

Marine Magnetism in Remote Areas: filling gaps together in education, research and observations

IUGG financial support will be critical to fund the travel of international students and young scientists from developing countries (e) to acquire new data of importance for plate tectonic studies (a), data that will immediately be made available to the community (b).

IUGG institutional support will be essential to give the project authority to approach and discuss the scheduling of research vessels with oceanographic institutions.

The project aims to use selected transits carried out by oceanographic vessels as part of an educational project to train students of developing countries to the acquisition, basic processing and initial interpretation of marine magnetic data.

The proposed scheme, to be refined during implementation, will

- train international students, preferentially from developing countries, to marine magnetism;
- complement marine magnetic data sets in remote and poorly covered areas; these data are essential to the World Digital Magnetic Anomaly Map (an IAGA initiative) and to the construction of upgraded plate tectonic models of regional and global importance;
- distribute these new and essential data immediately and without restriction to the interested community;
- make efficient use of oceanographic vessels by valorizing (acquiring data) on transits;
- promote international exchanges of (young) scientists and instruments;
- trigger renewed interest to detailed plate tectonic studies.