

MSSS Update

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(on behalf of the MSSS Team)
LSM, 3 October 2012



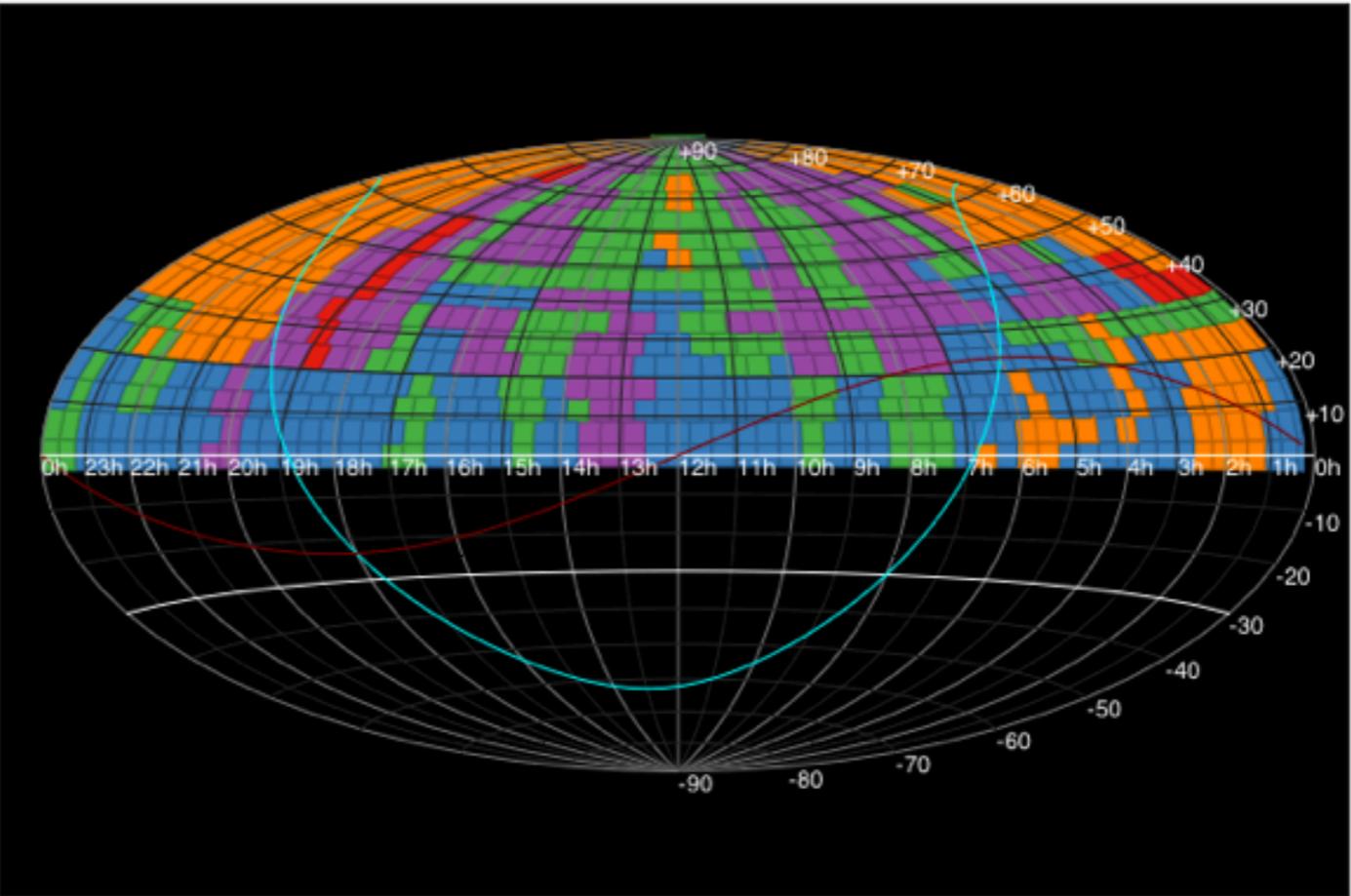
LOFAR Observation Database

MSSS LBA

Multifrequency Snapshot Sky Survey: Low Band

# Targets	661
# Calibrators	8
Start Date	4 Nov. 2011
Stop Date	16 April 2012
Completed Fields	308 (46.6%)

[Show me the data »](#)



