

XXXII IAU GENERAL ASSEMBLY

CAPE TOWN, SOUTH AFRICA, 2024

6-15 AUGUST

Navigating JWST Data

JWST Hands-on - IAU 2024

Kenneth Duncan, Friday 9th August 2024



Outline

- Raw data and standard products: MAST
- Uniformly processed mosaics: The Dawn JWST Archive (DJA)
- Ancillary and archival data: ESA Sky
- Catalogues and higher level data products: DJA, MAST High-level Science Products

Mikulski Archive for Space Telescopes

mast.stsci.edu – Raw and Processed Data from JWST Pipelines

- Currently available data collections:
 - MAST Observations: Millions of observations from JWST, Hubble, Kepler, GALEX, IUE, FUSE, and more.
 - Virtual Observatory: Search thousands of astronomical data archives from around the world for images, spectra, and catalogs.
 - Hubble Source Catalog: A master catalog with a hundred million measurements of objects in Hubble images.
 - MAST Catalogs: Access to catalog data such as Gaia and TESS Input Catalog, with more coming soon.

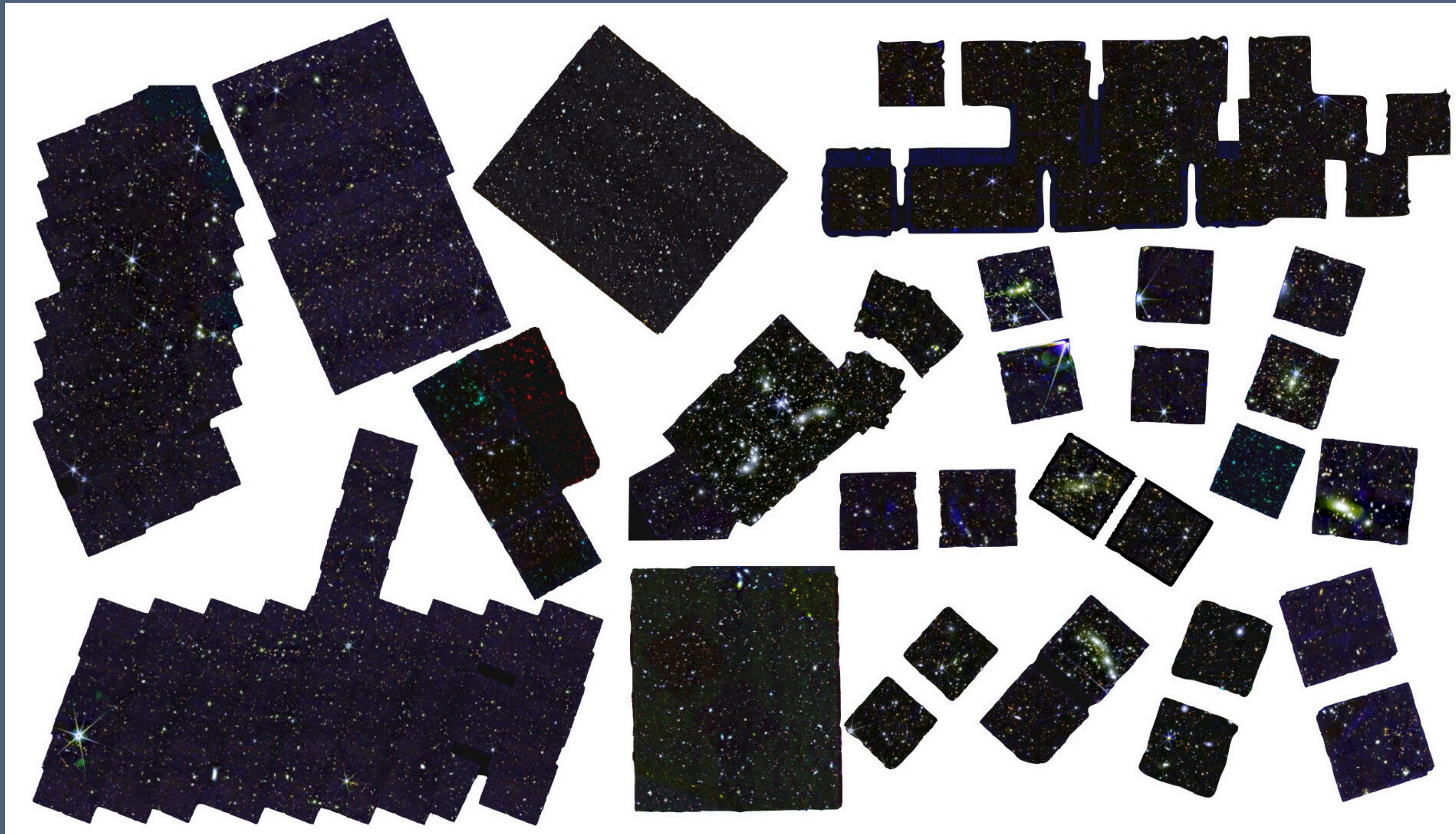
[MAST YouTube Channel](#)

