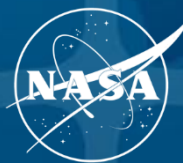




GHRC Data Management and Outreach

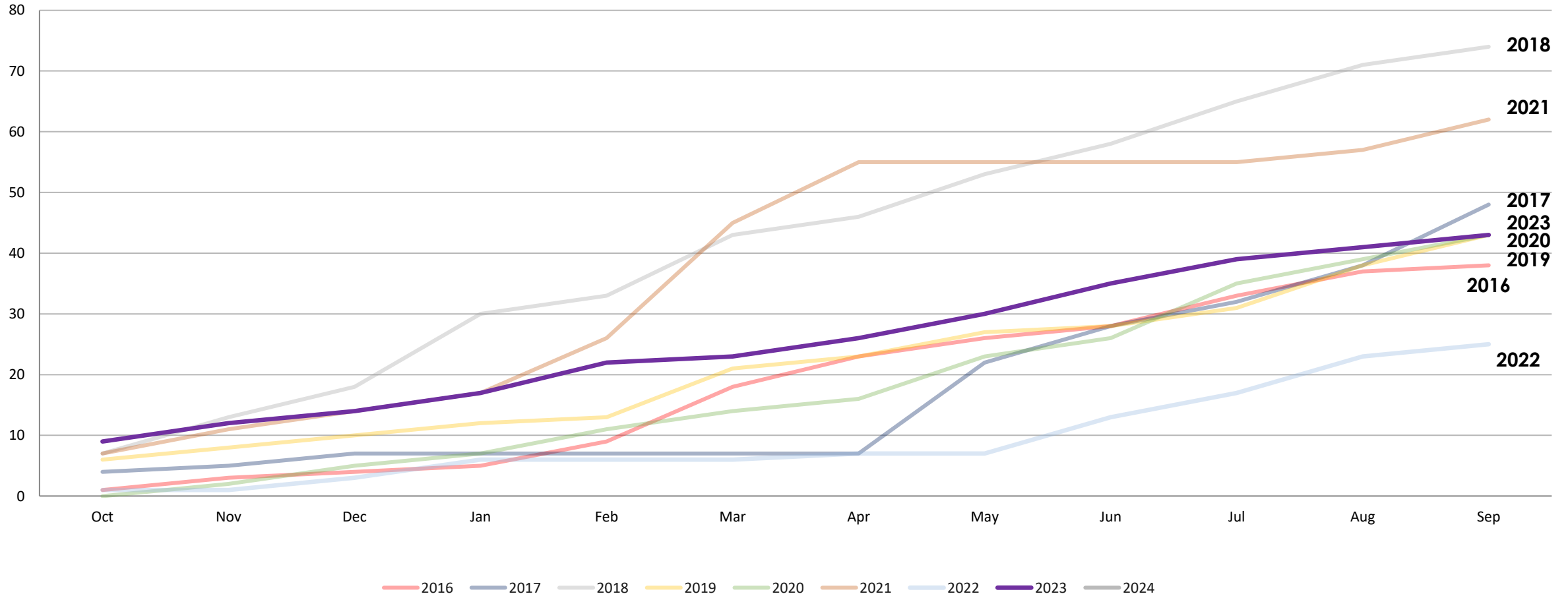
Leigh Sinclair



2023 Data Publications

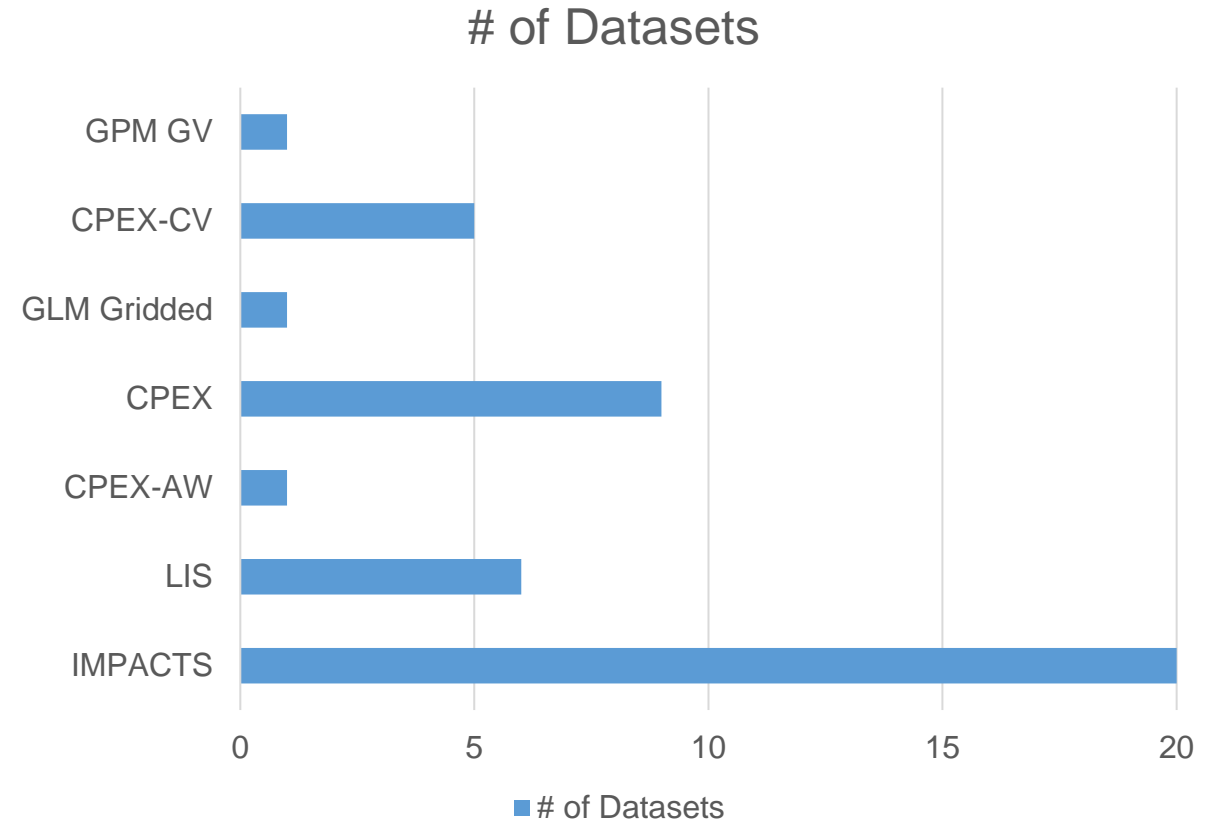


Cumulative Number of Publications



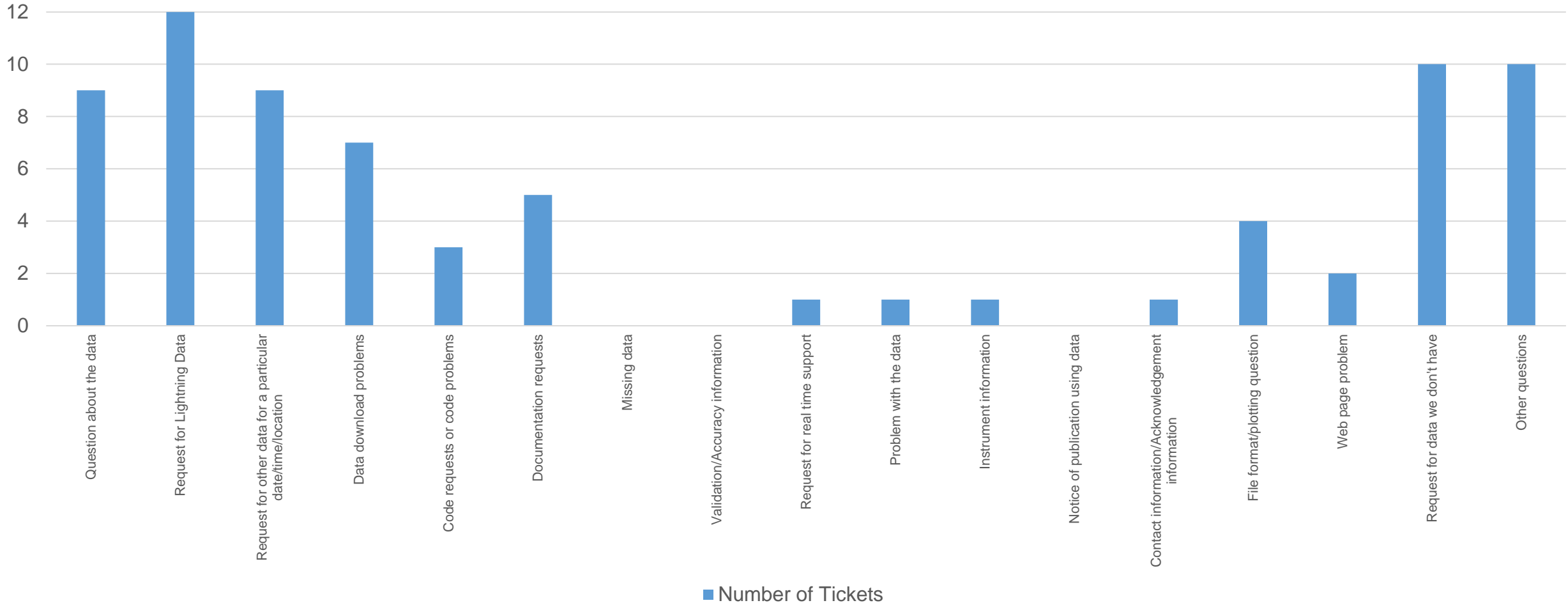
Dataset Types Published in FY23

- **43 datasets published**
 - Including GLM L3 Gridded Product
- **Dual-published data both on-premise and on the cloud**
- **Cross-referenced CPEX-AW, CPEX-CV, and CPEX datasets with ASDC DAAC**
- **Total number of datasets:**
 - 613



Type of Questions Users Ask

Number of Tickets



GHRC Dataset Metrics



- **Most granules downloaded:**

- [Lightning Imaging Sensor \(LIS\) on TRMM Science Data](#)
- [Quality Controlled Lightning Imaging Sensor \(LIS\) on International Space Station \(ISS\) Science Data](#)
- [Quality Controlled Lightning Imaging Sensor \(LIS\) on International Space Station \(ISS\) Backgrounds](#)

