

LOFAR MSSS

Multifrequency Snapshot Sky Survey

A 5-minute Update

George Heald (MSSS Project Leader)
(on behalf of the MSSS Team)
LSM, 05/02/2014



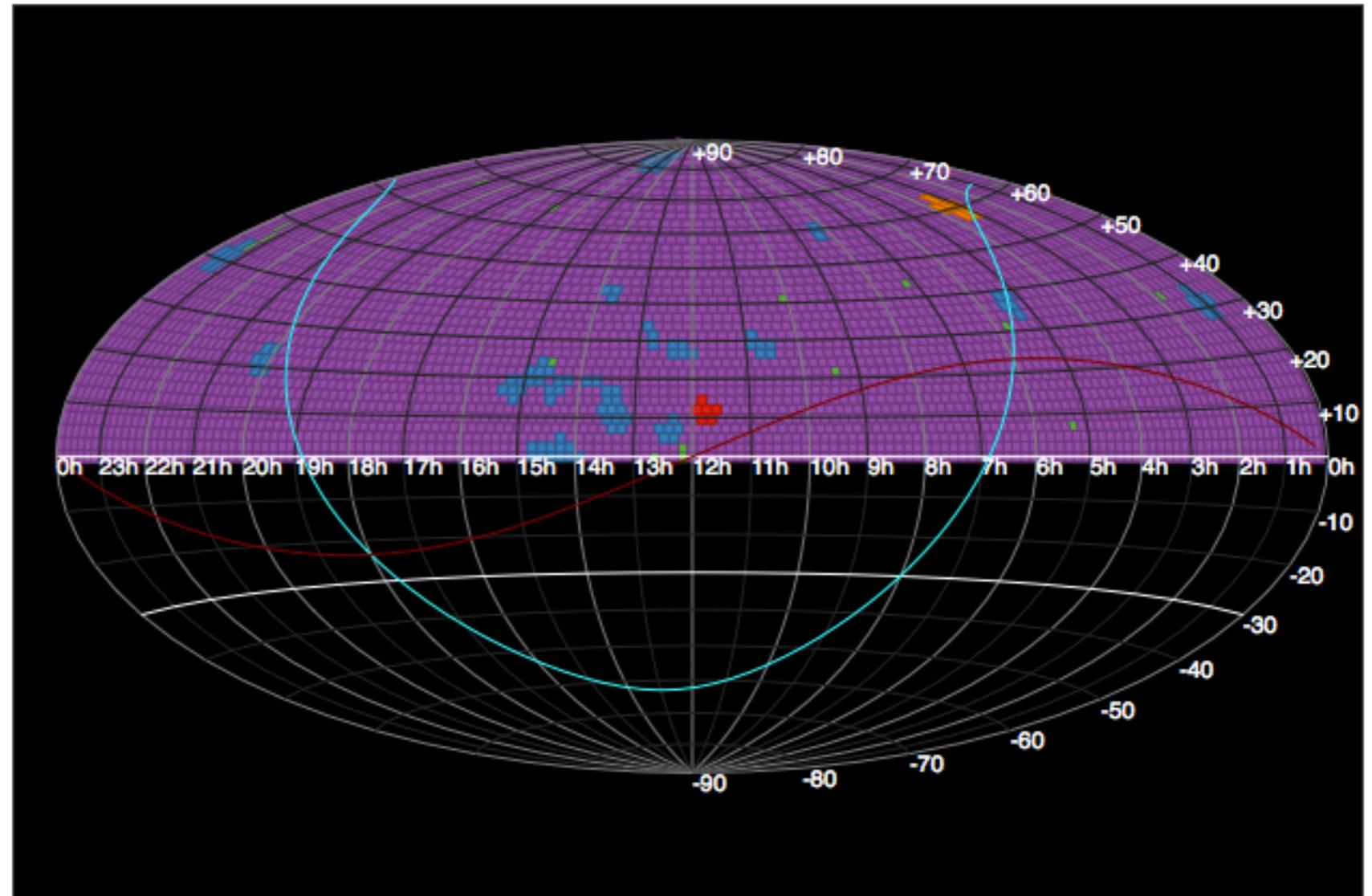
- MSSS-HBA is now nearly complete!

