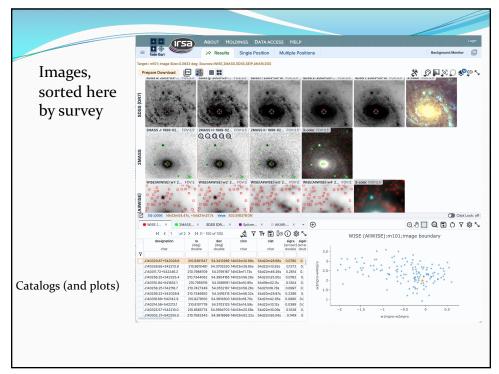
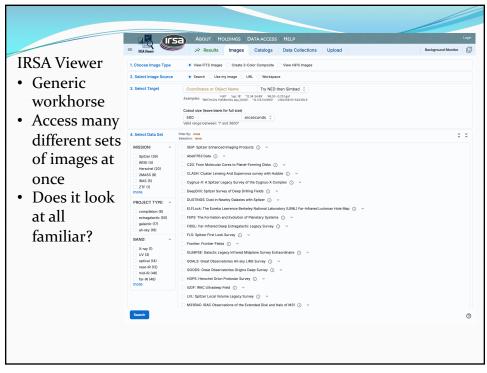
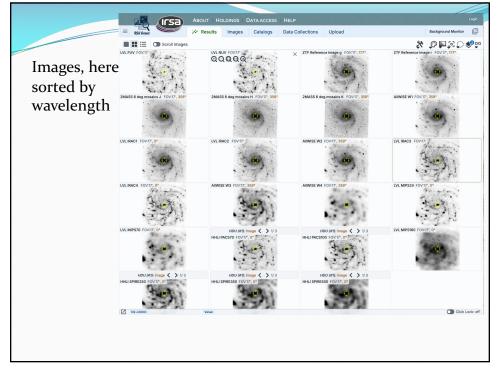
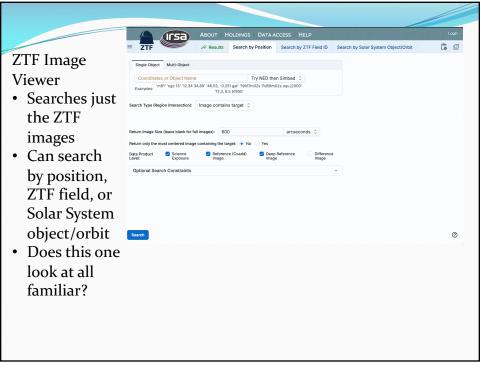


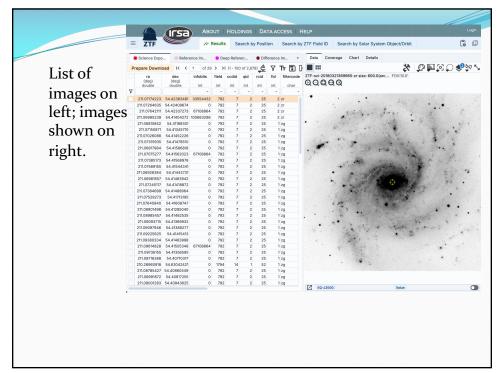
	ABOUT HOLDINGS DATA ACCESS HELP
	Finder Chart X Results Single Position Multiple Positions
 Finder Chart Access up to 7 surveys at once Images and catalogs together Easiest "on- ramp" to 	Single Position Coordinates or Object Name Try NED then Simbad C Examples: "gehTm32s hds9m02s equi p000" '12.3 e.s bills0" UH0258.51+542318.3" Image Size 300 arcseconds C Display Size: Small @ Medium Large Select: DSS SDSS WISE (allsky) Splizer AKARI IRAS (IRIS) Search Corresponding Catalog(s): Yes No Search radius (arcsec) SDSS (OR10) 2MASS (PSC) WISE (AllWISE) Splizer (SEIP) AKARI 5 5 5 5 5 One to one match Search Search Search
IRSA services	Image Search Options Y







