

MSSS Update

George Heald
(on behalf of the MSSS Team)
LSM, 12 September 2012



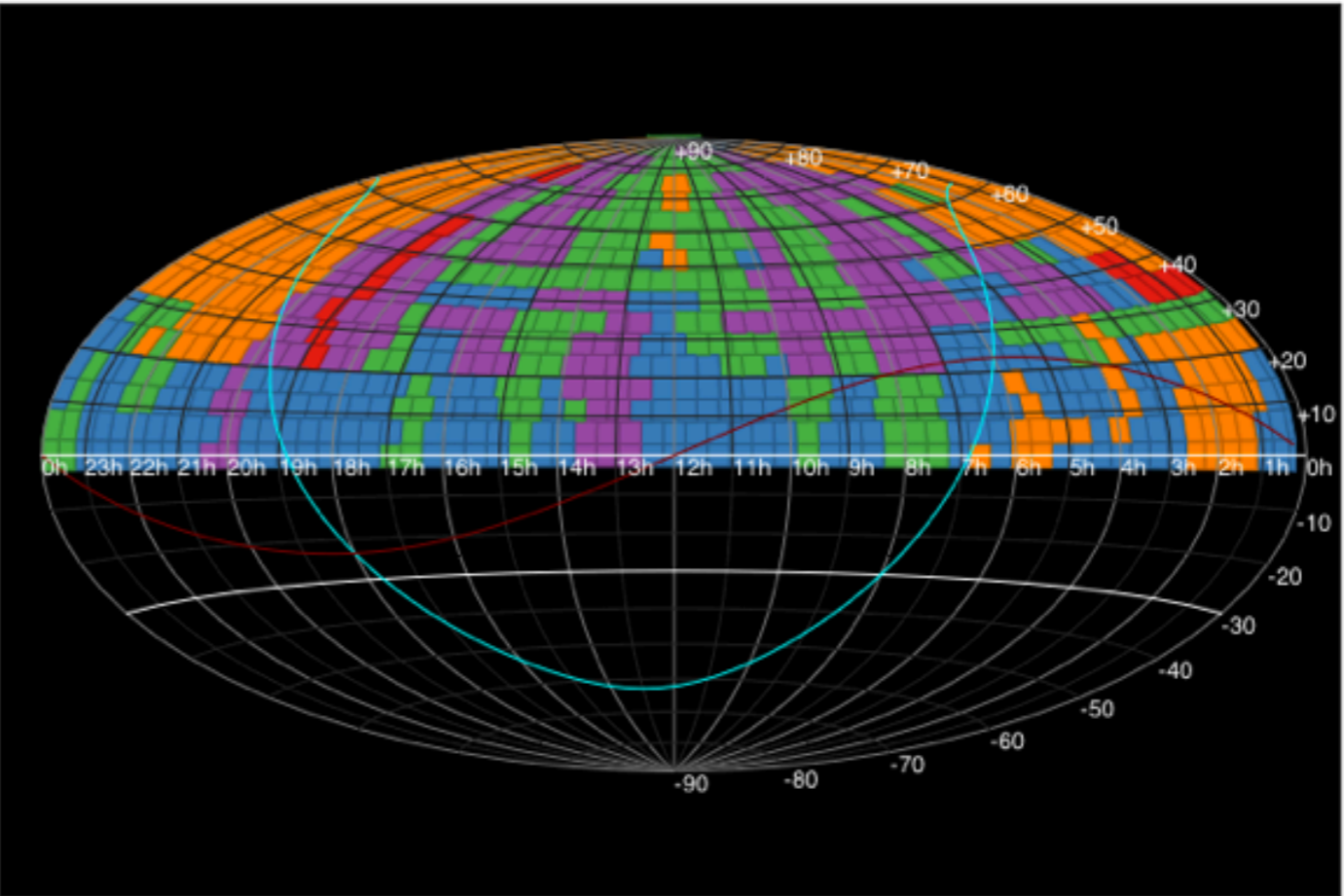
LOFAR Observation Database

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.

