

DIURNAL MAGNETIC DATA

For marine magnetic surveys the only way to discriminate between geological anomalies or diurnal magnetic events is to continuously monitor the earth's magnetic field at a single location. Fugro-LCT has an extensive library of active magnetic observatory locations worldwide and can advise on the suitability of diurnal data from one of these observatories for any particular survey location. This option is usually the most cost effective solution with observatory data being provided at a small daily charge.

Additionally, Fugro-LCT can obtain samples of diurnal magnetic data from observatories during the course of a survey to check whether or not a particular magnetic event has a geological or diurnal origin.



Complete Geometrics G856 magnetometer system

Part of Fugro-LCT's archive of magnetic observatories.



Fugro-LCT will advise if no existing magnetic observatory is appropriate for a particular survey, in which case it will be necessary to establish a dedicated base magnetometer station. For this purpose Fugro-LCT typically use Geometrics G856 land magnetometers with a digital data acquisition system. Rugged, reliable and simple in operation, once a magnetically clean and secure site has been found and the equipment installed and tested, a non-specialist technician, possibly part of the client oil company's in-country team, can be instructed in logging of the data.

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