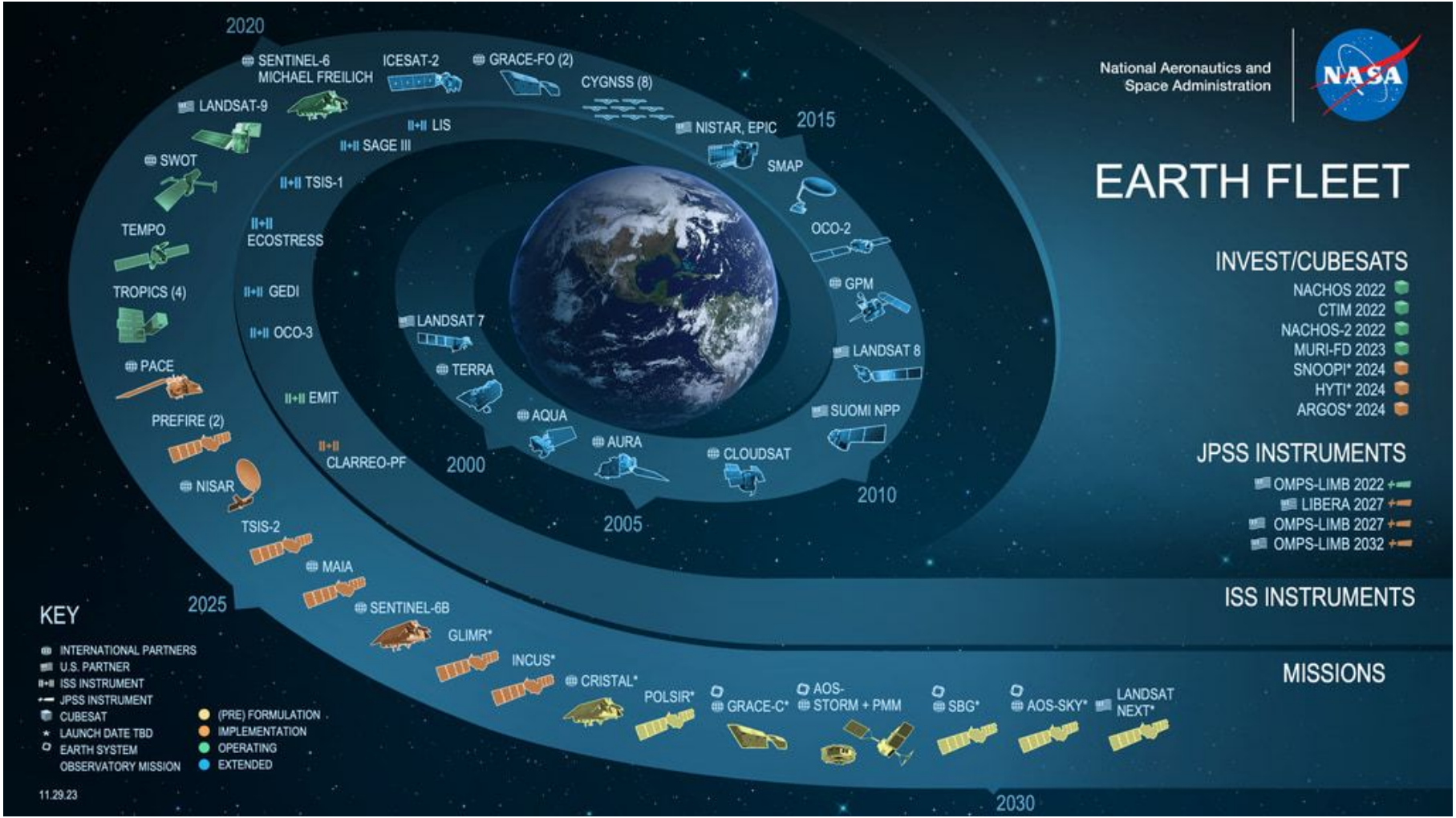
NASA Earthdata
Michele Thornton

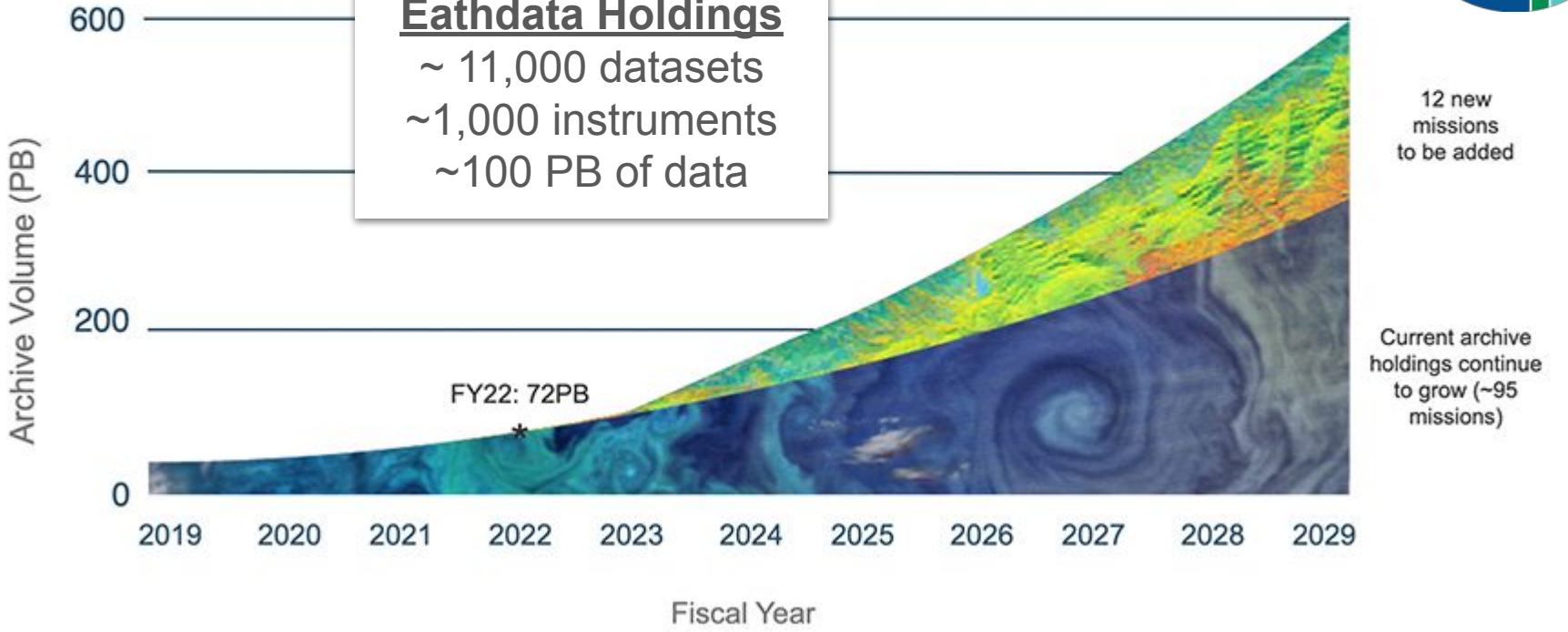
NASA Earthdata Introduction

NASA
EARTHDATA
earthdata.nasa.gov


National Aeronautics and Space Administration
NASA
EARTH FLEET
2020
SENTINEL-6 MICHAEL FREILICH
ICESAT-2
GRACE-FO (2)
CYGNSS (8)
LANDSAT-9
LIS
SAGE III
NISTAR, EPIC
2015
SWOT
TSIS-1
SMAP
TEMPO
ECOSTRESS
OCO-2
TROPICS (4)
GEDI
GPM
LANDSAT 7
OCO-3
LANDSAT 8
PACE
TERRA
EMIT
SUOMI NPP
PREFIRE (2)
AQUA
CLARREO-PF
AURA
CLOUDSAT
2000
2010
NISAR
2005
TSIS-2
MAIA
2025
SENTINEL-6B
GLIMR*
INCUS*
CRISTAL*
POLSIR*
GRACE-C*
AOS-STORM + PMM
SBG*
AOS-SKY*
LANDSAT NEXT*
2030
INVEST/CUBESATS
NACHOS 2022
CTIM 2022
NACHOS-2 2022
MURI-FD 2023
SNOOPI* 2024
HYTI* 2024
ARGOS* 2024
JPSS INSTRUMENTS
OMPS-LIMB 2022
LIBERA 2027
OMPS-LIMB 2027
OMPS-LIMB 2032
ISS INSTRUMENTS
MISSIONS
KEY
INTERNATIONAL PARTNERS
U.S. PARTNER
ISS INSTRUMENT
JPSS INSTRUMENT
CUBESAT
LAUNCH DATE TBD
EARTH SYSTEM OBSERVATORY MISSION
(PRE) FORMULATION
IMPLEMENTATION
OPERATING
EXTENDED
11.29.23

