

International Centre for Earth Tides (ICET)

<http://www.upf.pf/ICET/>

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Overview

The period from mid-2007 to mid-2009 was essentially devoted to the translation of ICET from Brussels to Papeete. This includes three main points: web site, the “Bulletin des Marées Terrestres, BIM”, and GGP data stream validation.

Main Activities

- 1/ The web site of ICET was entirely migrated from the Royal Observatory of Belgium to the University of French Polynesia.
- 2/ A prototype of the new ICET database has been tested and presented at the ETS2008 meeting in Vienna. The database is able to store any kind of data related to Earth Tides, and not only cryogenic gravimeter data.
- 3/ The server that will host the new ICET database as been bought (6000 euros) by the University Central Bureau on Information technologies and Networks (RENATER). The ICET database will be online by December 2009 on a test basis.
- 4/ A new validation software to treat the GGP data has been written. The purpose of this software is to discard jumps and spikes in the raw data on an automated, or nearly automated basis. Based on Wiener-Kolmogorov filtering techniques, it responds to the critics raised during the ETS2008 meeting in Iena, by re-adding the "noise" to the GGP filtered data. We hope to start routine operations on GGP data by September 2009.
- 5/ A GGP “header” script is also under completion. The purpose of this script, written in Python, is to enforce a strict standardization of GGP file headers, in order to completely automatize their validation and archiving.
- 6/ The BIM 144 has been completed and is on line on the ICET website. BIMs 145 and 146 will be on line soon. All together, they will gather more than 25 papers presented at the ETS2008.
- 7/ The new gPhone gravimeter of the ICET centre has been received late December and is now in operation in Tahiti-Pamatai. We observed on April 16, 2008 a 6.6 Earthquake in the South Sandwich Islands.
- 8/ ICET is also participating in the deployment in French Polynesia of a network of Tide-Gauge / GPS stations (POGENET, POLynesian GEodetic NETwork), as a contribution to the GGOS effort.

References

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