



The International Geomagnetic Reference Field: the twelfth generation

Erwan Thebault (1), Christopher Finlay (2), and The IGRF Working Group (3)

(1) Laboratoire de Planétologie et de Géodynamique de Nantes, Nantes, France, (2) DTU SPACE National Space Institute, Copenhagen, Denmark, (3) <http://www.ngdc.noaa.gov/IAGA/vmod/igrf.html>

The IGRF is an internationally-agreed reference model of the Earth's magnetic field produced under the auspices of the International Association of Geomagnetism and Aeronomy. The IGRF-12 is the latest update of this well-known model which is used each year by many thousands of users for both industrial and scientific purposes. In October 2014, ten institutions worldwide have made contributions to the IGRF. These models were evaluated and the twelfth generation of the International Geomagnetic Reference Field (IGRF) was adopted in December 2014. In this presentation, we will report on the IGRF activities, briefly describe the candidate models, summarize the evaluation of models performed by different independent teams, show how the IGRF-12 models were calculated and finally discuss some of the main magnetic features of this new model.