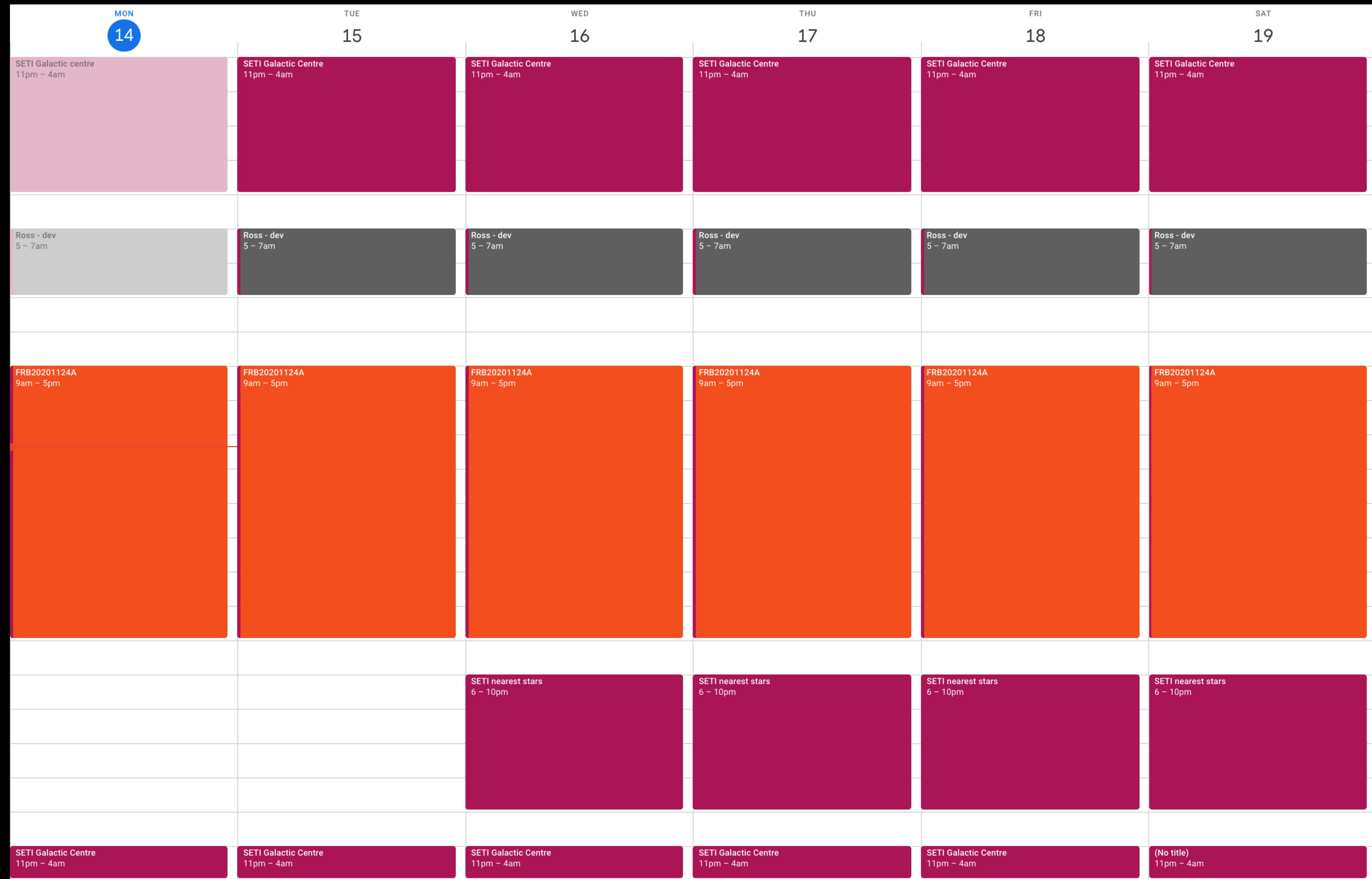
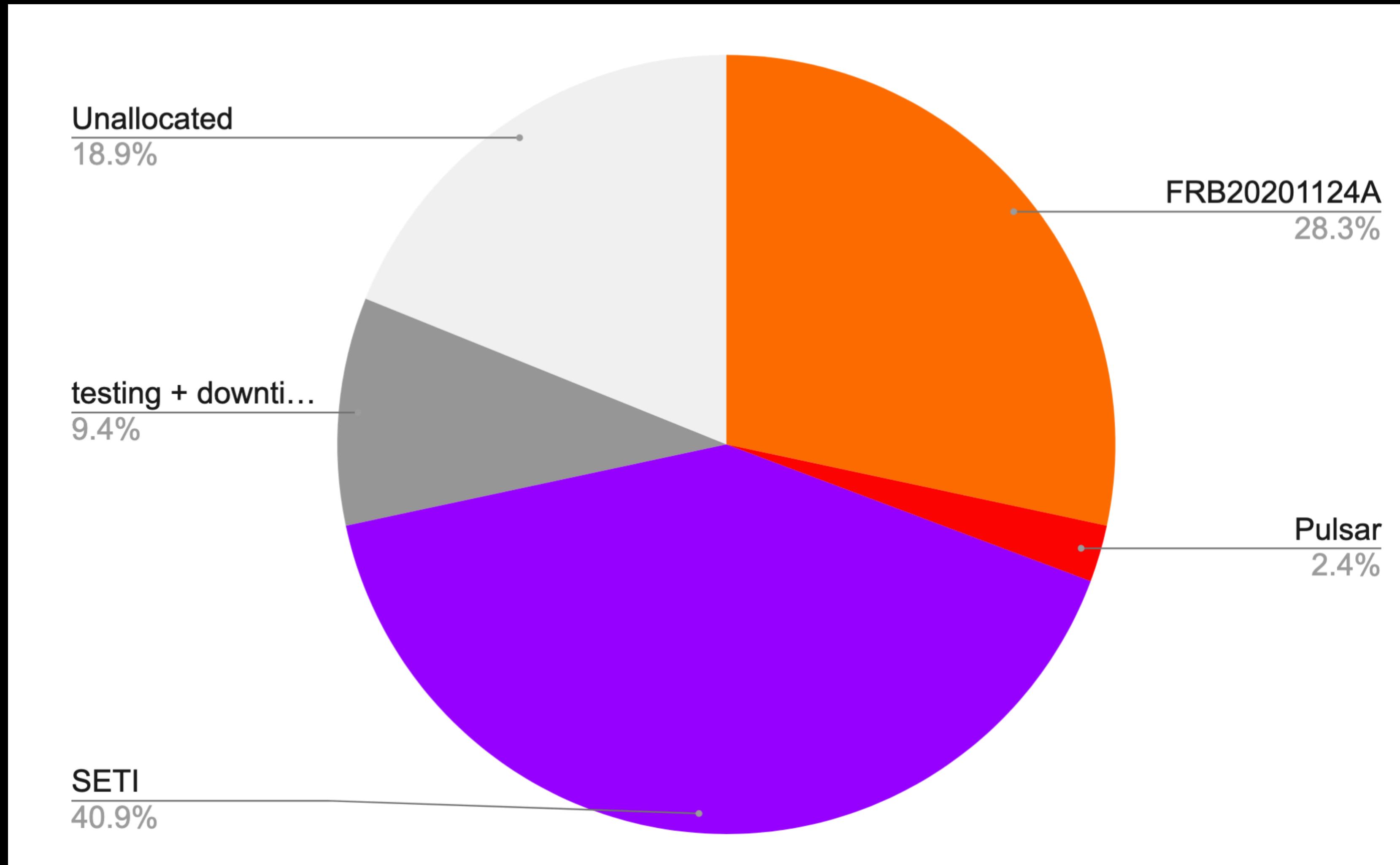


Science operation update

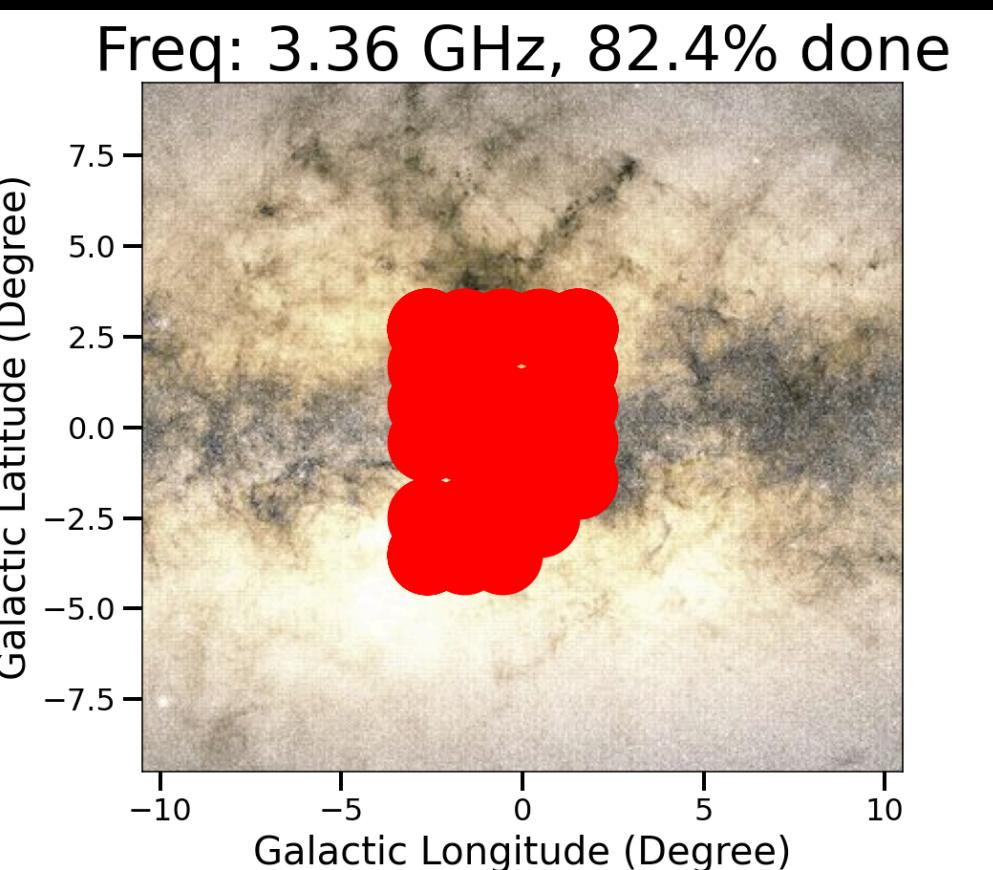
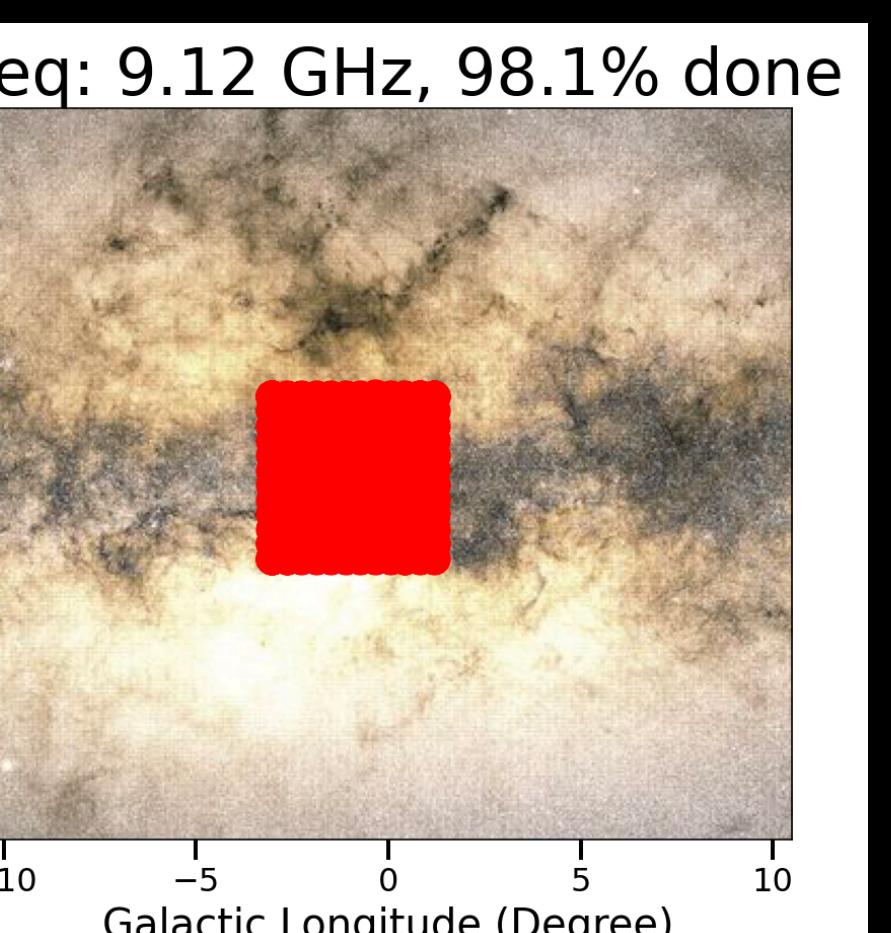
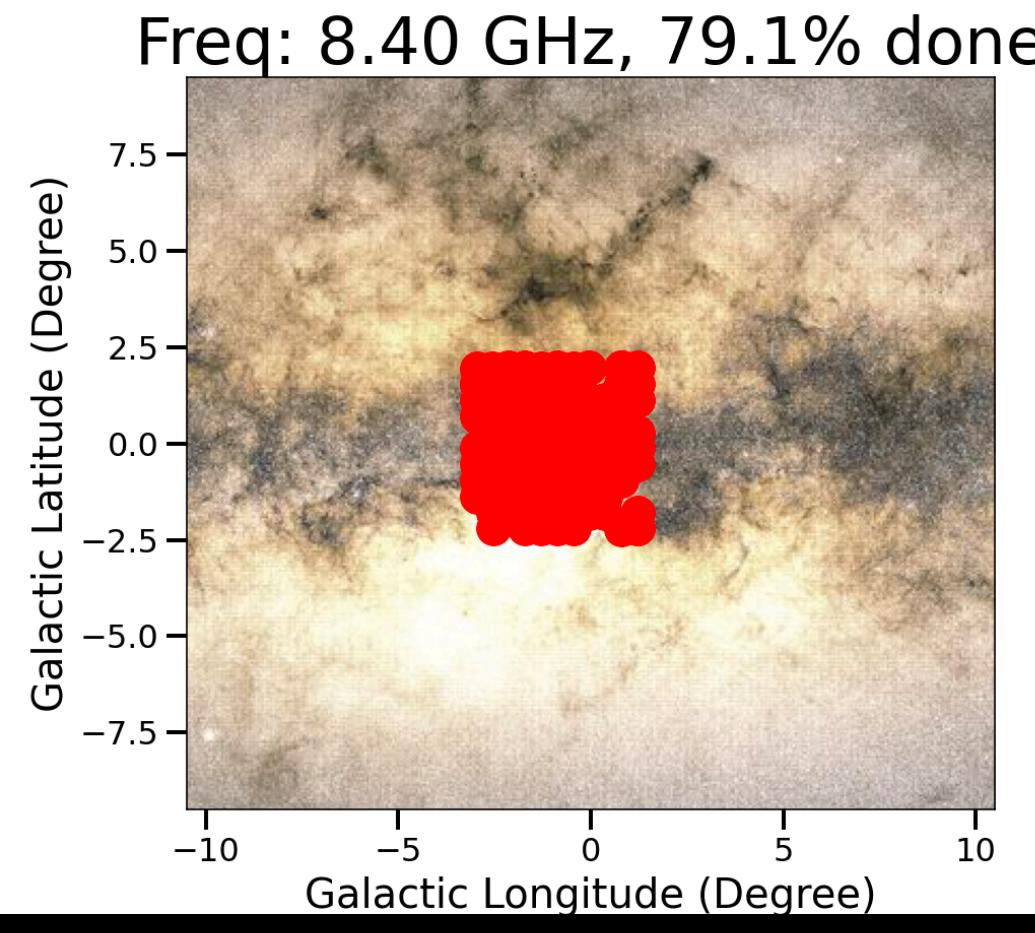
