EGU22-12187
https://doi.org/10.5194/egusphere-egu22-12187
EGU General Assembly 2022

FAIR WISH - FAIR Workflows to establish IGSN for Samples in the Helmholtz Association

Linda Baldewein[1], Kirsten Elger[2], Birgit Heim[3], Alexander Brauser[2], Simone Frenzel[2], Ulrike Kleeberg[1], and Ben Norden[2]

[1]Helmholtz-Zentrum Hereon, Geesthacht, Germany
[2]GFZ German Research Centre for Geosciences, Potsdam, Germany
[3]Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research, Potsdam, Germany

The International Geo Sample Number (IGSN) is a globally unique and persistent identifier (PID) for physical samples and collections with discovery function on the Internet. IGSNs enable to directly link data and publications with samples they originate from and thus close the last gap in the full provenance of research results. The modular IGSN metadata schema has a small number of mandatory and recommended metadata elements that can be individually extended with discipline-specific elements.

Based on three use cases that represent all states of digitisation - from individual scientists, collecting sample descriptions in their field books to digital sample management systems fed by an app that is used in the field - FAIR WISH will (1) develop standardised and discipline specific IGSN metadata schemes for different sample types from the Earth and Environment Sciences, (2) develop workflows to generate machine-readable IGSN metadata from different states of digitisation, (3) develop workflows to automatically register IGSNs and (4) prepare the resulting workflows for further use in the Earth Science community.