

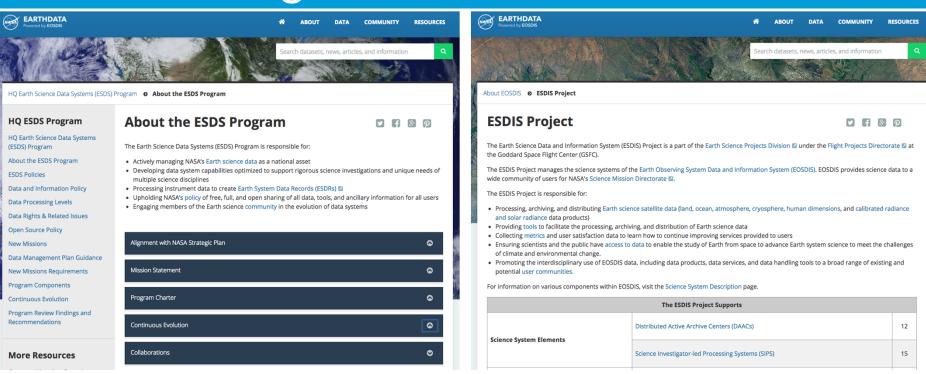
GHRC Overview and Highlights

Manil Maskey, DAAC Manager (MSFC STII)

Dr. Geoffrey Stano, DAAC Scientist



Overall Organization

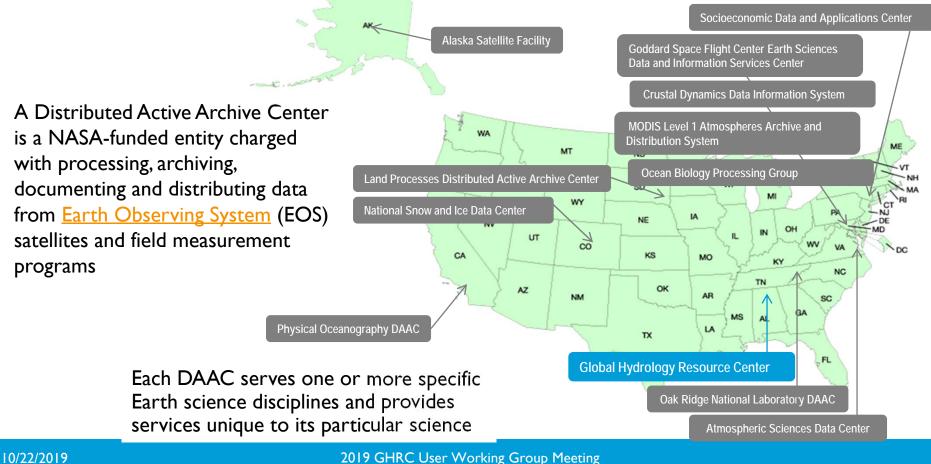


HQ: https://earthdata.nasa.gov/earth-science-data-systems-program/about-the-esds-program

GSFC: https://earthdata.nasa.gov/about/esdis-project

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NASA's Earth Science DAACs



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ESDS Vision & GHRC Mission





Make NASA's free and open Earth science data *interactive, interoperable* and *accessible* for research and societal benefit today and tomorrow.



To provide a comprehensive active archive of data and knowledge augmentation services with a focus on hazardous weather, its governing dynamical and physical processes, and associated applications.

Focus on lightning, tropical cyclones, and storm-induced hazards through integrated collections of satellite, airborne, and in-situ data sets.

DAAC Role in supporting science





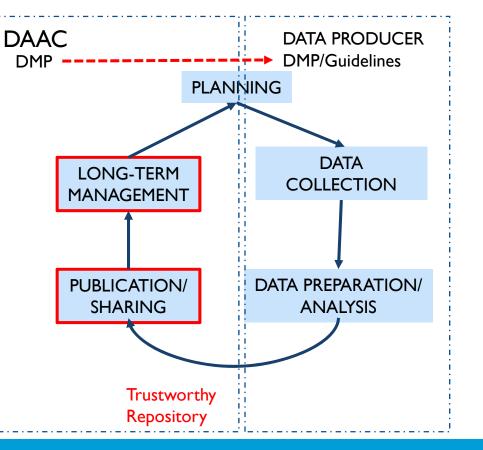
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DAAC Role in Supporting Science

