





Data inspection and Excision

Quality control

3.1.1 RFI mitigation

3.1.2 Data Inspection

3.1.3 Data Excision

MPIfR

ASTRON, UOXF

UCAM, UOXF



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not re-inventing the wheel,
but are traditional methods for
inspection suitable for upcoming data?

deliverables

Final report on data quality algorithms and excision methods.

All data quality metrics will be developed as stand-alone Python modules and are therefore capable of being used in most of analysis packages such as CASA and AIPS (using ParseITongue).

data quality control

visibility domain - pre/post calibration

visualization

statistics

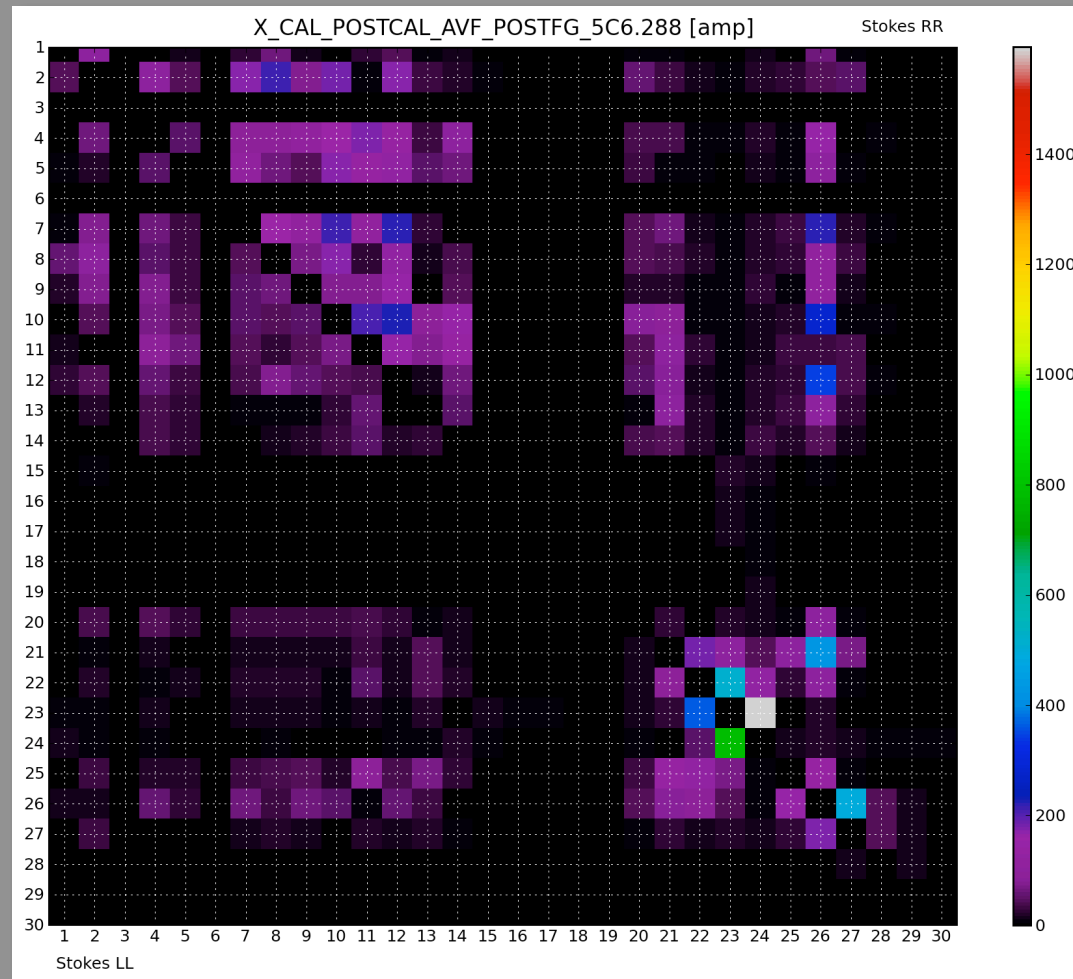
- report on existing tools and develop additional modules
- RFI flagger statistics
- Calibration solution statistics

