



2016 Accomplishments

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2016 GHRC User Working Group Meeting
Sept 20-21, 2016



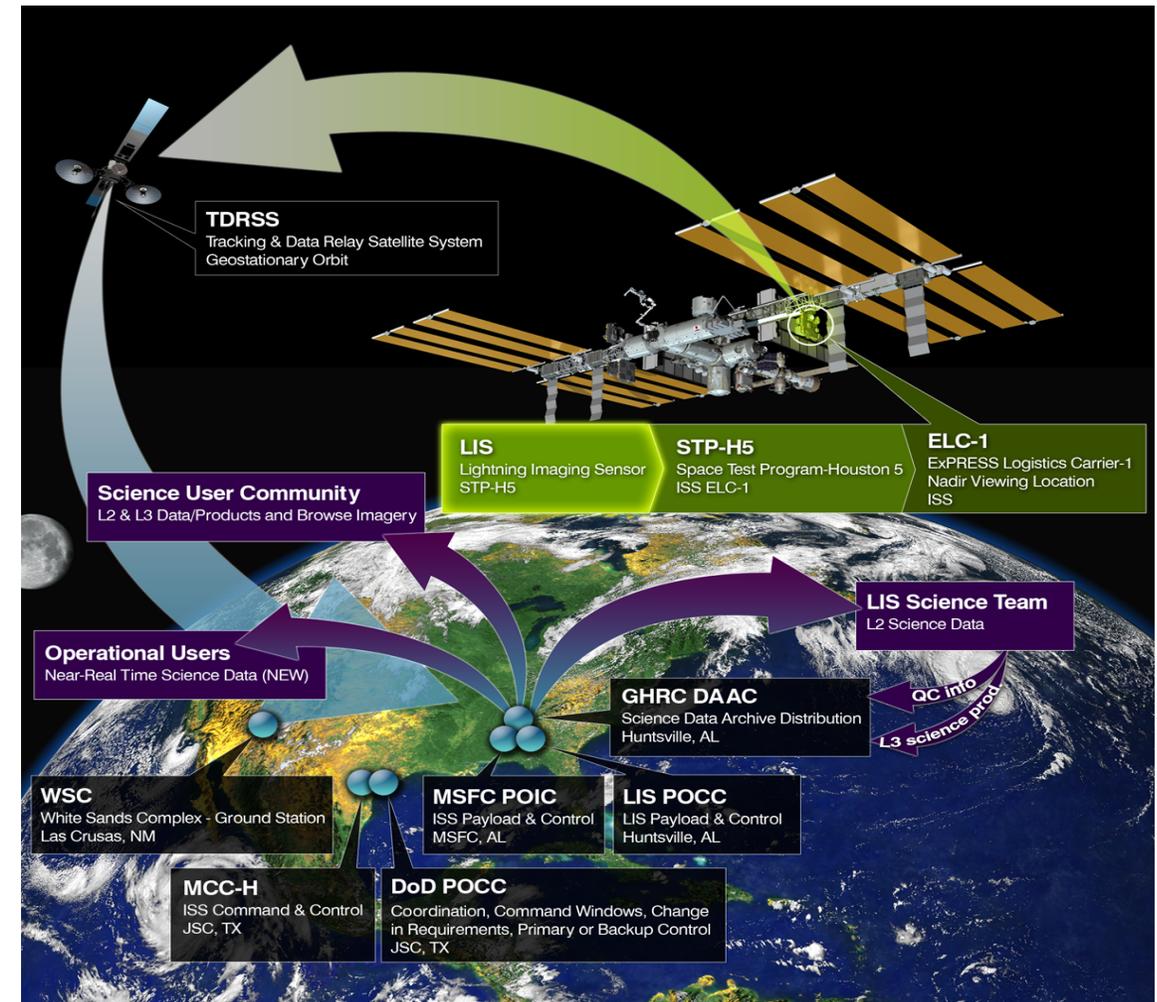
- Updates to legacy infrastructure
 - Moving to new software and database architecture
- Improvements to metadata catalog
 - Conducting extensive metadata review
- Efficiencies for data publication workflow
 - Working with data management team on process improvement
 - Implementing automation and tracking tools based on ORNL DAAC's
- Data downloads via HTTPS
 - Improved system security and user service
 - User registration via NASA's Earthdata Login
 - Information on Earthdata Login bulk data download via HTTPS on the GHRC web site