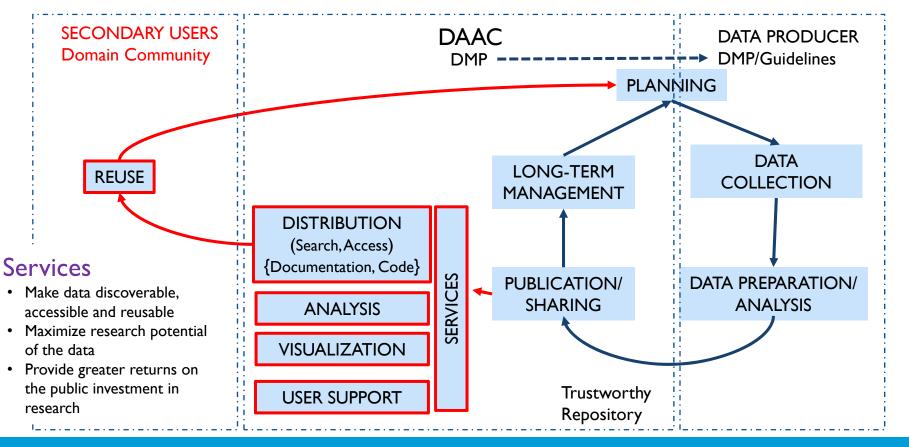


Data Stewardship Responsibility Assist data producers in developing Data Management Plans (DMPs) to

- support transparency and openness during research phase
- Use DAAC DMPs to efficiently manage data
- Utilize workflows and policies in accordance with standards to serve as a trustworthy repository



DAAC Role in Supporting Science



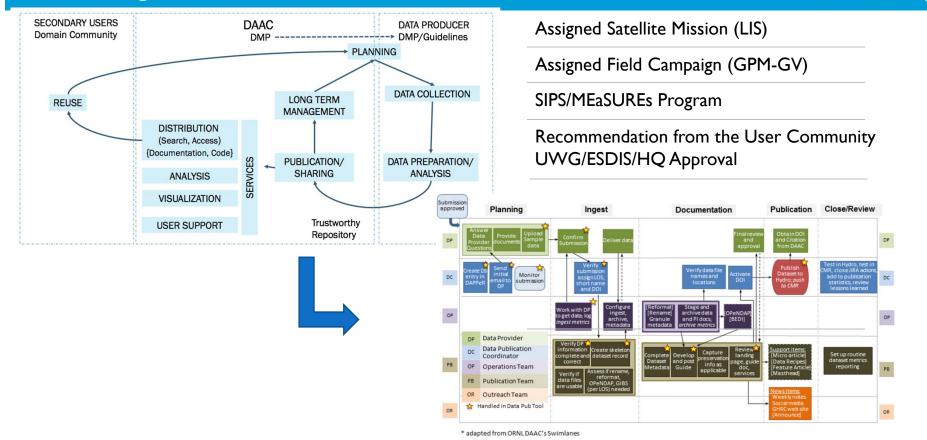
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2019 GHRC User Working Group Meeting

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Creating a Common Process for Different Data Sources



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GHRC Organization





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New Personnel





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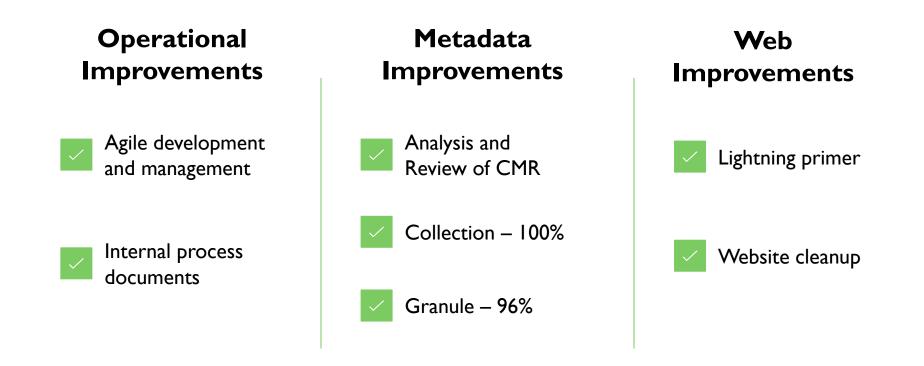
Discipline Affiliation Name Term end 2019 Lightning Steve Goodman Private company (ret'd NOAA) Michael Peterson Los Alamos National 2019 Weixin Xu Laboratory 2021 Colorado State University Passive Microwave 2021 Joe Munchak* NASA GSFC NASA JPL 2021 Joe Turk Hurricane Science Haiyan Jiang FIU 2020 Jonathan Zawislak FIU, Univ. Miami/CIMAS, HRD 2019 Jason Dunion Univ. Miami/CIMAS, HRD 2020 **Global Precipitation** Dan Cecil NASA MSFC 2019 Mission Ana Barros **Duke University** 2020 Pierre Kirstetter** Univ. of Oklahoma 2020 2020 Severe Weather **Emily Berndt** NASA SPoRT Applications Eric Anderson NASA MSFC (SERVIR) 2020 Dave Jones StormCenter Communications 2020 2021 Albert Kettner University of CO Boulder Gail Skofronick-Jackson NASA HQ HQ (ex officio) Kevin Murphy NASA HQ ESDIS (ex officio) Jeanne Behnke NASA GSFC Drew Kittel NASA GSFC Steve Berrick NASA GSFC Andy Mitchell ESDIS Project Manager **2019 Chair, *2019 Co-Chair Red: 2019 is final year on UWG Orange: 2020 is final year on UWG

