

LC0_003: status update

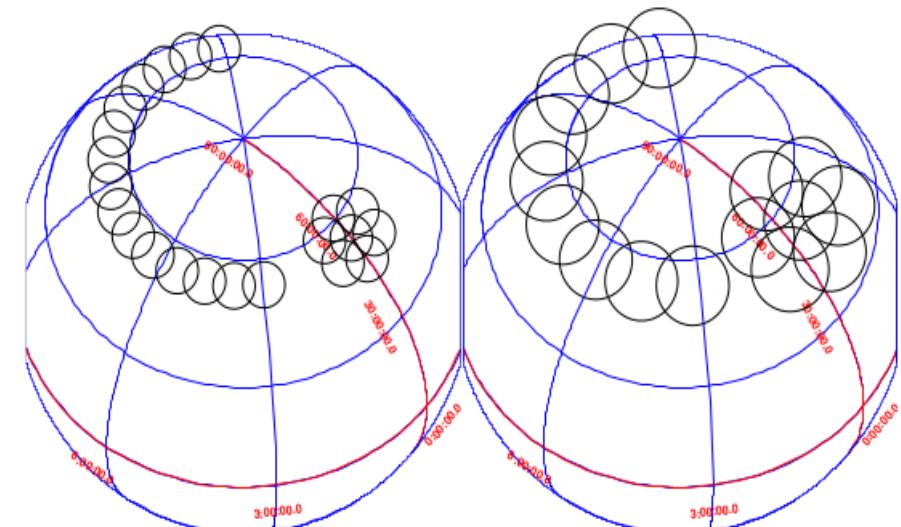
Jess Broderick (on behalf of the LOFAR TKP)

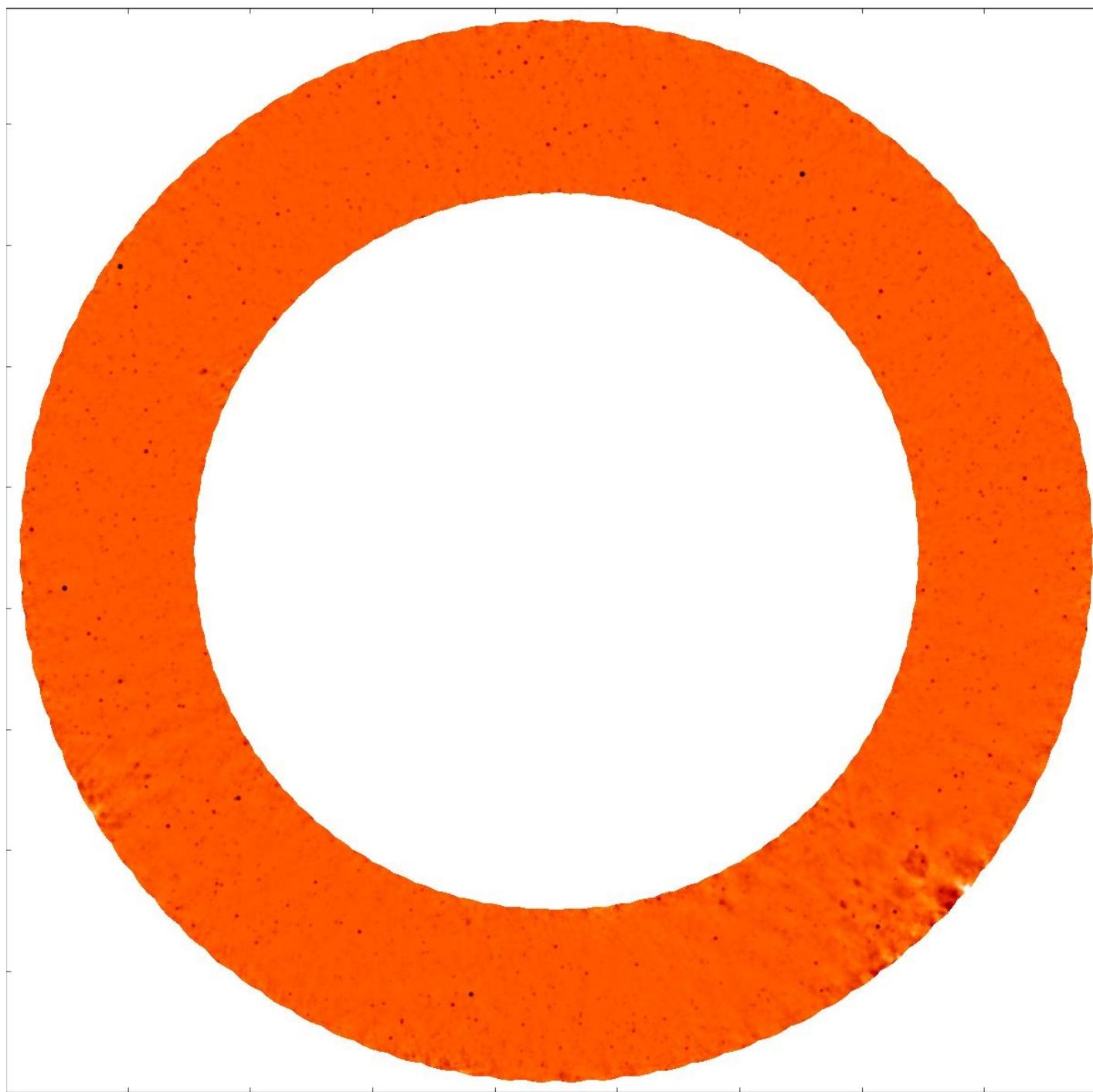
1. Zenith strip monitoring

- * 144 hours; 6 x 24 hr scans (4 in the HBA, 2 in the LBA), one per month.
- * $> 1500 \text{ deg}^2$ sky coverage (up to $\sim 5000 \text{ deg}^2$ in LBA).
- * Pre-processed data calibrated and imaged at U. Southampton and U. Amsterdam. Images run through the transients detection pipeline (TraP).
- * **3 HBA runs so far** (Feb. 10, Mar. 10, Mar. 24), plus two earlier test runs. Preliminary analysis of Feb. 10 and Mar. 10 runs completed.