NASA

Earth Science Data Archive Growth Projection



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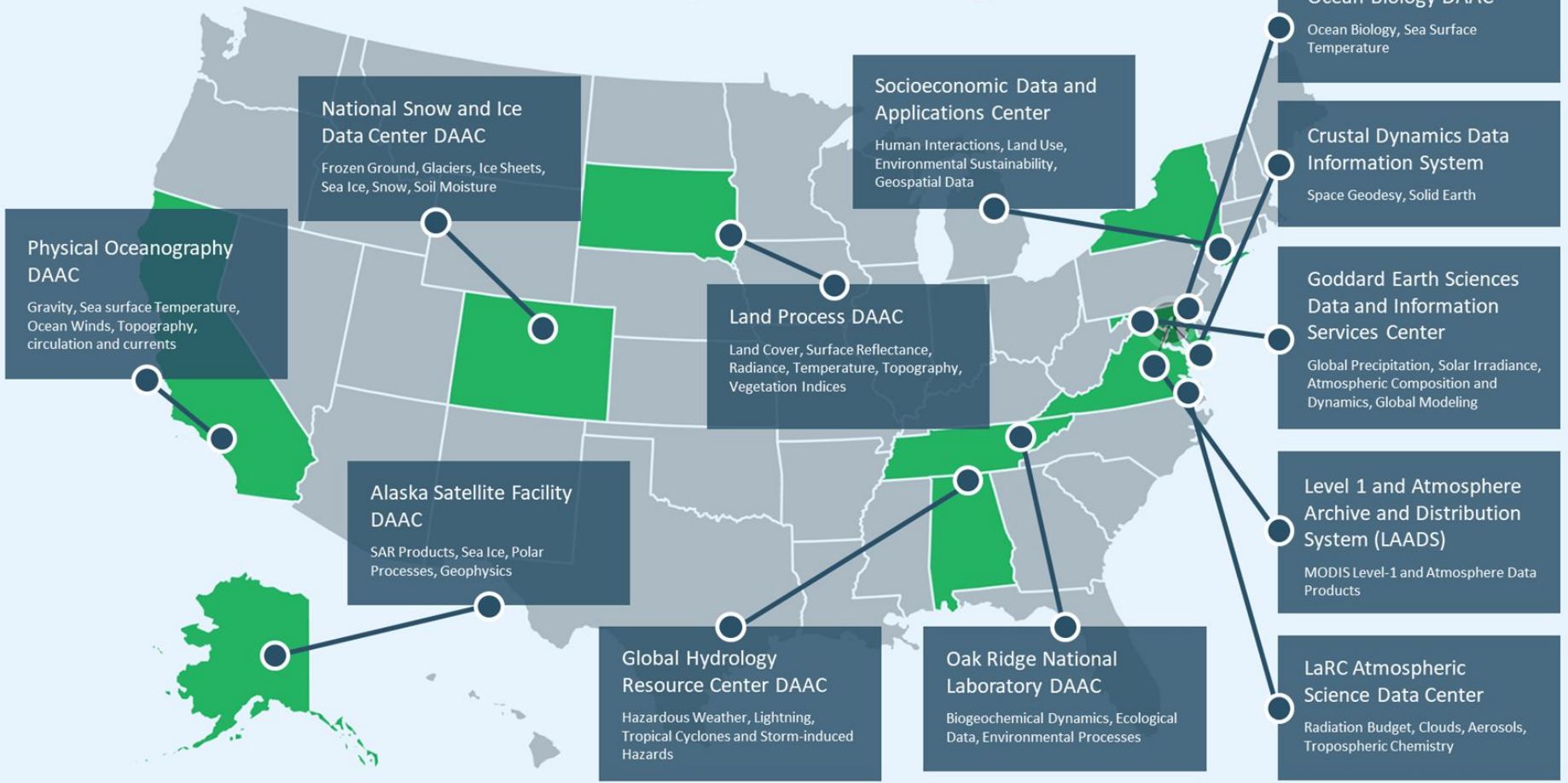
EARTHDATA

