

## **MT**

The 30 MT sites used in this work were a compilation of various data campaigns conducted by Vázquez González et al. (1993, 1994), Cortés Arroyo (2011), and in 2021 for this study. The files from which the resistivity model was generated are: the observed data (*all.dat*), the inversion result data (*ModEM\_v01\_NLCG\_004.dat*), the resistivity model (*ModEM\_v01\_NLCG\_004.mod*), and the file "*ModEM\_v01\_NLCG.log*", which contains general information about the inversion. These files can be viewed using the 3D-GRID Model and Data Visualizer (academic version).

## **Gravity**

The complete Bouguer anomaly data were obtained by integrating data acquired in Sierra Juárez in 2021 as part of this research work, along with the compilation of two documented gravimetric databases from the studies by Kelm (1971) and García-Abdeslem et al. (2001).

The processed data, corrected for the corresponding gravimetric adjustments (Tide effect, instrumental drift correction, theoretical gravity calculation using the 1930 formula, absolute gravity determination, absolute gravity anomaly, free-air correction, free-air anomaly, Bouguer correction assuming a density value of  $2.7 \text{ g/cm}^3$ , simple Bouguer anomaly, and topographic correction), are presented in .csv format, which can be used to generate the gravity anomaly map.

The .GRD format represents the grid containing the gravity anomaly map, while the .shp files correspond to the locations of profiles A, B, and C.