2. PanSTARRS / PTF

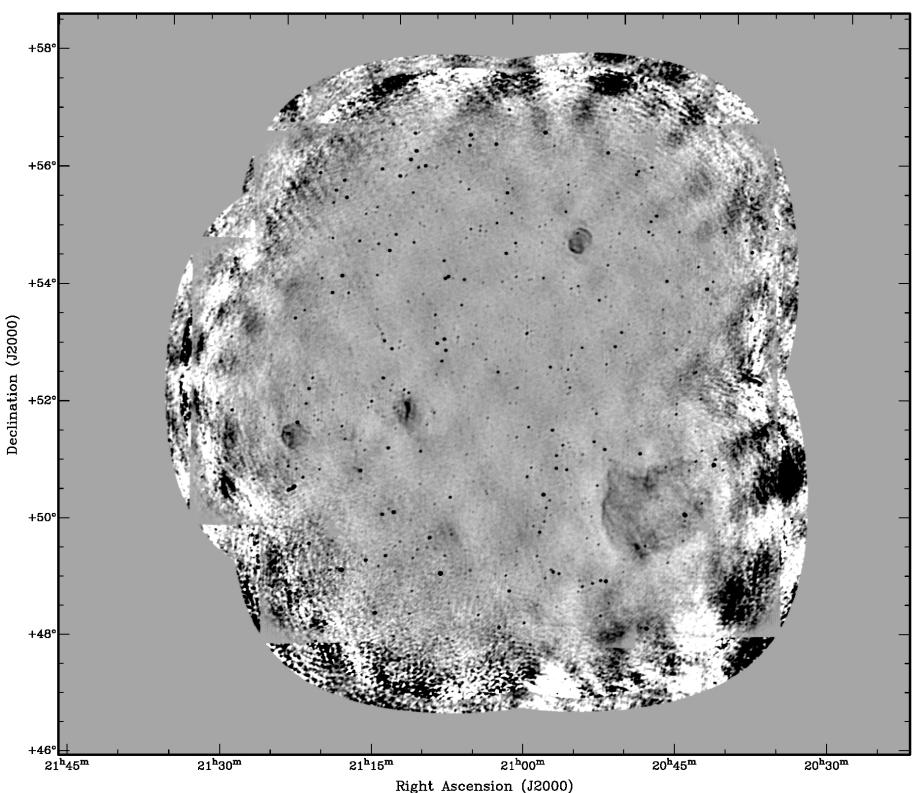
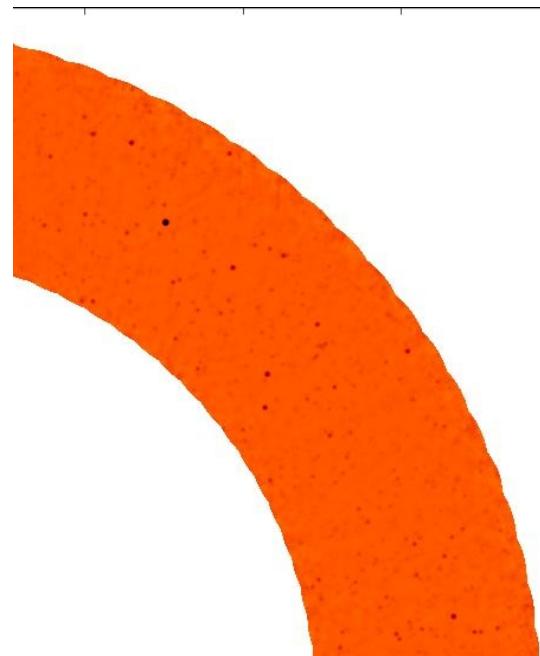
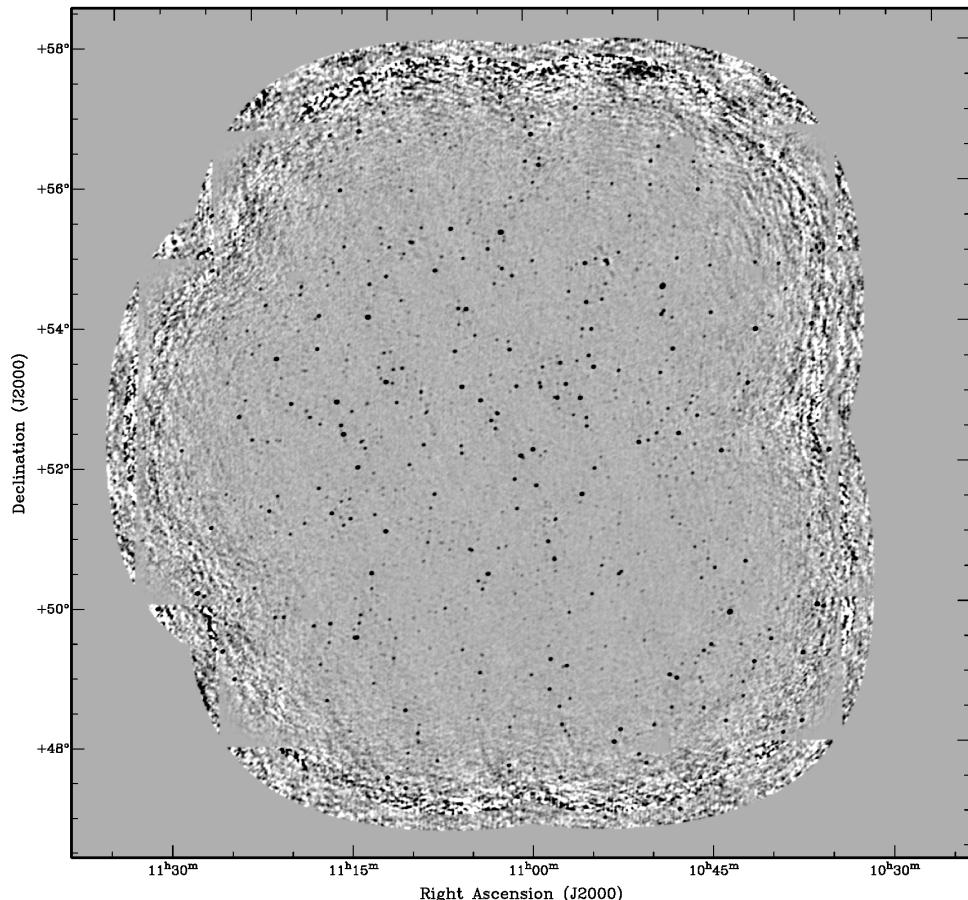
- * Contemporaneous observations of medium-deep fields every other week; 2 hr observations, 52 hours total.
- * **4 HBA runs so far** (0842+4419 + 1047+5805; Mar. 2, 16 and 30 + Apr. 13).