GHRC UWG Board Members

10/22/2019

State of GHRC (FY19)

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State of GHRC (FY19)

Tool Improvements

- Data Publication DAPPeR
- Bulk Data Downloader
- Field Campaign Explorer

Cloud Migration

GF





State of GHRC (FY19)

Data Publication

- 46 total datasets
- Key datasets
 - GPM-GV
 - Lightning ISS LIS Validation
 - GOES-R Post Launch Test
 - ICE-POP Field Campaign

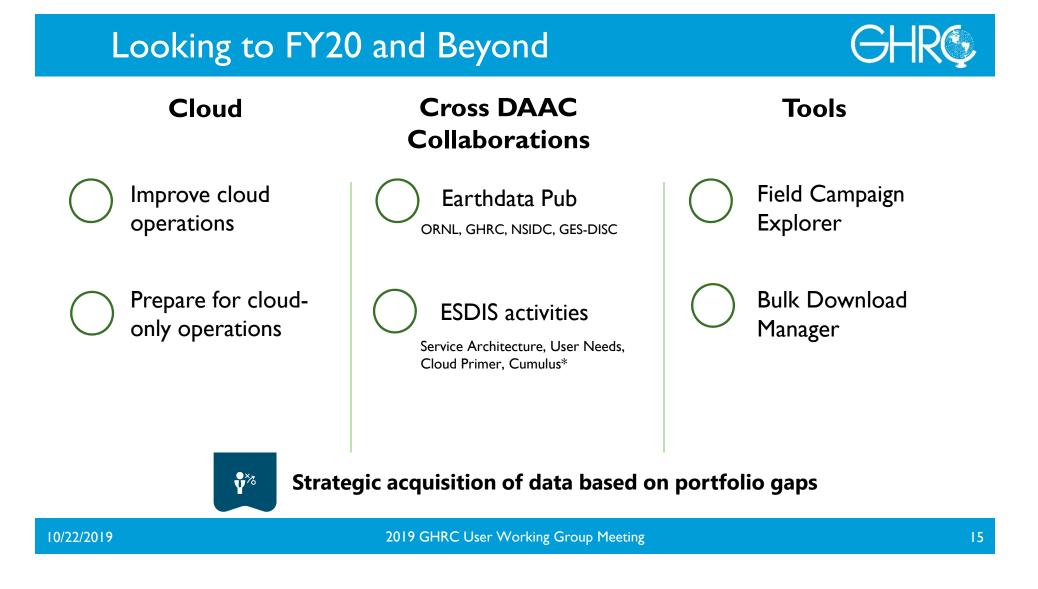
Community Engagement

Science Teams
 Micro Articles
 Data Recipes
 Virtual Collections
 Mastheads
 Webinar
 Conferences/Meetings
 IMPACTS mission data support

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2019 GHRC User Working Group Meeting

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GHRC User Working Group Mandate



Primary objectives include but are not limited to:

- Suggesting improvements to enhance overall user experience including discovery, access, and usability of data
- Suggesting new research and development ideas relevant to GHRC to support product/tool prototyping and generation
- Facilitating **communications with the general user community** and interested members of other communities
- Assisting GHRC in **prioritization and pursuit of new data holdings** within the bounds of budget and ESDIS mission constraints



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UWG 2018 Recommendations

- Primary recommendation
 - Development of a 5 and 10 year plan
 - Improve links in GHRC mission and holdings with Earth Sciences
 - Include more coordination between UWG and GHRC
- GHRC response
 - GHRC has begun drafting the 5 and 10 year plan
 - Additional work to occur, including more communication with Dr. Skofronic-Jackson and coordinating with the UWG
 - First step is the 6 month webinar in early 2020 and iterate with UWG on the strategic plan

UWG 2018 Recommendations



- Secondary recommendation
 - UWG to work with GHRC to identify critical missing elements to help with validation of NASA-sponsored precipitation products
- GHRC response
 - Emphasis has been completing the dataset backlog
 - Coordination with Walt Petersen and later Patrick Gatlin
 - Will continue to update GPM GV Validation Network data
 - Identifying GPM GV datasets to publish, but GHRC does not have yet
 - ITSC earned an AIST proposal building off the Validation Network using GHRC GPM GV data

UWG 2018 Recommendations

- Secondary recommendation
 - Become an event driven repository
- GHRC response
 - FCX is a step towards this
 - Data model behind FCX is event based model

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UWG 2018 Recommendations



- Secondary recommendation
 - Search ISS LIS and Lightning Mapping Arrays (LMA) together
- GHRC response:
 - Currently waiting on LMAs to be ready to start publishing
 - Will investigate methods to do a joint search
 - Can then be applied to TRMM LIS data as well



THANK YOU! QUESTIONS?



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