MAST
Users
Group
Meeting
Nov 18
2013

MAST High-Level Science Products (HLSP)

http://archive.stsci.edu/hlsp

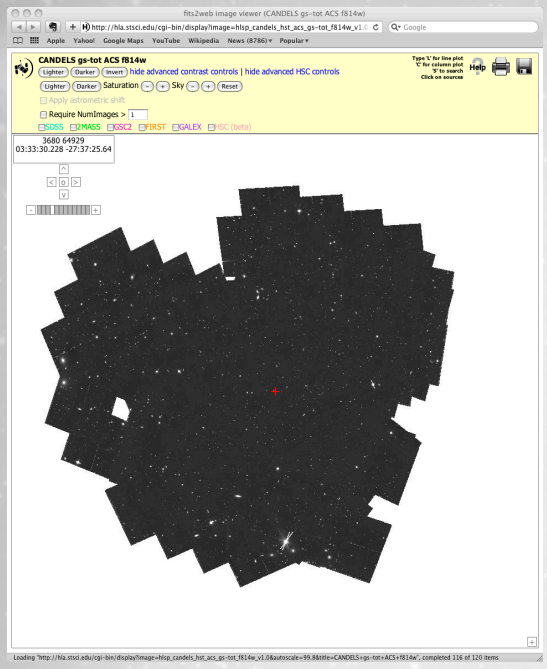
- Community-contributed, fully processed
- Include a wide variety of different types:
  - Image atlases
  - Spectral atlases
  - Surveys
  - Individual objects
  - Catalogs
  - Composite spectra
  - Time series datasets
  - Theoretical models

MAST Users Group Meeting

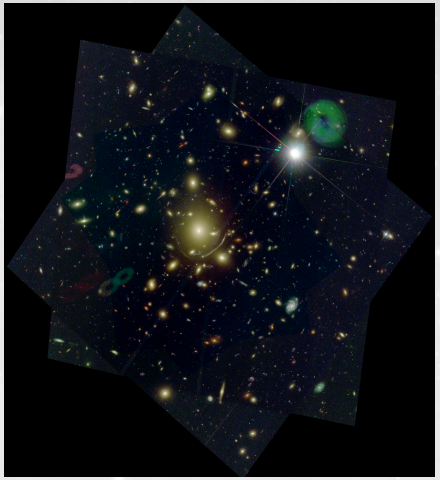
Nov 18 2013

Imaging HLSPs

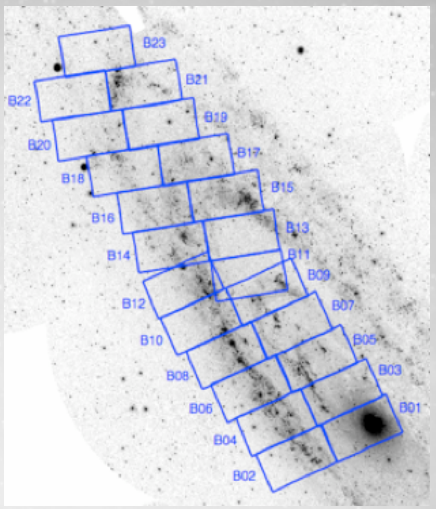
MCT programs: CANDELS (PI: Faber, Ferguson)



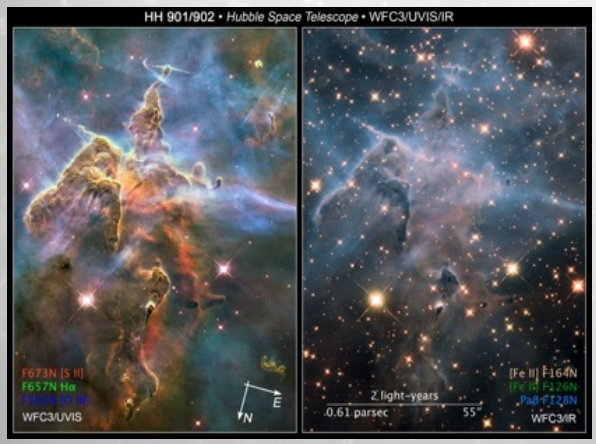
CLASH (PI: Postman)



PHAT (PI: Dalcanton)



