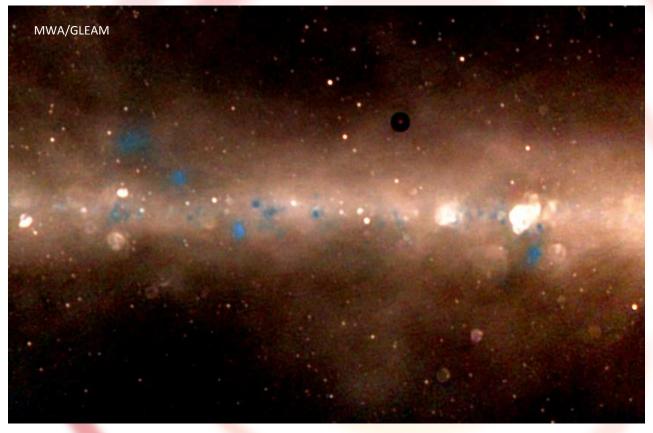


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MWA v TGSS: Finding Low Surface Brightness Sources Ben Quici & Nick Seymour (ICRAR/Curtin) SPARCSVII – #sparcs7- 19th July 2017









TGSS MWA

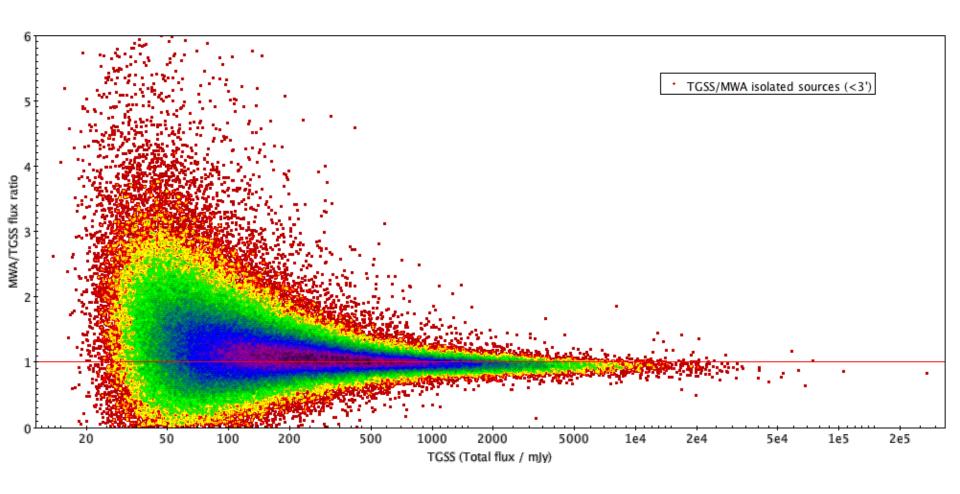


TGSS MWA



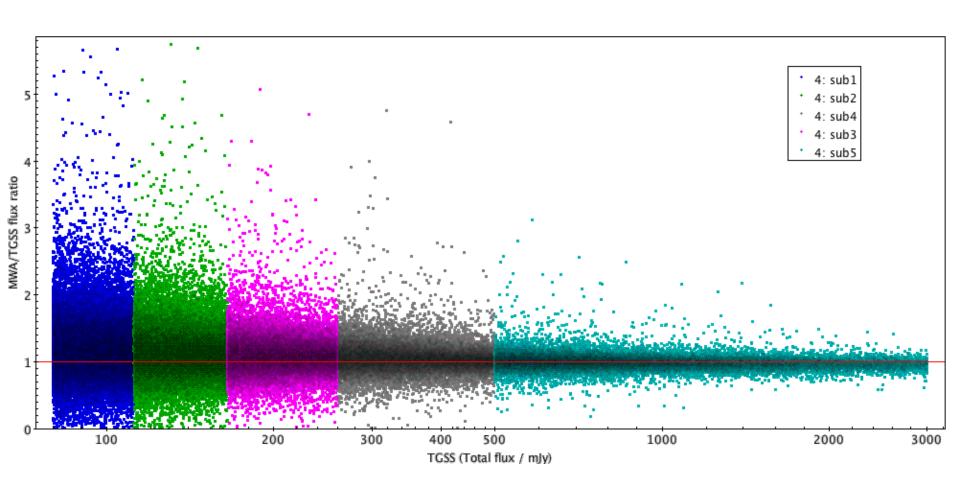






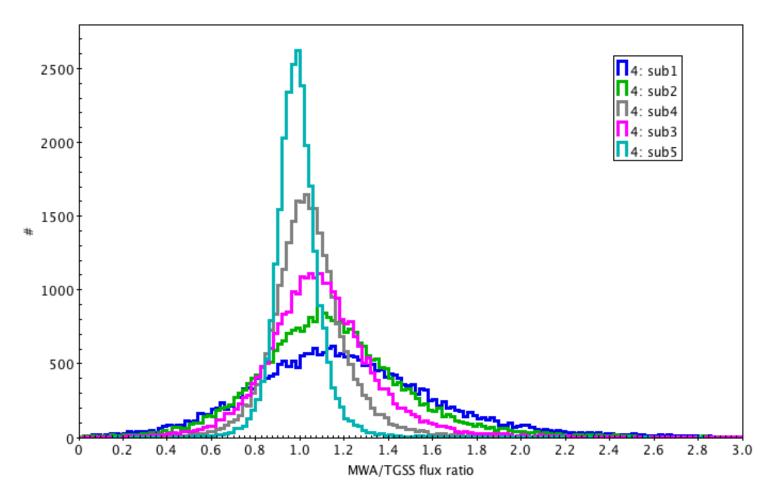
Flux Ratio at 151MHz