Earth Science Data and Information System (ESDIS) Project

NASA's Distributed Active Archive Centers (DAACs):

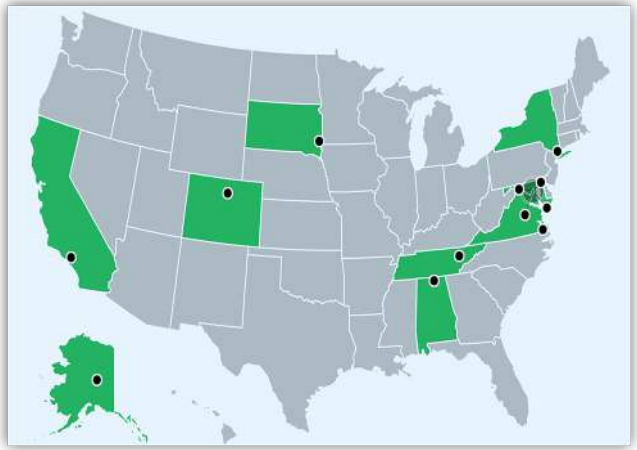
A federated approach to data management



NASA Earthdata Introduction - DAACs

Distributed System

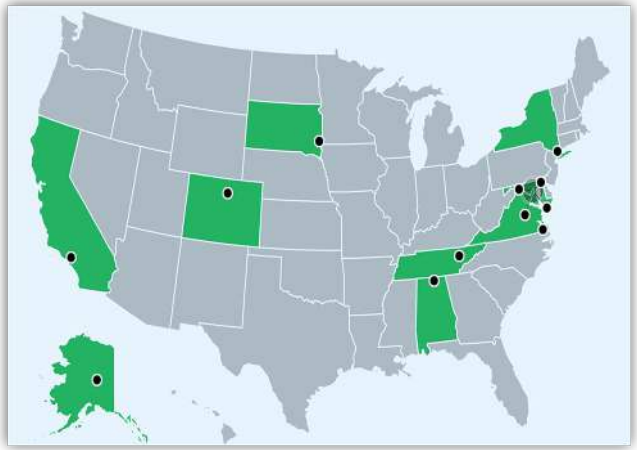
- **<u>Focus on support</u>** of data producers and data users
- Domain/discipline expertise
- Varied data formats have diverse standardizing protocols and metadata
- NASA Earthdata data are archived ***<u>through</u>*** DAACs



NASA Earthdata Introduction - DAACs

DAACs

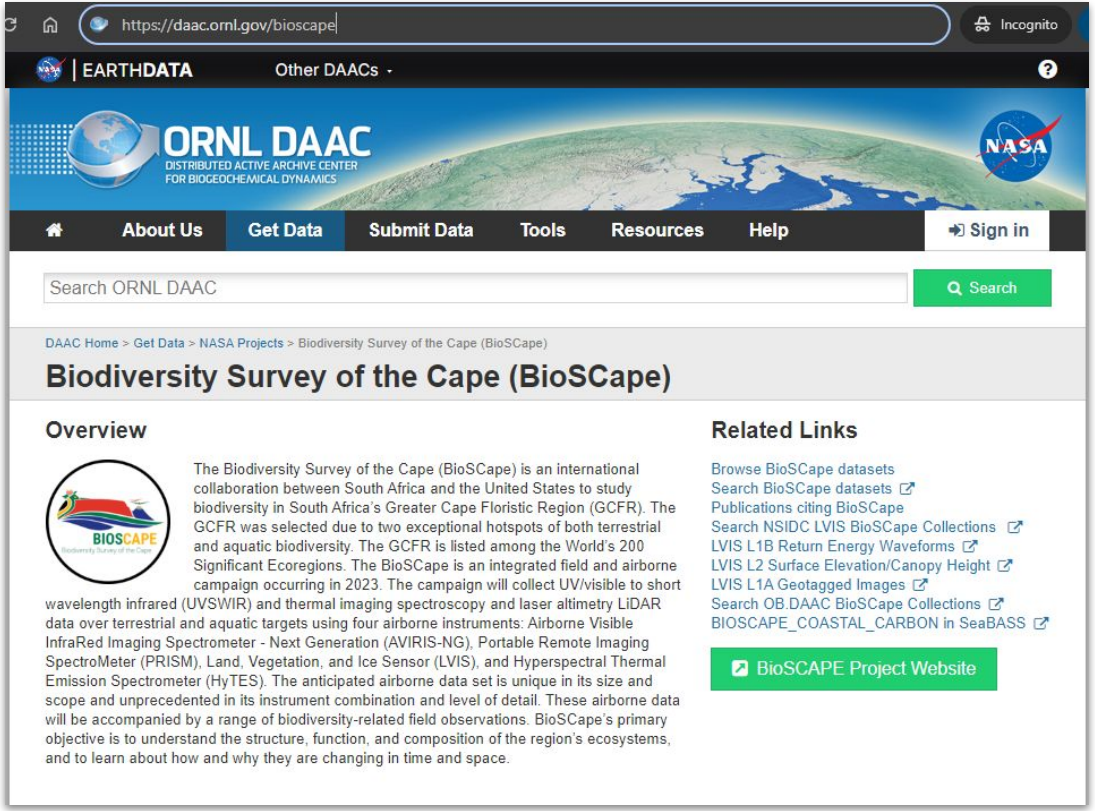
- Standardize data/formats
- Create User Guides
- Provide collection and file-level metadata
  - Common Metadata Repository (CMR)
- Publish data to NASA Earthdata
- Generate dataset Citations/DOI’s