LOFAR Observation Database

msss.astron.nl/field/597/

L135+63

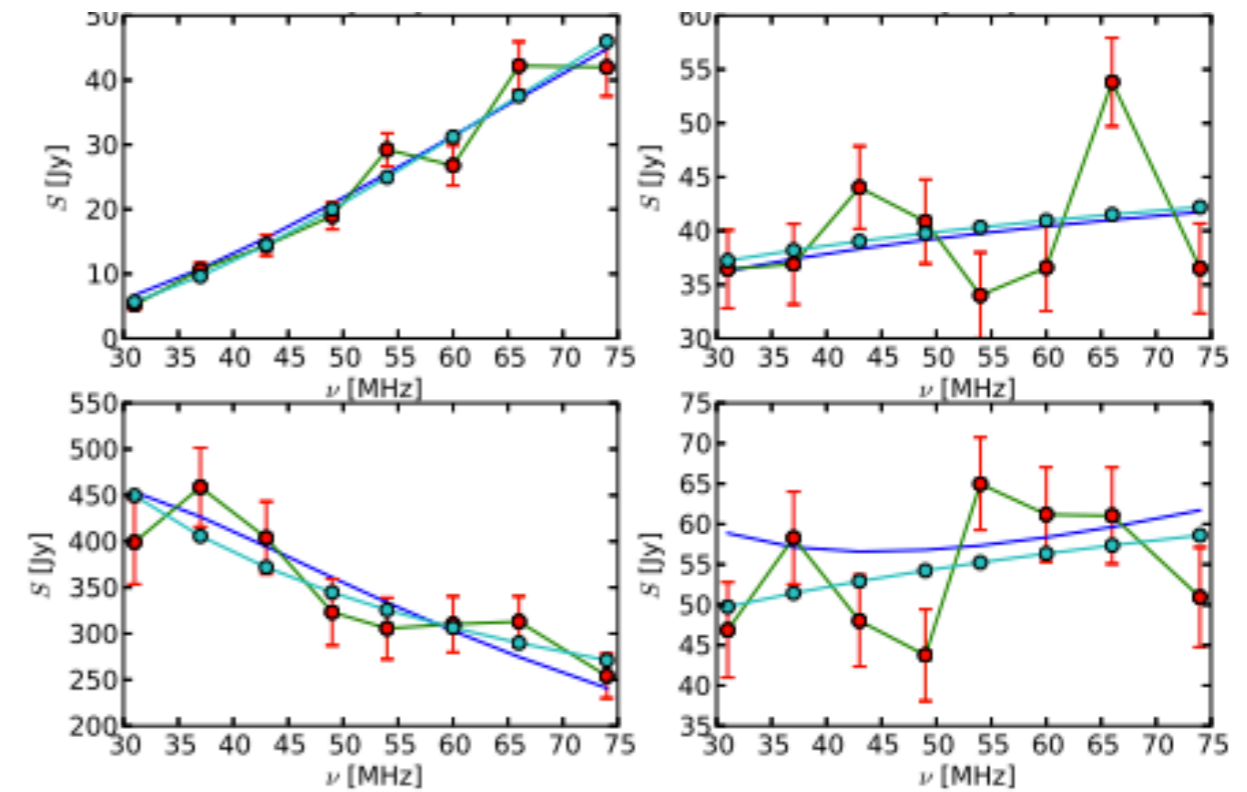
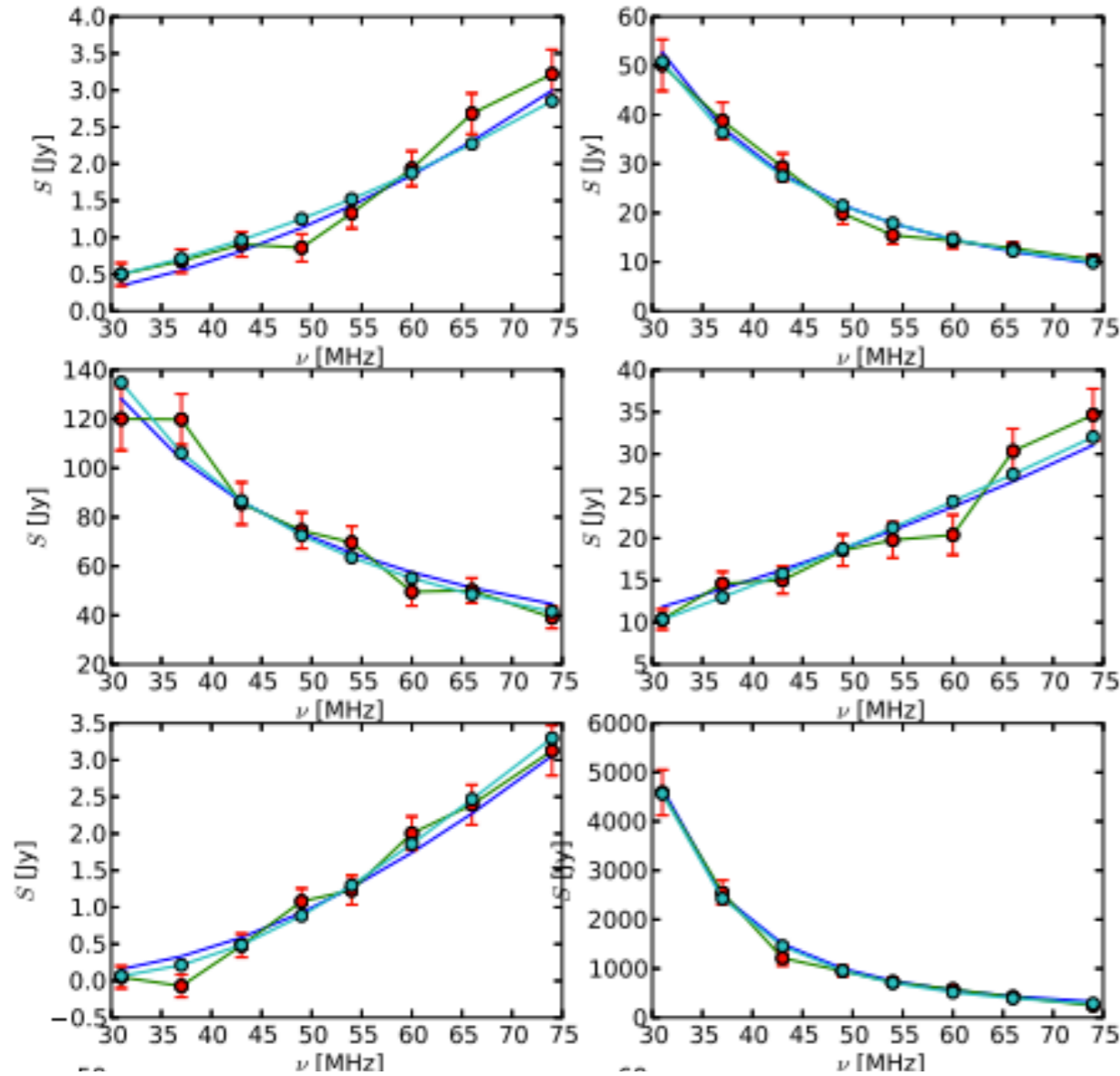
Right Ascension	8 ^h 59 ^m 60.0 ^s
Declination	+63° 28' 12.0"
Survey	MSSS LBA
# Observations	18
Status	<input checked="" type="checkbox"/> ★