Hammer Projection

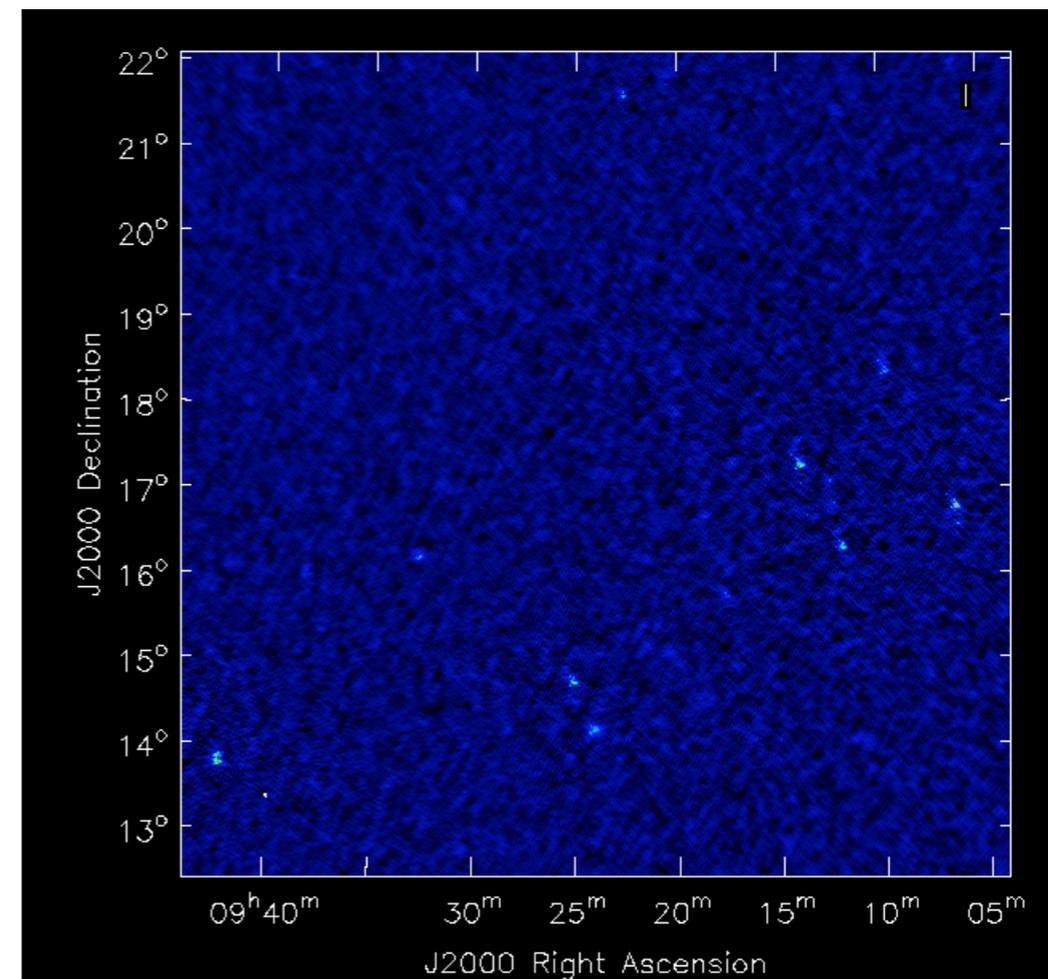
