

## Subtopic 5.2: Metals and Minerals Cycle

**Richard Gloaguen**

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### Current positions

Head of Division Exploration, **HIF** (since 2013)

### Previous positions (two selected)

Head of Remote Sensing Group , Technical University of Freiberg (2009-2013)

Juniorprofessor of Remote Sensing, Technical University of Freiberg (2003-2009)

### Scientific degree

Dr. Communitatis Europae, Brest (F), RHUL (UK), Tübingen (D) (2000)

### Recent research topics

Richard Gloaguen develops innovative and non invasive technologies for mineral exploration. He is currently working on in UAV-based hyperspectral imaging, laser-induced fluorescence, nonlinear processing, and remote sensing-based tectonic geomorphology. His research interests include multisource multiscale remote sensing integration.

### Awards, honors, memberships

Marie Curie Fellowship (2000-2003)

### Publications (5 most important)

- B. Rasti, **P. Ghamisi**, **R. Gloaguen**, 2017, Hyperspectral and LiDAR Fusion Using Extinction Profiles and Total Variation Component Analysis, IEEE TGRS, [doi:10.1109/TGRS.2017.2686450](https://doi.org/10.1109/TGRS.2017.2686450)
- **S. Jakob**, **R. Zimmermann**, **R. Gloaguen**, 2017, The Need for Accurate Geometric and Radiometric Corrections of Drone-Borne Hyperspectral Data for Mineral Exploration: MEPHySTo—A Toolbox for Pre-Processing Drone-Borne Hyperspectral Data. Remote Sens, 9, 88.
- **R. Zimmermann**, **M. Brandmeier**, **L. Andreani**, K. Mhopjeni, **R. Gloaguen**, 2016, Remote Sensing Exploration of Nb-Ta-LREE-Enriched Carbonatite (Epembe/Namibia). Remote Sens., 8, 620, [doi:10.3390/rs8080620](https://doi.org/10.3390/rs8080620).
- **S. Jakob**, **R. Gloaguen**, C. Laukamp, 2016, Remote Sensing-Based Exploration of Structurally-Related Mineralizations around Mount Isa, Queensland, Australia. Remote Sens., 8, 358.
- **L. Andreani**, **R. Gloaguen**, 2016, Geomorphic analysis of transient landscapes in the Sierra Madre de Chiapas and Maya Mountains (northern Central America): implications for the North American–Caribbean–Cocos plate boundary. Earth Surf. Dynam, 4(1), 71-102; [doi:10.5194/esurf-4-71-2016](https://doi.org/10.5194/esurf-4-71-2016).