LOFAR Observation Database

MSSS HBA

Number of Targets	3616
Number of Calibrators	8
Start Date	8 Feb. 2013
Stop Date	27 Jan. 2014
Completed Fields	3514 (97.2%)
Information collected	5 Feb. 2014

Show me the data »



Hammer Projection

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

Data available on CEP (0.4%)

Data archived (96.5%)

Partial data available (2.7%)

Data missing (0.2%)

Not yet observed (0.2%)

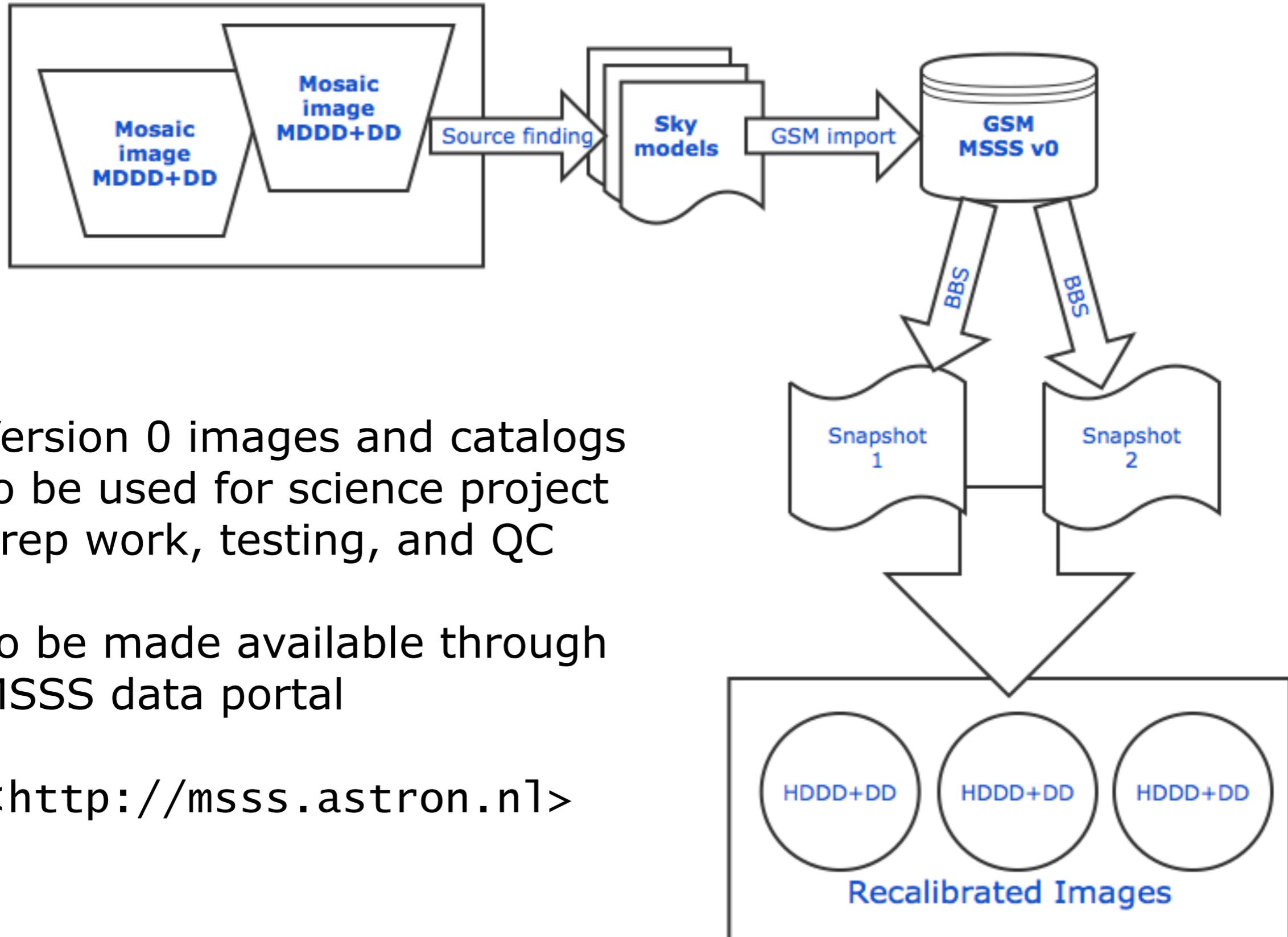
- All 6 MSSS locus nodes were at ~95-97% disk usage in /data
- Removal of redundant MSs led to substantial recovery of space:

```
Terminal 1: ssh (80x32)

26 Feb 2013: PyFits updated to version 3.1.1 in Pythonlibs
29 May 2013: Updated default Casa to release 4.0.1; old version is Casa_prev.
             Latest development version (4.1) is available as Casa_test.
15 Jan 2014: Update h5py to Version 2.2.1 (HDF5 1.8.4)
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Using LUS build from Tue
