

## Why?



- The "I" in NITARP stands for "IPAC", based at Caltech.
- IPAC is not the Astronomy Department!
- IPAC houses several different archives, each with their own goals, methodology, tools, staff, (and sometimes science goals).
- As NITARP educators, you will learn about at least one of our data sets in great detail, but the rest of IPAC's holdings may also prove useful to you in your NITARP project, or your future (post-NITARP) work!
- Essentially all of IPAC has been consolidated into one AAS booth (for better branding in the community).
- (There are archives based at other places that have other booths here too...)

## An archive's job Ingest new data (and reprocessing of old data). Maintain/serve vital repository of irreplaceable data: Support for observation planning and mission planning. Resource for original science. High level science products. Enable cutting-edge research: API and Virtual Observatory. User support by experts. New/enhanced services. Multi-wavelength projects.





- NED = NASA/IPAC Extragalactic Database
- Focused on extragalactic science.
- Ingests catalogs and literature tables.
- Hundreds of millions of unique objects!
- Myriad cross-links, notes, etc.
- Updates every few months.
- http://ned.ipac.caltech.edu/

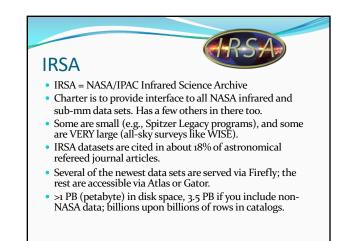


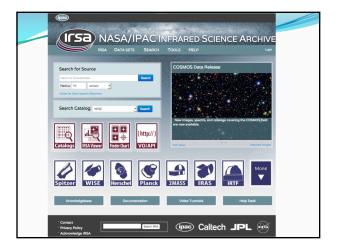
## NASA Exoplanet Archive

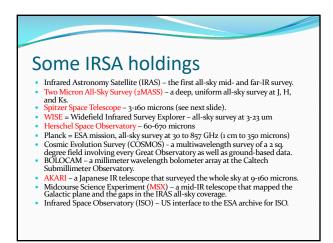


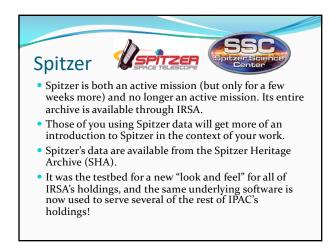
- Focused on stars harboring exoplanets, or thought to harbor exoplanets.
- Includes Kepler data, and US portal to CoRoT data.
- Anyone using Kepler data (none of you this year) will get more of an introduction to this as part of your work.
- Online tools to work with these data, like the periodogram service.
- http://exoplanetarchive.ipac.caltech.edu/



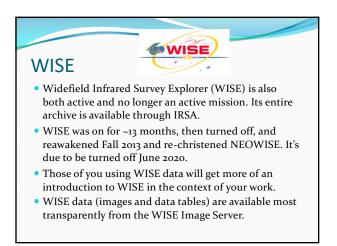








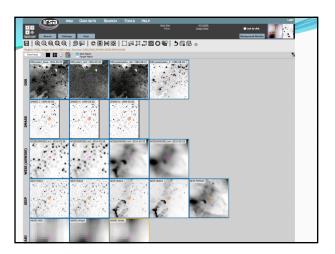


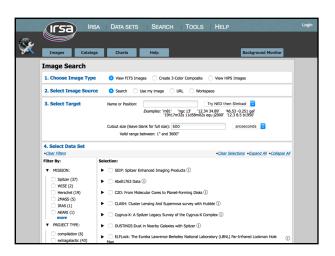












## Summary

- LOTS of data available to you RIGHT NOW.
- Everything is web-based. Most are intuitive (I hope). Most have on-line help. They are getting more integrated all the time
- Many have some related material on the NITARP wiki, and/or in NITARP Tutorials. IRSA has a YouTube channel.
- All of these archives have representation here at the AAS.
- You will learn more about archives specific to you as you work on your project, but don't be afraid to branch out and go exploring!