

Geophysical Data | Magnetic Intensity

About Tellus

Tellus is a national programme to gather geochemical and geophysical data across the island of Ireland, examining the chemical and physical properties of our soils, rocks and waters. The data will help to inform the management of Ireland's environment and natural resources. Tellus is undertaken by the Geological Survey Ireland and is funded by the Department of Communications, Climate Action and Environment.

The airborne survey collects magnetic, gamma ray spectrometry and frequency domain electromagnetic data. This data helps measure variations in the Earth's magnetic field, natural radiation and the conductivity of rocks and soils respectively. The aircraft flies at a nominal altitude of 60 m on a 345° heading in rural areas. Flight lines were spaced 200 m apart.

Magnetic Intensity

The map displays the residual magnetic intensity resulting from the different magnetic properties of the rocks in the area. Data is illuminated from the NE. Negative values correspond to rocks with an opposite polarity to the Earth's current magnetic field. The data shows the response of rocks from the surface to several kilometres depth. This data will help in the remapping of existing geological maps and identifying new geological features and structures.

Free data & maps at www.gsi.ie/tellus

