

GHRC Data Management

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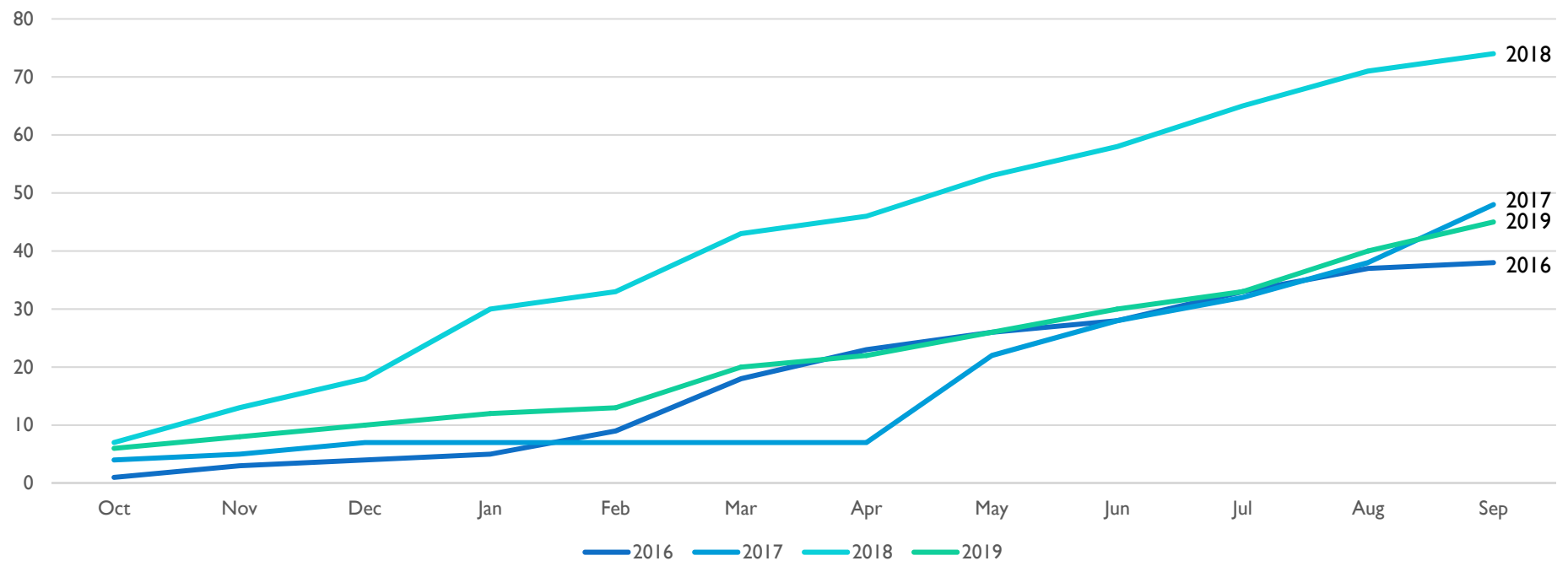
Dataset Coordinator