- NASA's Earth Science Data Preservation Content Specification
 - Checklist completed for all MEaSURES project Distributed Information Services for Climate and Ocean Products and Visualizations for Earth Research (DISCOVER) data sets
 - In progress for Hurricane and Severe Storm Sentinel (HS3) and Lightning Imaging Sensor missions
- Big Earth Data Initiative (BEDI): improved services for key data collections
 - Data available via OPeNDAP and related data services – DISCOVER MEaSURES, HS3
 - Imagery and supporting metadata provided to NASA's Global Imagery Browse Services (GIBS) – DISCOVER MEaSURES and LIS climatologies
 - Focus next year on data services for LIS orbit files and GIBS support for airborne data

Upcoming Mission – ISS LIS

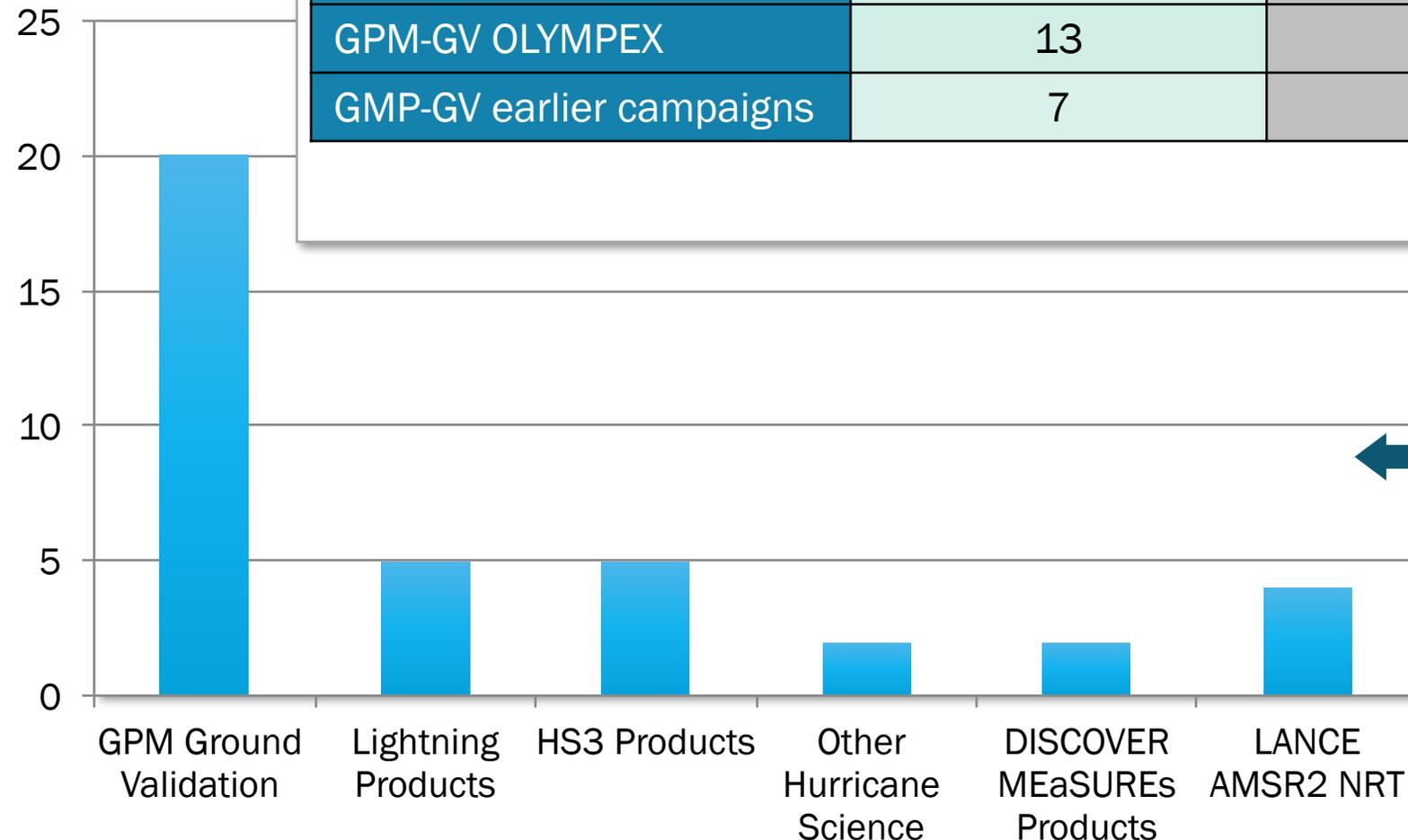
Preparations continue for the deployment of a second Lightning Imaging Sensor (LIS) to the International Space Station (ISS).

