



Data Center Coordinator

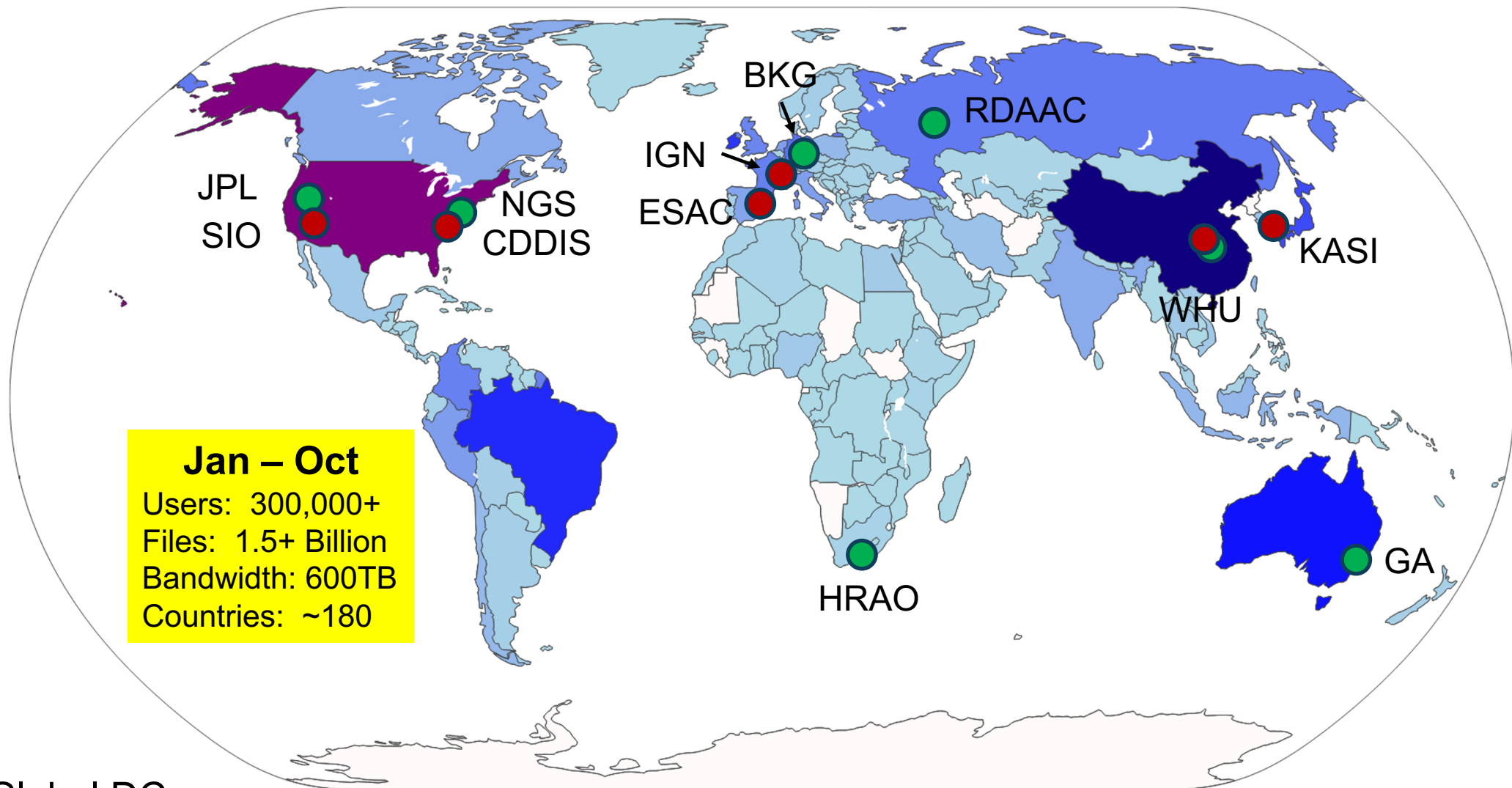
Patrick Michael
6 December 2021



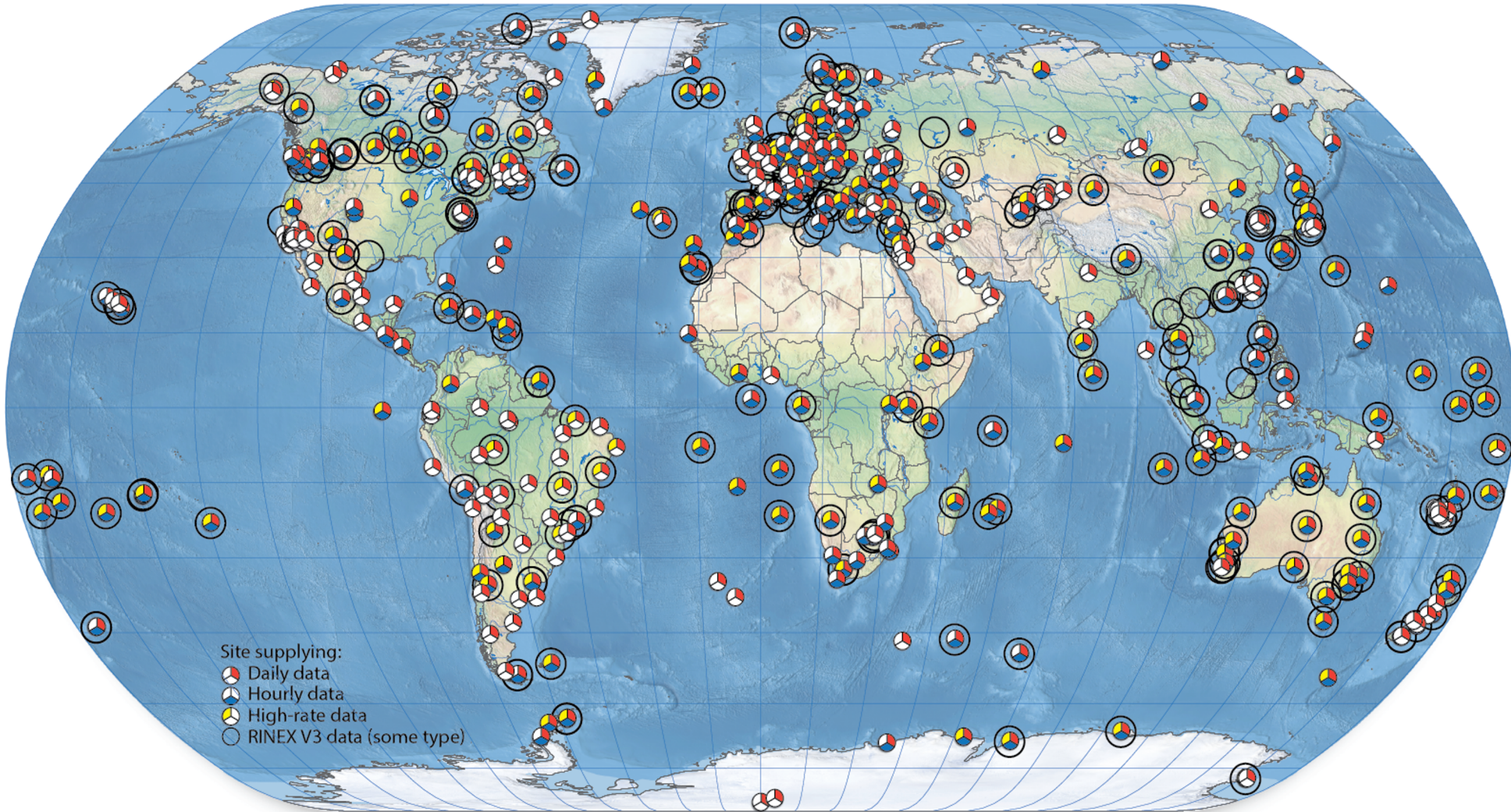
Overview of the Data Center Coordinator

- Patrick Michael
 - Assumed the position in 2021 after retirement of Carey Noll
 - Current manager of the Crustal Dynamics Data Information Systems (CDDIS)
- Main Responsibilities
 - Assist the Data Centers (DCs) to ensure IGS objectives are met & maintained
 - Data collection, QC & validation, archival, robust availability, etc
 - Coordination of the collection & distribution of IGS data and analysis products

IGS Data Centers – <https://igs.org/data-access>



- Global DC
- Regional DC



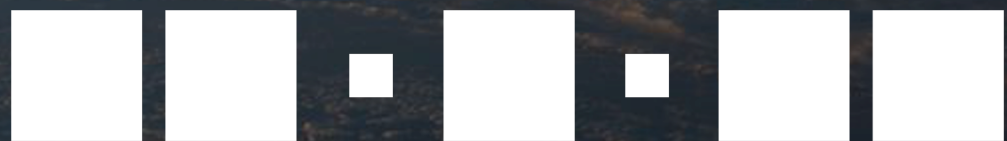
Data Type	Total Unique	Total RINEX V2	Total RINEX V3	Both V2 + V3	Only RINEX V2	Only RINEX V3
Daily	556	383	373	200	183	173
Hourly	405	268	328	191	77	137
High-rate	309	144	273	108	36	165

Progress since last AM Meeting (Dec 2019)

- IC charter changes to incorporate the old DCWG
- Movement from Z compression to gzip compress for data
- IGS Website – data centers and access information
- DC Guidelines document
 - QC requirements, data completion checks
 - Performance checks
- Termination of unencrypted ftp at CDDIS – Nov 2020

Future Work

- Remaining Z to gzip conversion for products
- DC guidelines document reviews and comments – Feb 2022
- Completion of GNSS high-rate consolidation by May 2022 (CDDIS)
- Real-time and DC IT security guidelines whitepaper - Apr 2022
- Survey of the community of the needs & wants from the DCs
- Long-term future work
 - Depreciation of unencrypted ftp as a protocol for data distribution
 - Implementation of syncing across the GDCs
 - IPv6 only architecture



IGS

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Thank You!

Contact:

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