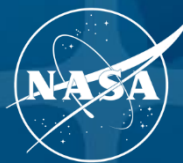




GHRC Data Management and Outreach

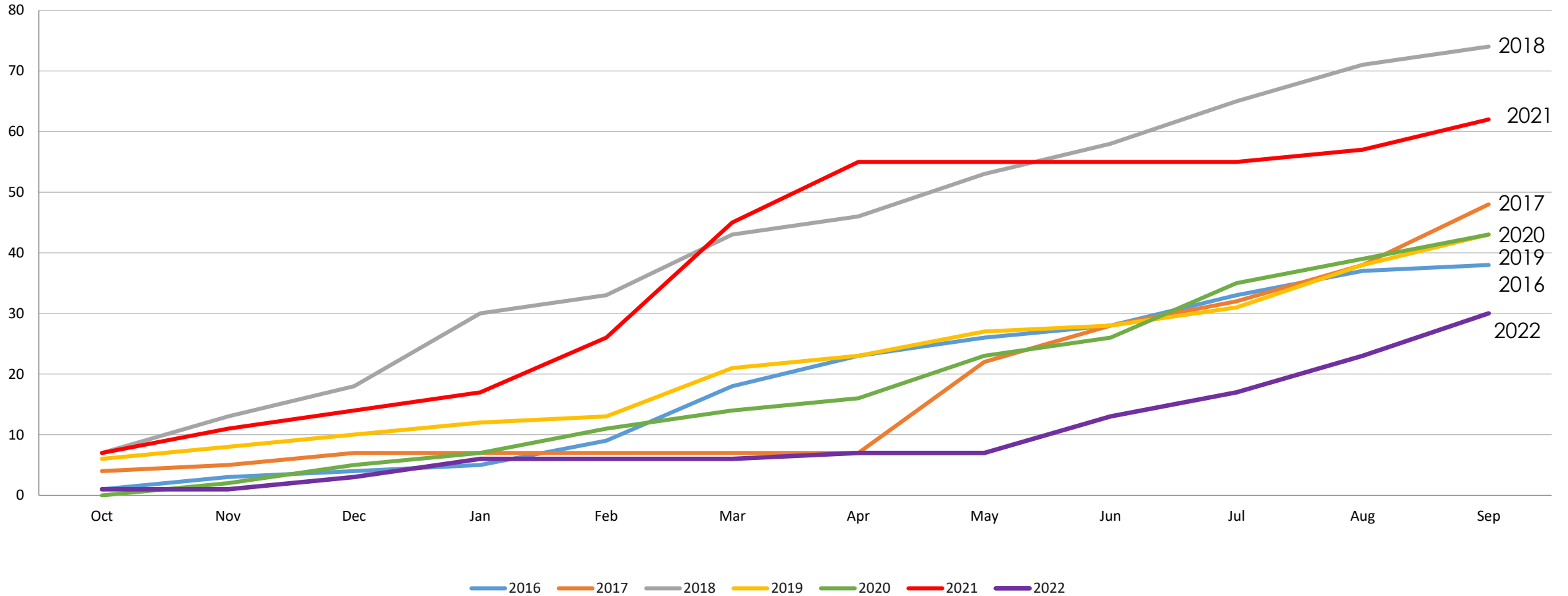
Leigh Sinclair



2022 Data Publications

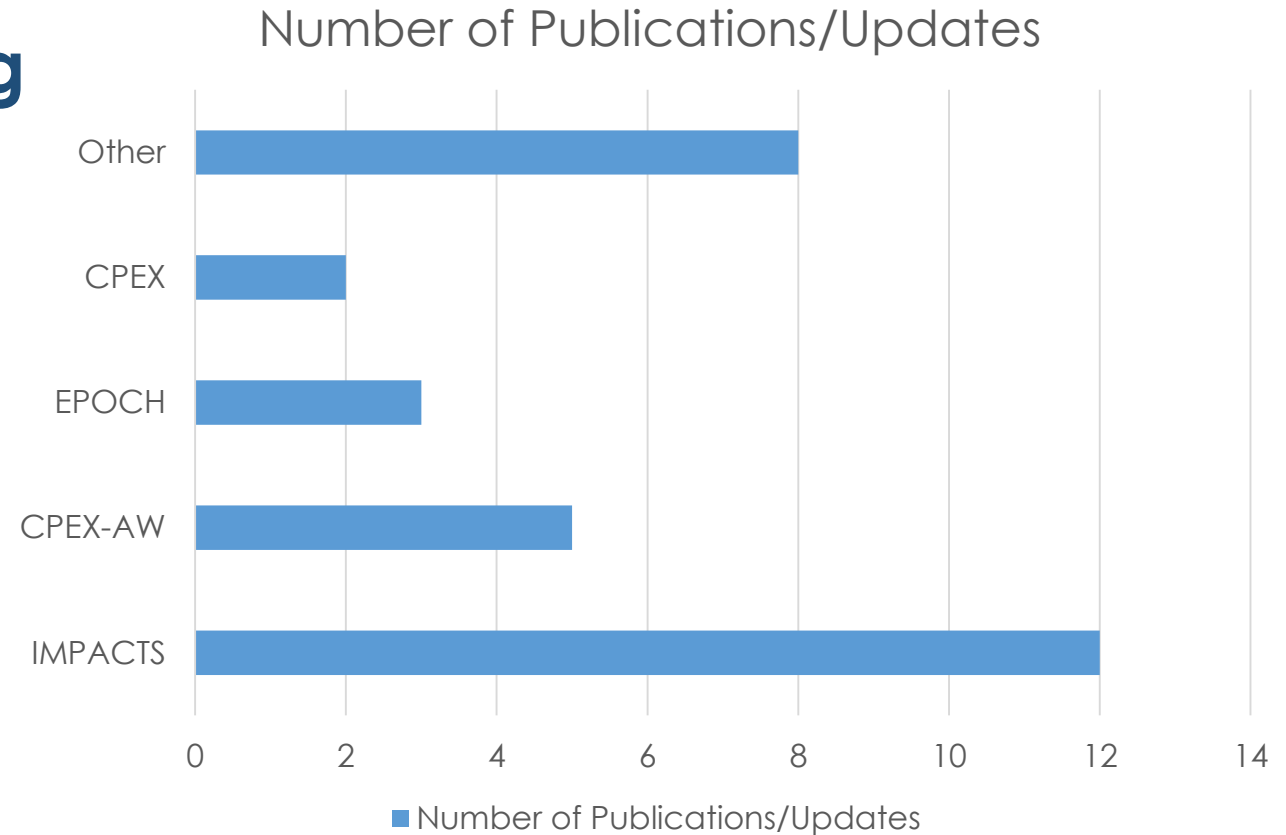


Cumulative Number of Publications



Dataset Types Published in FY22

- 30 datasets published
- Low number due to not having new data to publish until summer
- Dual-published data both on-premise and on the cloud
- Cross-referenced CPEX-AW datasets with ASDC DAAC
- Total number of datasets:
 - 593



Type of Questions Users Ask

Question Type	Count	Percent of Type of Data Requested
Question about the data	3	
Request for lightning data	14	70%
Request for other data	6	30%
Data download problems or questions	7	
Code requests or code problems	0	
Documentation requests	1	
Missing data	1	
Validation/accuracy information	3	
Request for real time support	0	
Problem with the data	0	
Instrument information	1	
Notice of publication using data	0	
Contact information/Acknowledgement information	1	
File format/plotting question	1	
Web page problem	1	
Request for data we don't have	6	
Other questions	5	

GHRC Dataset Metrics



- **Most granules downloaded:**

- [Lightning Imaging Sensor \(LIS\) on TRMM Science Data](#)
- [GPM Ground Validation Multi-Radar/Multi-Sensor \(MRMS\) Precipitation Reanalysis for Satellite Validation Product](#)
- [Non-Quality Controlled Lightning Imaging Sensor \(LIS\) on International Space Station \(ISS\) Science Data](#)

- **Highest data volume downloaded:**

- [SeaFlux Data Products](#)
- [Lightning Imaging Sensor \(LIS\) on TRMM Science Data](#)
- [TRMM TROPICAL CYCLONE PRECIPITATION FEATURE \(TCPF\) DATABASE - LEVEL 1](#)

- **Most Unique Users:**

