

Online Chat 8 May 2020 (08:30–10:15 a.m. CEST)

ERE1.2 GeoERA: Towards integrated European geoscience services for today's and future generations

Conveners: Laura Quijano¹, Gregor Goetzl², Mikael Pedersen³, Rob Ward⁴, Irene Zananiri⁵

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This session will address integrated European geoscience services that will provide advice and data to Europe towards a sustainable subsurface management, integrating geo-resources (energy, water, raw materials) and environmental conditions (energy storage, natural hazards, anthropogenic impacts, biodiversity, climate change mitigation and adaptation), supported by a cross-thematic online information platform. <https://meetingorganizer.copernicus.org/EGU2020/session/34714>

DISPLAY ORDER

All displays of the session will be presented by GeoERA scientific themes. <https://geoera.eu/>

Presenting authors and attendees could discuss displays in the following thematic order: Geo-Energy, Groundwater and Raw Materials.

Starting Time 8:30 a.m. CEST Starting Display D703

GeoERA Theme	# Display	PROJECT
	703, 715	GeoConnect ^{3d}
	704, 716	MUSE
	711, 713, 714	GARAH
	701	HOVER - RESOURCE - TACTIC - VoGERA
	707	TACTIC
	709	VoGERA
	710	HOVER
	717	EuroLithos - FRAME - MINDeSEA - Mintell4EU
	722	EuroLithos
	706, 723	MINDeSEA
	702, 721	Mintell4EU
	705, 718, 719, 720	FRAME
GeoERA Programme	708	HOVER - TACTIC - EuroLithos - FRAME - Mintell4EU, HotLime - HIKE - GeoERA Information Platform

Ending Time 10:15 a.m. CEST Ending Display D708



D701 | EGU2020-4253

Integrated and sustainable management of subsurface resources - Introducing the contributions of the four GeoERA groundwater projects to the European Geological Data Infrastructure

Klaus Hinsby, Laurence Gourcy, Hans Peter Broers, Anker L. Højberg, and Marco Bianchi

D702 | EGU2020-17309

Minerals Inventory as a part of Mineral Intelligence for Europe

Špela Kumelj, Andrej Vihtelič, Katarina Hribernik, and Jernej Bavdek

D703 | EGU2020-21081

Structural framework: a new way to organise and communicate geological information

Kris Piessens, Renata Barros, Katrijn Dirix, Jef Deckers, Johan ten Veen, Timothy N. Debacker, and Fabian Jähne-Klingberg

D704 | EGU2020-3510

GeoERA MUSE – Managing Urban Shallow Geothermal Energy

Cornelia Steiner, Stasa Borovic, Alejandro García-Gil, Claus Ditlefsen, David Boon, Ignasi Herms, Camille Maurel, Estelle Petitclerc, Mitja Janza, Mikael Erlström, Maciej Klonowski, Jan Holeček, Sarah Blake, Vincent Vandeweyer, Radovan Cernak, and Boris Maljuk

D705 | EGU2020-5950 | **Highlight**

FRAME's (Forecasting and Assessing Europe's Strategic Raw Materials Needs) contribution to the "European Green Deal"

Daniel P. S. de Oliveira, Maria João Ferreira, Martiya Sadeghi, Nikolaus Arvanitidis, Sophie Decrée, Håvard Gautneb, Eric Gloaguen, Tuomo Törmänen, Helge Reginiussen, Henrike Sievers, Lídia Quental Quental, and Antje Wittenberg

D706 | EGU2020-13271

Critical minerals in the European seas: The project GeoERA-MINDeSEA

Javier Gonzalez, Teresa Medialdea, Henrik Schiellerup, Irene Zananiri, Pedro Ferreira, Luis Somoza, Xavier Monteys, Thomas Kuhn, Johan Nyberg, Igor Melnyk, Vitor Magalhaes, Rosario Lunar, Egidio Marino, James R. Hein, Georgy Cherkashov, and MINDeSEA team

D707 | EGU2020-6656 | **Highlight**

Utilising data and knowledge from European geological survey organisations in climate change impact assessments and adaptations

Anker Lajer Højberg, Ida Bjørnholt Karlsson, Klaus Hinsby, Jacob Kidmose, Hélène Bessiere, Majdi Mansour, and David Pulido-Velázquez

D708 | EGU2020-21381

The contribution of the Geological Survey of Italy to the GeoERA Programme challenges towards a geological service for Europe

Luca Guerrieri, Carlo Cipolloni, Chiara D'Ambrogio, Barbara Dessi, Pio Di Manna, Mauro Lucarini, Lucio Martarelli, and Monica Serra



D709 | EGU2020-10241

Assessing the vulnerability of shallow groundwater resources to deep subsurface energy activities (VoGERA)