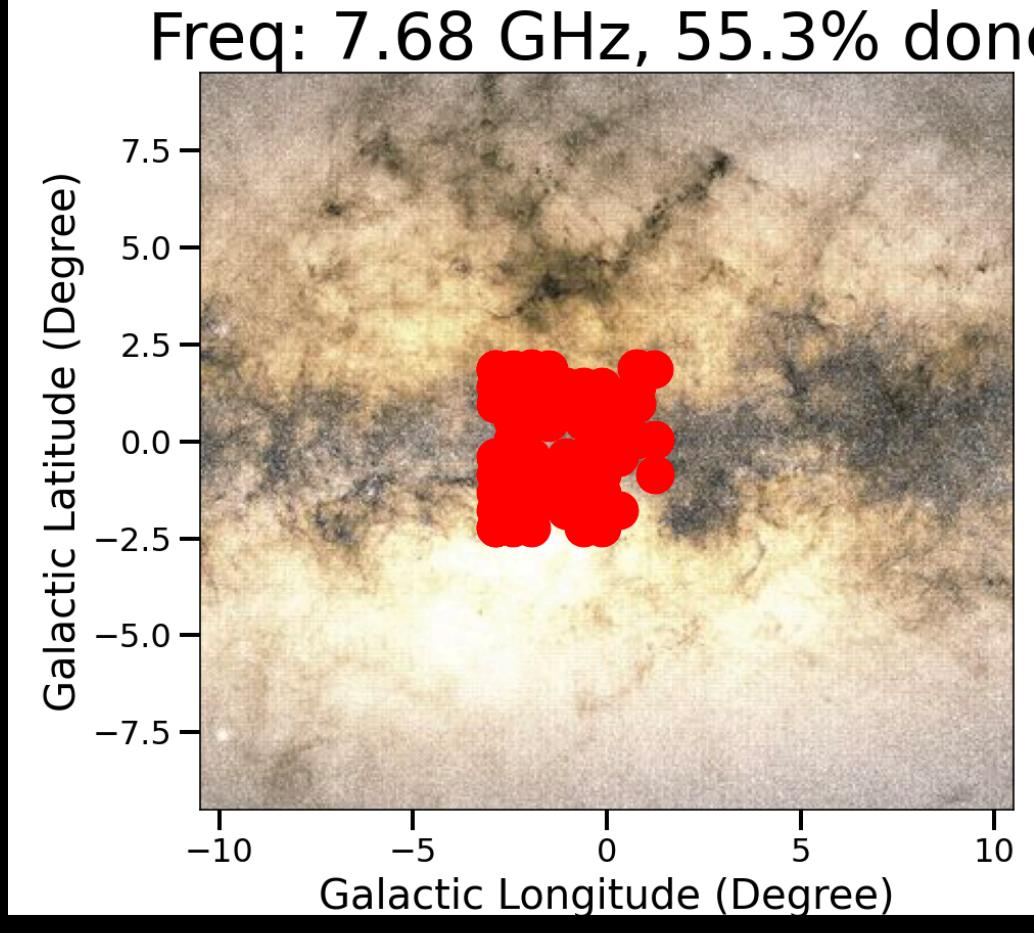
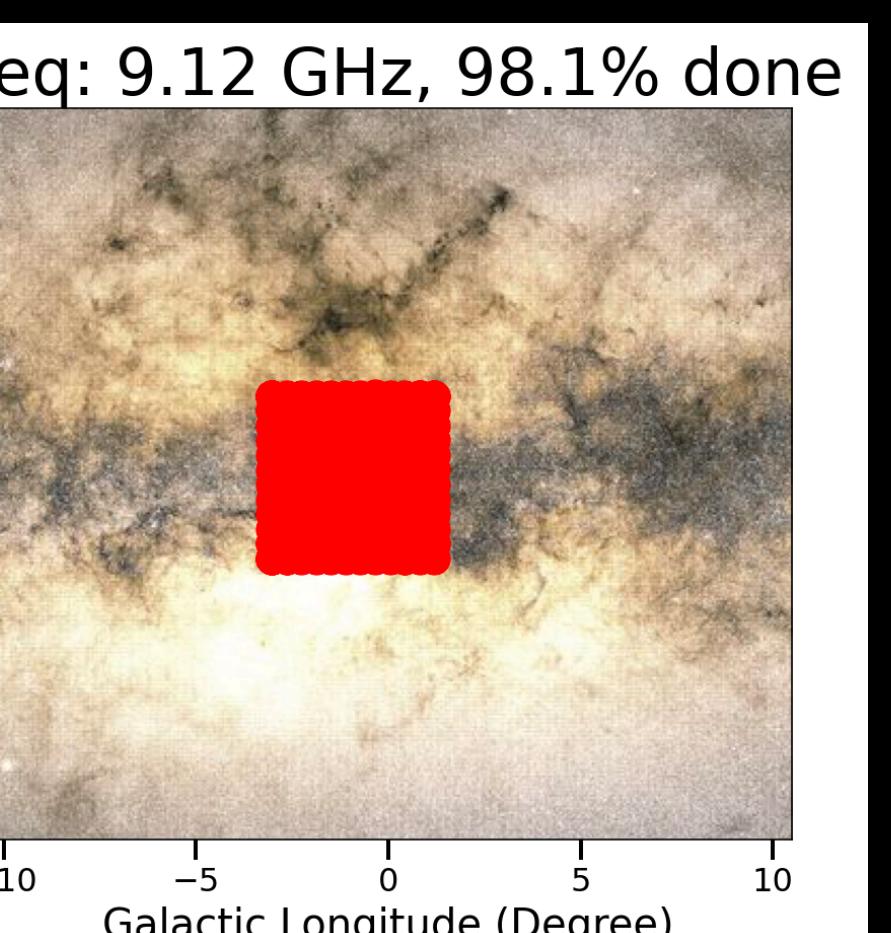
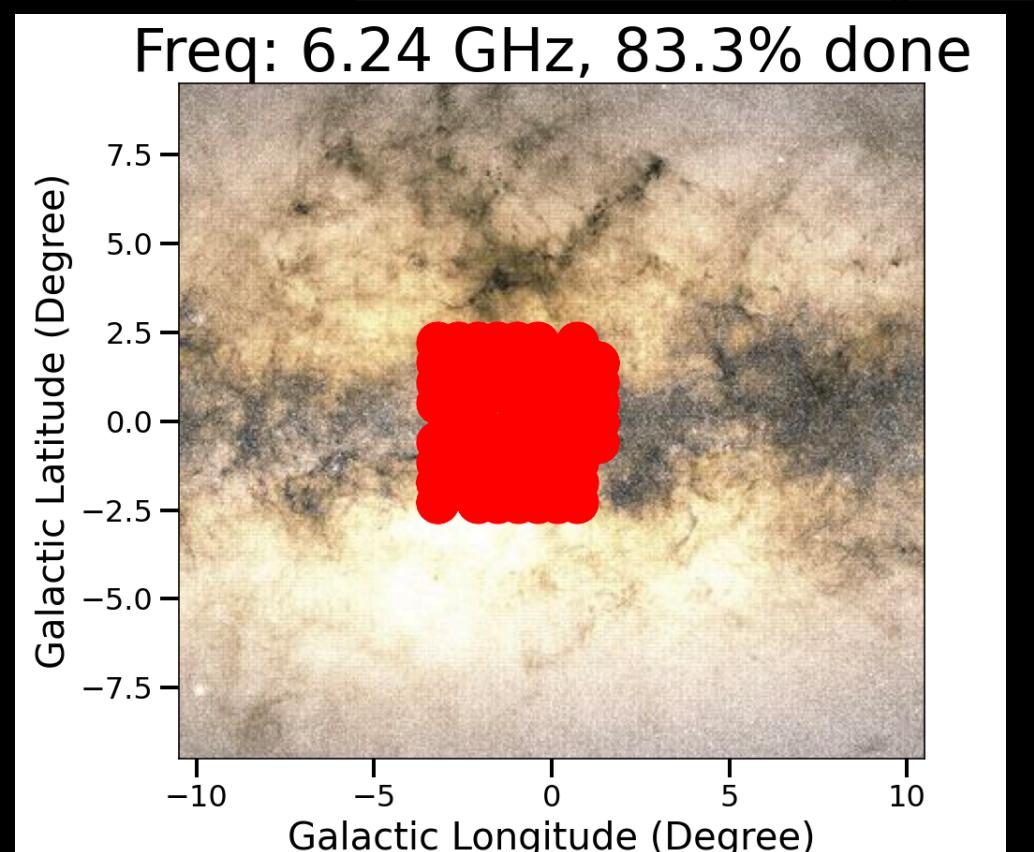
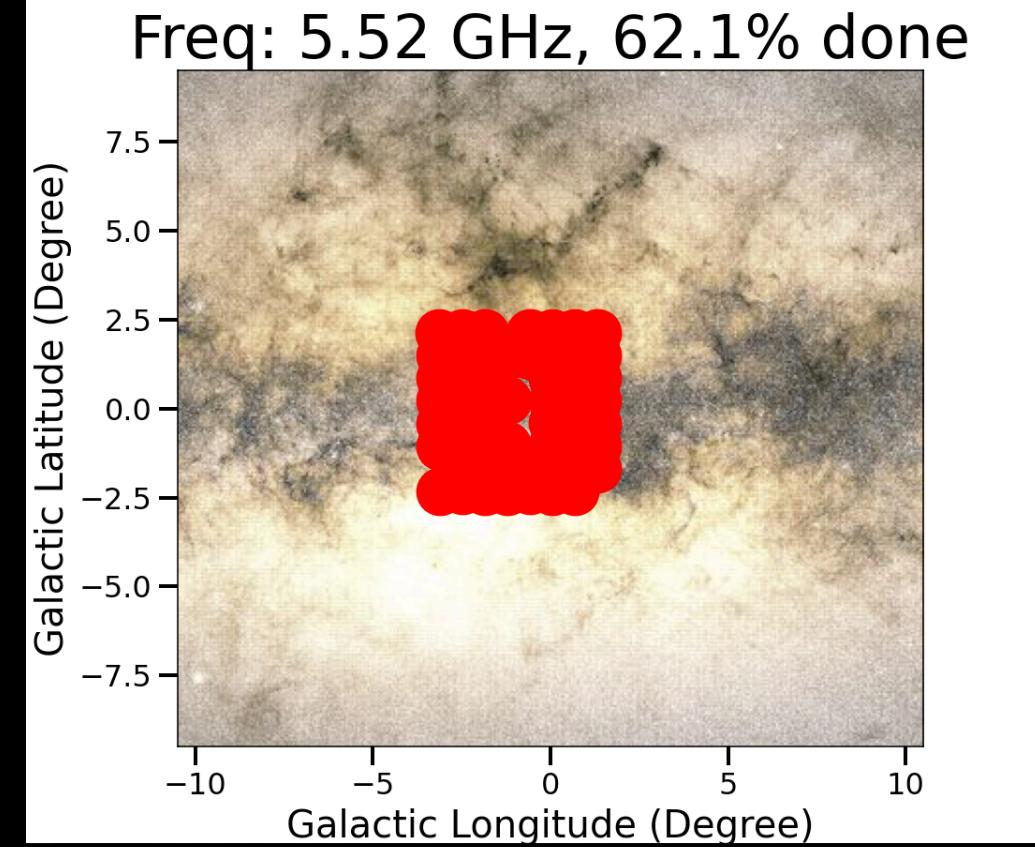
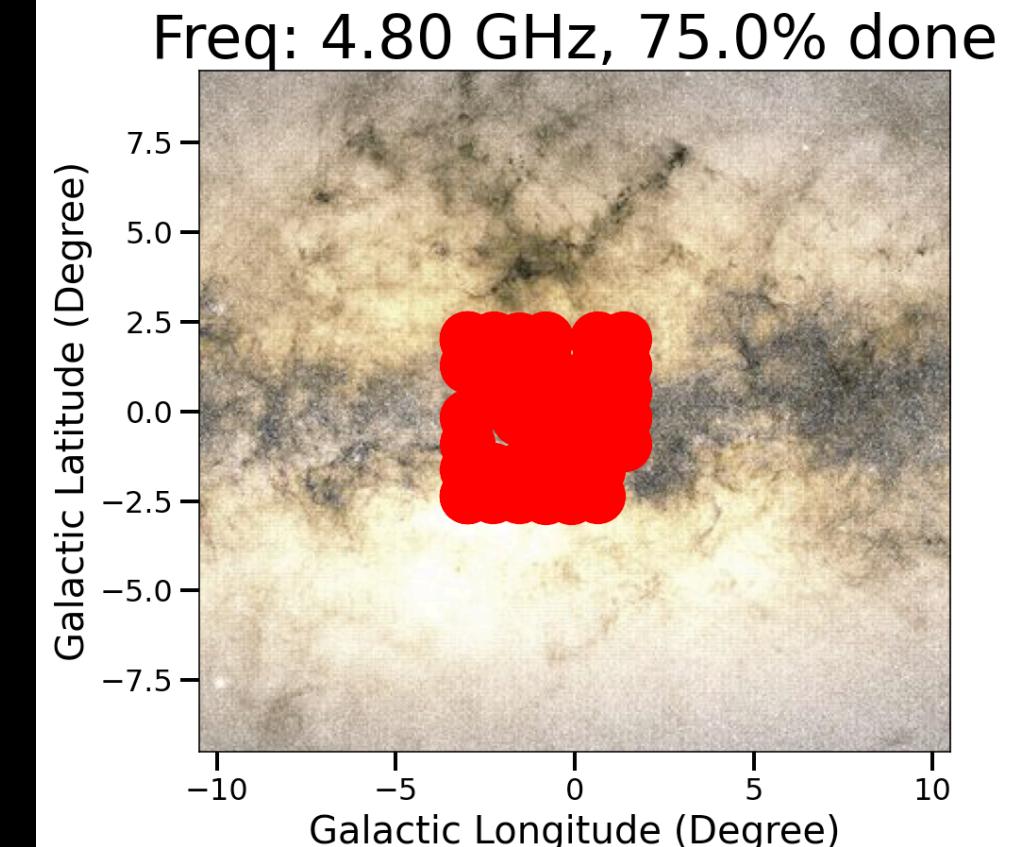
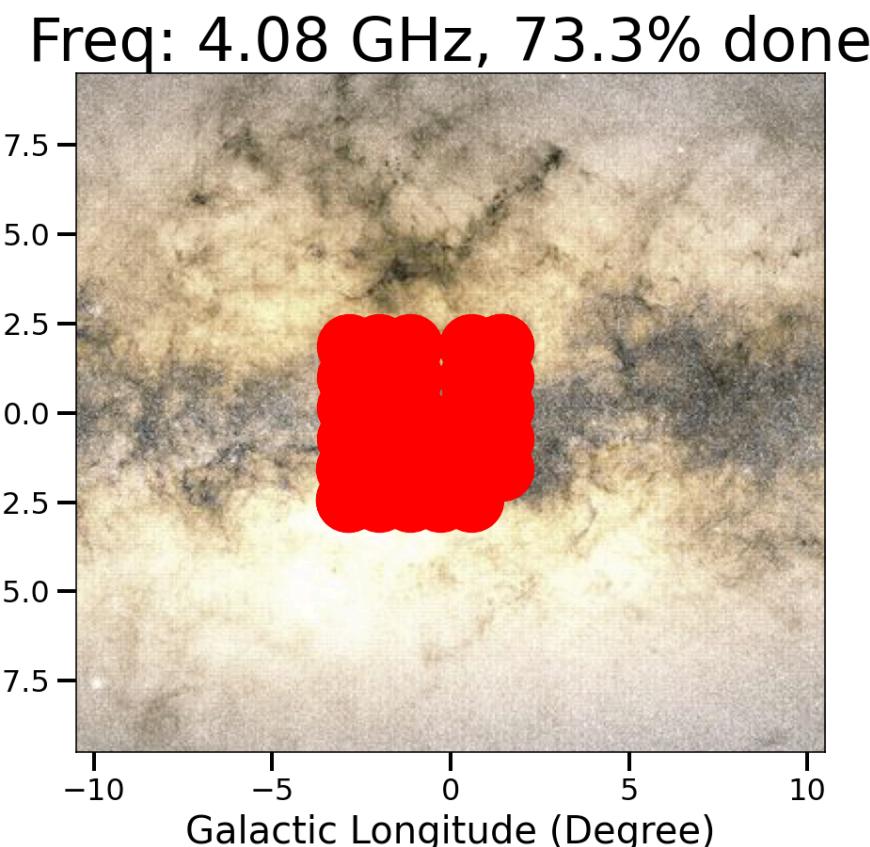