5 subsamples

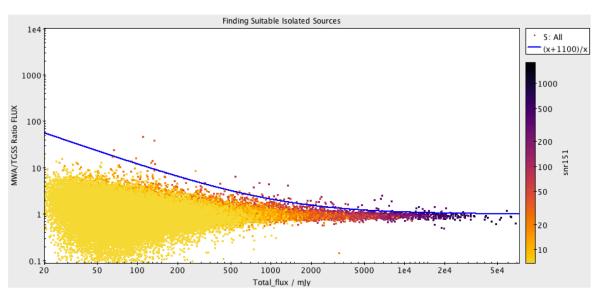




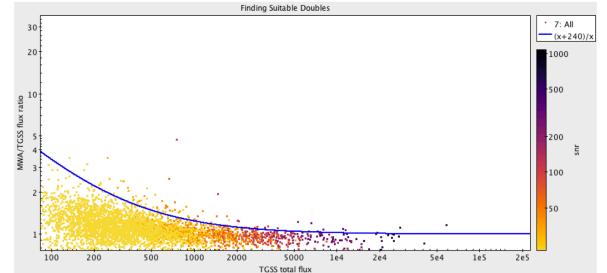
5 subsamples



Selecting Extreme Sources



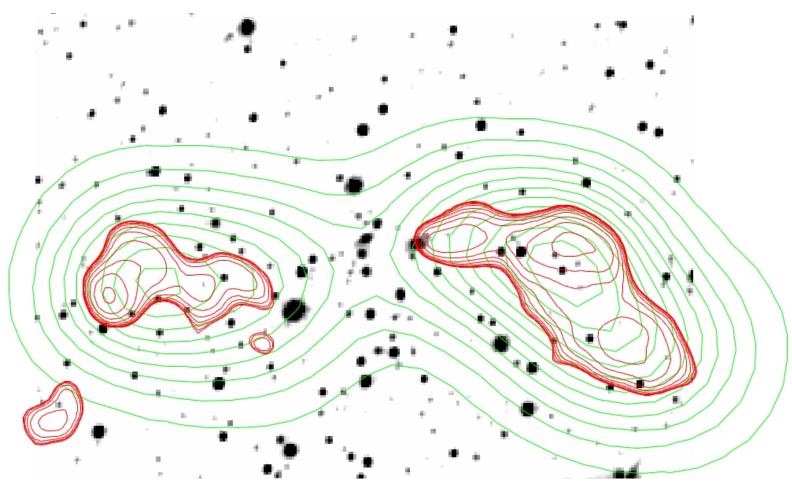
Isolated Single Sources



Double TGSS Sources



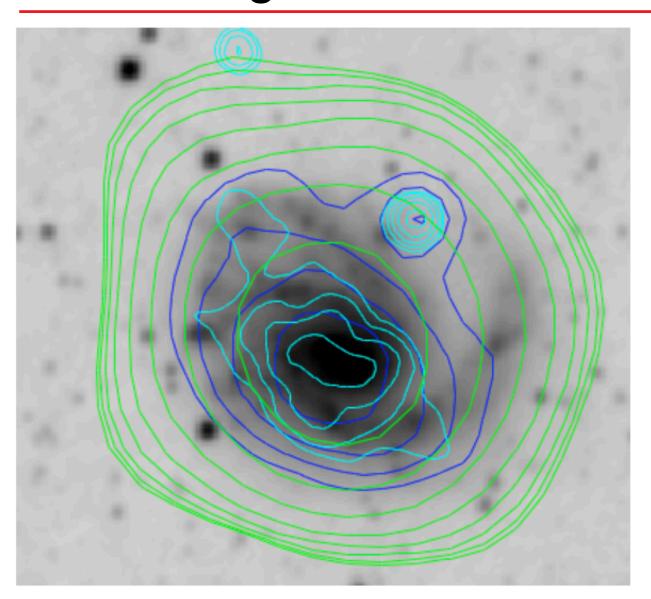
Interesting Sources



PKS0800-09 @z=0.0865 (probably) LAS > 1Mpc



Interesting Sources



Messier 99

WISE