Rob Ward, Koen Beerten, Willem Zaadnoordijk, Cis Slenter, Marco Bianchi, Ágnes Rotár-Szalkai, and Daniel Mallin Martin

D710 | EGU2020-14037

GeoEra HOVER WP7 – Harmonized vulnerability to pollution mapping of the upper aquifer

Andreas Günther, Stefan Broda, Klaus Duscher, Jörg Reichling, Susanne Schomburgk, Daniel Elster, Boris Bimalyuk, Sonja Cerar, Birgitte Hansen, Caoimhe Hickey, Juuso Ikonen, Ignasi Herms, Kostas Kontodimos, David Pulido Velázquez, Diana Persa, Silvio Janetz, Melanie Witthoeft, Jurga Arustiene, Nora Gal, and Magdalena Nidental and the GEOERA HOVER WP7 TEAM

D711 | EGU2020-4861

A pan-European GIS focused on gas hydrates: a research base-line in geohazards and geological storage of CO₂

Ricardo Leon, Christopher Rochelle, André Burnol, Carmen Julia Gimenez-Moreno, Tove Nielsen, John Hopper, Isabel Reguera, Pilar Mata, Margaret Stewart, and Silvia Cervel

D712 | EGU2020-1558

Unconventional hydrocarbon resource plays in the North Sea Basin, Northwestern Europe

Niels Schovsbo, Stefan Ladage, Anders Mathiesen, Susanne Nelskamp, Margaret A. Stewart, and Peter Britze

D713 | EGU2020-20918

Overview of conventional hydrocarbon resources in the North Sea Basin – harmonization of assessments, cross-border play mapping and new concepts

Susanne Nelskamp, Margaret Stewart, Niels Schovsbo, Stefan Ladage, Stefan Peeters, and Peter Britze

D714 | EGU2020-6873

3D basin and petroleum system modelling in the North Sea Central Graben - a Dutch, German, Danish cross-border study

Rüdiger Lutz, Jashar Arfai, Susanne Nelskamp, Anders Mathiesen, Niels Hemmingsen Schovsbo, Stefan Ladage, Peter Britze, and Margaret Stewart

D715 | EGU2020-15823

Investigating geological processes and their links with geological structures through geomanifestations

Renata Barros, Kris Piessens, Helga Ferket, Nina Rman, and Éva Kun



D716 | EGU2020-9579

The BSI indicator: preventing thermal interferences between groundwater heat pump systems

Alejandro García-Gil, Miguel Ángel Marazuela, Miguel Mejías Moreno, Enric Vázquez-Suñè, Eduardo Garrido Schneider, and José Ángel Sánchez-Navarro

D717 | EGU2020-7947

Mineral resources - crucial components of a vital and wealthy society

Antje Wittenberg, Daniel P. S. de Oliveira, Javier González Sanz, Lisbeth Flindt Jørgensen, David Whitehead, and Tom Heldal

D718 | EGU2020-7025

Lithium, Cobalt and Graphite occurrences in Europe, Results from GeoEra FRAME project wp 5

Håvard Gautneb, Eric Gloaguen, and Tuomo Törmänen

D719 | EGU2020-7931

Prospectivity mapping of niobium and tantalum in Europe; a part of the GEOERA- FRAME project

Martiya Sadeghi, Guillaume Bertrand, Helge Reginiussen, Nikolas Arvanitidis, Erik Jonsson, and Daniel P.S. de Oliveira

D720 | EGU2020-10228

FRAME: towards conflict-free Nb-Ta for the European Union

Helge Reginiussen, Erik Jonsson, Susana María Timón Sánchez, Alejandro Díez Montes, Klemen Teran, Rute Salgueiro, Augusto Filipe, Carlos Inverno, and **Daniel P.S. de Oliveira**

D721 | EGU2020-16935

Mintell4EU – Mineral Intelligence for Europe – a GeoERA project to improve and sustain the European raw materials knowledge base.

David Whitehead, Lisbeth Flindt Jørgensen, Mikael Pedersen, Teresa Brown, Špela Kumelj, Kari Aslaksen Aasly, Marc Urvois and Ulrich Clain

D722 | EGU2020-20781

Atlas of European ornamental stone resources

Tom Heldal, Jorge Carvalho, Željko Dedić, and Kostas Laskarides

D723 | EGU2020-22091

Hydrogenetic Fe-Mn crusts from European seas: source of potentially economic cobalt mining.

Egidio Marino, Javier González, Teresa Medialdea, Luis Somoza, Rosario Lunar, Pedro Ferreira, Thomas Kuhn, James R. Hein, Vitor Magalhaes, and Iker Blasco