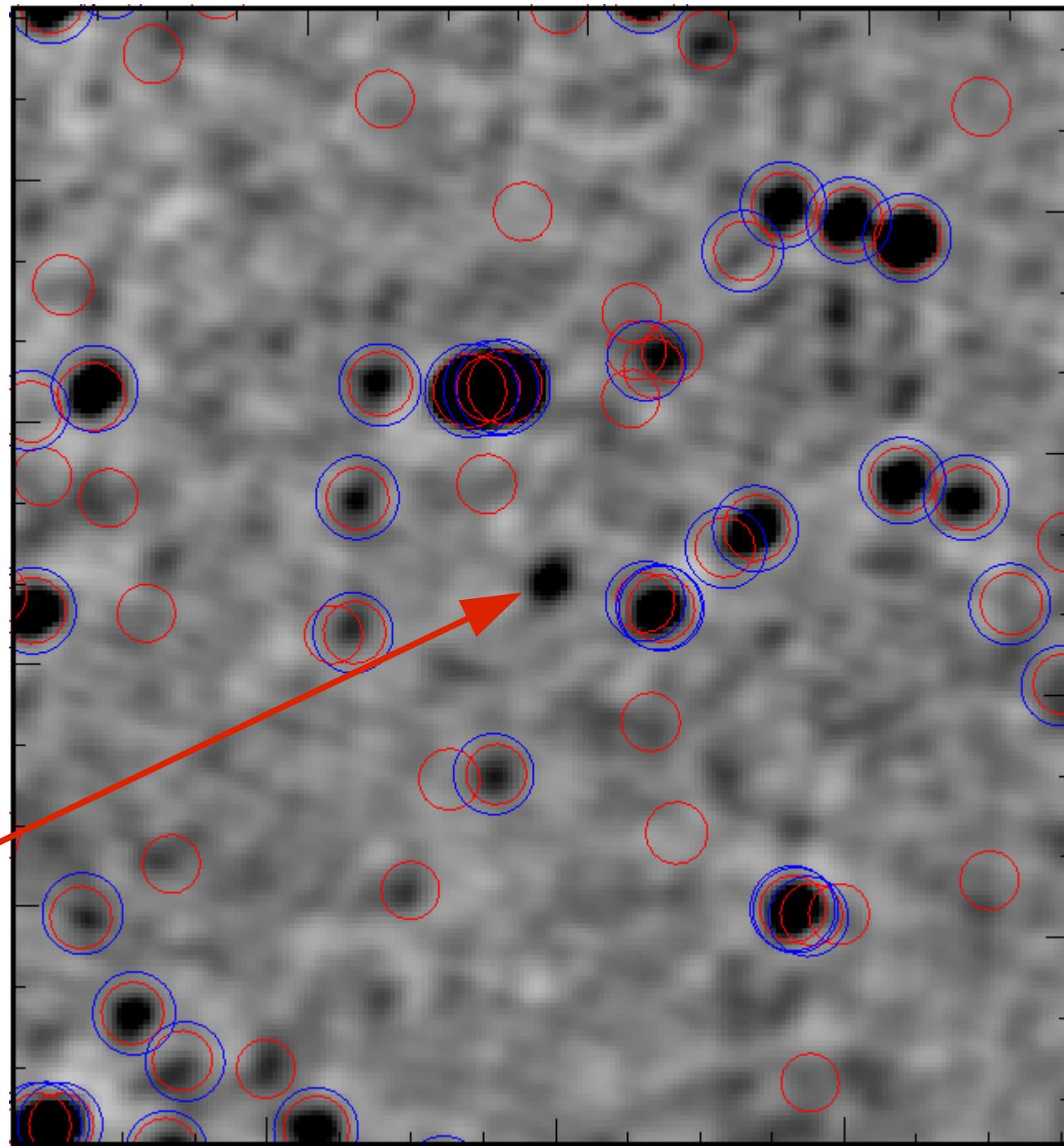


Feb. 10
data

* Lowest rms ~12 mJy/beam; up to factor of a few worse near Galactic Plane



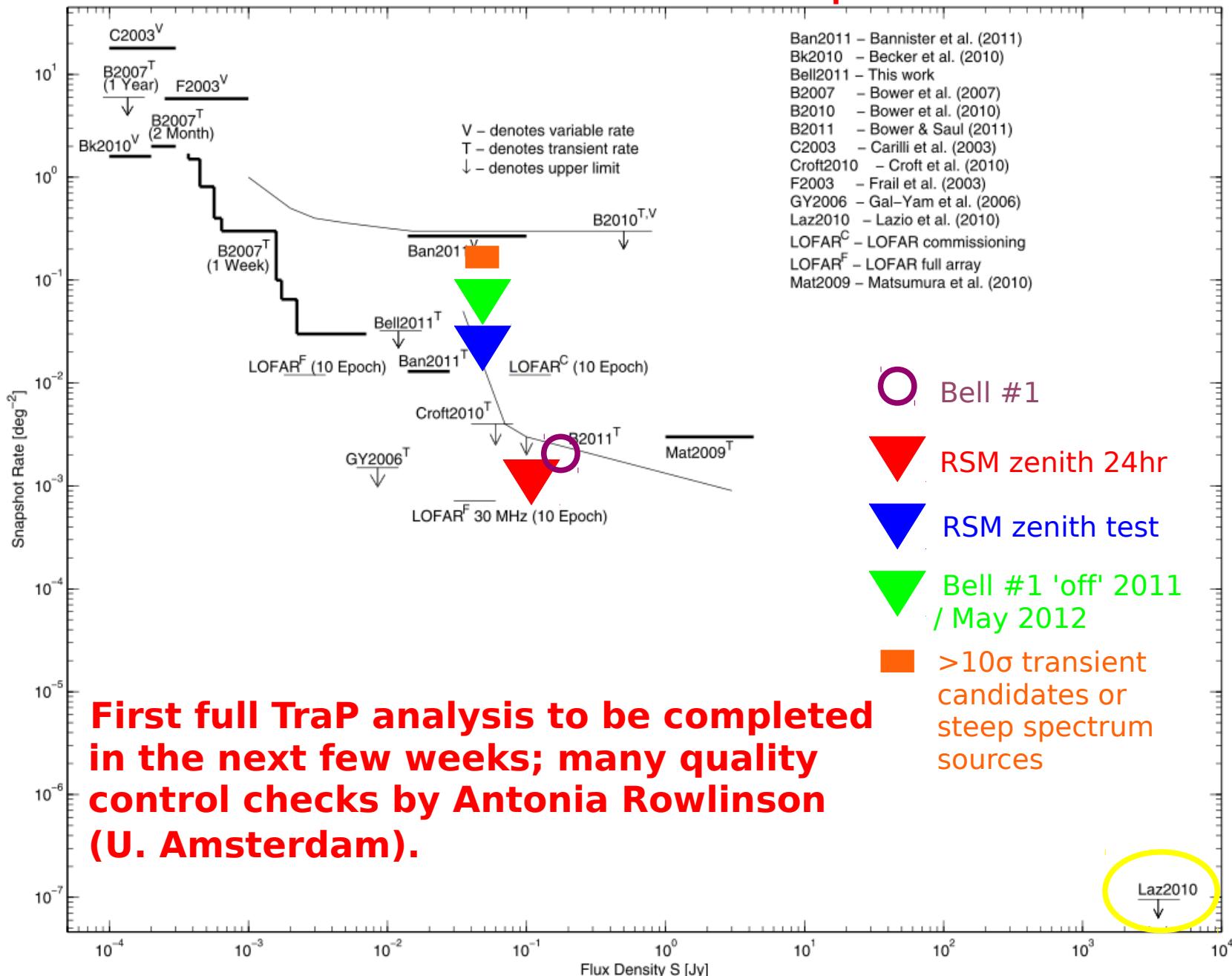
* Lowest rms ~12 mJy/beam; up to fact



* Transient or ultra-steep spectrum source? ($\alpha < -1.6$)