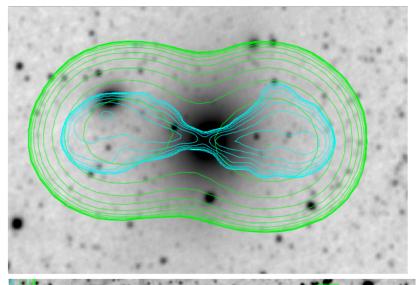
MWA

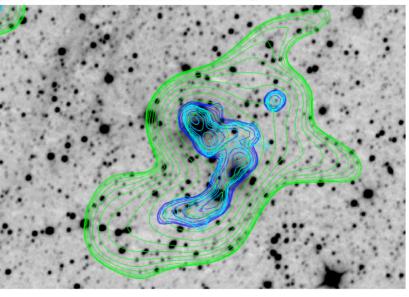
TGSS

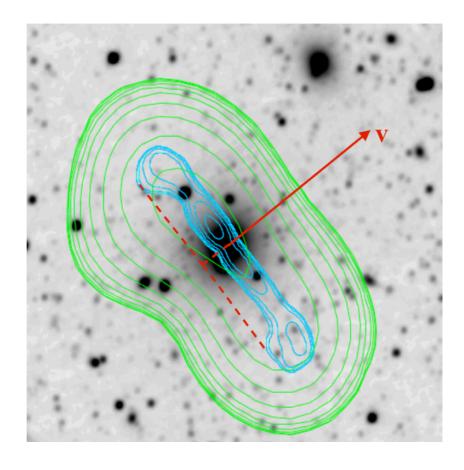
NVSS



Rogues Gallery

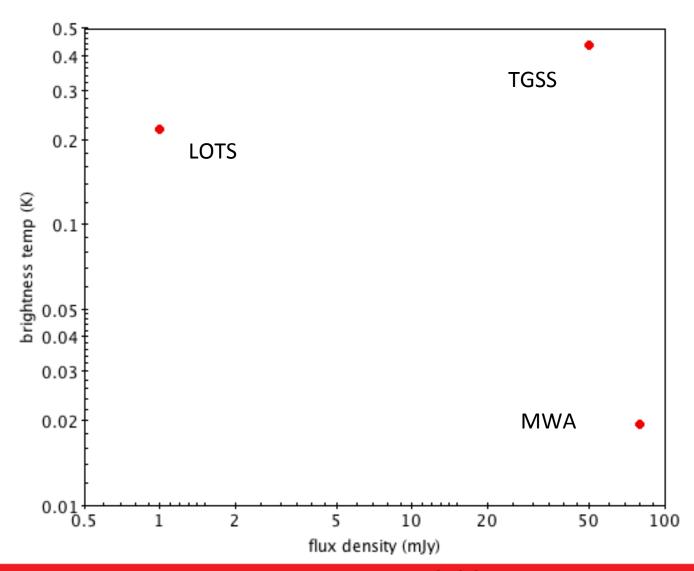




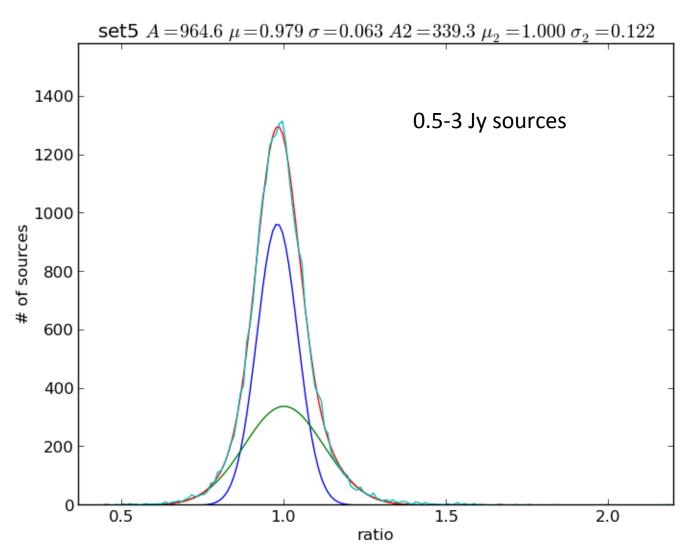




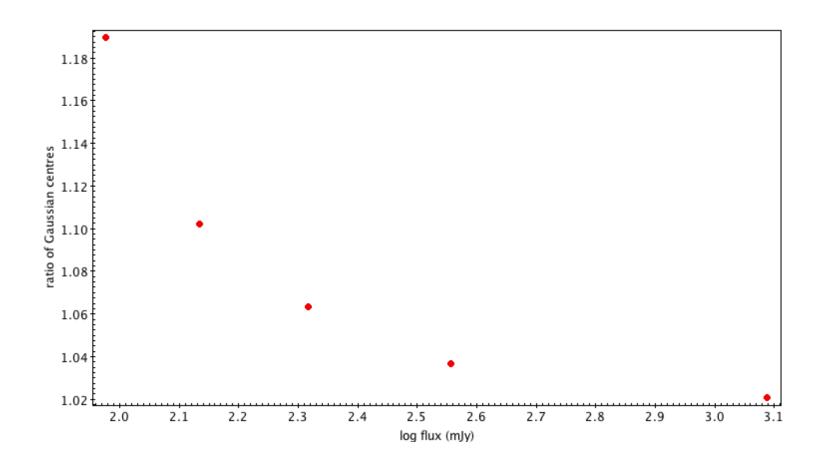
Flux Density v Brightness Temp



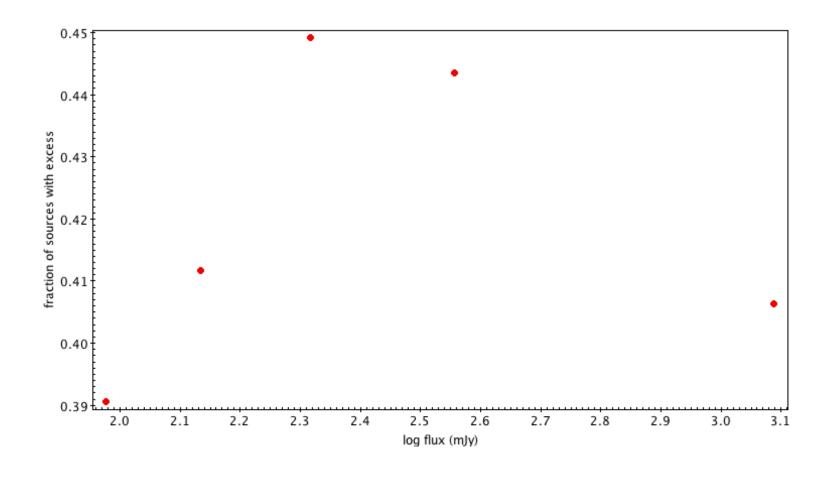




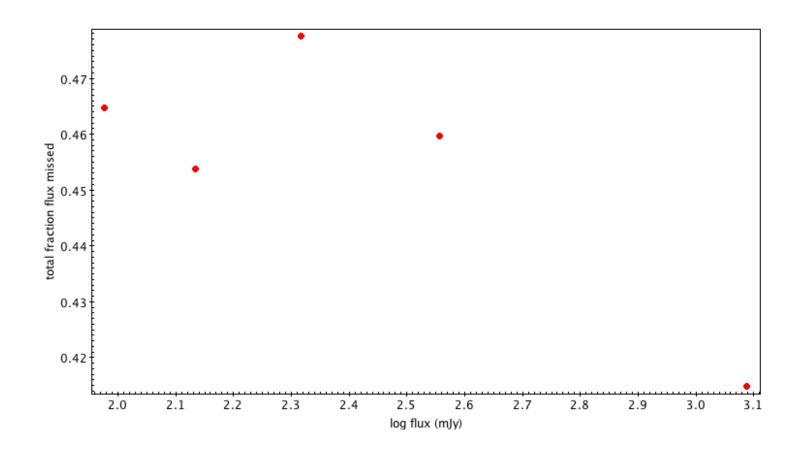














Conclusions

- GLEAM and TGSS are complimentary surveys
 - TGSS provides the resolution
 - GLEAM provides the extended emission
- TGSS misses 40 % of the flux
- Interesting extended sources
- Future work will included feathering of the images



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We acknowledge the Wajarri Yamatji people as the traditional owners of the observatory site.





