



IGC
2024

The 37th International Geological
Congress 2024



IUGS

International Union of Geological Sciences

IGC 2024

The 37th International Geological Congress

Abstract Book

Busan, Korea
25-31 August 2024

www.igc2024korea.org



Overview of geochemical mapping in the Geological Surveys of Ibero-America.

Iván MARTÍN-MÉNDEZ^{1*}, IGME-CSIC (i.martin@igme.es)

Maria Joao Batista², LNEG

Gloria Prieto³, The Commission on Global Geochemical Baselines (CGGB), IUGS

Andrea Turel⁴, SEGEMAR

Geochemical Expert Group ASGMI⁵, ASGMI

Abstract

In recent years, the Geological Surveys of Ibero-America have collaborated through the Association of Iberoamerican Geological and Mining Surveys (ASGMI) experts group to exchange information about the status of the different geological and mining activities in the region and to share experiences in geosciences programs in each country. The Geochemistry Expert Group (GEGOQ-ASGMI) has proposed the development of a manual of geochemical methodologies (Batista et al. 2023) employed by as its main ASGMI member countries that could be used for other countries to promote their knowledge of geochemistry and its applications.

The preparation of this manual has allowed us to understand the status of geochemical work in each country. While most of the Geological Surveys have systematically generated geochemical information for their projects and programs, the methodologies employed to generate this information have been diverse and have not corresponded to homogeneous standards. Most of the countries of the GEG have only partially mapped their territory geochemically, with varying sampling densities. Spain and Portugal are the only countries to have achieved complete coverage of their territory. Honduras, Ecuador, and Argentina and Brasil have covered 30 to 40% of their territory. Colombia has covered 95%, while Cuba and Peru have covered 77%. Most countries have achieved regional coverage with different objectives, using distinct sampling media and diverse analytical techniques to obtain data. However, this has not yet allowed us to create a geochemical map of the entire region

The exchange of information has corroborated the need to work jointly among the ASGMI member countries to have more harmonized information at the continent level.

Keyword

geochemical mapping, Ibero-America, geological surveys, ASGMI