Science operation update



Galactic plane survey update

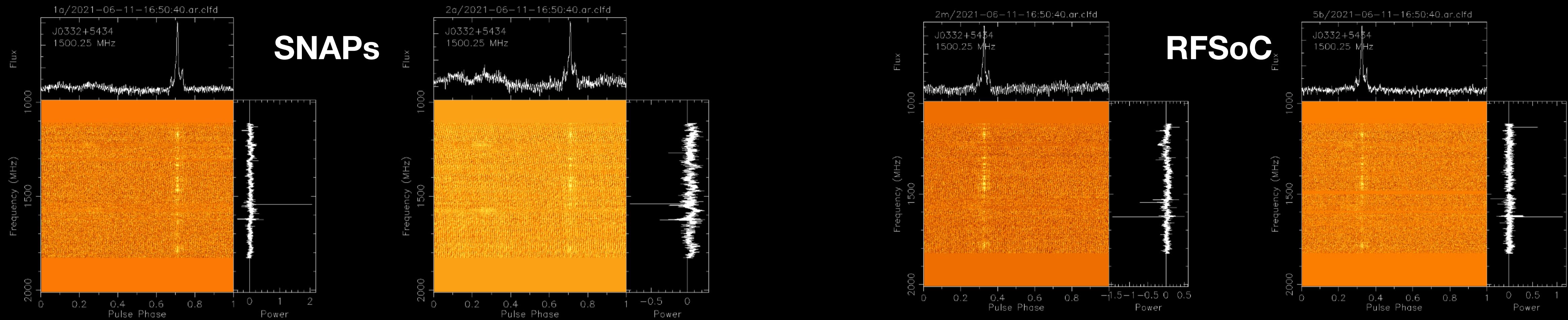
78% completed



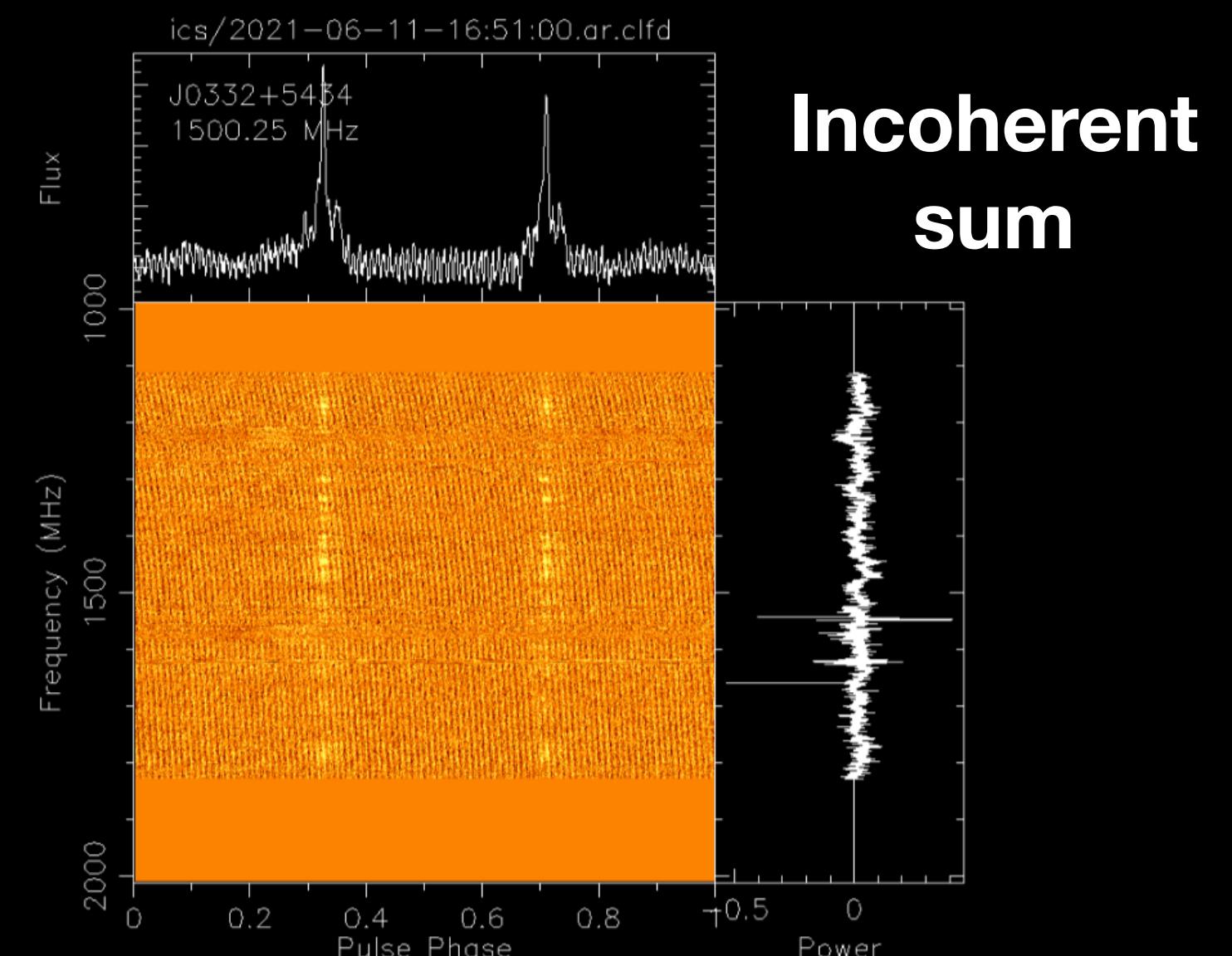
Updates on RFSoC / Attemplifier interface

- “Spectrometer” (total power) mode compiled for 4x2 inputs + UDP streaming mode
- Packets are flowing through network.
- Tweaks to firmware are needed to:
 - Make sure UPD destination port is configurable for every output pair
 - Interface to control RFSoC boards as similar to SNAPS as possible
- Current backend receiver codes ingest data
- Connect new antennas to board
- attemplifiers <-> rfsoc <-> recorders mapping established.
 - + get-ing and set-ing attenuation values (ssh-based, not REST-API)
- IF-balancing logic to deal with RFSoC + SNAP boards at the same time (testing changes to configuration files, + python modules, etc...)
- What's still needed:
 - Tests listed in Jack's document underway:
Input panel <-> ADC <-> pipeline number mapping
+ cross-talk measurement possibly by Monday
 - Collect data with backend:
 - perform on/off measurement
 - perform pulsar observation

First sky observation with RFSoC:



- First simultaneous SNAP + RFSoC observation.
- Investigating sync-ing issue across boards



Updates on RFSoC

- Current setup:
 - 2 RFSoC boards ready for antennas
 - 1 RFSoC board for testing
- Test configuration:
 - signal generator input to 1 channel,
 - terminate rest