Log N - Log S

Adapted from Bell et al. 2011



Leftover sub-bands; extra targets

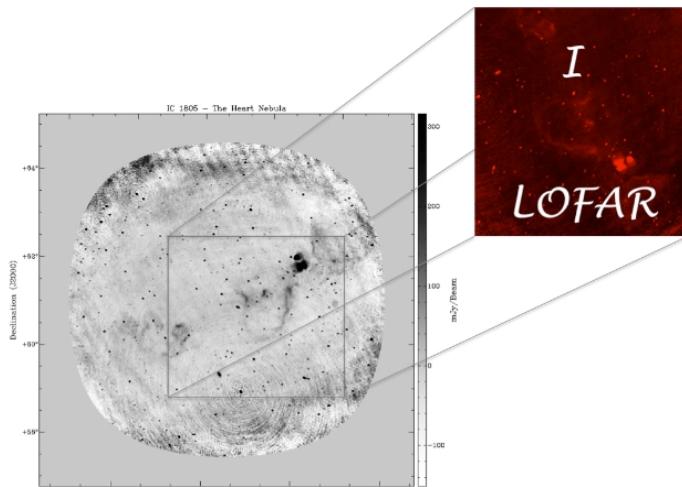


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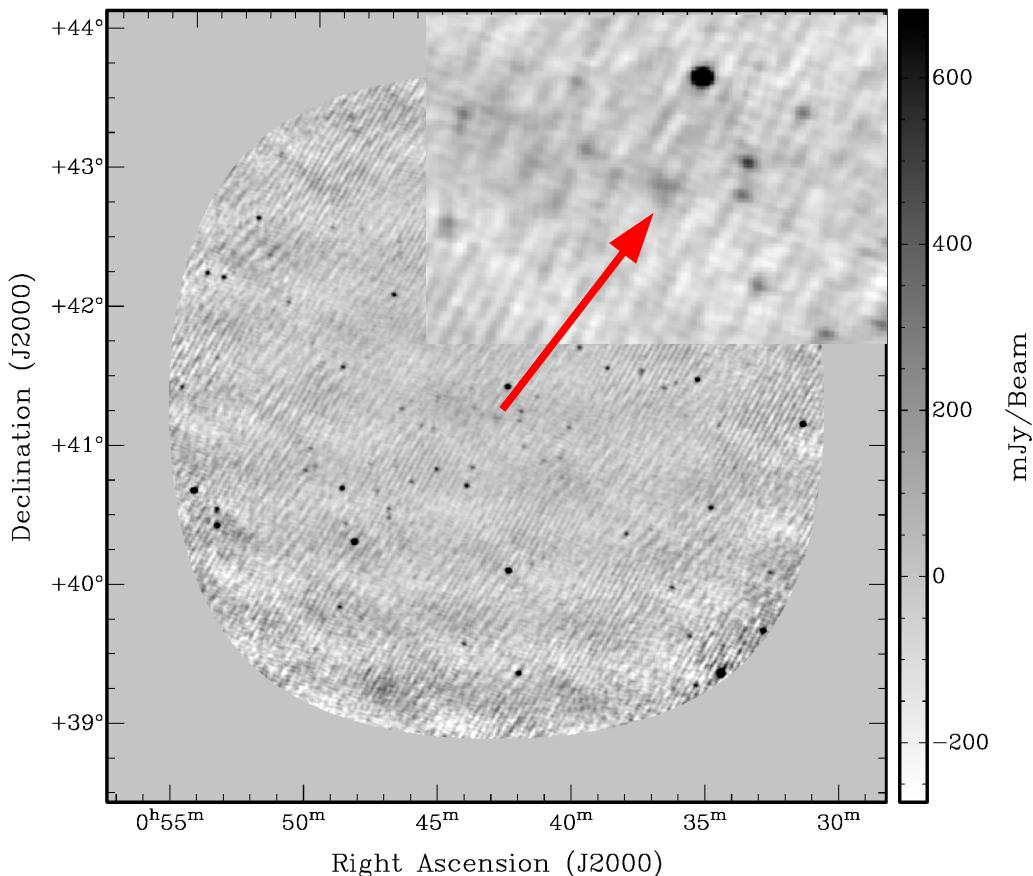


The Heart Nebula

Submitter: Adam Stewart

Stewart