1

Observation	Beam	Date	Duration	Status
L41211	1	2011-12-31 20:33:00	660 s	★
L41219	1	2011-12-31 21:33:00	660 s	★
L41227	1	2011-12-31 22:33:00	660 s	★
L41235	1	2011-12-31 23:33:00	660 s	★
L41243	1	2012-01-01 00:33:00	660 s	★
L41251	1	2012-01-01 01:33:00	660 s	★
L41259	1	2012-01-01 02:33:00	660 s	★
L41267	1	2012-01-01 03:33:00	660 s	★
L41275	1	2012-01-01 04:33:00	660 s	★
L43464	1	2012-01-21 19:03:00	660 s	<input type="checkbox"/>
L43472	1	2012-01-21 20:03:00	660 s	<input type="checkbox"/>
L43480	1	2012-01-21 21:03:00	660 s	<input type="checkbox"/>
L43488	1	2012-01-21 22:03:00	660 s	<input type="checkbox"/>
L43496	1	2012-01-21 23:03:00	660 s	<input type="checkbox"/>
L43504	1	2012-01-22 00:03:00	660 s	<input type="checkbox"/>
L43512	1	2012-01-22 01:03:00	660 s	<input type="checkbox"/>
L43520	1	2012-01-22 02:03:00	660 s	<input type="checkbox"/>
L43528	1	2012-01-22 03:03:00	660 s	<input type="checkbox"/>

Built by [John Swinbank](#). Code available [on GitHub](#). Feedback welcome.

