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_025\_AA | -99.9 | 3.47e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_025\_A\_II | -99.9 | 9.10e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_025\_A\_XV | -99.9 | 2.72e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_025\_BOL | -95.963 | 22.28209191 | -99.9 | -99.9 | -99.9 | -99.9 | 38.0 | 0 |
| M\_026\_AA | -99.9 | 0 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_026\_A\_II | -99.671 | 5.23191489 | -99.9 | -99.9 | -99.9 | -99.9 | 25.0 | 0 |
| M\_026\_A\_XV | -99.9 | 1.51e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_026\_BOL | -99.9 | 9.25e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_027\_AA | 5.878 | 43.80136104 | -99.9 | 19.6 | 22.8 | 26.6 | 32.4 | 7.00 |
| M\_027\_A\_II | 7.897 | 33.82123891 | -99.9 | 15.6 | 18.3 | 20.4 | 32.9 | 4.80 |
| M\_027\_A\_XV | -99.9 | 3.99e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_027\_BOL | 15.873 | 4.29243185 | 0 | 14.7 | 16.6 | 18.1 | 23.7 | 3.40 |
| M\_028\_AA | -30.285 | 61.41646062 | -99.9 | -99.9 | 20.7 | 23.1 | 28.8 | 122.95 |
| M\_028\_A\_II | -32.793 | 54.49863253 | -99.9 | -99.9 | 7.0 | 12.5 | 24.5 | 112.40 |
| M\_028\_A\_XV | -22.903 | 51.70592440 | -99.9 | -99.9 | 10.0 | 13.0 | 45.0 | 112.90 |
| M\_028\_BOL | -99.9 | 2.66e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_029\_AA | -6.966 | 53.12265044 | -99.9 | 17.2 | 21.1 | 25.0 | 32.2 | 7.80 |
| M\_029\_A\_II | -28.387 | 60.42561161 | -99.9 | -99.9 | 20.0 | 23.1 | 33.0 | 123.00 |
| M\_029\_A\_XV | -99.9 | 2.09e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_029\_BOL | -99.9 | 1.52e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_030\_AA | 11.201 | 37.84074050 | -99.9 | 19.8 | 23.2 | 27.0 | 31.2 | 7.20 |
| M\_030\_A\_II | -21.664 | 55.19202967 | -99.9 | -99.9 | 14.5 | 18.7 | 29.0 | 118.60 |
| M\_030\_A\_XV | -99.9 | 8.43e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_030\_BOL | -99.9 | 7.18e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_031\_AA | -38.345 | 62.25010626 | -99.9 | -99.9 | -99.9 | 25.0 | 29.0 | 124.90 |
| M\_031\_A\_II | -99.9 | 4.27e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_031\_A\_XV | -99.9 | 1.74e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_031\_BOL | -4.886 | 46.50709952 | -99.9 | 13.4 | 17.0 | 19.3 | 29.7 | 5.90 |
| M\_032\_AA | -5.403 | 52.29409008 | -99.9 | 18.0 | 22.0 | 25.0 | 32.0 | 7.00 |
| M\_032\_A\_II | -44.774 | 58.51063437 | -99.9 | -99.9 | -99.9 | 17.1 | 28.5 | 117.00 |
| M\_032\_A\_XV | -99.9 | 5.29e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_032\_BOL | -99.9 | 1.34e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_033\_AA | -11.025 | 56.05675495 | -99.9 | -99.9 | 22.0 | 26.1 | 40.0 | 126.00 |
| M\_033\_A\_II | -77.384 | 45.64422659 | -99.9 | -99.9 | -99.9 | -99.9 | 28.0 | 0 |
| M\_033\_A\_XV | -99.9 | 1.83e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_033\_BOL | -99.9 | 8.96e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_034\_AA | 2.829 | 47.03184010 | -99.9 | 19.3 | 23.0 | 27.0 | 33.8 | 7.70 |
| M\_034\_A\_II | -21.670 | 60.14002720 | -99.9 | -99.9 | 21.0 | 26.0 | 39.5 | 125.90 |
| M\_034\_A\_XV | -99.9 | 3.68e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_034\_BOL | -99.9 | 1.01e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_035\_AA | -99.9 | 2.92e-14 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_035\_A\_II | -99.9 | 5.46e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_035\_A\_XV | -1.335 | 49.19719256 | -99.9 | 18.2 | 21.5 | 25.0 | 94.1 | 6.80 |
| M\_035\_BOL | 16.331 | 7.78289032 | -99.9 | 15.0 | 16.5 | 18.5 | 25.0 | 3.50 |
| M\_036\_AA | 1.846 | 42.15288241 | -99.9 | 17.8 | 19.0 | 19.4 | 20.0 | 1.60 |
| M\_036\_A\_II | -99.9 | 1.10e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_036\_A\_XV | -82.799 | 42.39261316 | -99.9 | -99.9 | -99.9 | -99.9 | 33.7 | 0 |
| M\_036\_BOL | -16.465 | 59.41492742 | -99.9 | -99.9 | 24.0 | 26.8 | 34.3 | 126.70 |
| M\_037\_AA | -99.9 | 2.72e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_037\_A\_II | -28.270 | 61.31239216 | -99.9 | -99.9 | 19.6 | 25.0 | 36.0 | 124.90 |
| M\_037\_A\_XV | 14.631 | 32.02341680 | -99.9 | 20.0 | 22.5 | 26.2 | 36.5 | 6.20 |
| M\_037\_BOL | -66.375 | 53.08750966 | -99.9 | -99.9 | -99.9 | 14.6 | 31.0 | 114.50 |
| M\_038\_AA | -99.9 | 1.53e-14 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_038\_A\_II | -99.9 | 1.21e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_038\_A\_XV | 20.609 | 16.43529142 | -99.9 | 20.0 | 22.0 | 25.5 | 52.7 | 5.50 |
