



Round-table discussion: NOAO Science Archive

Betty Stobie, Mark Dickinson
for NOAO Science Data Management



NOAO Science Archive Round-table

Our charge from the conference organizers - Discuss:

- What is good?
- What should the [NSA] be doing better?
- What is the [NSA] not doing at all?
- ~~Why is the Archive URL “portal-nvo.noao.edu”?~~



What's next for the NOAO Archive?

- **Features in upcoming archive releases:**
 - Increased staging limits (up to 250,000 files)
 - Better performance
 - Registered SIA service (VO programmatic interface)
- **New survey data:**
 - DECam Legacy Survey (DECaLS) DR1 – this month!
 - Other DECam data from NOAO Survey Programs
 - **Eventually:** migrate pre-DECam surveys from old (obsolete) Survey Archive to NOAO Science Archive
- **Behind the scenes:**
 - Major overhaul of 3rd-party software systems & infrastructure



New user-facing features under discussion

Which, if any, would you like to see?
What else would you like to see?

- New query form(s) for survey data products
- Reorganize / redesign output from search results
- Query by filter
- Preview images
- Easy access to headers (without pixels)
- Query by list of sky positions
- Cutout service
- **On my long-term wish-list:**
 - Uniform reprocessing of all DECam, Mosaic, NEWFIRM data



Questions for you

- Who uses NOAO login vs. VO login?
- Can you make the queries that you need?
- Have you had problems with staging and downloads?
 - Are the Archive's maximum staging limits a problem for you?
 - Not *you*, Ben...
- What metadata do you need that are not in the Archive database?
- How should we handle multiple versions of pipeline-calibrated data?
 - Also, multiple generations of survey data releases?
 - NB: saving/storing multiple copies of all reduced DECam data is not (currently) practical in terms of cost.