- Builds upon the solid foundation of space-based observations begun with LIS on NASA's TRMM satellite and its OTD predecessor
- Extends LIS time-series observations from TRMM, allowing scientists to better interpret the interrelationships between lightning and climate variation
- Expands latitudinal coverage poleward to 54°, allowing observations of mid-latitude storms
- Will lead to enhancements in regional and global weather, climate, and chemistry models, studies, and assessments



Dataset Acquisition and Publication

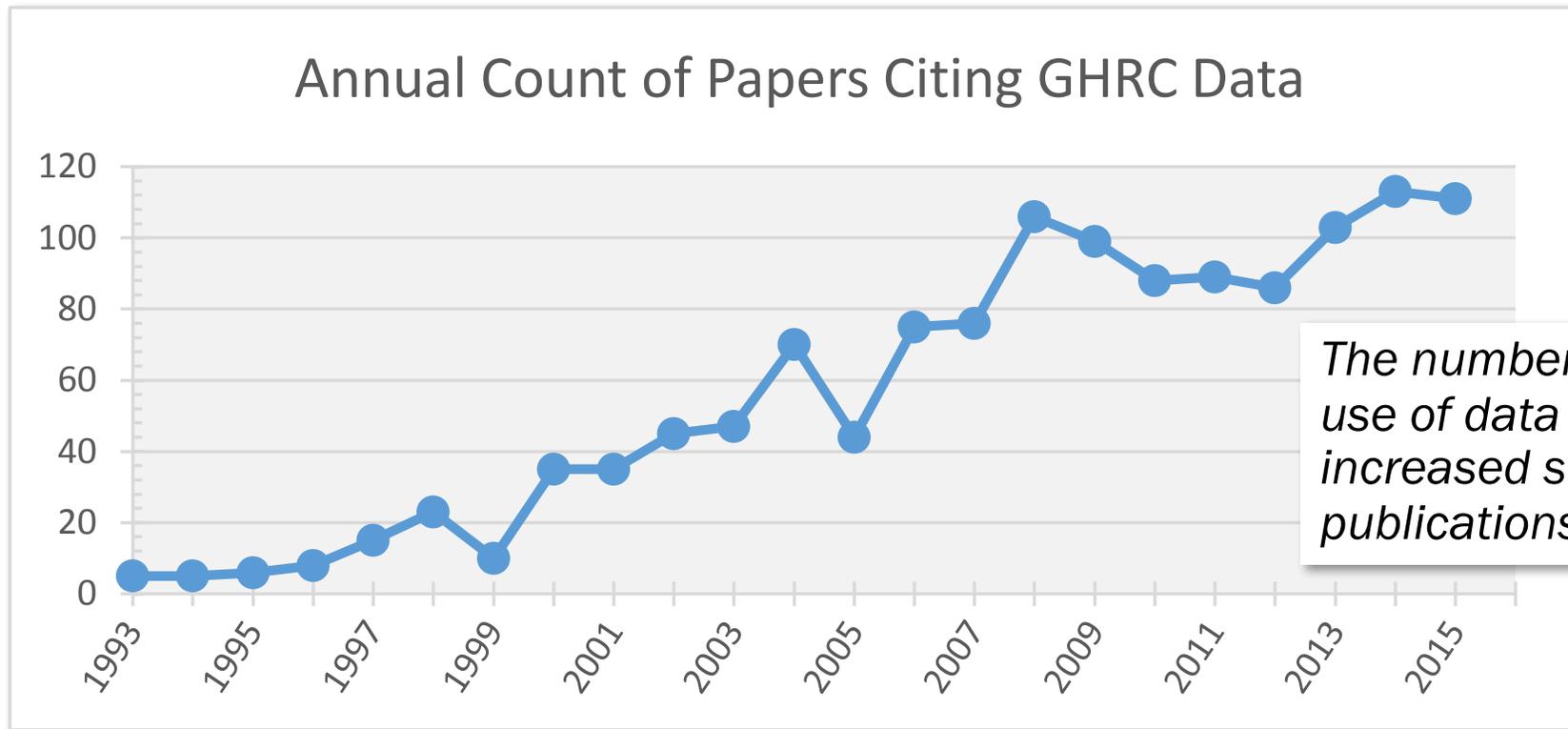
CATEGORY	NASA core	Partner core	Ancillary	Operational
Lightning	LIS/OTD climat (10)	--	LMA (2)	-
HS3	S-HIS (1)	--	13	-
GPM-GV OLYMPEX	13			7
GMP-GV earlier campaigns	7	16	13	11



