



Working Group I

meeting minutes

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FDSN@IUGG2023_Berlin

2023-07-19



International Federation of Digital Seismograph Networks

WG1 Meeting

2023-07-14 12:00-12:50

- Agenda
 - Review and approval of the 2019 WG1 meeting minutes
 - Progress report
 - Candidate FDSN stations
 - QC metrics
 - Issues to be discussed
 - Possible actions
 - Adjourn
- 25 attendees

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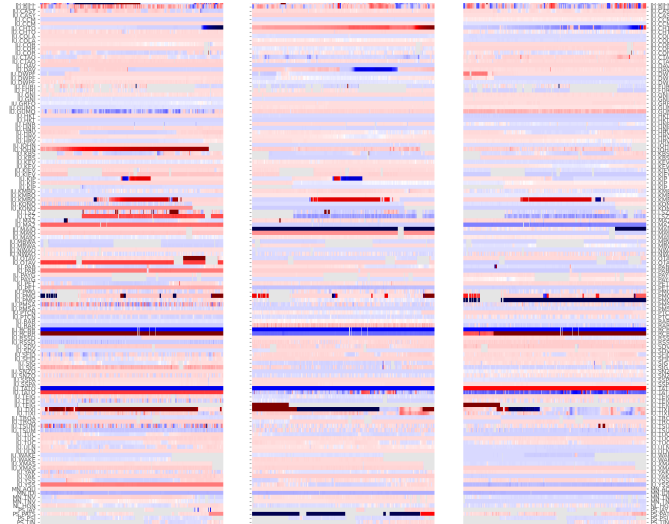


Current progress

- 439+ Candidate FDSN stations
 - Working platform: <https://tecdc.earth.sinica.edu.tw/FDSN/>
- Capacity to derive QC metrics



_FDSN daily medians





Requirements for Candidate FDSN Stations

- Extend the requirements for candidate stations by:
 - station data are available at federated data centers
- To renew the FDSN backbone network, find candidate stations located as close as possible to the already closed FDSN stations



Existing FDSN Stations

- Check the consistency of the FDSN backbone station list provided by several sources, and find why the numbers of stations are different:
 - iris.edu/mda/_FDSN [207]
 - iris.edu/gmap/_FDSN [222] *[from All federated datacenters]*
 - service.iris.edu/irisws/virtualnetwork/ [214]



New Virtual FDSN Networks

- Leave the original **_FDSN** backbone network without any station changes.
- Create two new virtual networks in IRIS WS, one for FDSN candidates [**_FDSN-Candidate**] and the second for a final extended FDSN backbone network [**_FDSN-New**] (i.e., $\text{_FDSN-New} = \text{_FDSN} + \text{_FDSN-candidate}$)

FDSN WG1 webpage

- Need an FDSN webpage to archive the candidate list and station QC reports



Participation in the federated datacenters

- Send emails to encourage all members to contact operators, whose networks are not in the federated data centers. The FDSN community would be able to provide necessary technical assistance.
- Notify multiple members to upload metadata for their networks.
- Advertisement of FDSN in **JpGU**
 - A session proposal on
innovative technologies in regional seismic network operation



Station quality metrics

- Discuss in WG1 metrics applicable for QC
- Prepare QC report for the FDSN backbone stations
- Before publishing the station report, associated operators should be informed and asked for verification.