Using LofIm build from Wed. Today is Tue.

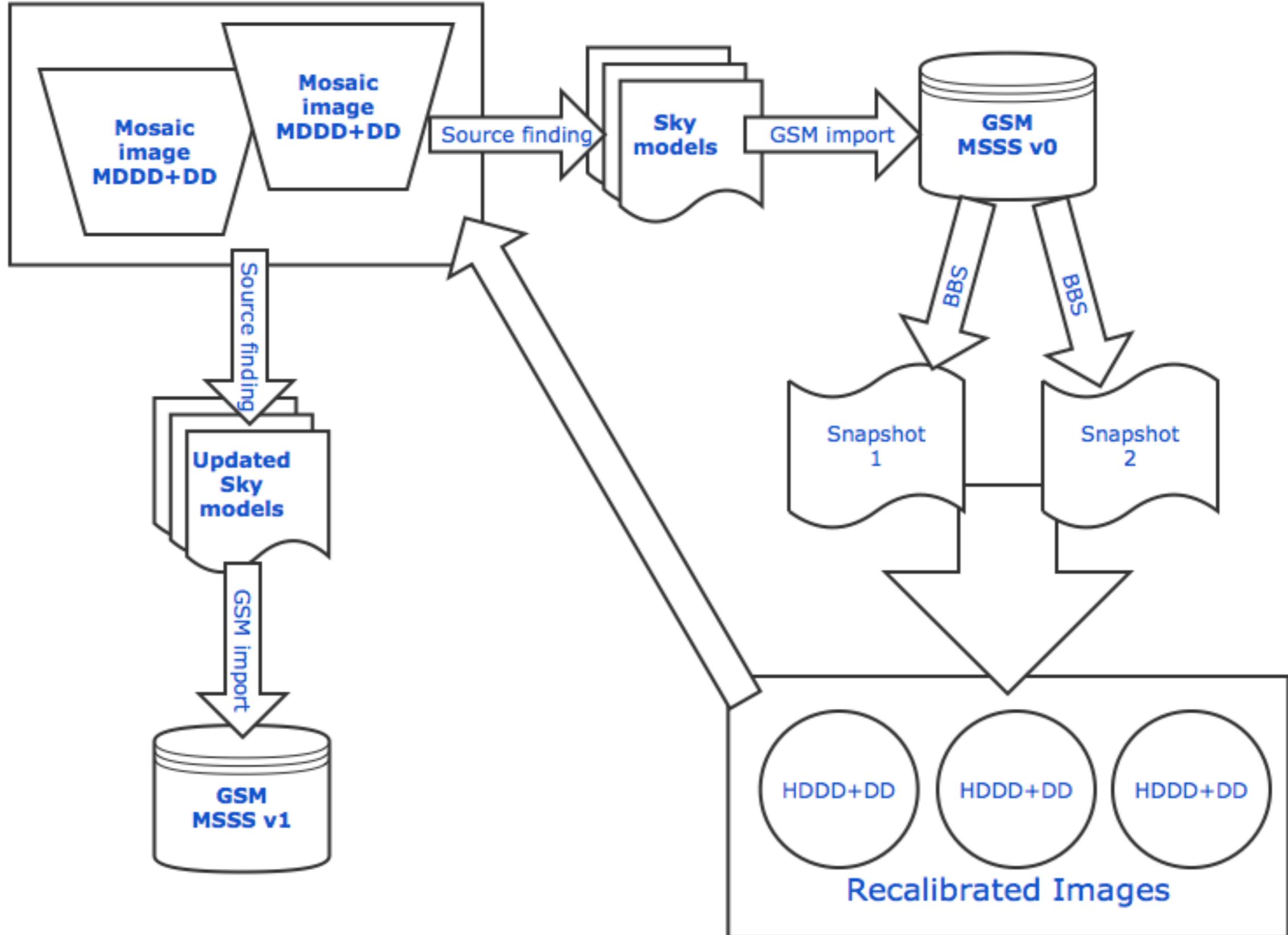
/home/heald
(heald)lhn001> cexec locus:1,21,23,32,58,82 "df -h /data"
***** locus *****
----- locus002 -----
Filesystem      Size  Used Avail Use% Mounted on
/dev/sda10      20T   13T   7.6T  63% /data
----- locus022 -----
Filesystem      Size  Used Avail Use% Mounted on
/dev/sda10      20T   13T   7.0T  66% /data
----- locus024 -----
Filesystem      Size  Used Avail Use% Mounted on
/dev/sda10      20T   14T   6.6T  68% /data
----- locus033 -----
Filesystem      Size  Used Avail Use% Mounted on
/dev/sda10      20T   14T   6.7T  67% /data
----- locus059 -----
Filesystem      Size  Used Avail Use% Mounted on
/dev/sda10      20T   13T   7.3T  64% /data
----- locus083 -----
Filesystem      Size  Used Avail Use% Mounted on
/dev/sda10      20T   14T   6.6T  68% /data

/home/heald
(heald)lhn001>
```