| M\_038\_BOL | 16.546 | 6.61997450 | -99.9 | 15.3 | 17.1 | 18.3 | 22.6 | 2.97 |
| M\_039\_AA | -99.9 | 2.09e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_039\_A\_II | -71.286 | 50.14604414 | -99.9 | -99.9 | -99.9 | -99.9 | 26.2 | 0 |
| M\_039\_A\_XV | -99.9 | 7.82e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_039\_BOL | -37.362 | 57.79335406 | -99.9 | -99.9 | 9.3 | 16.4 | 28.0 | 116.30 |
| M\_040\_AA | 7.028 | 50.31325314 | -99.9 | 24.3 | 30.6 | 32.7 | 39.0 | 8.40 |
| M\_040\_A\_II | 5.362 | 45.13396992 | -99.9 | 19.4 | 24.0 | 27.2 | 36.2 | 7.80 |
| M\_040\_A\_XV | 22.815 | 6.24110805 | -99.9 | 19.9 | 22.7 | 26.1 | 35.2 | 6.20 |
| M\_040\_BOL | -2.864 | 47.66944916 | -99.9 | 13.1 | 19.1 | 22.8 | 31.2 | 9.70 |
| M\_041\_AA | 13.452 | 43.99737131 | -99.9 | 26.0 | 30.8 | 32.6 | 37.5 | 6.60 |
| M\_041\_A\_II | -99.9 | 1.19e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_041\_A\_XV | -15.242 | 58.44636297 | -99.9 | -99.9 | 22.1 | 26.0 | 39.0 | 125.90 |
| M\_041\_BOL | 16.752 | 8.36795799 | -99.9 | 15.6 | 17.2 | 19.0 | 27.5 | 3.40 |
| M\_042\_AA | 10.933 | 47.09357380 | -99.9 | 26.0 | 30.7 | 32.7 | 56.9 | 6.70 |
| M\_042\_A\_II | -69.254 | 52.30775384 | -99.9 | -99.9 | -99.9 | 15.2 | 27.8 | 115.10 |
| M\_042\_BOL | 8.529 | 30.95941900 | -99.9 | 15.0 | 17.0 | 19.0 | 27.0 | 4.00 |
| M\_043\_AA | -77.894 | 48.71048091 | -99.9 | -99.9 | -99.9 | -99.9 | 40.2 | 0 |
| M\_043\_A\_II | -99.9 | 3.08e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_043\_BOL | 15.002 | 6.57245417 | -99.9 | 13.3 | 15.2 | 16.8 | 22.9 | 3.50 |
| M\_044\_AA | -99.9 | NaN | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_044\_A\_II | 12.095 | 25.32403434 | -99.9 | 12.8 | 17.5 | 21.5 | 31.2 | 8.70 |
| M\_044\_BOL | -99.9 | 3.27e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_045\_AA | 11.164 | 44.14439106 | -99.9 | 24.3 | 29.1 | 31.0 | 36.4 | 6.70 |
| M\_045\_A\_II | 7.410 | 43.10722808 | -99.9 | 21.0 | 24.6 | 26.5 | 35.1 | 5.50 |
| M\_045\_BOL | -64.583 | 54.12440433 | -99.9 | -99.9 | -99.9 | 15.3 | 34.0 | 115.20 |
| M\_046\_AA | -31.357 | 64.11539147 | -99.9 | -99.9 | 20.8 | 29.7 | 37.0 | 129.60 |
| M\_046\_A\_II | -99.9 | 6.69e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_046\_BOL | -99.9 | 8.60e-14 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_047\_AA | 9.491 | 45.85820976 | -99.9 | 24.0 | 28.8 | 30.8 | 39.0 | 6.80 |
| M\_047\_A\_II | -99.9 | 7.87e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_047\_BOL | -99.9 | 7.01e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_048\_AA | -99.9 | 0 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_048\_A\_II | -99.9 | 9.53e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_048\_BOL | 8.369 | 31.06940344 | -99.9 | 14.2 | 16.4 | 19.2 | 33.2 | 5.00 |
| M\_049\_AA | 6.779 | 49.25410157 | -99.9 | 24.0 | 29.3 | 31.3 | 37.1 | 7.30 |
| M\_049\_BOL | 14.709 | 20.79150898 | -99.9 | 16.5 | 18.7 | 20.5 | 24.8 | 4.00 |
| M\_050\_AA | -10.759 | 60.90217909 | -99.9 | -99.9 | 29.0 | 32.0 | 36.0 | 131.90 |
| M\_050\_A\_II | -51.774 | 61.88907633 | -99.9 | -99.9 | -99.9 | 27.0 | 36.4 | 126.90 |
| M\_050\_BOL | -28.739 | 57.38232556 | -99.9 | -99.9 | 15.2 | 18.2 | 28.3 | 118.10 |
| M\_051\_AA | 1.745 | 54.71671302 | -99.9 | 22.9 | 30.5 | 32.6 | 38.0 | 9.73 |
| M\_051\_BOL | -99.9 | 8.03e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_052\_AA | -99.9 | 3.17e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_052\_BOL | 26.707 | 5.36395853 | -99.9 | 25.0 | 27.0 | 29.0 | 39.0 | 4.00 |
| M\_053\_AA | -71.165 | 53.96376808 | -99.9 | -99.9 | -99.9 | -99.9 | 38.3 | 0 |
| M\_053\_BOL | 17.908 | 2.58899039 | 5.2 | 16.2 | 18.2 | 19.9 | 23.5 | 3.65 |
| M\_054\_AA | 12.396 | 44.55534430 | -99.9 | 26.1 | 30.3 | 32.3 | 39.3 | 6.20 |
| M\_054\_BOL | -12.706 | 50.34840116 | -99.9 | 7.2 | 15.2 | 17.0 | 27.5 | 9.85 |
| M\_055\_AA | -0.822 | 54.94740006 | -99.9 | 18.0 | 29.2 | 31.4 | 38.8 | 13.40 |
| M\_055\_BOL | 17.580 | 2.56901880 | 6.2 | 15.6 | 17.5 | 19.0 | 23.6 | 3.40 |
| M\_056\_AA | -86.462 | 37.73423137 | -99.9 | -99.9 | -99.9 | -99.9 | 28.0 | 0 |
| M\_056\_BOL | 24.883 | 3.10401773 | 10.0 | 23.0 | 25.0 | 27.0 | 34.0 | 4.00 |
| M\_057\_AA | -99.9 | 3.21e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_057\_BOL | -99.208 | 8.85764539 | -99.9 | -99.9 | -99.9 | -99.9 | 17.0 | 0 |
| M\_058\_AA | -99.9 | 1.48e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_058\_BOL | -17.410 | 49.39710576 | -99.9 | -99.9 | 11.4 | 12.8 | 16.1 | 112.70 |