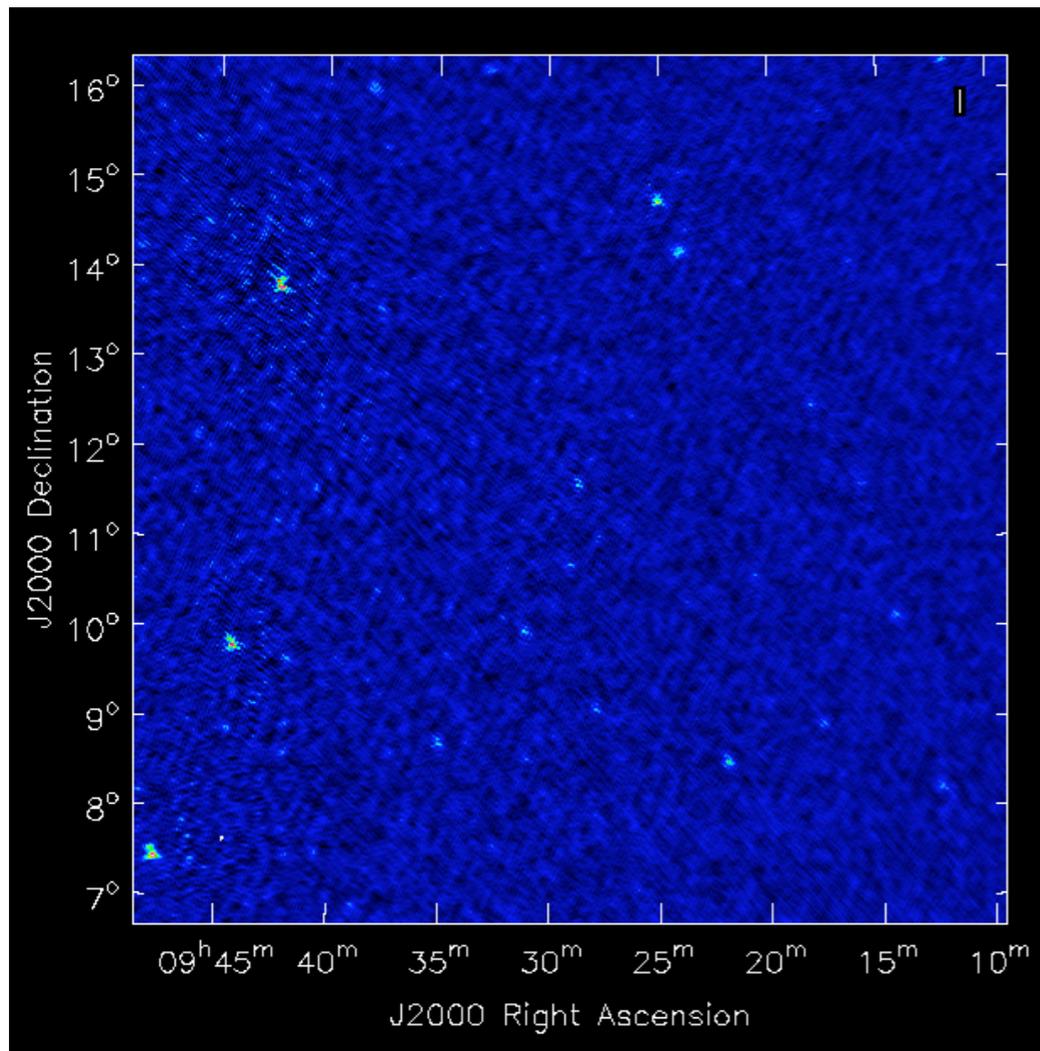
Map based on code from [this project](#).