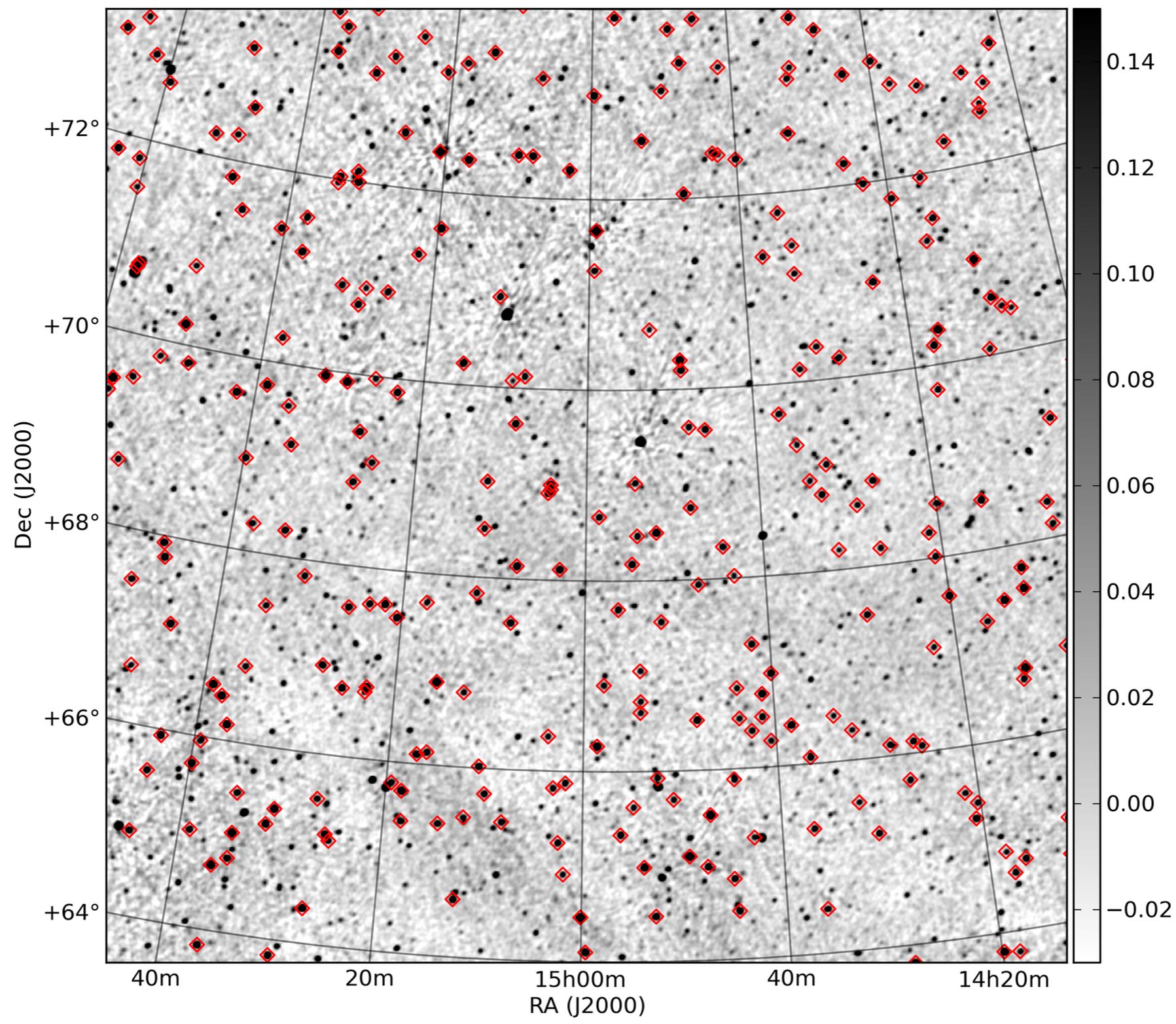


- Version 0 images and catalogs to be used for science project prep work, testing, and QC
- To be made available through MSSS data portal