- **Highest data volume downloaded:**

- [Lightning Imaging Sensor \(LIS\) on TRMM Science Data](#)
- [SeaFlux Data Products](#)
- [Quality Controlled Lightning Imaging Sensor \(LIS\) on International Space Station \(ISS\) Science Data](#)

- **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



• **Approved**

- Lightning Essential Climate Variable global gridded datasets
- Geostationary Lightning Mapper Level 0, reprocessed
- Geostationary Lightning Mapper Level 1b, journal publication
- Geostationary Lightning Mapper Cluster Integrity Exception Resolution and Reclustering Algorithm (CIERRA)
- Very High Resolution TRMM LIS Annual Climatology
- Supplemental Geostationary Lightning Mapper files
- Mid-Atlantic Lightning Mapping Array

• **Pending Approval**

- ALOFT field campaign
- NASA SPoRT Land Information System

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*
- **ISS LIS will decommission in November**
 - Will continue supporting post-project activities for the next 2-3 years

2023 Publication Plans



- **Continue publishing current backlog**
 - HIWAT
 - 170 TB, which is almost 4 times the size of our current holdings
 - GLM CIERRA
 - IMPACTS (updates)
 - 25
 - CPEX
 - 6
- **Continue implementing Earthdata Pub**
 - CPEX-CV data producers were the first to do end to end in EDPub
- **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**
 - [Lightning in a Flash—Using Cloud and Open-Source Capabilities to Improve Data Access and Analysis | Earthdata](#)
- **Various working group meetings**
 - O'FAIR, DOI, others
- **NASA community meetings**
 - TOPS, UN TIM, Metadata Workshops, others
- **Student engagement with atmospheric science and computer science student**



THANK YOU!

QUESTIONS?