- Data available on CEP
- Data archived
- Partial data available
- Data missing
- Not yet observed

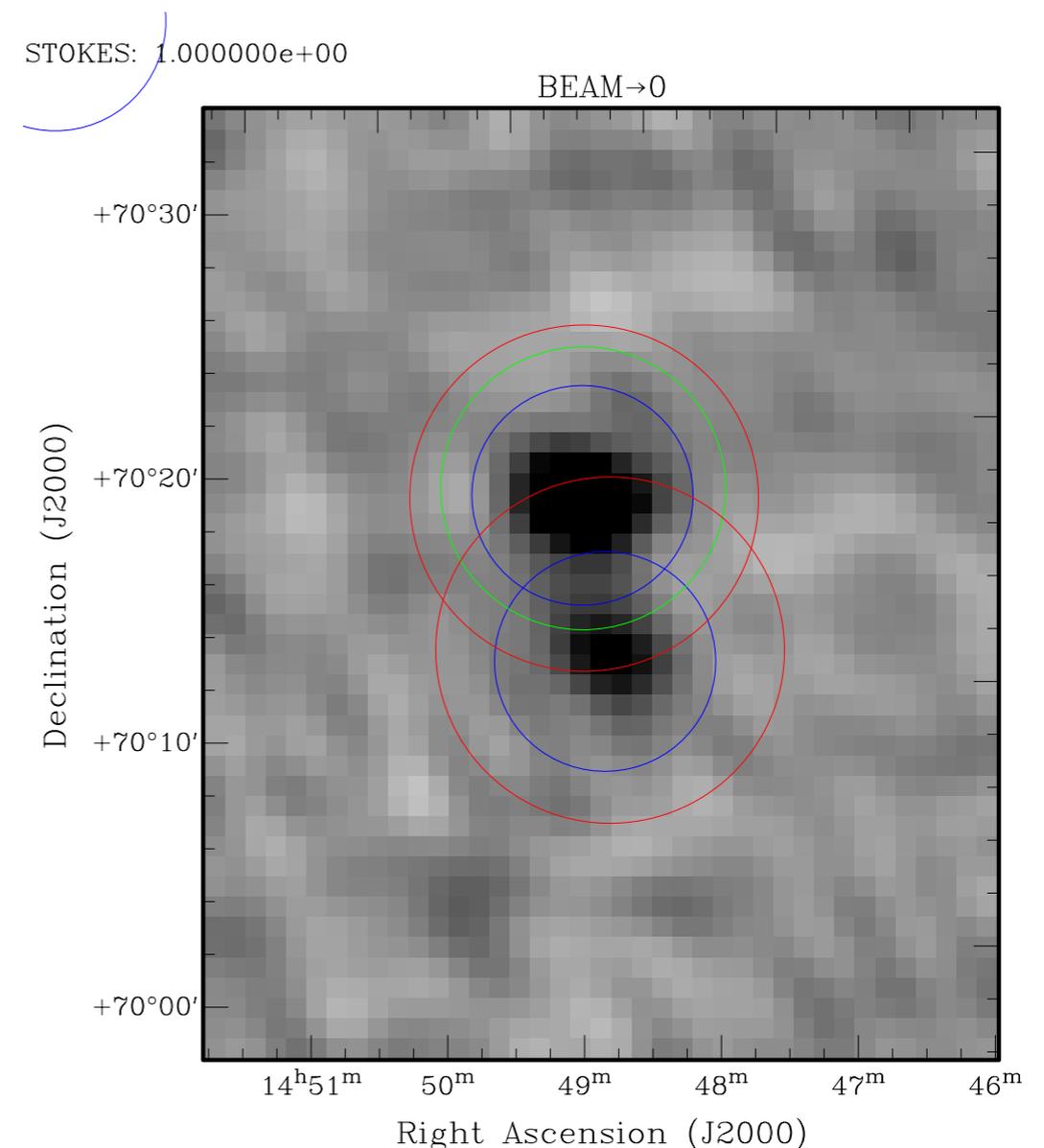
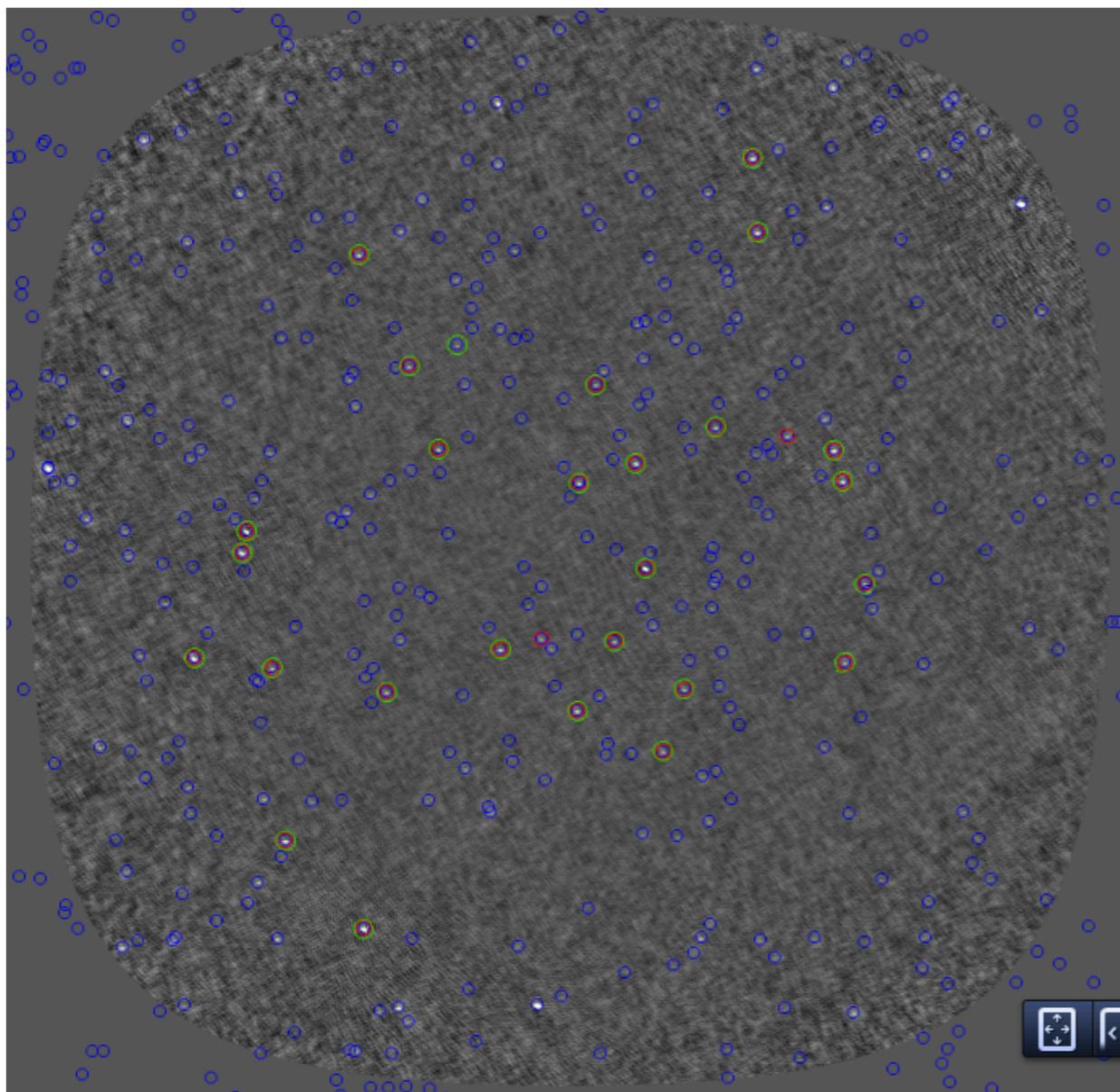
A field is regarded as complete if all the subbands of at least 9 observations of the field are available on CEP and/or in the archive. Otherwise, it is marked as "partially available".

