

A comparison between satellite data and data from geomagnetic stations over Mexico

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A b s t r a c t: A preliminary investigation was conducted to obtain the borders of anomalies over Mexico by means of a qualitative comparison of earth surface data and data obtained from satellites. Two important sources of geomagnetic data are analyzed, i.e. data from satellites and geomagnetic data of Mexico. Even though the main geomagnetic field is the principal objective of these projects, it is important to pay attention to the information present in these data. This is due to the crust regional features that can be observed from both sources, which also correlates with observations at two different altitudes. Resolution in both types of data may differ in specific features using techniques that can help us to answer questions about the geomagnetic surface stations in the national grid. They are still useful to describe the main field with some crust features of regional magnetic anomalies (200 km or more). Satellite data of a quality enabling the downward continuation achieve the same results.

Key words: geomagnetism, satellite, geomagnetic charts

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