| M\_059\_AA | -56.001 | 55.68820018 | -99.9 | -99.9 | -99.9 | 13.3 | 39.4 | 113.20 |
| M\_059\_BOL | -99.9 | 2.97e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_060\_AA | 11.123 | 20.41627306 | -99.9 | 12.8 | 14.4 | 15.8 | 38.3 | 3.03 |
| M\_060\_BOL | 15.499 | 18.58595755 | -99.9 | 16.0 | 18.0 | 20.3 | 223.8 | 4.30 |
| M\_061\_AA | -97.987 | 14.74969933 | -99.9 | -99.9 | -99.9 | -99.9 | 18.0 | 0 |
| M\_061\_BOL | -99.9 | 1.71e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_062\_AA | 0.646 | 37.82024887 | -99.9 | 12.5 | 14.5 | 16.1 | 37.7 | 3.60 |
| M\_062\_BOL | -4.410 | 44.72890344 | -99.9 | 12.0 | 15.5 | 17.5 | 31.0 | 5.50 |
| M\_063\_AA | -4.671 | 43.29328301 | -99.9 | 12.2 | 14.2 | 15.7 | 37.5 | 3.50 |
| M\_063\_BOL | 2.514 | 39.76415989 | -99.9 | 15.2 | 17.2 | 19.5 | 28.0 | 4.30 |
| M\_064\_AA | -99.9 | 2.00e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_064\_BOL | -99.9 | 5.69e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_065\_AA | -99.9 | 0 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_065\_BOL | -99.9 | 1.45e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_066\_AA | -99.9 | 2.60e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_066\_BOL | -99.9 | 5.69e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_067\_AA | 15.841 | 41.17323353 | -99.9 | 27.0 | 31.0 | 32.8 | 36.3 | 5.80 |
| M\_067\_BOL | -99.9 | 1.63e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_068\_AA | -4.596 | 57.75188164 | -99.9 | -99.9 | 29.6 | 32.0 | 50.6 | 131.90 |
| M\_068\_BOL | -99.9 | 4.02e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_069\_AA | -85.840 | 40.29755540 | -99.9 | -99.9 | -99.9 | -99.9 | 37.8 | 0 |
| M\_069\_BOL | 15.973 | 11.68481264 | -99.9 | 14.0 | 17.2 | 20.1 | 29.4 | 6.10 |
| M\_070\_AA | 3.640 | 52.71884996 | -99.9 | 23.0 | 29.8 | 32.2 | 38.6 | 9.20 |
| M\_070\_BOL | -38.333 | 62.12079994 | -99.9 | -99.9 | -41.5 | 23.0 | 30.0 | 122.90 |
| M\_071\_AA | -10.015 | 60.92752456 | -99.9 | -99.9 | 29.8 | 33.0 | 36.0 | 132.90 |
| M\_071\_BOL | 12.259 | 2.35390837 | 5.4 | 10.6 | 12.6 | 13.7 | 18.3 | 3.10 |
| M\_072\_AA | -0.771 | 56.53887225 | -99.9 | 20.7 | 30.8 | 33.0 | 37.8 | 12.30 |
| M\_072\_BOL | -99.9 | 3.58e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_073\_AA | 7.670 | 49.66350982 | -99.9 | 24.4 | 30.5 | 32.6 | 38.4 | 8.20 |
| M\_073\_BOL | 15.128 | 8.15443047 | -99.9 | 15.1 | 17.0 | 18.8 | 24.8 | 3.70 |
| M\_074\_AA | -99.9 | 1.48e-14 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_074\_BOL | -99.9 | 8.68e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_075\_AA | -99.9 | 3.23e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_075\_BOL | -99.9 | 3.58e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_076\_AA | -46.549 | 61.97407358 | -99.9 | -99.9 | -99.9 | 25.0 | 34.5 | 124.90 |
| M\_076\_BOL | -15.363 | 48.99636632 | -99.9 | -6.5 | 10.2 | 15.4 | 32.0 | 21.90 |
| M\_077\_AA | -97.572 | 17.09569028 | -99.9 | -99.9 | -99.9 | -99.9 | 31.0 | 0 |
| M\_077\_BOL | -10.118 | 50.17899871 | -99.9 | 8.5 | 15.8 | 20.0 | 27.6 | 11.50 |
| M\_078\_AA | 5.800 | 48.03151483 | -99.9 | 23.0 | 27.4 | 29.4 | 32.8 | 6.40 |
| M\_078\_BOL | 20.766 | 27.61473370 | -99.9 | 24.5 | 26.5 | 28.3 | 42.0 | 3.80 |
| M\_079\_AA | 24.293 | 18.50920494 | -99.9 | 25.5 | 27.2 | 28.9 | 35.3 | 3.40 |
| M\_079\_BOL | -92.737 | 29.44019918 | -99.9 | -99.9 | -99.9 | -99.9 | 31.9 | 0 |
| M\_080\_AA | -8.073 | 57.01948775 | -99.9 | -99.9 | 26.0 | 28.2 | 31.5 | 128.10 |
| M\_080\_BOL | -99.9 | 2.30e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_081\_AA | 10.505 | 42.71662676 | -99.9 | 24.0 | 26.7 | 28.6 | 56.0 | 4.60 |
| M\_081\_BOL | 17.340 | 2.41773435 | 6.7 | 15.8 | 17.5 | 19.1 | 23.8 | 3.30 |
| M\_082\_AA | -43.415 | 58.97217064 | -99.9 | -99.9 | -99.9 | 17.8 | 28.8 | 117.70 |
| M\_082\_BOL | 15.052 | 3.59459728 | 3.1 | 12.6 | 15.4 | 17.8 | 23.9 | 5.20 |
| M\_083\_AA | -47.773 | 58.70671305 | -99.9 | -99.9 | -99.9 | 17.5 | 27.7 | 117.38 |
| M\_083\_BOL | -99.9 | 7.08e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_084\_AA | -28.431 | 58.80991128 | -99.9 | -99.9 | 16.4 | 19.9 | 24.0 | 119.85 |
| M\_084\_BOL | 18.588 | 17.20597901 | -99.9 | 18.0 | 20.8 | 24.0 | 196.0 | 6.00 |
| M\_085\_AA | -41.303 | 59.14185943 | -99.9 | -99.9 | -99.9 | 18.4 | 44.2 | 118.30 |
| M\_085\_BOL | -99.9 | 8.03e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_086\_AA | -23.133 | 56.65931094 | -99.9 | -99.9 | 16.4 | 19.4 | 24.8 | 119.30 |