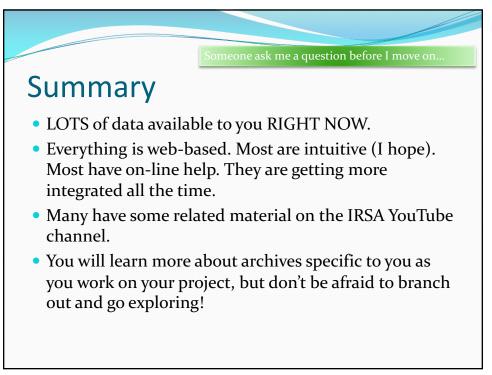


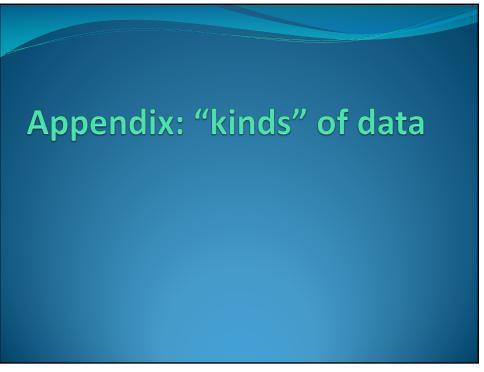


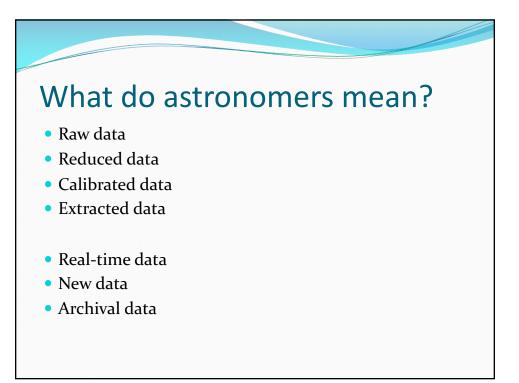
Basic idea

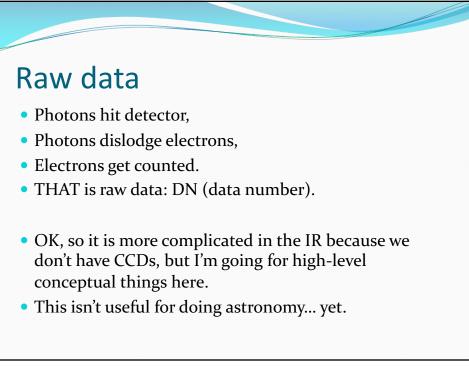
- Many of IRSA's tools have the same look and feel.
- We are updating tools (& data!) all the time. Not everything (yet) is served this way, but we are getting there.
- We will use a LOT of IRSA tools in what we do.
- IRSA can also seamlessly interface with other archives, some more easily than others. This, too, will get easier with time.

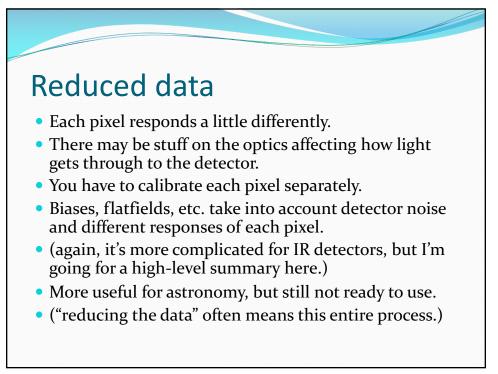






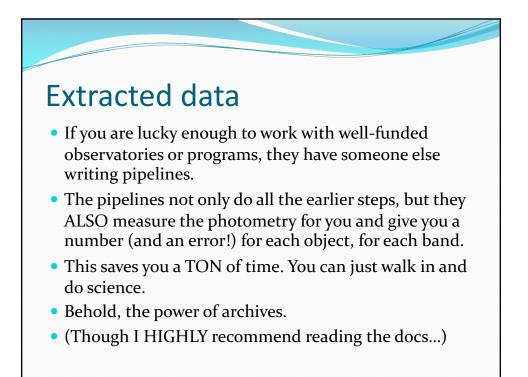






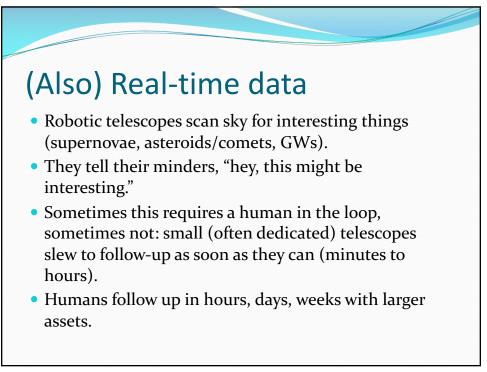
Calibrated data

- Now we're talking!
- I know how bright that star is (Vega).
- This star is 5.31 times fainter than Vega.
- This final step takes into account all prior steps AND compares your target to the brightness of known objects.
- NOW you are nearly ready to do astronomy! You can do your own photometry on these images.



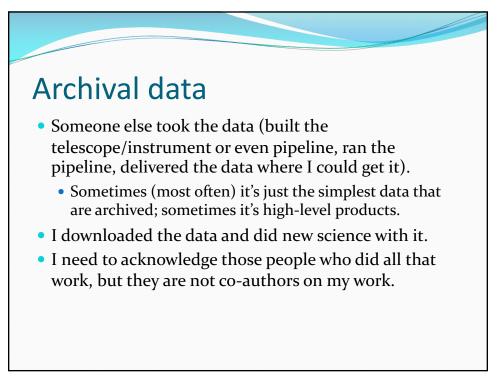
Real-time data

- You are sitting at the telescope.
- You read out the detector.
- You run the pipelines (or a portion of them; usually you don't get all the calibrations you need until the end of the night).
- You look at the results.
- You adjust your next observation based on what the results are.
- THAT is real-time data.



New data

- I wrote the proposal & I won the telescope time, or I built and own the telescope and instrument;
- I obtained the data, or I specified the details of the request of the robotic telescope;
- I took all the calibrations too and wrote the code to reduce all the data, or I took the output of whatever pipeline exists and did whatever additional work was required to meet whatever standards I have;
- (I did science based on the new data.)



Archival data (2)

- If it's really ready-to-use data, like I can pick it up and do science right now, then THAT's what doubles the scientific output of a telescope.
 - (ref plots I showed you earlier)
 - You do still need to read the docs ... bad papers get written!
 - Important for my 2025 team: different pipelines yield different results!!
- This is super useful not just for new astronomers, but also for old astronomers who are new to an instrument, a wavelength regime, a field, even a data format.