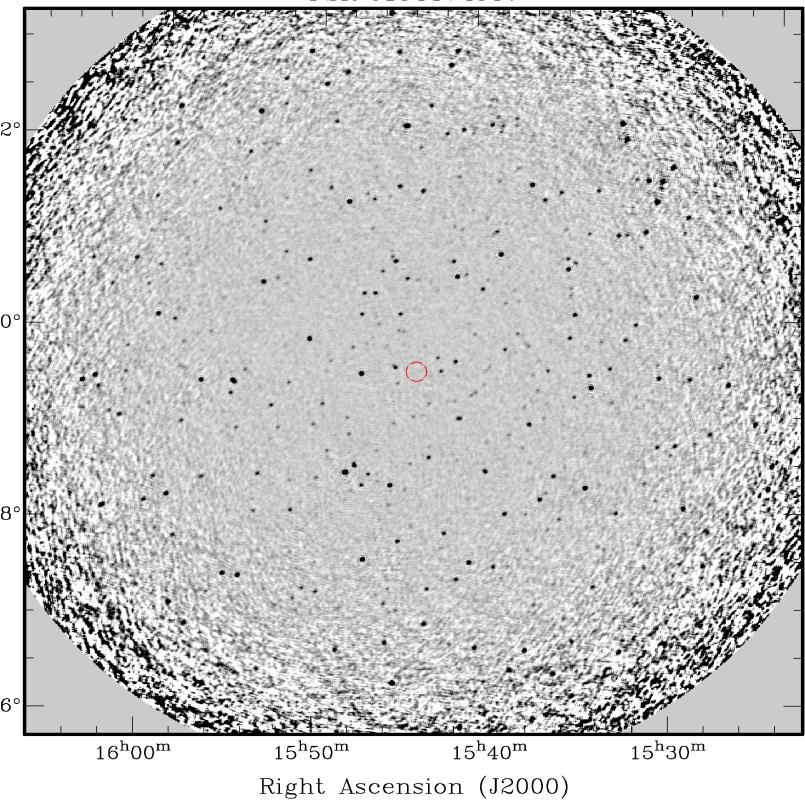
* **LSI +61 303;**
not detected in 4h test run
($5\sigma \sim 50$ mJy)



Pietka, Glennie

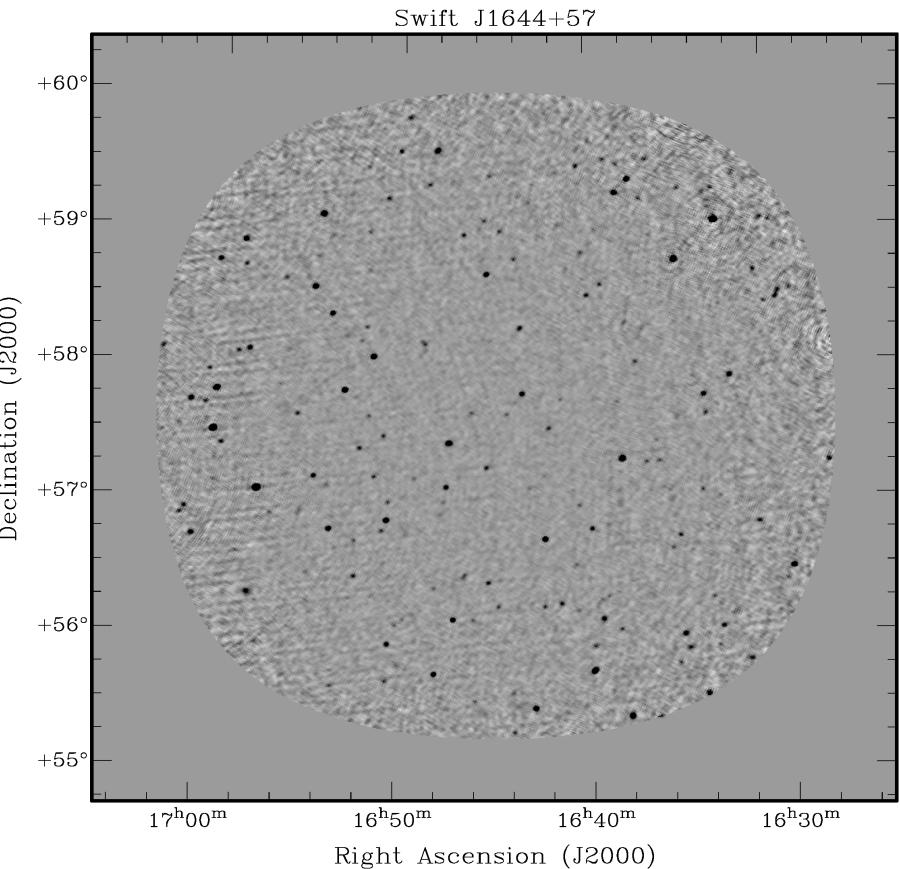
* **M31**
* **Feb. 10 run**
* **6 snapshots; 66 min**
* **baselines < 6 km**
* **rms ~ 40 mJy/beam**
* **peak ~250 mJy/beam**

