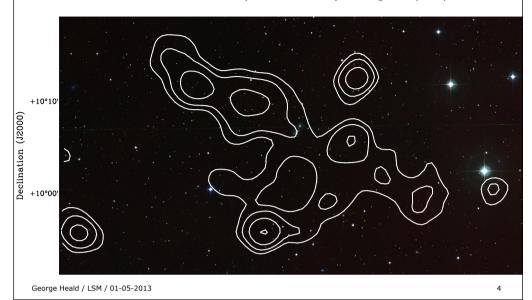


MSSS-HBA: first new source!



■ Extended (\sim 36′) source centered on flat-spectrum radio source coincident with one member (z=0.054536) of a galaxy triplet



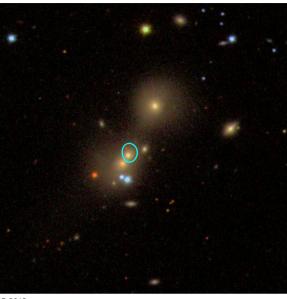
MSSS-HBA: first new source! Faint flux visible in NVSS postage stamp - brightest emission has a steep spectral index between 140 and 1400 MHz (α~-1.2) but it is not visible in VLSS grayscale: NVSS grayscale: NVSS

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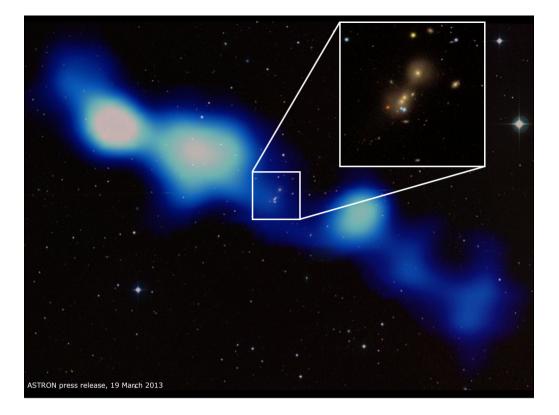
MSSS-HBA: first new source!



■ UGC 9555 (Galaxy triplet); z=0.05 (+NVSS 48 mJy/beam contour)



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MSSS-HBA: first new source! • Identified as a GRG associated with the flat-spectrum NVSS source • MSSS GRG-1 (α=-0.8) • MSSS GRG-1 (α=-1.2) • MSSS GRG-1 (α=-1.2)

1000 Linear size [kpc] 2500

5000

8

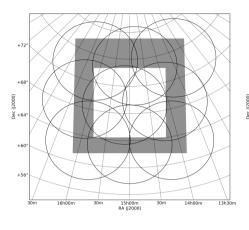
 10^{24}

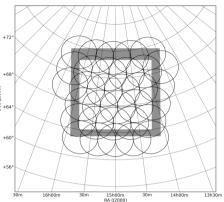
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MSSS Verification Field (MVF)



Mosaics formed from 9 LBA fields and 32 HBA fields





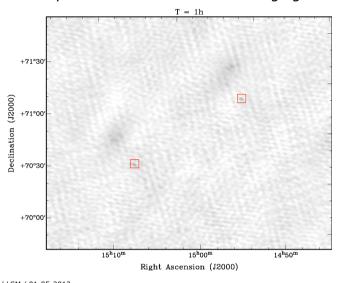
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**EBA 46 mJy/beam, 2' resolution **LBA 46 mJy/beam, 2' resolution **To* | Compared to the c

LBA: ionosphere needs attention



- Sequence of 9 snapshot (11 min each) images @ 31 MHz
- Direction-independent calibration before imaging

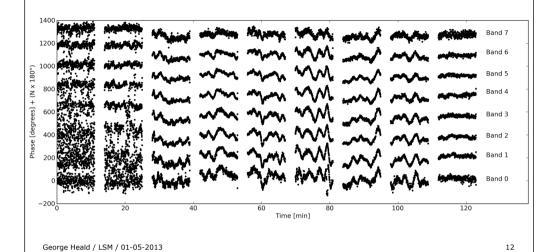


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LBA: ionosphere needs attention



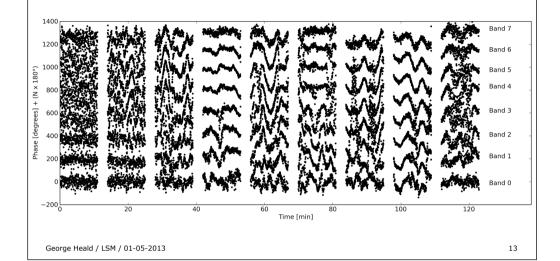
- Clear from phase solutions which snapshots are most strongly affected
- Shown here: CS302LBA (referenced to CS002LBA)



LBA: ionosphere needs attention



- Clear from phase solutions which snapshots are most strongly affected
- Shown here: RS306LBA (referenced to CS002LBA)