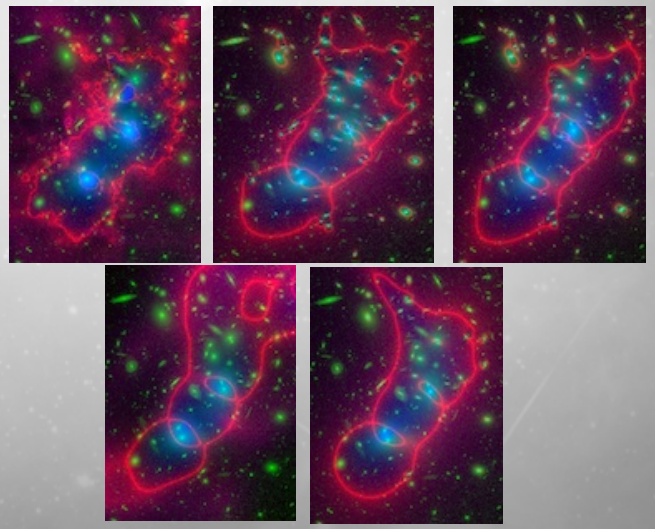
Carina Nebula (PI: Mutchler)



Frontier Fields (PI: Lotz/ Mountain)

HST mosaics

Cluster lensing models contributed by community (Bradac, Ebeling, Mertin, Zitrin, Sharon, Williams)