Declination (J2000)



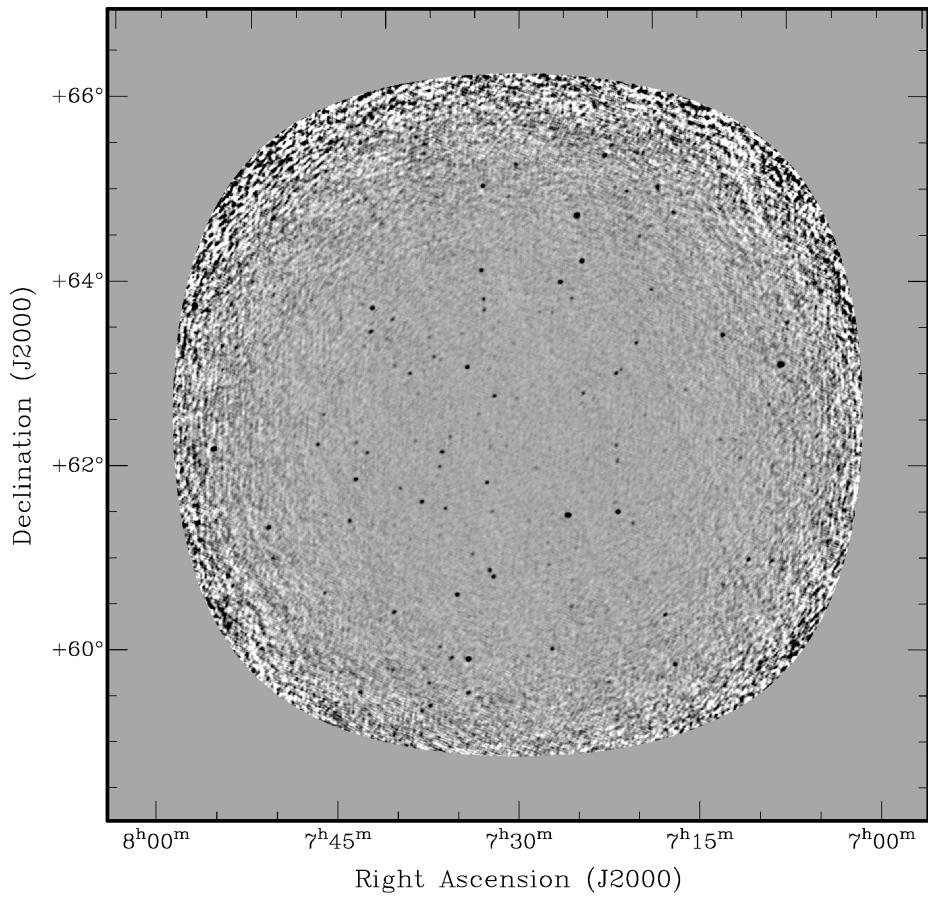
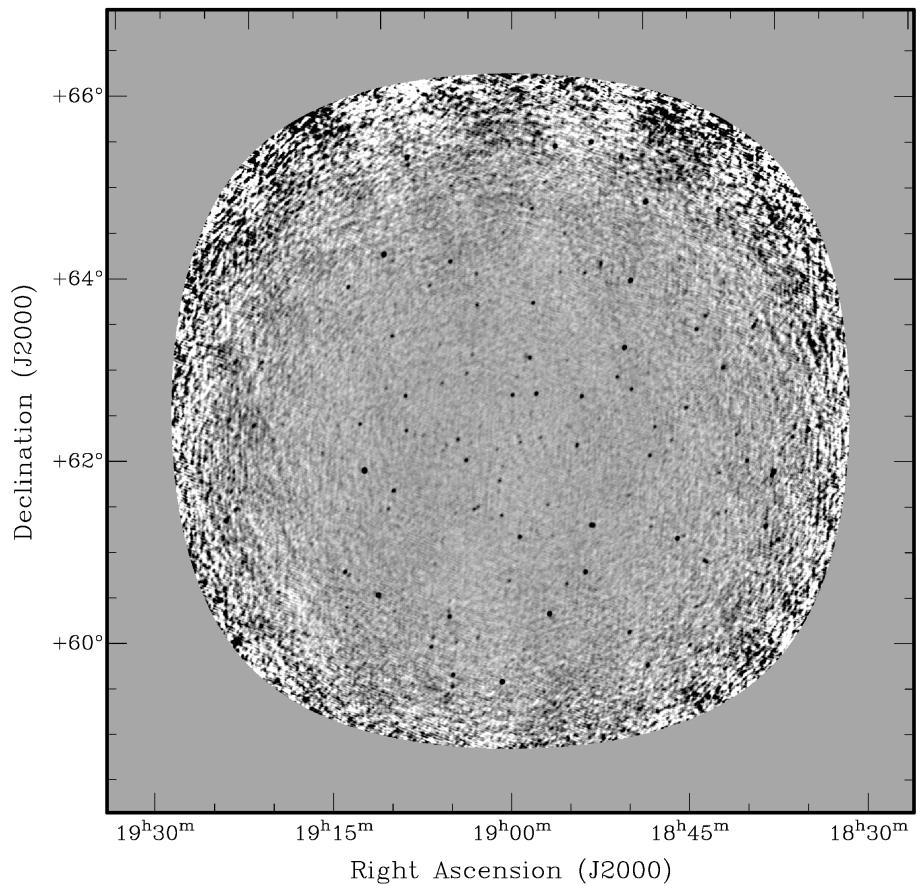
Hassall, Stewart