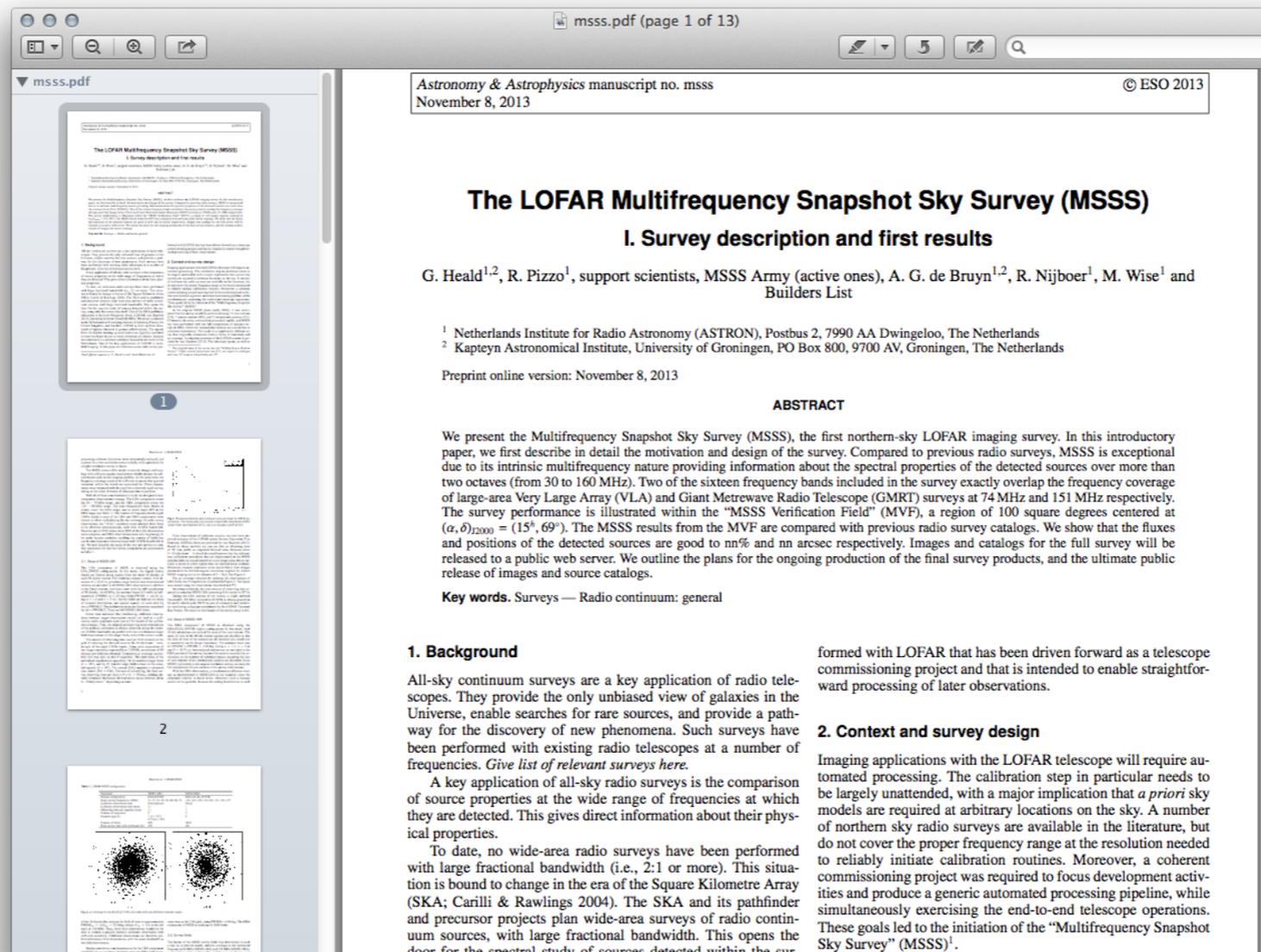
<http://msss.astron.nl>



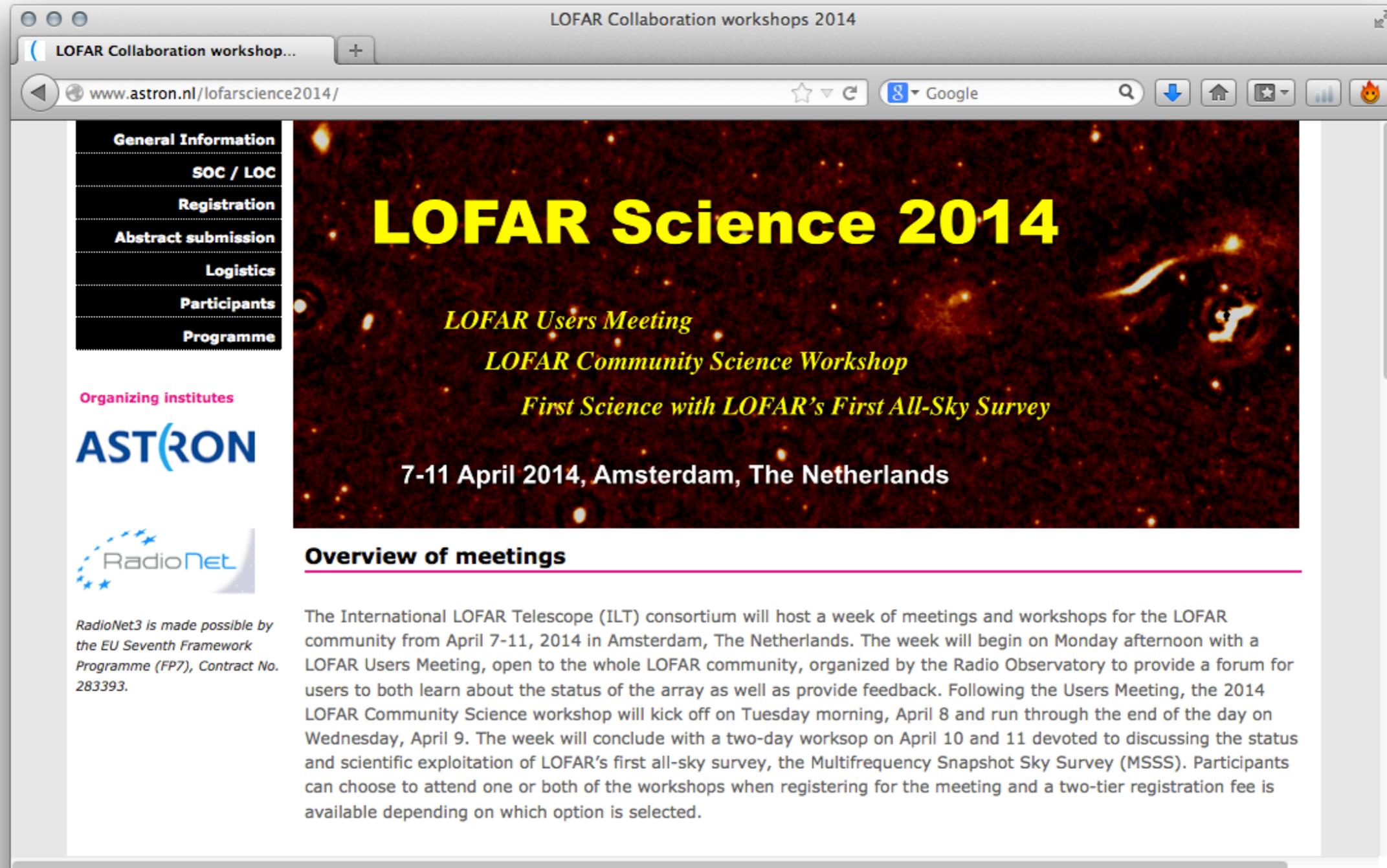
- Fields initially imaged with standard MSSS steps, then recalibrated



