

Summary of the September 2021 online INTERMAGNET Meeting

The INTERMAGNET committee met on-line from 27 September – 01 October 2021. Similar to our previous meeting in March, the Executive Council and Operations Committee completed most of their work via documents on the GFZ NextCloud site and through the INTERMAGNET GitHub repositories. Several of the four active sub-committees also held productive on-line video meetings.

A public version of the minutes from the meeting is now available at <https://intermagnet.github.io/meetings>, along with plenary presentations from the meeting.

Data Publication

INTERMAGNET Reference Data Sets from 2013 – 2018 have now been prepared and published. The IRDS replaces the traditional CD/DVD and each yearly update to the IRDS includes all available data from the INTERMAGNET network back to 1991. Digital Object Identifiers have been minted for each edition of the IRDS and the landing pages and datasets downloads are available through the links below.

<https://doi.org/10.5880/INTERMAGNET.2013>

<https://doi.org/10.5880/INTERMAGNET.2014>

<https://doi.org/10.5880/INTERMAGNET.1991.2015>

<https://doi.org/10.5880/INTERMAGNET.1991.2016>

<https://doi.org/10.5880/INTERMAGNET.1991.2017>

<https://doi.org/10.5880/INTERMAGNET.1991.2018>

INTERMAGNET thanks GFZ for their work in preparing the DOI and hosting the IRDS datasets.

INTERMAGNET Data Archive

The task of transferring the INTERMAGNET web service, ftp service and data archive from Natural Resources Canada to the British Geological Survey is progressing. The new site is now available at:

<https://imag-data.bgs.ac.uk/GIN/>

Much of the INTERMAGNET web site has been updated and transferred from the old site hosted by Natural Resources Canada (<https://intermagnet.org>) to the new site at <https://intermagnet.github.io>

There is still more work to do on both these significant projects.

Technical Manual

Version 5 of the technical manual was published in 2020. The manual is available for download in PDF format from the INTERMAGNET web site at:

<https://intermagnet.github.io/publications.html>

The committee is currently working on a new collaborative, version-controlled environment to simplify and accelerate the process of updating and publishing the manual. The new work flow for preparing the manual will use GitHub and ReadTheDocs. A publically accessible test environment for the Technical Manual has been established and is available at:

<https://test-manual.readthedocs.io>

An important consideration in developing this new workflow to publish the Technical Manual is the ability for community input for corrections or updates.

1-second definitive data

Some INTERMAGNET magnetic observatories (IMO) have been submitting 1-second definitive data sets for several years. There have been delays in publishing those data because developing an effective data checking system has taken longer than anticipated.

Over the last few years a new automatic checking system called IMBOT, the INTERMAGNET robot, has been developed. IMBOT is now in the final stages of implementation and acceptance testing. IMBOT will run automatic checks on definitive data submissions (both one-minute and one-second) and will communicate results via e-mail to IMOs and members of the Data Checking Task Team. This new system will reduce the checking work load on the Data Checking Task Team and speed up the detailed process of definitive data publication.

All IMOs are encouraged to continue contributing their 1-minute data to meet the INTERMAGNET publication deadlines and, where possible, contribute 1-minute quasi-definitive, 1-second quasi-definitive and 1-second definitive data.

INTERMAGNET Officers

Prior to this meeting Dr Hiroaki Toh of Kyoto University announced his retirement from the committee. Hiroaki has contributed to two sub-committees since 2015. He will continue in his role on the Data Checking Task Team.

Simon Flower has retired from the British Geological Survey and announced he will step down as Operations Committee chair after a new chair is appointed. Simon has served on the Operations Committee since 2003 and chaired the committee since 2016.

Next Meeting

Uncertainty created by the pandemic continues to make face-to-face meetings difficult. The next meeting will be another on-line or hybrid meeting, but dates are yet to be decided.

Community contributions to INTERMAGNET discussions are welcomed, either through the issues feature within the subcommittee working-group repositories on [GitHub](#) or by contacting any member of the INTERMAGNET committee.

Thanks to:

- All IMOs, and their institutes, for continued contribution of high quality observatory data to INTERMAGNET
- All members of the data checking task team, and their institutes, for their on-going voluntary data checking work.
- Retiring members Simon Flower and Hiroaki Toh for their contributions to INTERMAGNET over many years.
- Achim Morshhauser and GFZ for hosting the NextCloud document repository for the meeting.

Simon Flower
INTERMAGNET Operations Committee Chair
March 2022