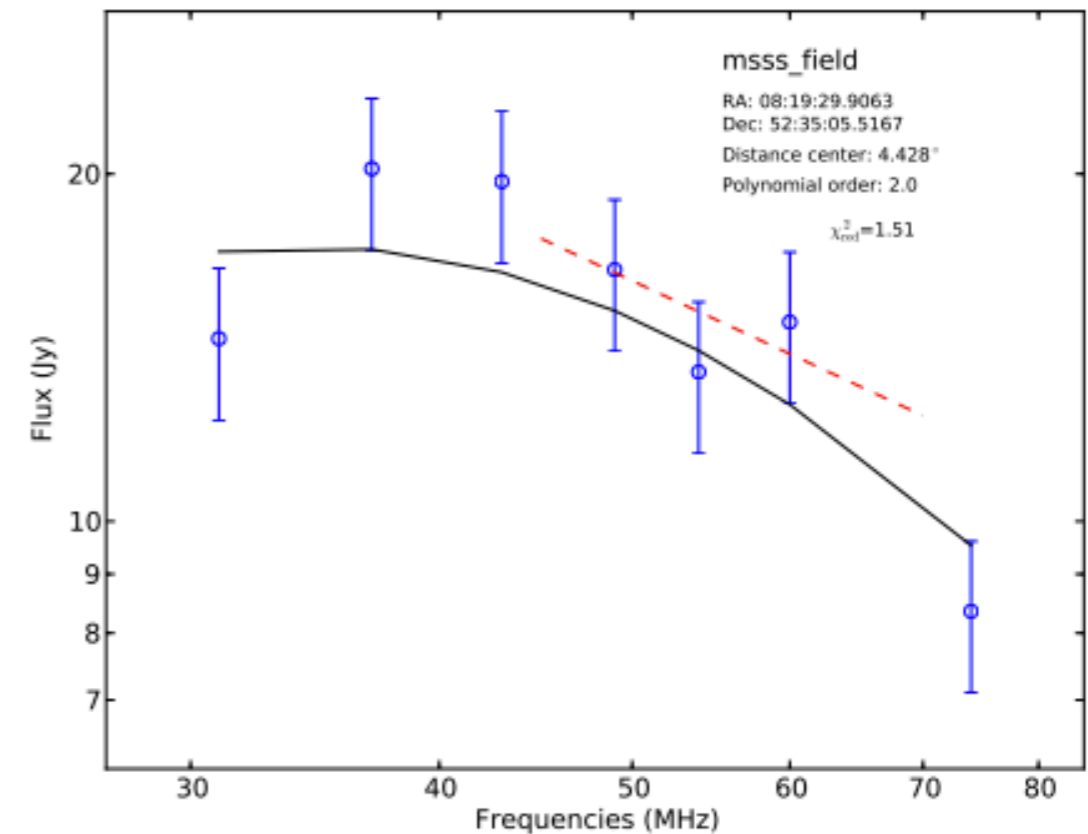
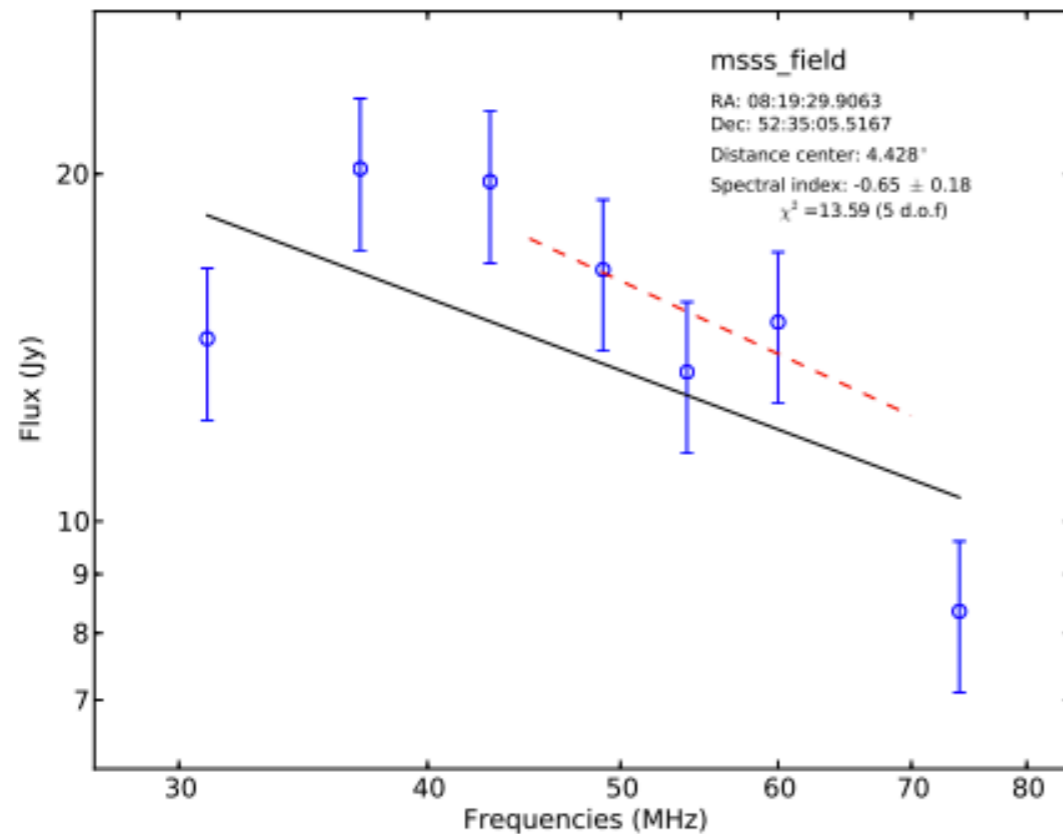
- Fitting SEDs with polynomial terms to the MSSS data