2019 Data Publications



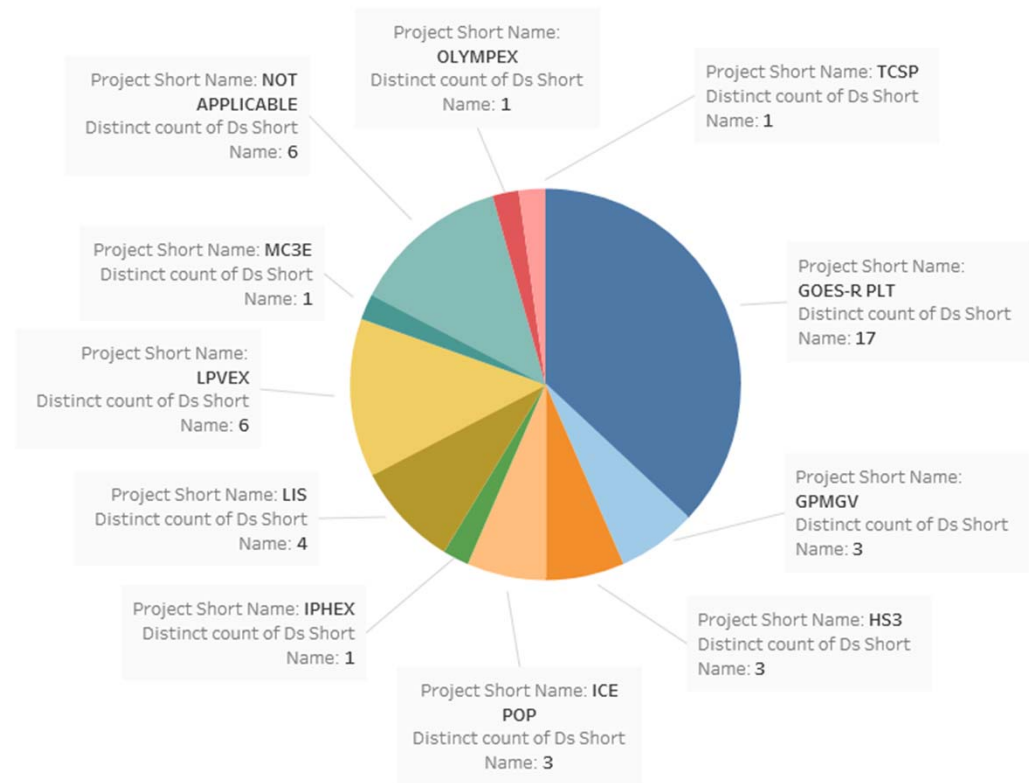
Cumulative Number of Publications



Dataset Types Published in FY19



- 46 Datasets published
- Averaged ~4 datasets per month



GOES-R PLT Datasets



- GOES-R Post Launch Test (PLT) – March - May 2017
 - Goal was to provide a collection of coincident airborne, satellite, ground based, and near surface measurements of surface weather phenomena to test, validate, and improve the accuracy of GOES-R ABI and GLM measurements



- International Collaborative Experiments for PyeongChang 2018 Olympic and Paralympic Winter Games (ICE POP) – February - March 2018
 - Focused on the measurement, physics, and improved prediction of heavy orographic snow in the PyeongChang region of South Korea



Remaining Datasets to Publish



- ~25 datasets remaining **in-house**
 - Some may be combined into one dataset
 - Some may split out into multiple datasets
 - Does not include IMPACTS or additional GPM GV data
- Currently publishing data in both the cloud and on-premise
 - Expecting a decrease in dataset publication rate

GHRC Ongoing Datasets



- Data that continue to be collected and made public on GHRC servers
 - ISS LIS data (2), NRT LIS data on LANCE
 - DISCOVER MEaSUREs SSMIS ocean products from F16 and F17 (8)
 - DISCOVER MEaSUREs TPW and Wind Speed climatology (2)
 - AMSU/MSU V6 Temperature Anomalies and Annual Cycle products (4)
- AMSU/MSU Atmospheric Temperatures updated to V6
 - Update already completed in October 2018 (FY2019)

GHRC Metadata Repairs



- ARC = Analysis and Review of CMR (Common Metadata Repository)
- ARC project consists of a team of metadata checkers confirming quality of metadata for DAAC published data
- ARC report is sent to DAACs with problems/issues to be fixed and recommendations of changes to make

GHRC Metadata Repairs



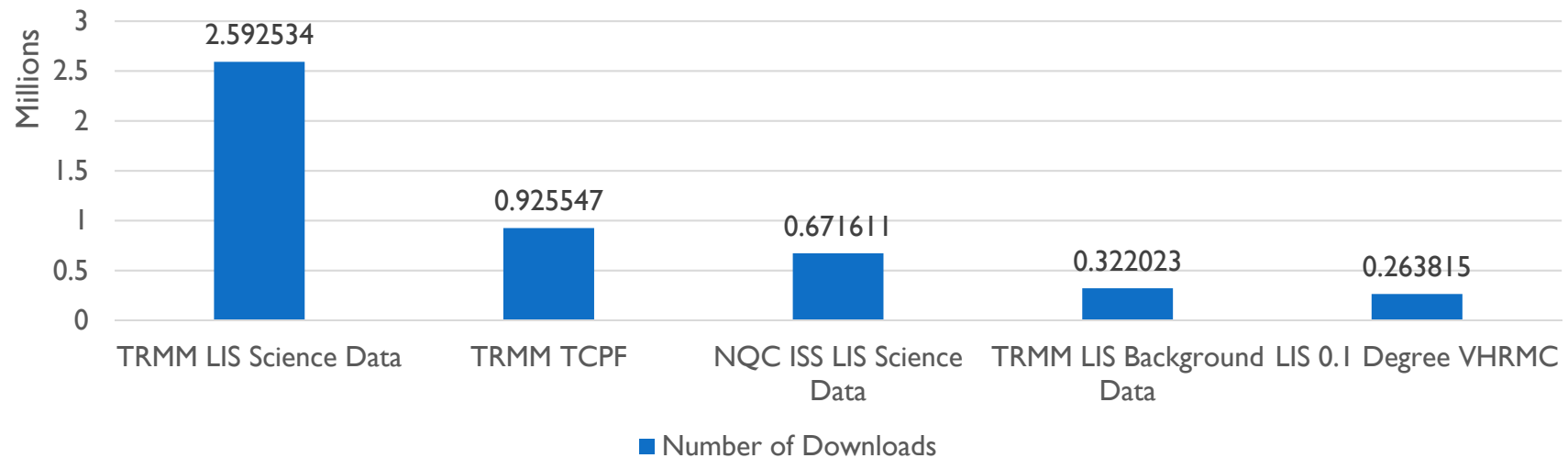
- GHRC received their first ARC report in April 2016 and started collection-level metadata changes first
- Collection metadata changes are complete
- 13 dataset granule metadata changes remain (~96% completed)
- Remaining datasets are old, take more time, and need special handling
 - Expect completion in early 2020
- GHRC received their second ARC report in September 2019
 - Small updates
 - Already started on these updates