For those fields where a complete data set is available both in CEP and in the archive, the above map gives priority to the former.

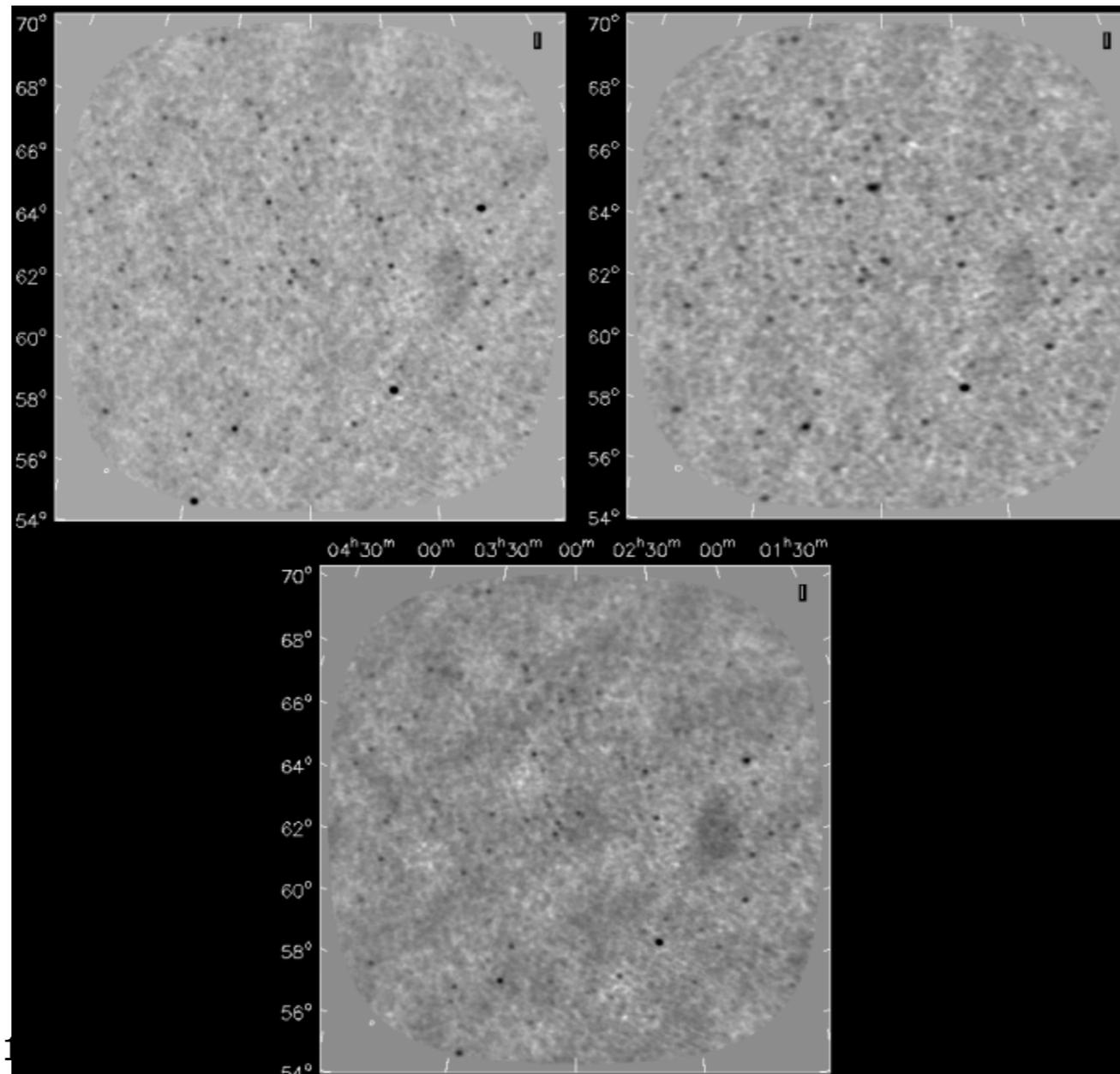
- Automated pipeline processing of MSSS-LBA data on CEP-II is beginning - 6x2 LBA fields processed so far
- Shown here: two low-dec fields from early February 2012
- Some bad data exist - we are now in position to address this on the large scale!