Scaife

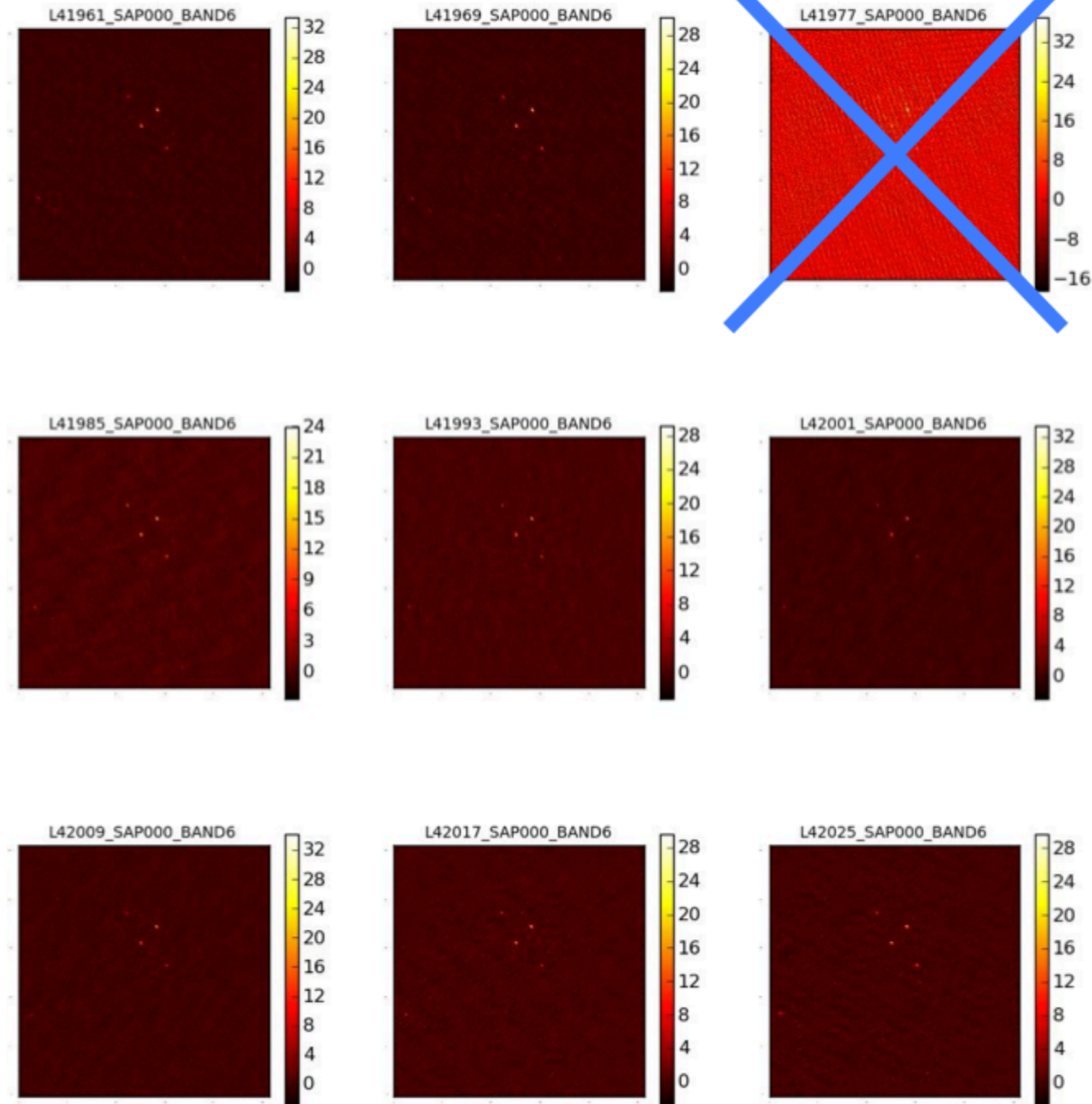
Higher orders needed?