PRIORITY **BACKLOG**

38 datasets published in FY2016

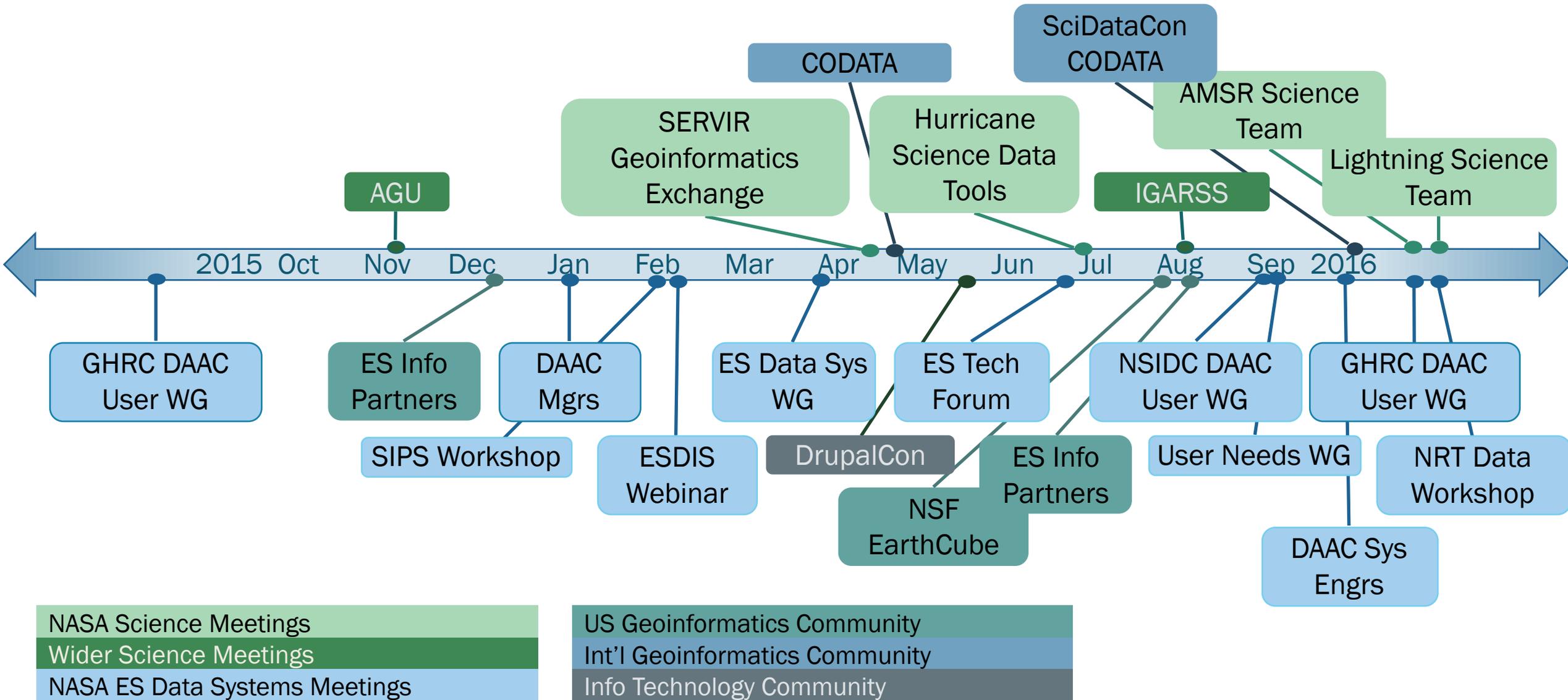
Near-term data publication priorities



The number of publications reporting the use of data archived at the GHRC has increased since 1993 to over 100 publications in 2015.

- Encouraging data set citations in peer-reviewed literature
 - All GHRC data sets have a Digital Object Identifier (DOI)
 - Working with data providers to establish an author list for each data citation
 - Data set landing pages offer download of data citations in machine-readable RIS format

Meetings, Conferences, Workshops





THANK YOU!

Questions?

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Publication Priorities – GPM-GV Detail

CAMPAIGN	NASA core	Partner core	Ancillary	Operational
OLYMPEX	13 (not final)			7
IPHEX	5	9	3	9
IFLOODS	1	7	10	2
GCPEX	0			
MC3E	0			
Related	1			

Publish in 2016 Publish when avail Publication Backlog