- * **PSR J1544+4937**
- * **Feb. 10 run**
- * **8 snapshots; 88 min**
- * **baselines < 12 km**
- * **rms ~ 13 mJy/beam**
- * **no detection**



Broderick, Stewart

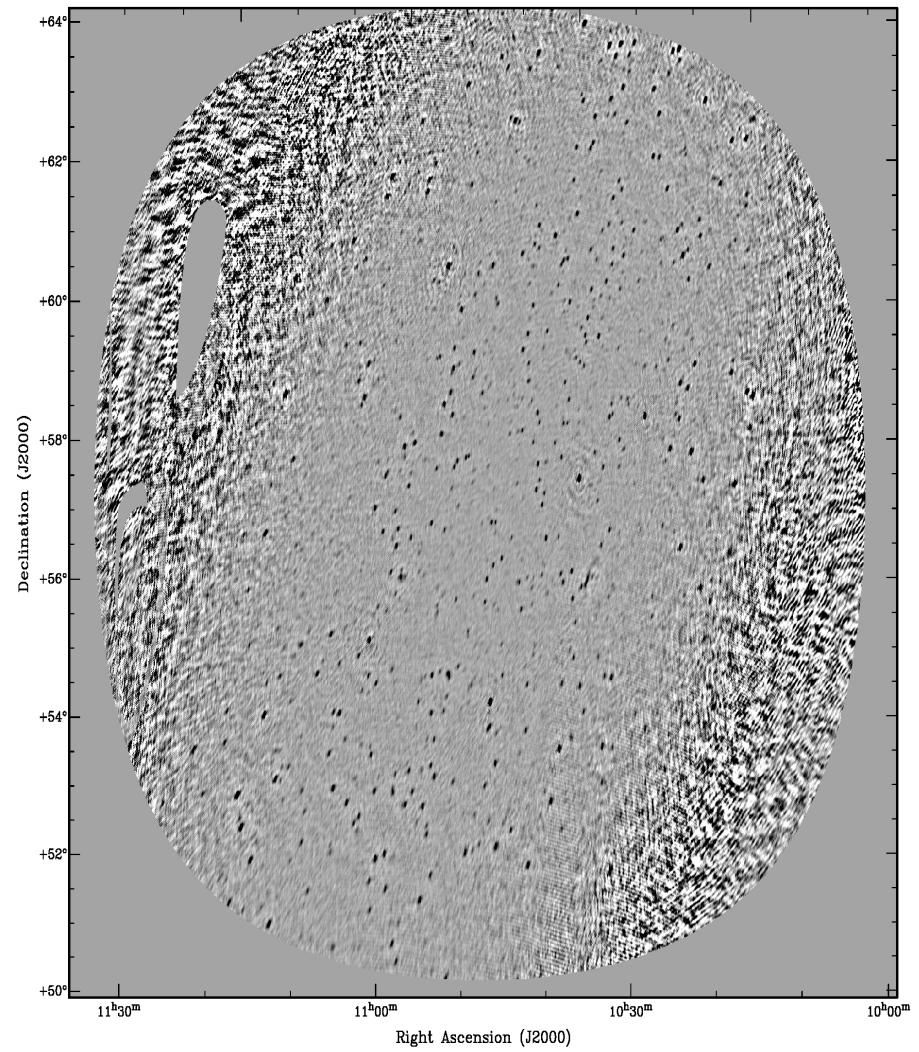
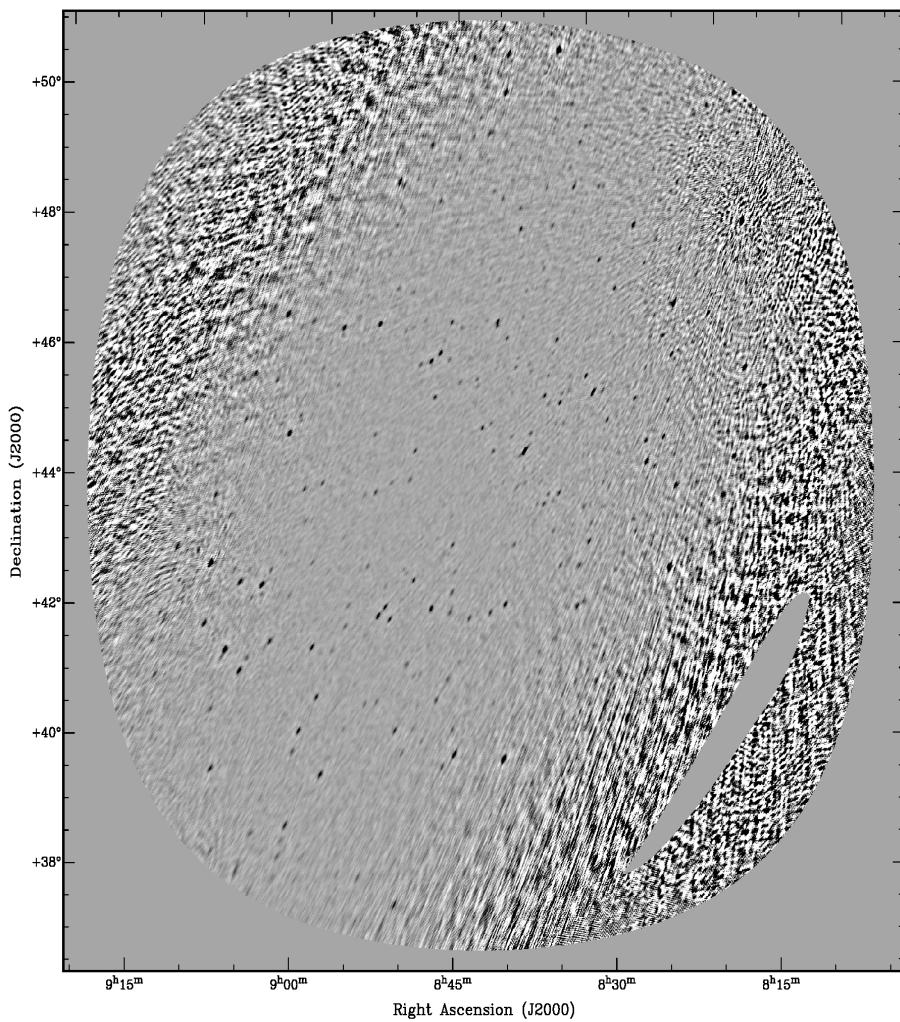
- * **Swift J1644+57**
- * **Feb. 10 + Mar. 10 runs**
- * **12 snapshots; 132 min**
- * **baselines < 10 km**
- * **rms ~ 8 mJy/beam**
- * **no detection**