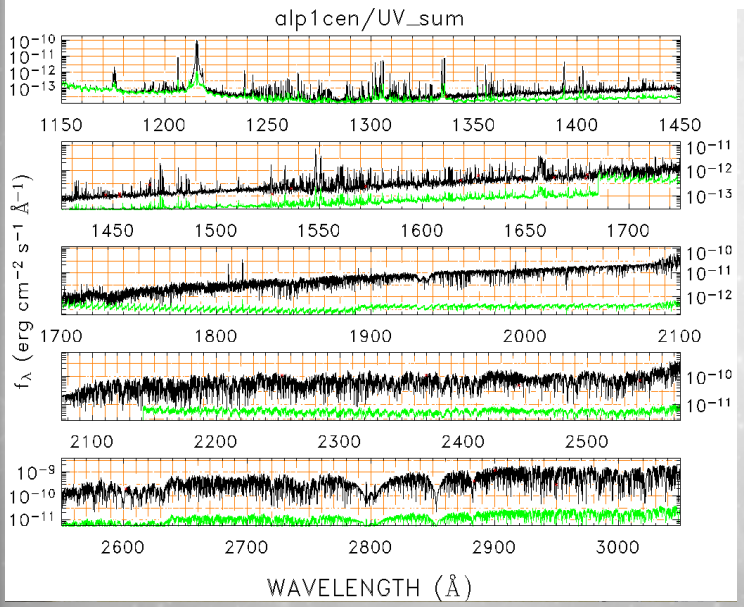
Spectroscopic HLSP

MAST Users Group Meeting

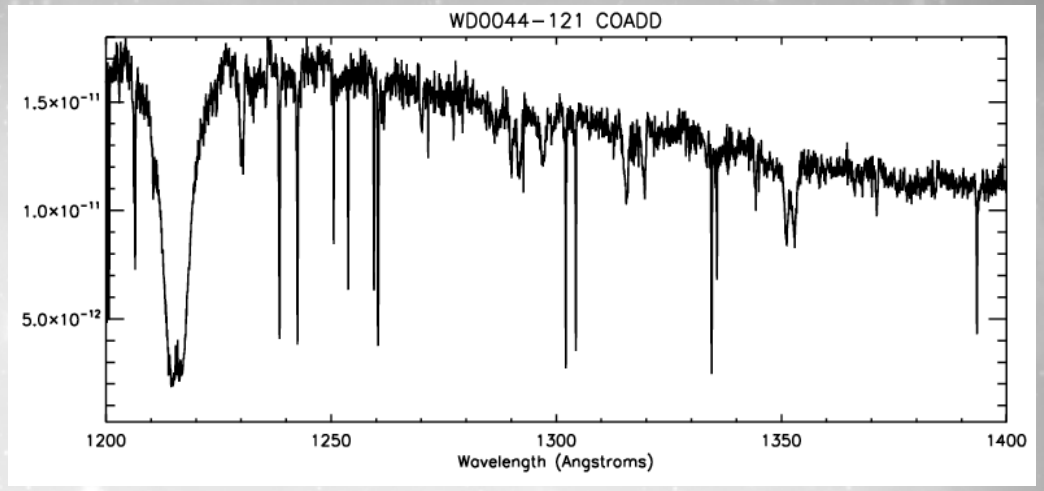
Nov 18 2013

Spectral Atlases

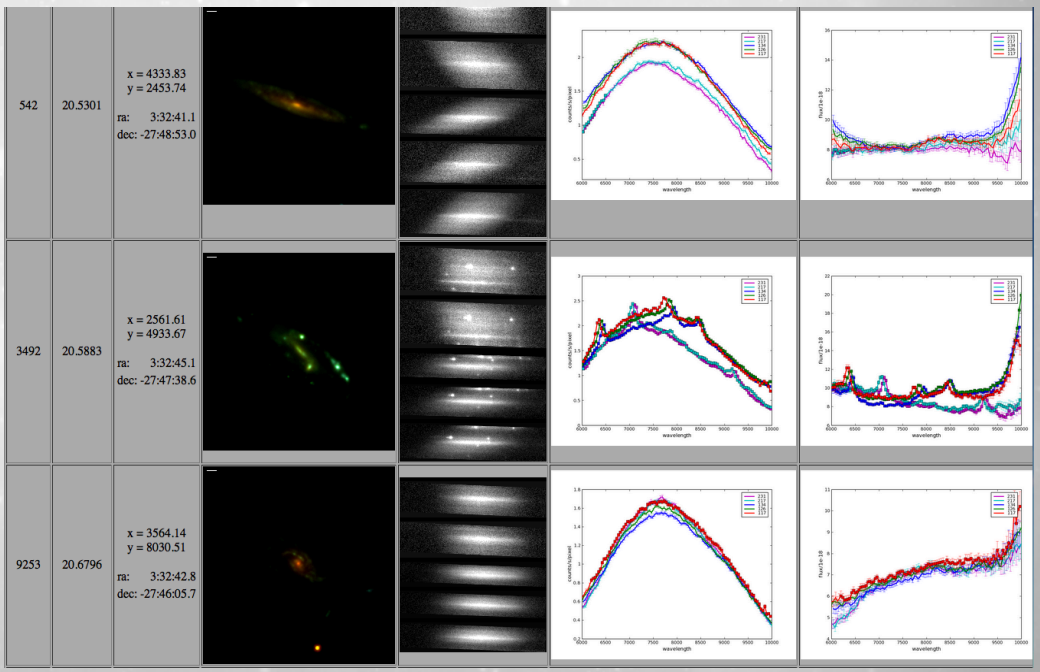
- Search 10 Lac (O9V) Spectral Atlas (HST/GHRS) PI: Brandt, J.C.
- Search A FUV Atlas of Low-Resolution HST spectra of T Tauri Stars PI: Gregory Herczeg
- Search AGN and Quasar Spectral Atlas (HST/FOS) PI: Ian Evans
- alpha Ori Spectral Atlas (HST/GHRS) PI: GHRS Team
- chi Lupi (B9.5 pHgMn) Spectral Atlas (HST/GHRS) PI: GHRS GTO team
- Search CoolCAT - A cool-star UV spectral catalog PI: Thomas Ayres
- Copernicus Atlases of 6 Selected Stars PI: Copernicus Project
- Search Detailed Far-UV Atlas of O Main Sequence Stars PI: Myron Smith
- Search Detailed Far-UV Spectral Atlas of B Main Sequence Stars PI: Myron Smith
- Search EUV Spectral Atlas of Stars (EUVE) PI: N. Craig
- Search FUSE Atlas of Starburst Galaxies PI: Anne Pellerin
- Search FUSE Magellanic Clouds Legacy Project PI: William Blair
- Search FUSE Spectral Atlas of Wolf-Rayet Stars PI: Allan J. Willis
- Search OB Stars (Galactic): FUSE Spectral Atlas PI: Anne Pellerin
- Search OB Stars (Magellanic): FUSE Spectral Atlas PI: Nolan Walborn
- Search Pre-Main Sequence Stars: IUE Spectral Atlas PI: Jeff Valenti
- Procyon (FV-IV) Spectral Atlas - Chromospheric Lines (HST/GHRS) PI: Brian Wood
- Standard Stars: IUE PI: Chi-Chao Wu
- Search StarCat: HST STIS Echelle Spectral Catalog of Stars PI: Thomas Ayres
- Search STIS Next Generation Spectral Library (AR10659) PI: Sally Heap
- Search White Dwarf Spectral Atlas: High dispersion IUE PI: Jay Holberg



CoolCAT / StarCAT UV Atlases, several hundred stars (Ayers)



Co-added IUE White Dwarf Spectra (Holberg)



GRAPES grism spectroscopic survey, 1400 spectra from UDF (Malhotra)

MAST Users Group Meeting

Nov 18 2013

HLSP Open Questions

- Do the community think of MAST as their go-to source for HLSP, or do they just google search and visit individual people's / team's pages? How can we change this mentality?
- Are the community motivated to share their final data with us, especially when not required by funding conditions? We have had some steady interest, but how can we motivate more groups? What roadblocks are there to encourage more group's to share their published results at MAST?
- What is the utility of such data? Is this something the community actually wants or needs? *If they don't know about data / papers on their objects of interest, they can't possibly make use of it.* Is enhancing the discoverability of such HLSPs an important goal (the most important goal)?
- What key ideas do we need to be pursuing in order to make HLSP data more accessible to the community?