| M\_086\_BOL | 10.421 | 20.36568445 | -99.9 | 11.4 | 14.2 | 16.0 | 24.1 | 4.60 |
| M\_087\_AA | -99.772 | 3.90322077 | -99.9 | -99.9 | -99.9 | -99.9 | 20.0 | 0 |
| M\_087\_BOL | -9.113 | 54.58501019 | -99.9 | -99.9 | 21.8 | 25.0 | 39.0 | 124.90 |
| M\_088\_AA | -79.813 | 44.09487450 | -99.9 | -99.9 | -99.9 | -99.9 | 33.2 | 0 |
| M\_088\_BOL | -53.076 | 57.82537862 | -99.9 | -99.9 | -99.9 | 17.3 | 26.5 | 117.18 |
| M\_089\_AA | -99.296 | 8.51417604 | -99.9 | -99.9 | -99.9 | -99.9 | 22.0 | 0 |
| M\_089\_BOL | 16.631 | 3.35177169 | 0 | 15.0 | 16.9 | 18.4 | 24.6 | 3.40 |
| M\_090\_AA | -99.9 | 3.20e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_090\_BOL | -43.495 | 58.13995290 | -99.9 | -99.9 | -99.9 | 16.4 | 27.2 | 116.30 |
| M\_091\_AA | -98.738 | 11.76573993 | -99.9 | -99.9 | -99.9 | -99.9 | 23.0 | 0 |
| M\_091\_BOL | 16.176 | 5.10419897 | 0 | 14.7 | 17.1 | 19.2 | 24.8 | 4.50 |
| M\_092\_AA | -6.362 | 48.96047116 | -99.9 | 15.0 | 18.4 | 20.4 | 29.6 | 5.40 |
| M\_092\_BOL | -0.845 | 43.27989450 | -99.9 | 14.6 | 17.3 | 19.6 | 26.6 | 5.00 |
| M\_093\_AA | -74.446 | 48.43521581 | -99.9 | -99.9 | -99.9 | -99.9 | 36.1 | 0 |
| M\_093\_BOL | -99.9 | 3.21e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_094\_AA | -26.001 | 57.75036513 | -99.9 | -99.9 | 16.4 | 18.7 | 24.6 | 118.60 |
| M\_094\_BOL | -10.023 | 59.07725432 | -99.9 | -99.9 | 27.2 | 30.2 | 39.9 | 130.10 |
| M\_095\_AA | -38.694 | 59.28926559 | -99.9 | -99.9 | 13.2 | 19.1 | 24.6 | 119.00 |
| M\_095\_BOL | -23.813 | 50.56287268 | -99.9 | -99.9 | 0 | 14.0 | 33.0 | 113.90 |
| M\_096\_AA | -15.029 | 52.88932618 | -99.9 | -99.9 | 16.5 | 19.0 | 33.6 | 118.90 |
| M\_096\_BOL | 4.173 | 39.17515486 | -99.9 | 15.5 | 18.0 | 20.0 | 40.0 | 4.50 |
| M\_097\_AA | -54.195 | 57.80215706 | -99.9 | -99.9 | -99.9 | 17.4 | 26.6 | 117.30 |
| M\_097\_BOL | -99.9 | 2.73e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_098\_AA | -99.9 | 4.33e-14 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_098\_BOL | -66.589 | 52.99449404 | -99.9 | -99.9 | -99.9 | 14.0 | 27.0 | 113.90 |
| M\_099\_AA | -5.185 | 57.85978610 | -99.9 | -99.9 | 29.4 | 32.2 | 37.2 | 132.10 |
| M\_099\_BOL | -99.9 | 2.52e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_100\_AA | 23.490 | 27.55764477 | -99.9 | 26.8 | 30.0 | 32.3 | 40.0 | 5.55 |
| M\_100\_BOL | 16.620 | 2.69797713 | 5.0 | 15.0 | 16.8 | 18.4 | 22.6 | 3.40 |
| M\_101\_AA | 18.676 | 35.45255489 | -99.9 | 25.4 | 29.6 | 32.0 | 41.5 | 6.60 |
| M\_101\_BOL | -99.9 | 4.27e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_102\_AA | 7.969 | 47.76093619 | -99.9 | 23.0 | 29.0 | 31.6 | 39.4 | 8.60 |
| M\_102\_BOL | -28.274 | 58.43170681 | -99.9 | -99.9 | 16.4 | 20.2 | 27.2 | 120.10 |
| M\_103\_AA | -99.9 | 3.20e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_103\_BOL | -99.9 | 1.54e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_104\_AA | -48.144 | 63.20483428 | -99.9 | -99.9 | -99.9 | 28.3 | 47.5 | 128.20 |
| M\_104\_BOL | -99.9 | 5.55e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_105\_AA | 11.662 | 44.00435691 | -99.9 | 23.3 | 29.4 | 31.6 | 36.6 | 8.25 |
| M\_105\_BOL | -99.9 | 7.11e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_106\_AA | -4.907 | 56.80758204 | -99.9 | -99.9 | 28.0 | 31.4 | 38.4 | 131.30 |
| M\_106\_BOL | 14.776 | 12.24052822 | -99.9 | 13.7 | 16.0 | 18.3 | 27.3 | 4.60 |
| M\_107\_AA | 0.390 | 53.51610814 | -99.9 | 19.0 | 28.0 | 31.4 | 37.8 | 12.40 |
| M\_107\_BOL | -95.398 | 25.96927625 | -99.9 | -99.9 | -99.9 | -99.9 | 325.0 | 0 |
| M\_108\_AA | -14.871 | 61.54225513 | -99.9 | -99.9 | 26.9 | 31.4 | 37.0 | 131.30 |
| M\_109\_AA | -9.565 | 58.97014318 | -99.9 | -99.9 | 27.2 | 31.0 | 39.5 | 130.90 |
| M\_109\_BOL | -21.411 | 53.00048022 | -99.9 | -99.9 | 12.0 | 15.5 | 28.0 | 115.40 |
| M\_110\_AA | -53.707 | 63.64623001 | -99.9 | -99.9 | -99.9 | 31.0 | 38.5 | 130.90 |
| M\_110\_BOL | 13.639 | 25.79148243 | -99.9 | 15.6 | 19.4 | 22.2 | 34.0 | 6.60 |
| M\_111\_AA | 3.311 | 54.89467782 | -99.9 | 21.2 | 32.0 | 34.8 | 56.7 | 13.50 |
| M\_111\_BOL | 17.479 | 15.38725697 | -99.9 | 18.2 | 19.4 | 20.9 | 103.0 | 2.70 |
| M\_112\_AA | -1.472 | 59.10425947 | -99.9 | -99.9 | 32.5 | 36.0 | 40.3 | 135.90 |
| M\_112\_BOL | -99.9 | 1.82e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_113\_AA | 0.750 | 56.30039319 | -99.9 | 16.5 | 32.0 | 34.5 | 40.0 | 18.00 |
| M\_113\_BOL | -1.143 | 44.10254482 | -99.9 | 13.0 | 17.5 | 21.0 | 29.0 | 8.00 |
| M\_114\_AA | -9.925 | 61.60036449 | -99.9 | -99.9 | 30.0 | 34.0 | 41.0 | 133.90 |