Stewart, Broderick

- * Two 'northern' fields
- * Feb. 10 run
- * 2 snapshots; 22 min
- * baselines < 6 km
- * rms ~ 30 mJy/beam

PanSTARRS data



* **J0842+4419, J1047+5805**

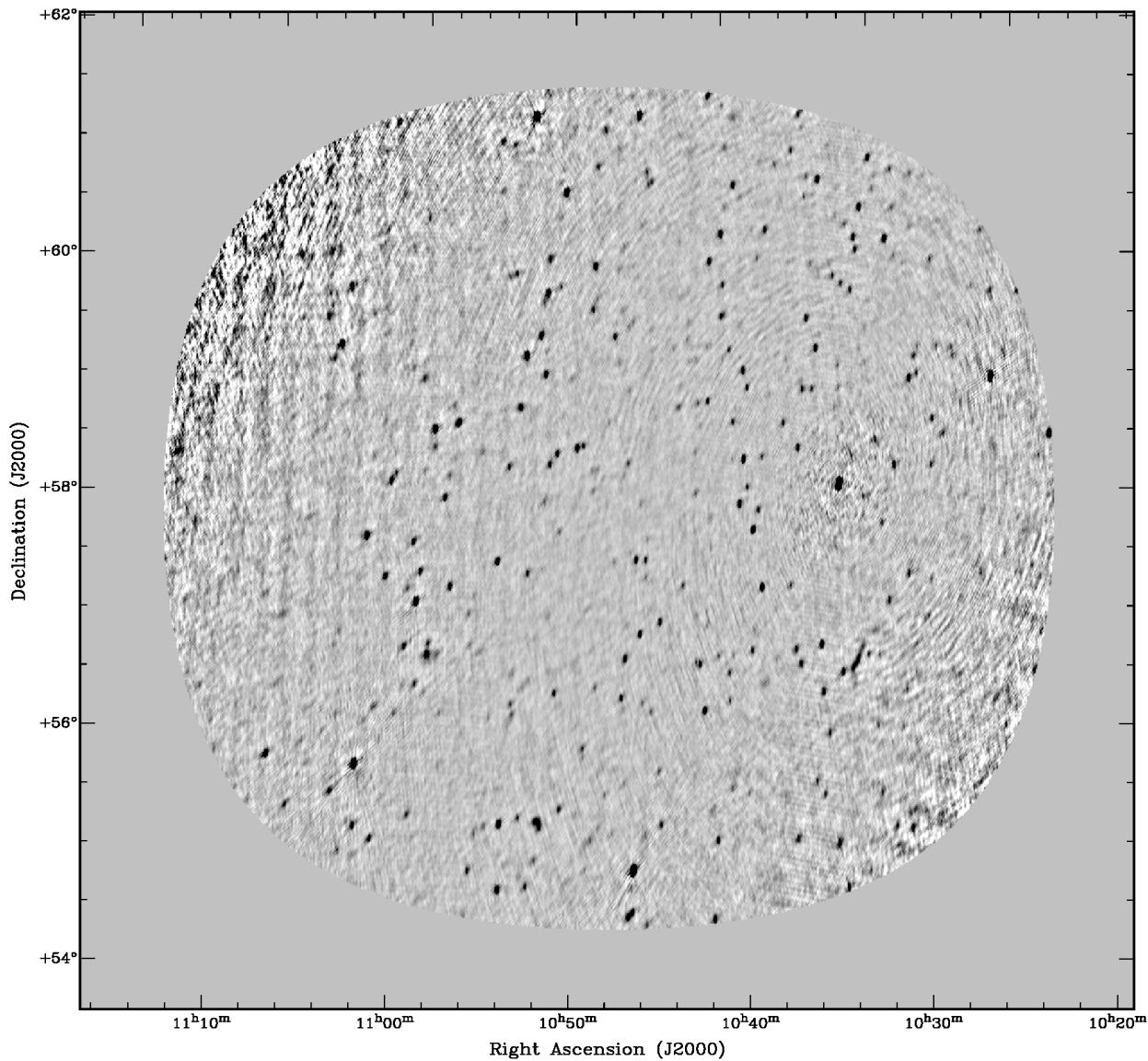
* Mar. 2 run

* baselines < 6 km, 40/120 sub-bands

* rms ~ 22, 14 mJy/beam

* no transients (yet)

Broderick, Stewart, Carbone, van der Horst



* **J1047+5805**
* Mar. 2 run
* baselines < 6 km, 100/120 sub-bands
* rms ~11 mJy/beam

Broderick, Stewart, Carbone, van der Horst