- Introductory MSSS paper draft released to MSSS group, and initial comments have been provided - (THANKS!)
- Edits now in progress
- LBA data to be updated with David's phase screen work? (see next talk)



- MSSS science meeting in Amsterdam: 10-11 April 2014
- *Everyone interested in science with MSSS encouraged to register!!*



The screenshot shows a web browser window titled "LOFAR Collaboration workshops 2014" with the URL "www.astron.nl/lofarscience2014/". The page features a navigation menu on the left with items: General Information, SOC / LOC, Registration, Abstract submission, Logistics, Participants, and Programme. Below the menu are logos for "Organizing institutes" including ASTRON and RadioNet, and a note: "RadioNet3 is made possible by the EU Seventh Framework Programme (FP7), Contract No. 283393." The main content area has a dark red background with a starry sky image. It displays the title "LOFAR Science 2014" in large yellow letters, followed by "LOFAR Users Meeting", "LOFAR Community Science Workshop", and "First Science with LOFAR's First All-Sky Survey". The dates "7-11 April 2014, Amsterdam, The Netherlands" are listed below. A section titled "Overview of meetings" contains a detailed paragraph about the event.

General Information
SOC / LOC
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Organizing institutes
ASTRON
RadioNet

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LOFAR Science 2014

LOFAR Users Meeting
LOFAR Community Science Workshop
First Science with LOFAR's First All-Sky Survey

7-11 April 2014, Amsterdam, The Netherlands

Overview of meetings

The International LOFAR Telescope (ILT) consortium will host a week of meetings and workshops for the LOFAR community from April 7-11, 2014 in Amsterdam, The Netherlands. The week will begin on Monday afternoon with a LOFAR Users Meeting, open to the whole LOFAR community, organized by the Radio Observatory to provide a forum for users to both learn about the status of the array as well as provide feedback. Following the Users Meeting, the 2014 LOFAR Community Science workshop will kick off on Tuesday morning, April 8 and run through the end of the day on Wednesday, April 9. The week will conclude with a two-day workshop on April 10 and 11 devoted to discussing the status and scientific exploitation of LOFAR's first all-sky survey, the Multifrequency Snapshot Sky Survey (MSSS). Participants can choose to attend one or both of the workshops when registering for the meeting and a two-tier registration fee is available depending on which option is selected.