

# **GHRC Cloud Update**

**Will Ellett** 



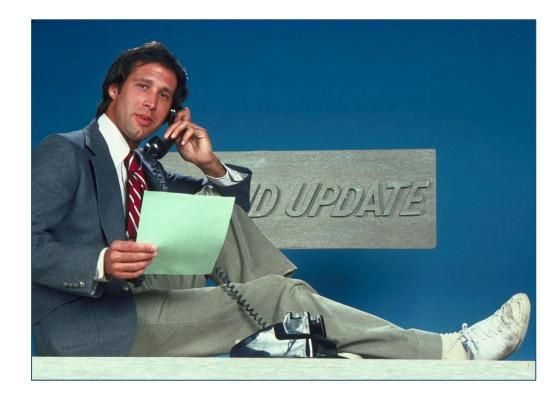


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## **Cloud Update Agenda**

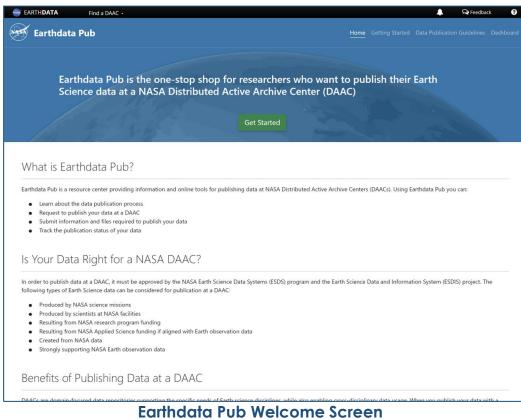


- Dataset Services
- Cloud Services
- Website Migration
- Decommission Plans
- Looking Ahead



## **Dataset Services: Publishing**

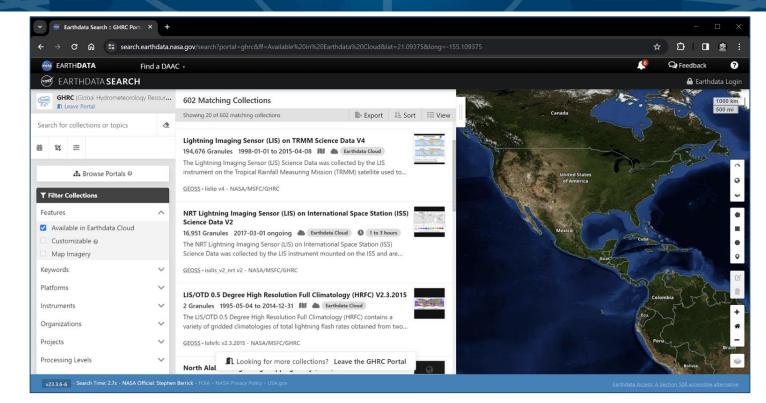




https://pub.earthdata.nasa.gov/

## Dataset Services: Search/Distribution





GHRC Search Portal using Earthdata Search https://search.earthdata.nasa.gov/portal/ghrc/search

#### **GHRC User Working Group 2023**

## **Dataset Services: Archive & Backup**

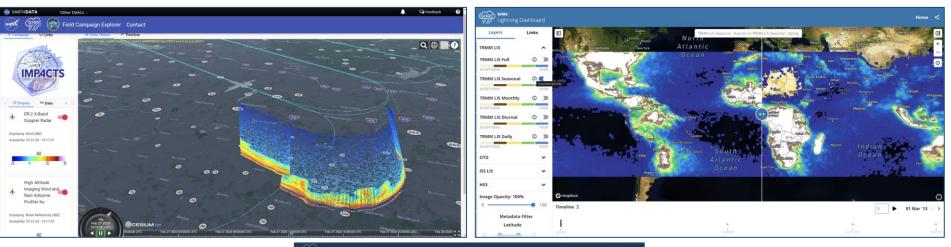


- Cumulus
- Cloud Work Area
- Operational Recovery Cloud Archive (ORCA)
- Level Zero and Repositories Data Store (LZARDS)

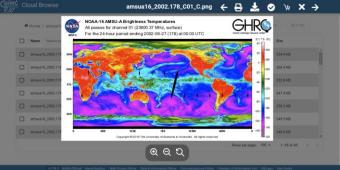


### **Cloud Services**





#### Field Campaign Explorer



#### Lightning Dashboard

Cloud Browse GHRC User Working Group 2023

## Website Migration





HS3 Home

HS3 Micro Article

**BAMS** Publication

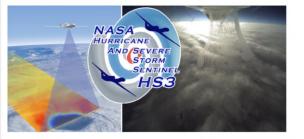
HS3 Information at NASA's Earth Science Project Office

Collection DOI

HS3 Data Management Plan

Find Data

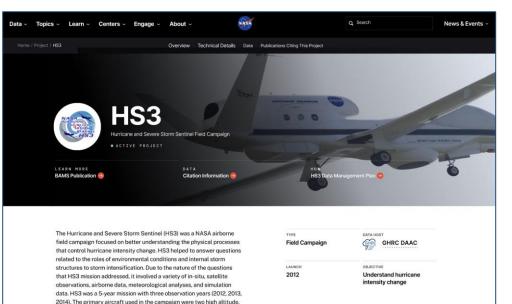




The Hurricane and Severe Storm Sentinel (HS3) was a NASA airborne field campaign focused on better understanding the physical processes that control hurricane intensity change. HS3 helped to answer questions related to the roles of environmental conditions and internal storm structures to storm intensification. Due to the nature of the questions that HS3 mission addressed, it involved a variety of in-situ, satellite observations, airborne data, meteorological analyses, and simulation data. HS3 was a 5-year mission with three observation years (2012. 2013, 2014). The primary aircraft used in the campaign were two high altitude, long-duration flight unmanned airborne systems (UAS). Each Global Hawk UAS was outfitted with instruments capable of measuring various storm and environmental



#### Current Landing Page (HS3)



#### Future Landing Page (prototype)

## **Decommission Plans**



- Finalize decommission plan
- Inform Users
- Shutdown servers
- Support lightning team
  - (ISS LIS reprocessing, etc)



## **Looking Ahead**



### • Improving Cloud Operations

- Streamlining ingest & archive via enterprise service
- Improve operator Dashboard
- Improve Python cLoud Operator Tool (PyLOT)

### Bulk Downloader

- Worked with ESDIS to create an enterprise solution
- Earthdata Download available early 2024

### Upload Area

- Worked on prototype via Earthdata Pub project
- Cloud Upload Environment (CUE) available early 2024

### Web Changes

- Website moving to common location
- DAAC Services URL's moving





# **THANK YOU!**

**QUESTIONS?** 