- Only one source out of 93 in 3C196 field needed nonlinear fit...



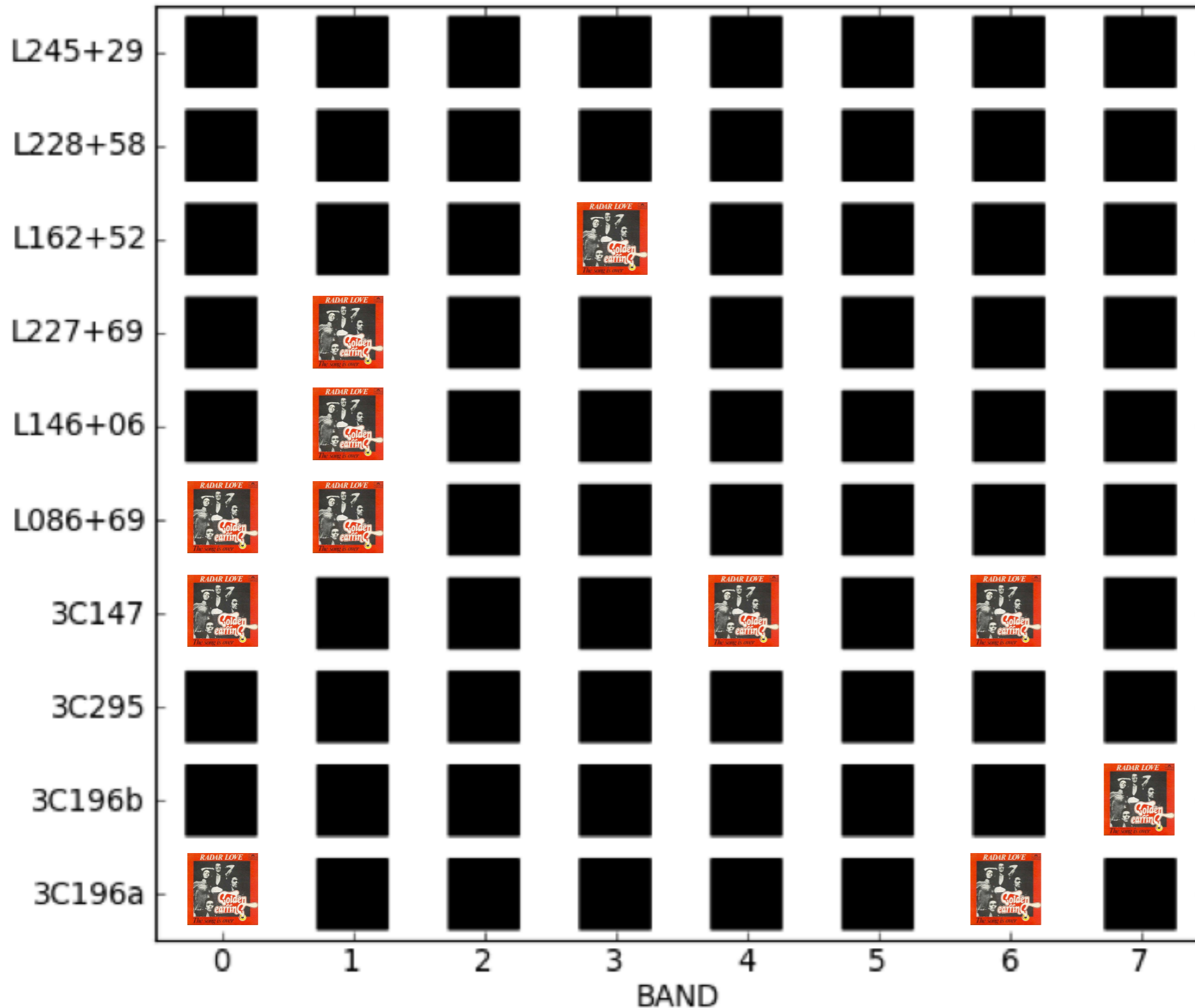
Scaife

- MSSS summer student (Patti Carroll, UW) worked on source characterization in 10 MSSS fields
