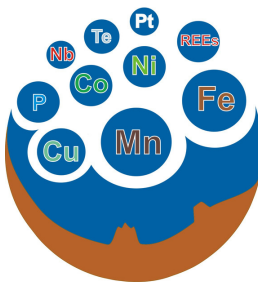


MINDeSEA

NEWSLETTER



MINDeSEA

Seabed Mineral Deposits in European Seas:
Metallogeny and Geological Potential for
Strategic and Critical Raw Materials

THE PROJECT MINDeSEA

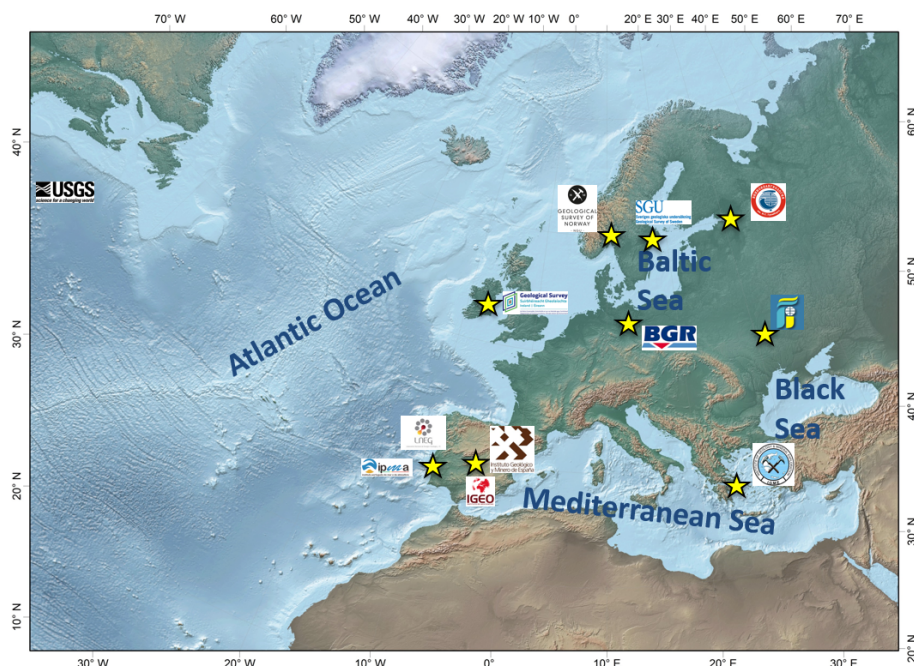
The project MINDeSEA addresses an integrative metallogenetic study of principal types of seabed mineral resources (hydrothermal sulfides, ferromanganese crusts, phosphorites, marine placers and polymetallic nodules) in the European Seas. The MINDeSEA working group has both knowledge of and expertise in mineralisation, exploration results, sample repositories and databases to produce innovative contributions. The importance of submarine mineralisation systems is related to the abundance and exploitation-potential of many strategic metals and Critical Raw Materials (CRM), necessary for the modern society development.

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Geographical scope and Partners of MINDeSEA

The objectives of MINDeSEA are the following: 1) Characterise deposit types; 2) Characterise the trace element content of the deposit type including CRM; 3) Identify the principal metallogenic provinces; 4) Develop harmonised mineral maps and datasets of seabed deposits incorporating Geological Survey Organizations datasets, along with mineral-potential and prospectivity maps; 5) Demonstrate how the cases study results can be used in off-shore mineral exploration; 6) Analyse present-day exploration and exploitation status in terms of regulation, legislation, environmental impacts, exploitation and future directions; 7) Demonstrate efficiency of a pan-European research approach to understanding seabed minerals and modes of exploration. The project results will include: procedures for submarine minerals exploration; mineral evaluation and seafloor minerals mapping; a web service that will disseminate procedures, maps and information to the general public, downstream users and decision makers. Our partners institutes are national agencies with responsibility for coastal and marine geological process including minerals studies. They comprise, the geological surveys of Spain (Coordinator), Germany, Greece, Ireland, Norway, Portugal, Sweden and Ukraine; and the Instituto Português do Mar e da Atmosfera; the United States Geological Survey; the All-Russia Scientific Research Institute for Geology and Mineral Resources of the Ocean; and the Geosciences Institute.

More information about the project MINDeSEA at:

<http://geoera.eu/projects/mindesea/>

Seafloor mineral deposits represent the most important yet least explored resource of Critical Raw Materials and base metals on the planet.



Work package Leaders of the project MINDeSEA during the Kick-off Meeting.



Ferromanganese crusts contain critical elements such as Co, V, Ni, Pt and REEs.



Mapping the exploration areas of hydrothermal vents and associated mineral deposits, a task for MINDeSEA.

GeoERA STARTS

GeoERA is a H2020 ERA-NET that started in January 2017 to establish the European Geological Surveys Research Area, advocating the free movement of researchers, knowledge and technology and align national geoscientific research agendas. The Program is dotted with 30M EUR. Within GeoERA 48 national and regional Geological Survey Organisations from 33 European countries joined forces and will carry out 15 transnational research projects.

Projects will focus on harmonizing data, information and expertise across borders, improving current methodologies and modelling techniques. GeoERA will create valuable, accessible and public results for policy-makers and end-users of geological data and information in Europe. All results will be made public through the GeoERA Information Platform a web-based information system building up on the existing European Geological Data Infrastructure (EGDI).



Yvonne Schavemaker (TNO) introduces our Cooperative Program during the Kick-off Meeting of GeoERA in Brussels

GeoERA Kick-off Event was taken place from the 3rd (public) to the 5th July 2018 at the Conference Center Bluepoint, in Brussels (Belgium). Tasks, deliverables, milestones, synergies and impact of GeoERA projects were discussed, and recommendations from the European Commission and GeoERA's Stakeholder Council received.

Learn more about the GeoERA and project descriptions at: <http://geoera.eu/>

NEWS AND EVENTS

GOLDSCHMIDT® BOSTON 2018 | AUGUST 12-17

Session 5g: Constraining the Formation of Modern and Ancient Marine Mineral Deposits <https://goldschmidt.info/2018/>



International Conference on Asian Marine Geology <http://icamg-9.tongji.edu.cn/>



UNDERWATER MINING CONFERENCE
September 10-14

Deep-Sea Mining: Challenges of Going Further and Deeper Advances in Marine Research and Subsea Technology Beyond Oil and Gas
<http://www.underwatermining.org/>



31 October - 01 November 2018
Marine Minerals: A New Resource for the 21st Century
<https://www.geolsoc.org.uk/marineminerals18>



Session OS020: Global Developments in Seafloor Mapping: Gaining a Greater Insight into Earth Systems
<https://fallmeeting.agu.org/2018/>

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The digital Newsletter is also available in our **website** 

Our next newsletter is scheduled for December 2018,
SO GET IN ALL YOUR NEWS AND VIEWS, SIGNIFICANT PUBLICATIONS, CRUISE SUMMARIES, CONFERENCES, etc.
submitted to Coordinator Javier Gonzalez for inclusion (fj.gonzalez@igme.es)