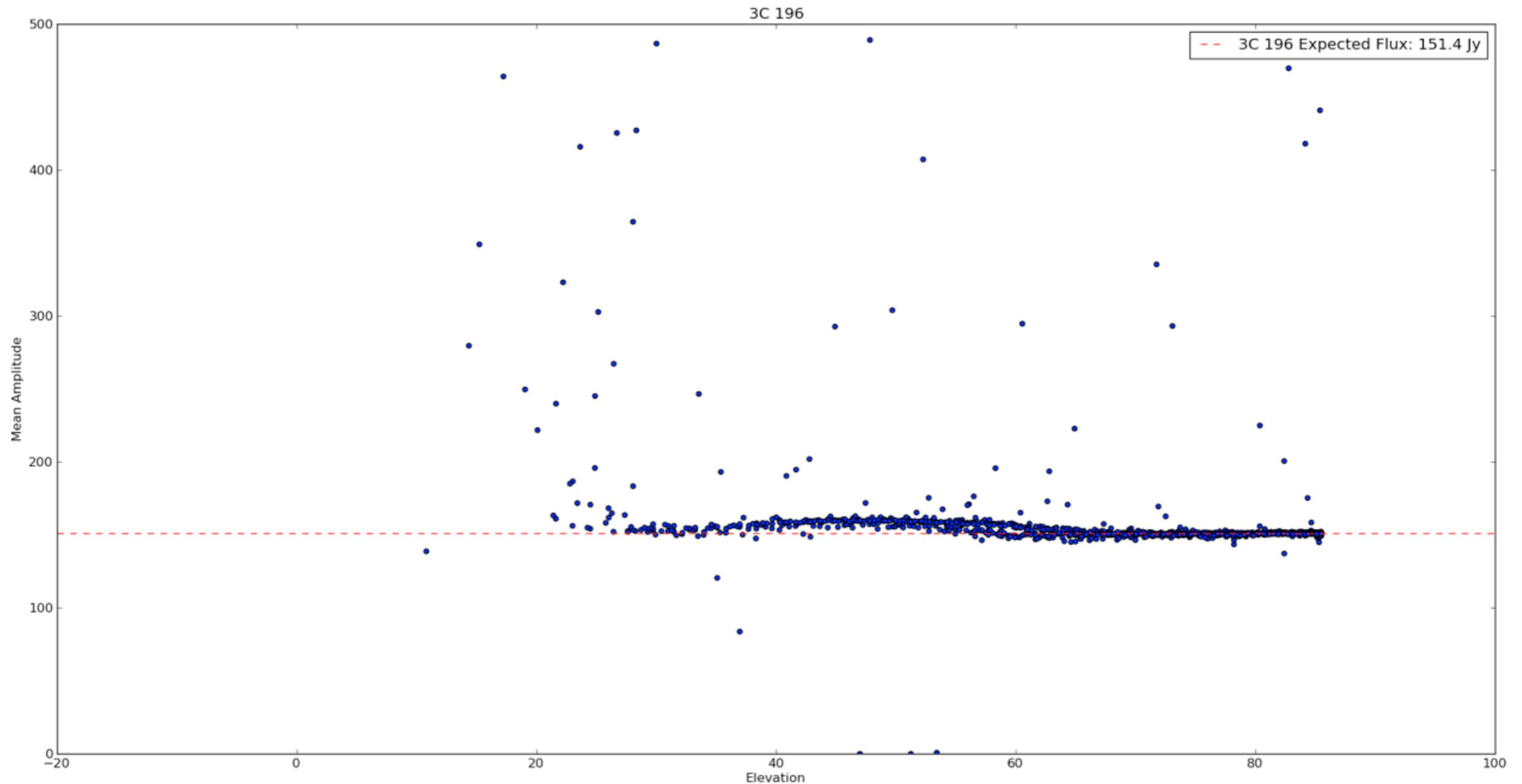
- Work by Antonia Rowlinson being merged with TKP effort
- Effort going into checking that source finder(s) are providing good source characterization from the MSSS images
 - Discrepancies between PyBDSM and PYSE (Stroe, Broderick)



- Peeling script that has been used improves image quality, with one drawback: extended sources lose flux in peeled MSSS images
- We know now that this flux loss increases with # of directions
- Points to need for better initial model of extended sources? In progress.



- Based on 998 cal scans (processed for NCP monitoring)
24/12/2011 - 14/4/2012



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