[MAST Field Guide](#)

The DAWN JWST Archive

dawn-cph.github.io/dja/

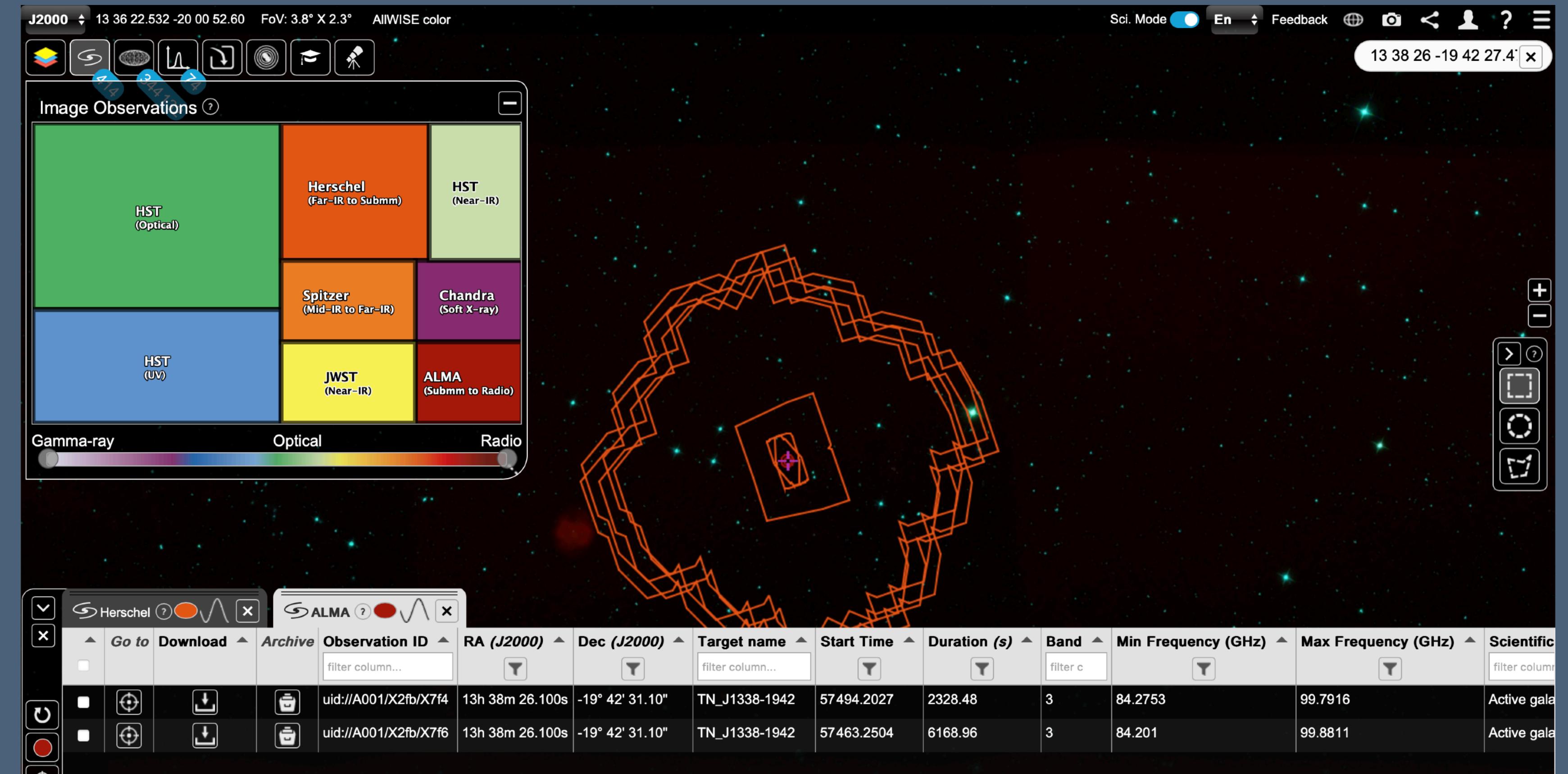
- Uniformly processed mosaics from various JWST deep field surveys
- Processed NIRSpec spectra (see later session)
- Catalogues and photometry



