## ilifu - Fornax meeting 18 May 2021

- Date and Time
  - o 10-11am SAST / CET, Tuesday 18th May
- Location: Zoom
  - https://us02web.zoom.us/j/88427695060?pwd=a1Z5ckxOLzBRSmVWZE5mVytm V0hzQT09
  - o Meeting ID: 884 2769 5060
  - o Passcode: 502810
- Previous meeting
  - https://docs.google.com/document/d/1mXLxtLcHzx27NVxCSRTvX7L0zF3hhyTrb N7CFI7oE6w/edit?usp=sharing
- Introduce Oarabile Hope Moloko: Astronomy Support Specialist
- Project updates
  - Update on season 1 imaging
    - Imaged and mosaicked all data at moderate to low angular resolution; wanted to push to higher resolution (~10") for some projects (only for some regions/targets)
    - Finished this so closed reservation; won't need reservation for a few months while publishing papers
  - Anything else
    - Dane's and Simon's fix of 32k channelisation error introduced bug (62 channel shift)
      - Need to go back and process 1607792473\_20210125T10\_02\_08 a little more, likely in general queue
- Data management
  - Moving all (continuum-subtracted) visibilities from /scratch3 to /idia, ready to be imaged (Data transfer)
    - Refined version (after improved continuum-subtraction) on /scratch3, ready to be moved to /idia, overwriting (/ after removing) previous MSs
    - Doing so very carefully by hand to ensure they don't lose data
    - ~0.5 TB per obs, so ~25 TB on /idia after transfer
    - Timescale is ~2 weeks
  - Disk usage ~100 TB (see below)
  - o COM-20191210-PS-01/1576599977/ needed?
    - Paolo will let us know
  - What is /scratch3/projects/fornax/SCI-20180516-PS-01/1607792473?
  - From last time:
    - Probably happy (TBD soon) with UVLIN so could remove copies of visibilities before UVLIN from /idia/projects/fornax
    - Current raw data:

- 1607792473, 1611165884, 1607792473\_20210125T10\_02\_08
  - Four copies of 1607792473 (incl. two in /scratch3)
- Will let us know if raw data should be remove
- Processing / operations
  - Processing model for different filesystems (i.e. where to image vs. store vis) see figure below
    - CARACal allows read-only input from other filesystem, but not the same for intermediate products
  - Feedback / further support
    - Any further performance issues with mstransform?
  - Reservation usage ~50% (see below)
    - When next required?
      - Start of next season
    - Suspending reservations (e.g. floating reservations)
  - Observing status
    - Next season in ~3 months?
      - Yes (mid-August)
- AOB
  - Planned outage for network upgrade 8-9 June
  - Moving raw data to tape
    - Might want to go back to edge pointings of the first season as new detections pop out and continuum subtraction is refined; may possibly retain calibrated MSs for edge pointings (added at the end of season 2)
    - What long-term storage might you want on IDIA?
  - Grafana
  - New CARTA version soon!
  - Next online meeting
    - 2 months (provisionally)
      - ~mid July

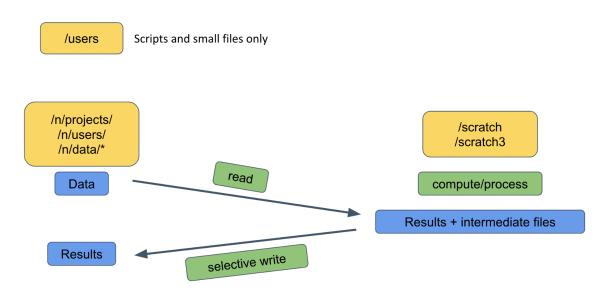
## Disk Usage (TiB as of 17 May)

Total		102.43
/scratch3/projects/fornax		84.69
/idia/projects/fornax		9.56
/idia/raw/incoming_sarao/SCI-20180516-PS-01	6.37	
/idia/raw/incoming sarao/COM-20191210-PS-01	1.81	

## Reservation Usage (from 28 April)

	Cluster	Name		Start		End	TRES	Time
Allocated	Idle	TotalTime		Node	s TRES co	unt	Elapsed	Used
0 ilifu-	slurm2021	lsp-fornax	2021-04-28	18:00:00	2021-05-07	09:19:54	1105-18:2	27:12
850615 7	41692 8-1	5:19:54 cor	mpute-[003,	018-0201	128	1.592307	7e+06 0.53	34203

1 ilifu-slurm2021 lsp-fornax 2021-05-07 09:19:54 2021-05-12 12:33:56 657-05:56:16 429191 517245 5-03:14:02 compute-[003,018-020] 128 9.464363e+05 0.453481 Total usage: 0.5



\*/n/data generally read-only