| M\_114\_BOL | -99.9 | 1.57e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_115\_AA | -18.211 | 63.84210485 | -99.9 | -99.9 | 28.3 | 33.2 | 40.6 | 133.10 |
| M\_115\_BOL | -57.456 | 54.62933047 | -99.9 | -99.9 | -99.9 | 11.8 | 24.4 | 111.70 |
| M\_116\_AA | -99.9 | 3.07e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_116\_BOL | -99.9 | 2.93e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_117\_AA | -77.500 | 49.20902089 | -99.9 | -99.9 | -99.9 | -99.9 | 39.4 | 0 |
| M\_117\_BOL | -81.361 | 43.20246102 | -99.9 | -99.9 | -99.9 | -99.9 | 28.5 | 0 |
| M\_118\_AA | -13.401 | 55.60958555 | -99.9 | -99.9 | 21.0 | 24.0 | 32.5 | 123.90 |
| M\_119\_AA | -99.9 | 1.73e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_119\_BOL | -23.924 | 61.34566817 | -99.9 | -99.9 | 21.8 | 26.0 | 58.0 | 125.90 |
| M\_120\_AA | -56.914 | 58.64851505 | -99.9 | -99.9 | -99.9 | 21.2 | 28.2 | 121.10 |
| M\_120\_BOL | -21.886 | 53.97988706 | -99.9 | -99.9 | 14.0 | 16.0 | 27.0 | 115.90 |
| M\_121\_AA | -11.921 | 54.90709303 | -99.9 | -99.9 | 21.0 | 23.8 | 39.4 | 123.70 |
| M\_121\_BOL | -34.484 | 58.22023748 | -99.9 | -99.9 | 13.1 | 18.0 | 26.2 | 117.90 |
| M\_122\_AA | 15.967 | 43.03486055 | -99.9 | 27.0 | 32.4 | 34.8 | 40.2 | 7.80 |
| M\_122\_BOL | -99.9 | 3.44e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_123\_AA | -99.9 | 3.13e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_123\_BOL | -22.314 | 53.42613263 | -99.9 | -99.9 | 12.1 | 15.8 | 25.5 | 115.70 |
| M\_124\_AA | -0.141 | 56.36895527 | -99.9 | 16.0 | 31.0 | 34.0 | 41.7 | 18.00 |
| M\_124\_BOL | -99.9 | 1.61e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_125\_AA | 8.000 | 51.06106968 | -99.9 | 23.3 | 32.0 | 34.7 | 41.3 | 11.40 |
| M\_126\_AA | 2.846 | 55.08165976 | -99.9 | 21.4 | 31.8 | 34.6 | 41.6 | 13.15 |
| M\_126\_BOL | 9.840 | 29.80275628 | -99.9 | 16.0 | 17.8 | 19.5 | 26.5 | 3.50 |
| M\_127\_AA | -16.420 | 63.84135493 | -99.9 | -99.9 | 29.0 | 34.5 | 37.6 | 134.40 |
| M\_127\_BOL | -99.9 | 1.16e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_128\_AA | -70.140 | 54.97304053 | -99.9 | -99.9 | -99.9 | -99.9 | 41.0 | 0 |
| M\_128\_BOL | -99.9 | 2.37e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_129\_AA | -99.9 | 1.74e-14 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_129\_BOL | -52.608 | 57.45111014 | -99.9 | -99.9 | -99.9 | 16.5 | 51.5 | 116.40 |
| M\_130\_AA | -1.024 | 46.47196253 | -99.9 | 16.3 | 20.0 | 22.3 | 34.5 | 6.00 |
| M\_131\_AA | -8.453 | 52.29851518 | -99.9 | 11.0 | 20.2 | 22.8 | 37.5 | 11.80 |
| M\_131\_BOL | 16.627 | 2.64216964 | 3.3 | 14.8 | 16.9 | 18.5 | 22.1 | 3.70 |
| M\_132\_AA | -1.354 | 47.13723126 | -99.9 | 16.5 | 20.3 | 22.8 | 31.6 | 6.30 |
| M\_132\_BOL | -99.9 | 3.27e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_133\_AA | -5.032 | 49.72955726 | -99.9 | 16.0 | 20.0 | 22.1 | 36.2 | 6.10 |
| M\_133\_BOL | -99.9 | 1.41e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_134\_AA | -17.634 | 57.10830004 | -99.9 | -99.9 | 20.5 | 22.2 | 27.0 | 122.10 |
| M\_134\_BOL | -99.9 | 1.60e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_135\_AA | -91.749 | 30.53525387 | -99.9 | -99.9 | -99.9 | -99.9 | 28.9 | 0 |
| M\_135\_BOL | -97.962 | 15.62282379 | -99.9 | -99.9 | -99.9 | -99.9 | 32.1 | 0 |
| M\_136\_AA | -46.654 | 60.83241355 | -99.9 | -99.9 | -99.9 | 22.0 | 36.0 | 121.90 |
| M\_136\_BOL | 11.803 | 22.93177920 | -99.9 | 15.0 | 16.4 | 17.7 | 25.1 | 2.70 |
| M\_137\_AA | -3.537 | 48.90880521 | -99.9 | 17.6 | 20.3 | 21.8 | 23.5 | 4.10 |
| M\_137\_BOL | -99.9 | 1.03e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_138\_AA | -17.412 | 52.90858658 | -99.9 | -99.9 | 15.1 | 17.5 | 31.2 | 117.40 |
| M\_138\_BOL | -23.973 | 55.73956565 | -99.9 | -99.9 | 15.0 | 17.5 | 27.5 | 117.40 |
| M\_139\_AA | -25.485 | 56.01532571 | -99.9 | -99.9 | 14.8 | 17.3 | 29.5 | 117.20 |
| M\_139\_BOL | 15.427 | 12.77634618 | -99.9 | 14.3 | 17.0 | 19.1 | 29.5 | 4.80 |
| M\_140\_AA | -58.803 | 55.61059855 | -99.9 | -99.9 | -99.9 | 15.0 | 36.0 | 114.90 |
| M\_141\_AA | -23.087 | 55.97928767 | -99.9 | -99.9 | 15.6 | 18.4 | 28.3 | 118.30 |
| M\_141\_BOL | -99.9 | 8.53e-14 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_142\_AA | -36.652 | 58.81866106 | -99.9 | -99.9 | 14.1 | 16.7 | 20.9 | 116.62 |
| M\_142\_BOL | -35.316 | 64.46291277 | -99.9 | -99.9 | 19.6 | 29.2 | 38.6 | 129.10 |
| M\_143\_AA | -20.949 | 54.98739116 | -99.9 | -99.9 | 15.6 | 18.2 | 43.9 | 118.10 |
| M\_143\_BOL | 8.790 | 41.46324714 | -99.9 | 20.3 | 24.0 | 26.6 | 48.0 | 6.30 |