- [Lightning Imaging Sensor \(LIS\) on TRMM Science Data](#)
- [LIS/OTD 0.5 Degree High Resolution Full Climatology \(HRFC\)](#)
- [NRT Lightning Imaging Sensor \(LIS\) on International Space Station \(ISS\) Science Data](#)

New Data Approved for Publication



Remaining Datasets to Publish



- **2 ongoing**
- **6 V2.2 ISS LIS**
- **6 IMPACTS**
 - Expect more to come
- **1 CPEX-AW**
- **15 CPEX**
- **>1 HIWAT**
- **GPM GV VN update**
 - Expecting more GPM GV datasets

GHRC Near-Real Time Datasets



- **Data that continue to be collected and made public**
 - ISS LIS data (2)
 - 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)
 - North Alabama Lightning Mapping Array (NALMA)
 - GLM L3 Gridded Products*
 - GLM CIERRA*

2023 Publication Plans



- **Complete Year 2 IMPACTS Data**
- **Begin Year 3 IMPACTS**
- **Continue publishing current backlog**
- **Begin publishing CPEX-CV data**
- **Goals are to migrate to Earthdata Pub**
- **Continue cross-referencing datasets with other DAACs where appropriate**

Outreach Activities



- **Participated in traditional conferences**
 - AGU, AMS, IGARSS
- **Science team meetings**
 - IMPACTS, GLM, ISS LIS, LANCE, CPEX-CV, Lightning Above the Troposphere, others
- **Airborne/Earth Venture System monthly meetings**
- **Conducted Earthdata Webinar**
 - Shifting the Paradigm: Discover, Access, and Process Data With Cloud-Based Services
 - <https://www.youtube.com/watch?v=tqikIJm3rbl>
- **Earthdata Forum meetings**
- **Various working group meetings**
 - O'FAIR, DOI, others
- **NASA community meetings**
 - TOPS, others
- **Student engagement with atmospheric science and computer science students**



THANK YOU!

QUESTIONS?