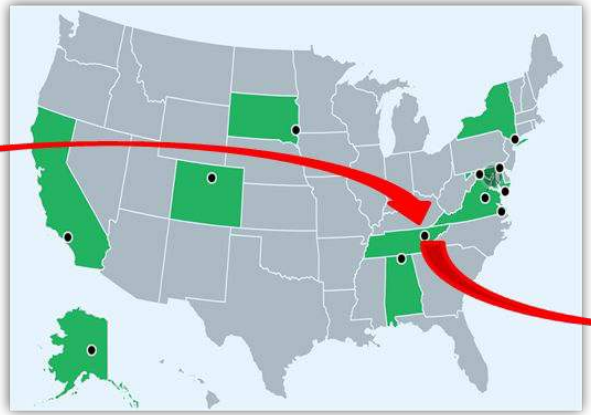
NASA Earthdata Introduction – ORNL DAAC

https://daac.ornl.gov

https://daac.ornl.gov/bioscape



NASA Earthdata Introduction - DAACs



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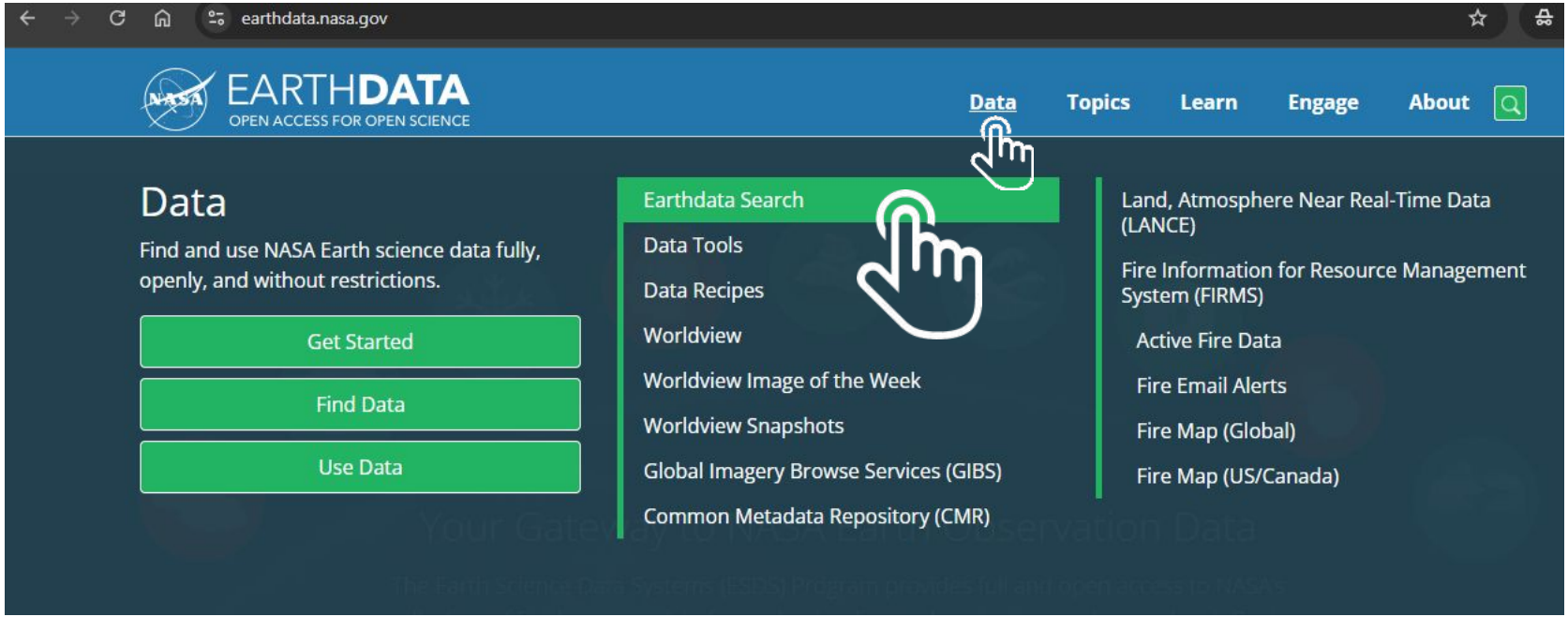
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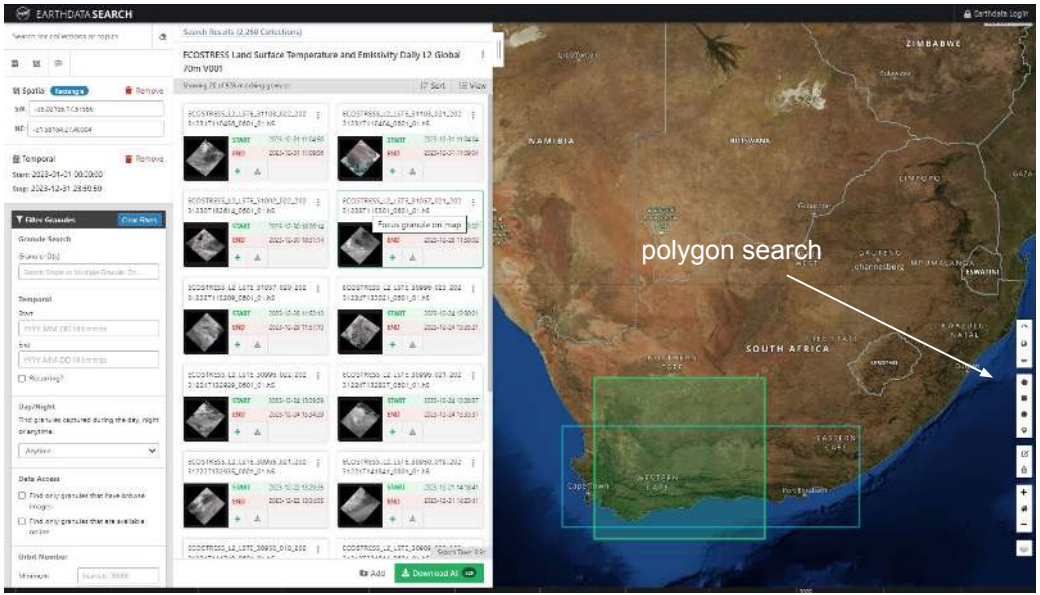
Data Recipes
Worldview
Worldview Image of the Week
Worldview Snapshots
Global Imagery Browse Services (GIBS)
Common Metadata Repository (CMR)
Land, Atmosphere Near Real-Time Data (LANCE)
Fire Information for Resource Management System (FIRMS)
Active Fire Data
Fire Email Alerts
Fire Map (Global)
Fire Map (US/Canada)

NASA Earthdata Introduction

Earthdata Search
(search.earthdata.nasa.gov)

- Unified search and discovery interface for all of NASA's Earth Science data

- Powered by the NASA Common Metadata Repository (CMR) and CMR API