| M\_144\_AA | -90.688 | 31.29194021 | -99.9 | -99.9 | -99.9 | -99.9 | 40.7 | 0 |
| M\_144\_BOL | -63.104 | 57.15262901 | -99.9 | -99.9 | -99.9 | 22.0 | 34.0 | 121.90 |
| M\_145\_AA | -99.9 | NaN | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_145\_BOL | -56.390 | 57.11653880 | -99.9 | -99.9 | -99.9 | 17.2 | 25.2 | 117.10 |
| M\_146\_AA | -30.204 | 63.68870569 | -99.9 | -99.9 | 20.0 | 27.9 | 34.0 | 127.80 |
| M\_146\_BOL | -99.9 | 1.40e-11 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_147\_AA | -11.044 | 58.78754121 | -99.9 | -99.9 | 25.0 | 30.2 | 42.5 | 130.10 |
| M\_147\_BOL | -99.9 | 2.00e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_148\_AA | -12.045 | 60.72288564 | -99.9 | -99.9 | 26.8 | 31.8 | 40.5 | 131.65 |
| M\_148\_BOL | -99.9 | 9.25e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_149\_AA | -91.253 | 32.35259257 | -99.9 | -99.9 | -99.9 | -99.9 | 38.5 | 0 |
| M\_149\_BOL | 9.125 | 30.64841268 | -99.9 | 13.5 | 17.4 | 20.5 | 31.5 | 7.00 |
| M\_150\_AA | -90.243 | 33.84267021 | -99.9 | -99.9 | -99.9 | -99.9 | 38.9 | 0 |
| M\_150\_BOL | -99.9 | 6.68e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_151\_AA | -83.407 | 42.79387589 | -99.9 | -99.9 | -99.9 | -99.9 | 37.8 | 0 |
| M\_151\_BOL | -99.9 | 6.69e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_152\_AA | -13.817 | 60.93158977 | -99.9 | -99.9 | 24.7 | 31.4 | 38.7 | 131.30 |
| M\_152\_BOL | -29.360 | 59.39146138 | -99.9 | -99.9 | 14.8 | 22.1 | 37.2 | 122.00 |
| M\_153\_AA | 5.606 | 49.72340582 | -99.9 | 20.0 | 28.0 | 32.2 | 42.8 | 12.20 |
| M\_153\_BOL | -31.999 | 58.46687218 | -99.9 | -99.9 | 15.0 | 19.0 | 28.0 | 118.90 |
| M\_154\_AA | -0.759 | 55.92204930 | -99.9 | 18.7 | 28.9 | 33.4 | 39.5 | 14.70 |
| M\_154\_BOL | -21.201 | 59.10915572 | -99.9 | -99.9 | 21.0 | 24.0 | 31.0 | 123.90 |
| M\_155\_AA | -61.844 | 58.48731900 | -99.9 | -99.9 | -99.9 | 22.0 | 47.4 | 121.90 |
| M\_155\_BOL | -99.9 | 5.12e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_156\_AA | 15.702 | 39.68528266 | -99.9 | 23.1 | 29.4 | 32.6 | 41.0 | 9.48 |
| M\_156\_BOL | -99.9 | 4.79e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_157\_AA | -7.676 | 58.10711005 | -99.9 | -99.9 | 26.1 | 31.7 | 41.5 | 131.60 |
| M\_157\_BOL | 17.500 | 21.09085601 | -99.9 | 17.5 | 21.1 | 23.9 | 36.7 | 6.45 |
| M\_158\_AA | -0.093 | 53.26559827 | -99.9 | 15.1 | 26.4 | 31.7 | 40.2 | 16.60 |
| M\_159\_AA | -99.9 | 2.99e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_160\_AA | -99.672 | 5.38925483 | -99.9 | -99.9 | -99.9 | -99.9 | 33.0 | 0 |
| M\_161\_AA | -8.497 | 55.03429672 | -99.9 | -46.2 | 22.0 | 28.1 | 34.3 | 74.30 |
| M\_162\_AA | -99.9 | 1.79e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_163\_AA | -99.9 | 2.99e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_164\_AA | -99.9 | 2.80e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_165\_AA | -10.541 | 61.29073917 | -99.9 | -99.9 | 27.2 | 34.0 | 56.7 | 133.90 |
| M\_166\_AA | -3.107 | 59.62634127 | -99.9 | -99.9 | 30.6 | 36.5 | 42.8 | 136.40 |
| M\_167\_AA | -28.261 | 64.98439967 | -99.9 | -99.9 | 20.0 | 32.3 | 44.1 | 132.20 |
| M\_168\_AA | -28.220 | 64.84867037 | -99.9 | -99.9 | 20.2 | 32.0 | 46.4 | 131.90 |
| M\_169\_AA | -27.928 | 64.39554234 | -99.9 | -99.9 | 20.3 | 30.6 | 45.3 | 130.45 |
| M\_170\_AA | 10.379 | 42.45309446 | -99.9 | 21.7 | 26.5 | 29.5 | 36.6 | 7.80 |
| M\_171\_AA | -1.667 | 52.38937808 | -99.9 | 16.2 | 25.0 | 28.6 | 37.6 | 12.35 |
| M\_172\_AA | -4.758 | 54.36144659 | -99.9 | 9.5 | 24.8 | 28.5 | 55.3 | 19.00 |
| M\_173\_AA | -99.701 | 4.82497937 | -99.9 | -99.9 | -99.9 | -99.9 | 17.0 | 0 |
| M\_174\_AA | -88.033 | 36.90301352 | -99.9 | -99.9 | -99.9 | -99.9 | 37.4 | 0 |
| M\_175\_AA | 3.126 | 48.74387663 | -99.9 | 18.4 | 25.2 | 28.8 | 38.0 | 10.40 |
| M\_176\_AA | -3.276 | 53.97722541 | -99.9 | 14.8 | 24.8 | 28.9 | 37.8 | 14.05 |
| M\_177\_AA | 3.369 | 50.43372803 | -99.9 | 17.8 | 26.1 | 31.5 | 42.8 | 13.70 |
| M\_178\_AA | -1.747 | 55.60244072 | -99.9 | 16.5 | 27.9 | 32.4 | 40.2 | 15.88 |
| M\_179\_AA | -96.648 | 20.18184452 | -99.9 | -99.9 | -99.9 | -99.9 | 31.0 | 0 |
| M\_180\_AA | -99.9 | 3.01e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_181\_AA | 11.894 | 42.98061057 | -99.9 | 21.1 | 27.8 | 32.5 | 41.6 | 11.45 |
| M\_182\_AA | -6.044 | 56.20803963 | -99.9 | -99.9 | 24.5 | 30.5 | 42.0 | 130.40 |
| M\_183\_AA | -75.056 | 50.21761636 | -99.9 | -99.9 | -99.9 | -99.9 | 39.0 | 0 |