- First: data quality checks...
- Patti's guide is on wiki:
MSSS > Useful scripts



Carroll

- Many fields have at least one "bad band"

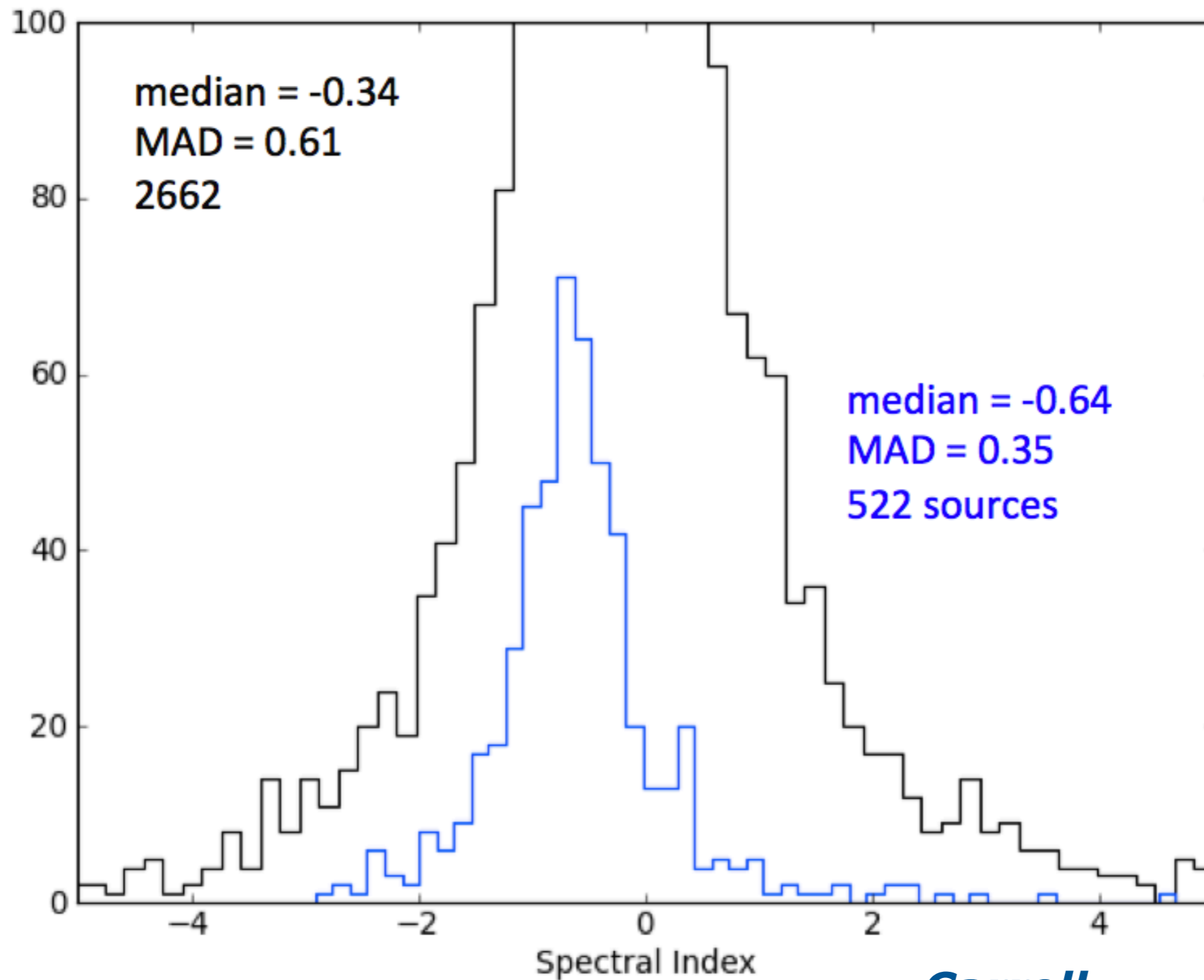


Key:



