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GAMMA-2: a revision of the candidate for the World Digital Magnetic Anomaly Map

Mohamed HamoudiI (1), Vincent Lesur (1), Jerome Dyment (2), and Erwan Thebault (2)

(1) Helmholtz-Zentrum, Deutsches GeoForschungsZentrum, Potsdam, Germany, hamoudi@gfz-potsdam.de, (2) Institut de Physique du Globe de Paris, 1 Rue Jussieu, 75005, Paris

The World Digital Magnetic Anomaly Map (WDMAM) is an international ongoing effort towards the mapping of worldwide available airborne, shipborne and satellite magnetic data.
We discuss in this work the geographical distribution and quality of the new magnetic data sets available for the WDMAM. The aim is to compile and produce a new global map in the year. We show that an important problem remains due to the large data gaps over Africa, Central and South America and parts of Asia. A second important issue is related to marine data. Despite the great efforts already made by Quesnel et al (J. G. R., 114, B04106, doi: 10.1029/2008JB006144, 2009), still an important amount of work is necessary, for interpolating these data and for including a priori information associated with oceanic magnetic lineations. Finally, we show the improvements of the new draft version of our WDMAM candidate model compared with the previous one.