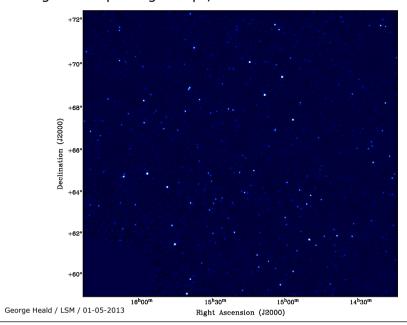


DD test (BBS) with MSSS data



14

Using MSSS "peeling" script; 5 sources used for DirectionalGains

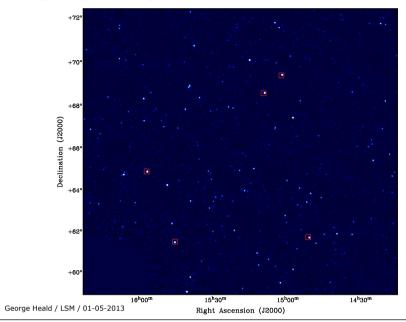


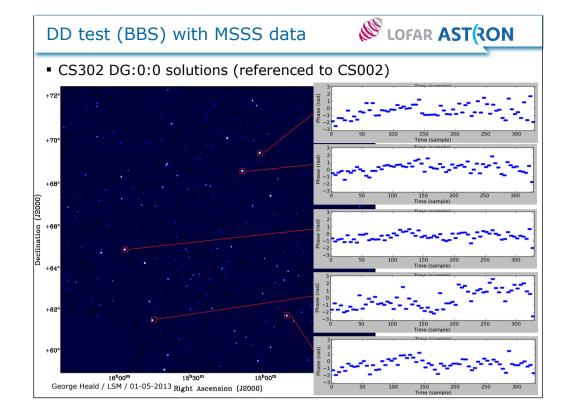
DD test (BBS) with MSSS data

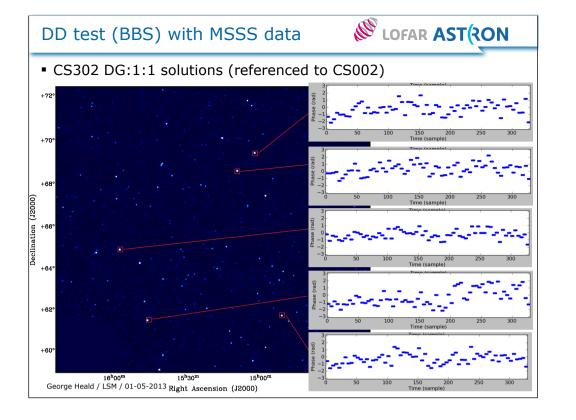


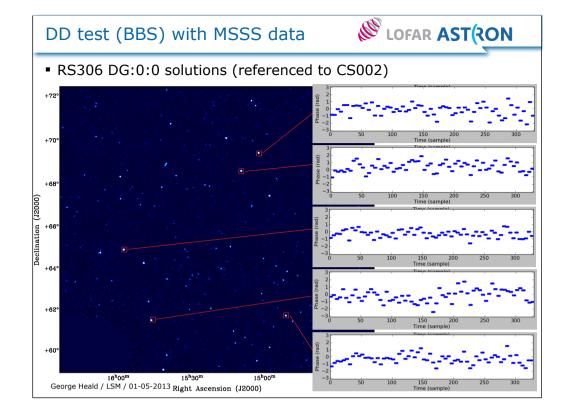
15

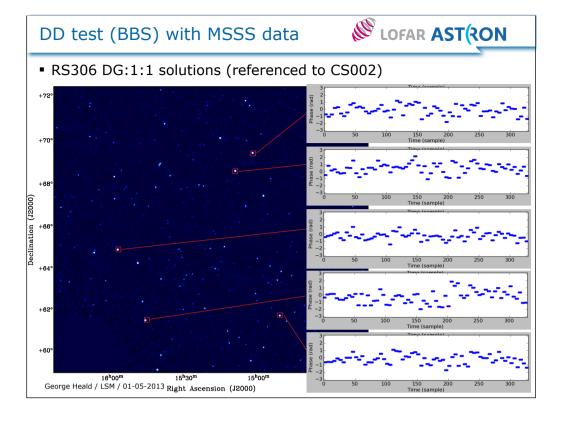
Using MSSS "peeling" script; 5 sources used for DirectionalGains

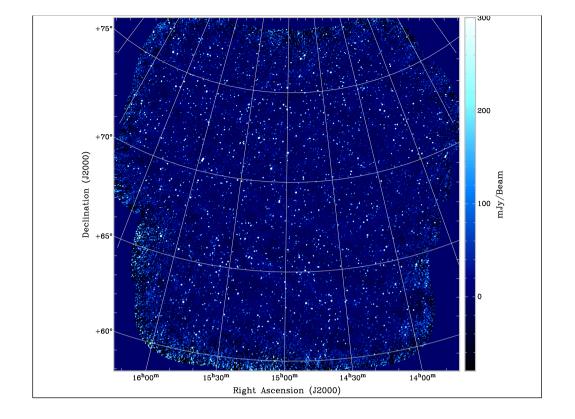


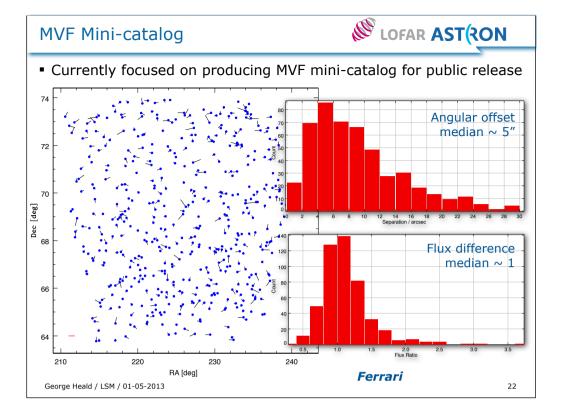












MSSS ambitions



- Release MVF mini-catalog mid 2013 (together with publication of MSSS overview journal article)
- Complete MSSS-HBA observations (projected June 2013)
 - Processing & imaging keeps up with observations
 - Production of HBA catalog and QC phase
 - Release of HBA catalog projected late 2013
- Resume MSSS-LBA observations
 - Ionospheric situation needs additional effort
 - Release of LBA catalog likely 2014
- As (computing) time allows, re-processing and imaging to allow higher angular resolution survey products
 - (recall LSM talk by John McKean on 17 Apr 2013)

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