| M\_184\_AA | -2.025 | 53.85913304 | -99.9 | 13.0 | 24.3 | 31.3 | 41.3 | 18.30 |
| M\_185\_AA | -98.921 | 11.20698835 | -99.9 | -99.9 | -99.9 | -99.9 | 32.0 | 0 |
| M\_186\_AA | -17.249 | 57.15239366 | -99.9 | -99.9 | 13.3 | 23.8 | 32.8 | 123.70 |
| M\_187\_AA | -99.9 | 1.35e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_188\_AA | -96.551 | 20.74152969 | -99.9 | -99.9 | -99.9 | -99.9 | 42.0 | 0 |
| M\_189\_AA | -86.728 | 38.94619027 | -99.9 | -99.9 | -99.9 | -99.9 | 45.3 | 0 |
| M\_190\_AA | -14.781 | 62.69707165 | -99.9 | -99.9 | 26.5 | 33.4 | 39.7 | 133.30 |
| M\_191\_AA | -9.972 | 59.54682345 | -99.9 | -99.9 | 25.0 | 32.2 | 46.0 | 132.05 |
| M\_192\_AA | -33.404 | 63.11319901 | -99.9 | -99.9 | 13.5 | 24.9 | 36.0 | 124.80 |
| M\_193\_AA | 5.044 | 44.56733733 | -99.9 | 18.9 | 22.8 | 26.1 | 33.9 | 7.20 |
| M\_194\_AA | 12.751 | 32.71638338 | -99.9 | 19.1 | 21.8 | 24.4 | 33.3 | 5.30 |
| M\_195\_AA | 15.988 | 25.91876868 | -99.9 | 18.4 | 21.2 | 24.6 | 29.9 | 6.20 |
| M\_196\_AA | 12.135 | 33.20077205 | -99.9 | 18.7 | 21.2 | 24.6 | 29.6 | 5.90 |
| M\_197\_AA | 7.091 | 40.30778707 | -99.9 | 18.3 | 21.1 | 24.4 | 58.0 | 6.10 |
| M\_198\_AA | -2.965 | 50.06419599 | -99.9 | 18.0 | 21.0 | 25.0 | 40.6 | 7.00 |
| M\_199\_AA | -33.361 | 61.13695496 | -99.9 | -99.9 | 18.0 | 23.0 | 34.0 | 122.90 |
| M\_200\_AA | -99.9 | 2.44e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_201\_AA | 15.046 | 27.10650794 | -99.9 | 18.3 | 20.8 | 24.2 | 29.2 | 5.90 |
| M\_202\_AA | -6.653 | 53.34912274 | -99.9 | 19.7 | 20.7 | 21.7 | 25.9 | 2.00 |
| M\_203\_AA | -37.182 | 62.07921795 | -99.9 | -99.9 | 18.0 | 25.0 | 28.0 | 124.90 |
| M\_204\_AA | -44.690 | 60.85407951 | -99.9 | -99.9 | -99.9 | 22.0 | 26.0 | 121.90 |
| M\_205\_AA | -99.9 | 3.78e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_206\_AA | -7.562 | 51.74857599 | -99.9 | 16.1 | 20.0 | 22.8 | 31.1 | 6.70 |
| M\_207\_AA | -3.546 | 49.34674787 | -99.9 | 17.0 | 20.0 | 23.0 | 40.0 | 6.00 |
| M\_208\_AA | -64.486 | 54.66572533 | -99.9 | -99.9 | -99.9 | 16.0 | 32.0 | 115.90 |
| M\_209\_AA | -99.566 | 6.45842525 | -99.9 | -99.9 | -99.9 | -99.9 | 25.0 | 0 |
| M\_210\_AA | 13.887 | 28.39593155 | -99.9 | 17.7 | 20.2 | 23.6 | 28.7 | 5.90 |
| M\_211\_AA | 7.423 | 38.26051889 | -99.9 | 17.8 | 19.9 | 23.3 | 28.2 | 5.50 |
| M\_212\_AA | 8.413 | 37.79037034 | -99.9 | 18.2 | 20.6 | 23.7 | 31.2 | 5.50 |
| M\_213\_AA | -7.356 | 55.80460646 | -99.9 | -38.6 | 24.4 | 25.5 | 27.4 | 64.15 |
| M\_214\_AA | -40.650 | 83.79215357 | -99.9 | -70.3 | -40.6 | -11.0 | 18.6 | 59.25 |
| M\_215\_AA | -2.247 | 51.11417393 | -99.9 | 22.2 | 23.2 | 24.1 | 27.2 | 1.88 |
| M\_216\_AA | -53.816 | 59.43757075 | -99.9 | -99.9 | -99.9 | 22.0 | 35.4 | 121.90 |
| M\_217\_AA | -99.9 | 9.39e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_218\_AA | 0.335 | 48.08634937 | -99.9 | 19.8 | 23.0 | 24.6 | 30.6 | 4.80 |
| M\_219\_AA | -1.193 | 51.11131363 | -99.9 | 21.2 | 23.2 | 24.5 | 26.6 | 3.30 |
| M\_220\_AA | -3.035 | 50.71086214 | -99.9 | 19.0 | 22.8 | 24.6 | 28.6 | 5.60 |
| M\_221\_AA | -11.544 | 55.68891794 | -99.9 | -99.9 | 22.5 | 24.6 | 30.4 | 124.50 |
| M\_222\_AA | 14.255 | 25.48470479 | -99.9 | 17.0 | 19.4 | 22.6 | 28.6 | 5.60 |
| M\_223\_AA | 7.374 | 36.79726869 | -99.9 | 16.9 | 19.1 | 21.9 | 28.3 | 5.00 |
| M\_224\_AA | 10.319 | 33.11174657 | -99.9 | 17.4 | 19.8 | 22.3 | 30.6 | 4.90 |
| M\_225\_AA | 7.985 | 35.59844281 | -99.9 | 16.7 | 18.8 | 21.8 | 31.8 | 5.10 |
| M\_226\_AA | -2.132 | 46.90053898 | -99.9 | 16.2 | 19.0 | 22.0 | 33.0 | 5.80 |
| M\_227\_AA | 9.069 | 34.70103142 | -99.9 | 17.2 | 18.9 | 22.2 | 30.0 | 5.00 |
| M\_228\_AA | -25.969 | 58.70854766 | -99.9 | -99.9 | 17.0 | 21.0 | 29.0 | 120.90 |
| M\_229\_AA | -99.9 | 4.08e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_230\_AA | -99.9 | 5.23e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_231\_AA | -99.9 | 1.86e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_232\_AA | -99.9 | 2.35e-12 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_233\_AA | -99.9 | 4.33e-14 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_234\_AA | -76.883 | 46.41218892 | -99.9 | -99.9 | -99.9 | -99.9 | 26.1 | 0 |
| M\_235\_AA | -99.594 | 5.64104444 | -99.9 | -99.9 | -99.9 | -99.9 | 22.0 | 0 |
| M\_236\_AA | -89.692 | 35.16920957 | -99.9 | -99.9 | -99.9 | -99.9 | 41.0 | 0 |
| M\_237\_AA | -61.103 | 59.49796162 | -99.9 | -99.9 | -99.9 | 22.4 | 43.6 | 122.30 |
| M\_238\_AA | -99.9 | NaN | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_239\_AA | -91.729 | 33.68819832 | -99.9 | -99.9 | -99.9 | -99.9 | 39.0 | 0 |