ESA Sky

sky.esa.int

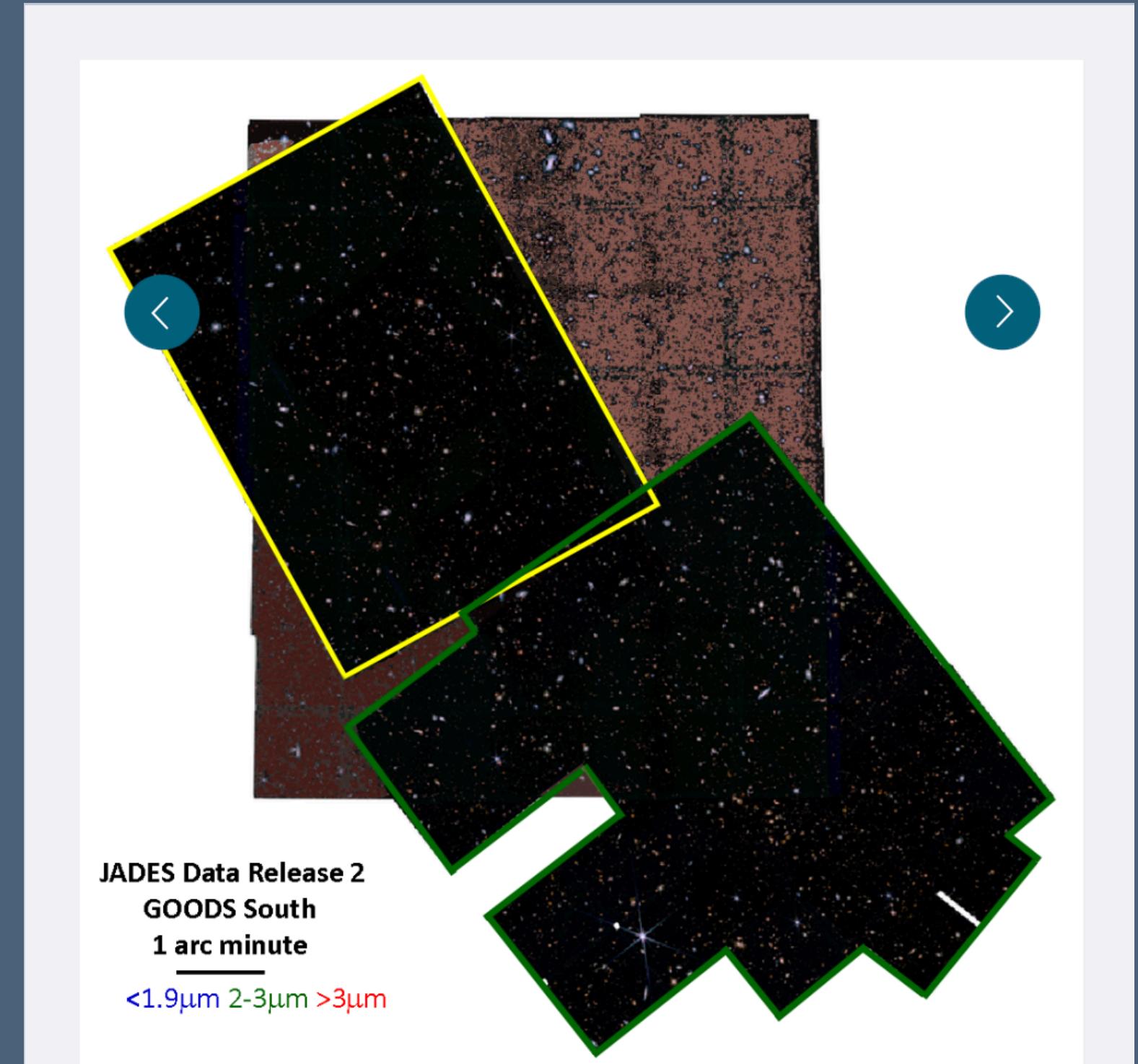
- Access and visualise JWST and other multi-wavelength datasets
- Preview and download catalogues/imaging/spectroscopic data



MAST High-level Science Products

mast.stsci.edu/hlsp

- Access to higher level data products from various JWST (and other) GTO or legacy programmes, including:
 - Reduced mosaics
 - Photometric catalogues
 - Catalogues of spectroscopic properties etc.



JADES Second Data Release Area

Figure 1: JADES second data release area. The first release area is outlined in yellow while the green line outlines the region with new JADES data. The brown shaded regions have coverage only in F182M, F210M, and F444W from PID 1895, PI Pascal Oesch, FRESCO.