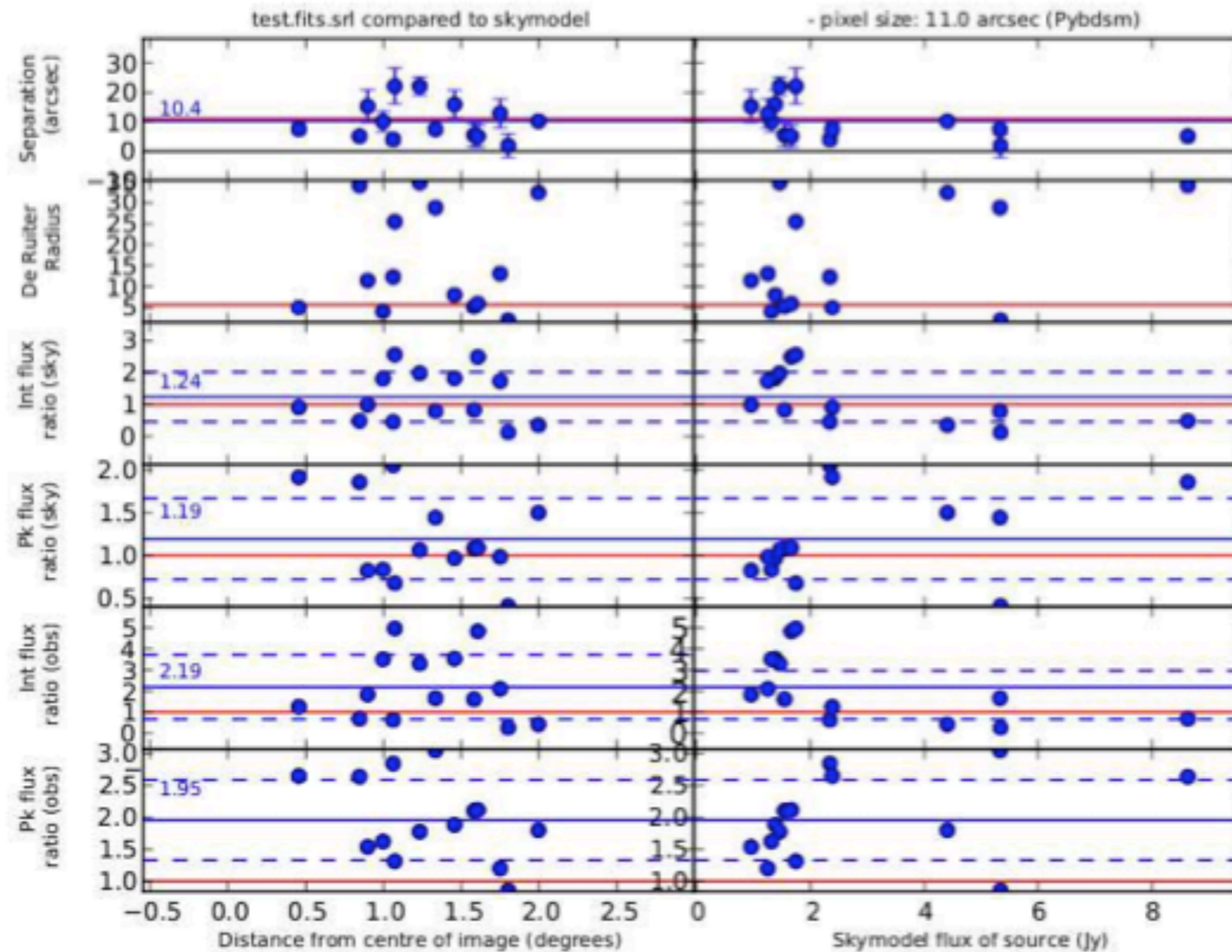
Bad band

- Need to apply extra selection criteria to get reliable statistics



Carroll

- Work by Antonia Rowlinson being merged with TKP effort



Rowlinson