| M\_240\_AA | 18.500 | NaN | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 0 |
| M\_241\_AA | -76.528 | 45.12196290 | -99.9 | -99.9 | -99.9 | -99.9 | 15.8 | 0 |
| M\_242\_AA | -4.786 | 60.58292981 | -99.9 | -99.9 | 31.6 | 36.4 | 45.0 | 136.30 |
| M\_243\_AA | -33.460 | 65.64185790 | -99.9 | -99.9 | 15.6 | 32.0 | 44.2 | 131.90 |
| M\_244\_AA | -99.9 | 2.91e-14 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_245\_AA | -70.527 | 54.31202680 | -99.9 | -99.9 | -99.9 | -99.9 | 42.2 | 0 |
| M\_246\_AA | 0.883 | 56.34322320 | -99.9 | 17.8 | 31.0 | 35.6 | 42.5 | 17.80 |
| M\_247\_AA | -28.422 | 65.64360631 | -99.9 | -99.9 | 21.0 | 33.4 | 43.6 | 133.30 |
| M\_248\_AA | -6.350 | 60.04213837 | -99.9 | -99.9 | 29.0 | 35.2 | 43.0 | 135.10 |
| M\_249\_AA | -99.9 | 1.52e-14 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_250\_AA | -6.877 | 55.94762827 | -99.9 | -44.5 | 22.6 | 31.2 | 35.5 | 75.70 |
| M\_251\_AA | -73.825 | 52.15000000 | -99.9 | -99.9 | -99.9 | -73.8 | 4.4 | 26.08 |
| M\_252\_AA | -99.9 | 1.74e-14 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_253\_AA | -99.9 | 9.97e-14 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_254\_AA | 3.102 | 41.72730835 | -99.9 | 16.1 | 18.9 | 22.2 | 35.0 | 6.10 |
| M\_255\_AA | -21.158 | 56.10369251 | -99.9 | -99.9 | 16.5 | 20.0 | 45.0 | 119.90 |
| M\_256\_AA | -99.9 | NaN | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_257\_AA | -68.290 | 55.18418044 | -99.9 | -99.9 | -99.9 | -99.9 | 42.2 | 0 |
| M\_258\_AA | 27.268 | 7.74384860 | -99.9 | 23.8 | 28.0 | 32.2 | 40.0 | 8.45 |
| M\_259\_AA | -20.727 | 62.10307712 | -99.9 | -99.9 | 22.0 | 29.8 | 44.3 | 129.70 |
| M\_260\_AA | 25.358 | 15.81380547 | -99.9 | 22.2 | 27.2 | 32.0 | 42.0 | 9.80 |
| M\_261\_AA | -99.9 | NaN | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_262\_AA | -99.9 | 2.70e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_263\_AA | -99.9 | 0 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_264\_AA | -99.9 | 3.84e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_265\_AA | -50.910 | 62.01636506 | -99.9 | -99.9 | -99.9 | 24.8 | 44.0 | 124.70 |
| M\_266\_AA | 25.992 | 14.29595954 | -99.9 | 22.5 | 27.5 | 32.3 | 60.1 | 9.77 |
| M\_267\_AA | -99.9 | NaN | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_268\_AA | -99.9 | 1.57e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_269\_AA | 10.386 | 41.16632274 | -99.9 | 18.8 | 25.0 | 29.6 | 38.3 | 10.85 |
| M\_270\_AA | 22.162 | 18.75750312 | -99.9 | 20.1 | 24.9 | 29.4 | 41.3 | 9.30 |
| M\_271\_AA | 17.146 | 8.26375299 | 3.2 | 8.9 | 18.9 | 22.9 | 31.6 | 14.00 |
| M\_272\_AA | -11.218 | 57.22796213 | -99.9 | -99.9 | 22.0 | 28.2 | 49.0 | 128.10 |
| M\_273\_AA | -97.444 | 17.36450461 | -99.9 | -99.9 | -99.9 | -99.9 | 45.0 | 0 |
| M\_274\_AA | -99.9 | NaN | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_275\_AA | 22.006 | 18.78269560 | -99.9 | 20.0 | 25.0 | 28.9 | 38.9 | 8.90 |
| M\_276\_AA | -13.466 | 57.01610331 | -99.9 | -99.9 | 21.1 | 27.2 | 37.2 | 127.10 |
| M\_277\_AA | 23.712 | 7.54332828 | -99.9 | 20.6 | 24.8 | 28.4 | 36.8 | 7.80 |
| M\_278\_AA | 20.541 | 18.74333826 | -99.9 | 19.0 | 23.6 | 27.5 | 37.5 | 8.50 |
| M\_279\_AA | -15.165 | 57.72906642 | -99.9 | -99.9 | 20.6 | 26.5 | 47.5 | 126.40 |
| M\_280\_AA | -99.9 | 2.14e-13 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_281\_AA | -99.586 | 6.26067129 | -99.9 | -99.9 | -99.9 | -99.9 | 25.0 | 0 |
| M\_282\_AA | -97.468 | 17.70577669 | -99.9 | -99.9 | -99.9 | -99.9 | 29.0 | 0 |
| M\_283\_AA | 17.058 | 38.21973516 | -99.9 | 22.2 | 28.9 | 33.9 | 48.9 | 11.70 |
| M\_284\_AA | -26.316 | 64.22617020 | -99.9 | -99.9 | 20.6 | 31.2 | 46.5 | 131.10 |
| M\_285\_AA | -2.236 | 55.54806275 | -99.9 | 12.2 | 27.2 | 32.8 | 43.9 | 20.60 |
| M\_286\_AA | 28.113 | 15.83411104 | -99.9 | 25.0 | 30.6 | 35.0 | 44.0 | 10.00 |
| M\_287\_AA | 15.325 | 40.82006454 | -99.9 | 21.7 | 29.3 | 34.1 | 46.0 | 12.38 |
| M\_288\_AA | -6.294 | 58.03679134 | -99.9 | -99.9 | 26.2 | 32.8 | 52.1 | 132.70 |
| M\_289\_AA | -98.920 | 11.22458404 | -99.9 | -99.9 | -99.9 | -99.9 | 33.0 | 0 |
| M\_290\_AA | -99.9 | NaN | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_291\_AA | -99.9 | NaN | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_292\_AA | -99.9 | NaN | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_293\_AA | -99.9 | 0 | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |
| M\_294\_AA | -99.9 | NaN | -99.9 | -99.9 | -99.9 | -99.9 | -99.9 | 0 |