

INDIGO PROJECT IN ARGENTINA



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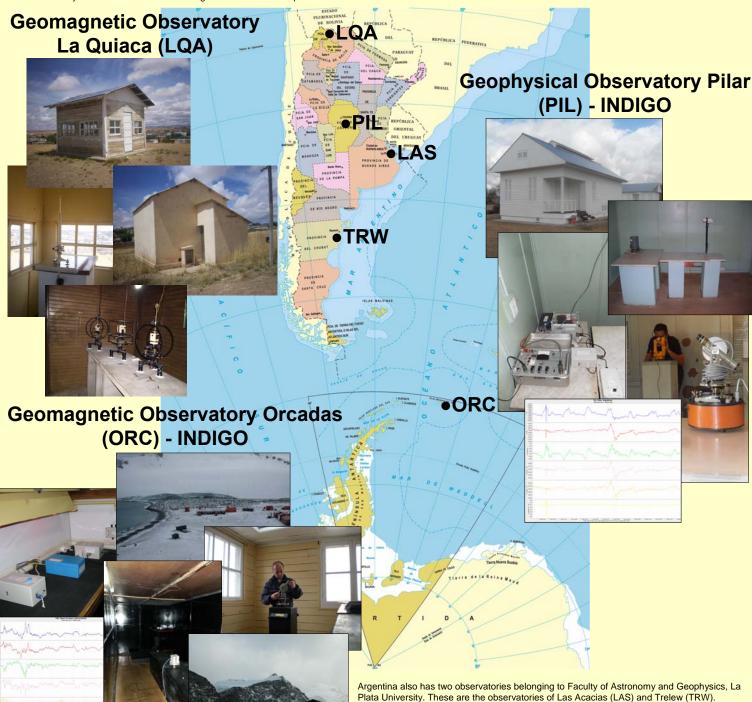
The INDIGO Digital Observatory Project by the British Geological Survey and Institut Royal Météorologique started in 2004 to develop digital Magnetic Observatories around the World. These Observatories recording data each 5 second

The observatories in Argentina are very old. The Servicio Meteorologico Nacional have three magnetic observatories: Geophysical Observatory Pilar (PIL), Geomagnetic Observatory La Quiaca (LQA) and Geomagnetic Observatory Orcadas (ORC). Pilar is in the centre of the country, La Quiaca to NorthWest and Orcadas close to the Antarctic Peninsular.

Base Orcadas was started from Scotland in 1903, becoming the responsibility of Argentina in 1904. Orcadas and Pilar, established in 1904, are the oldest observatories of Argentina. Since this time until the today, these observatories have continued recording. During the last decade, the observatories were modernised with new, digital instruments. La Quiaca began operating in 1922 but currently, the observatory is not recording due to a lack of geomagnetic instruments..

All five Argentinian observatories have great importance for the study of the SAMA and especially La Quiaca, which is located close to the center of this anomaly. These observatories also significant for global modelling and contribute to the International

In December 2010, recordings began at Pilar with new instruments, provided by BGS as part of the INDIGO project. Modernising Pilar was seen as vital for the study of terrestrial magnetism by the Servicio Meteorológico National. Thanks to the success of Pilar and to continue the development of the Argentinian observatory network, in February 2012, a new INDIGO system was installed at the South Orkney Island observatory of Base Orcadas. This is now working successfully. An upgrade of La Quiaca is also planned with the same INDIGO system once an Overhauser magnetometer has been purchased.



Geomagnetic Reference Field