Data Access Metrics



- Total Number of Published Datasets at end of FY19: 478
- Number Published Granules at end of FY19: >5 Million
- Cumulative Downloads since Mar 2015: ~17 Million

Top 5 Datasets Downloaded in FY19



2020 Publication Plans



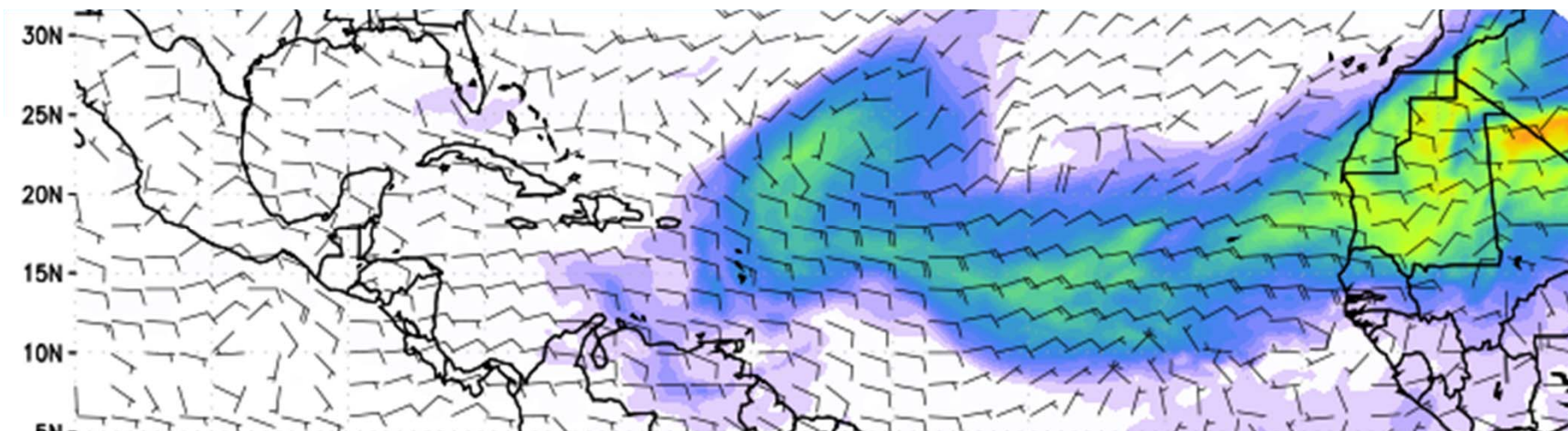
- Investigation of Microphysics and Precipitation for Atlantic Coast-Threatening Snowstorms (IMPACTS)
- January – March each year of 2020-2022
- Mid-Atlantic and New England states
- ~50 datasets to GHRC
 - Includes a variety of datasets similar to data published at GHRC, such as CRS and D3R
- First end-to-end publication that will be cloud only
- First data expected to arrive at GHRC by September 2020



2020 Publication Plans



- More GPM GV Datasets
- Publishing in the Cloud
 - Dual-publishing
 - Publication rate may decrease at first
 - Earthdata Pub
- Afternoon Brainstorming Session on future data recruitment
- We want your ideas on what GHRC can do to obtain more data relevant to our mission



THANK YOU!

QUESTIONS?