UOXF
7MM

ASTRON
2MM

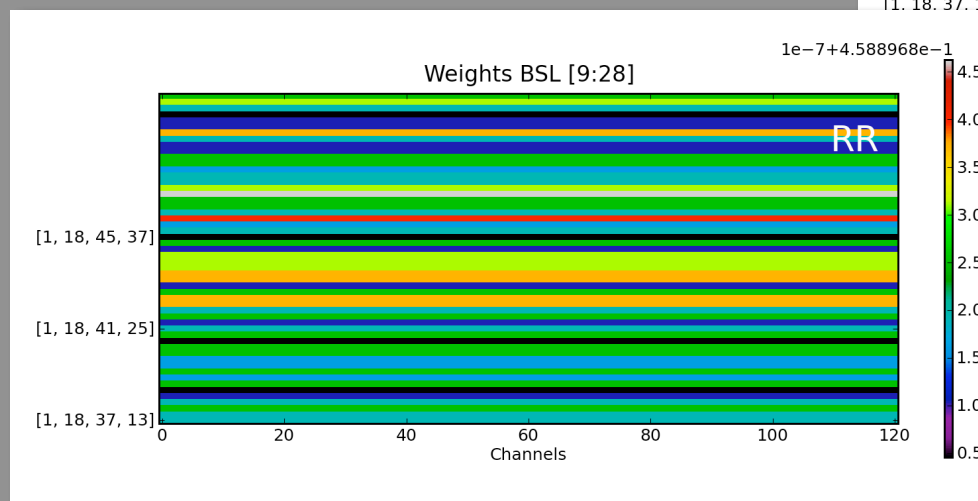
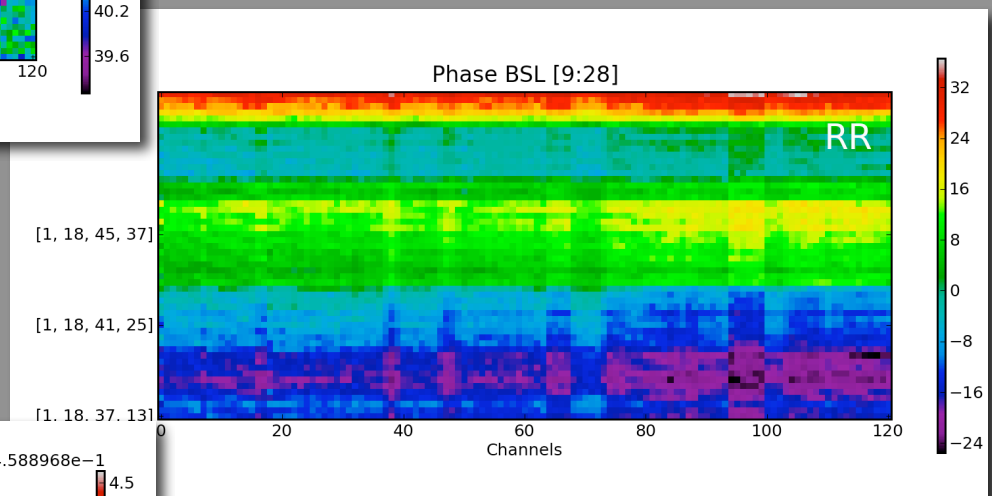
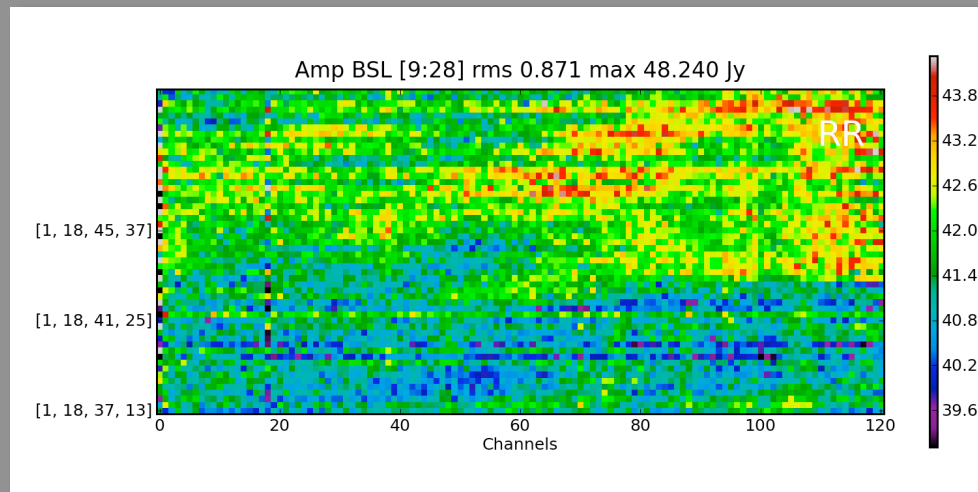
Link with 6.3.1 RFI mitigation software (MPIfR)

some examples



similar could be used for coherence-time,
flagging information, ...

some examples



data quality control

image/cube quality control

visualization

statistics

Standard set of parameters

(e.g. Local, global dynamic range)

image properties wrst to calibration

report on methods to indicate image artifacts

LSM quality

Image quality

UOXF

7MM

ASTRON

2MM

Link with 6.3.3 models for extended sources (ASTRON)

Data excision

Need input from quality measurements
in the visibility and image domain

Evaluate data excision mechanism
(feedback to various calibration stages)

How to incorporate Metadata

Flagging transfer UVFITS to MS

Testing methods on GMRT

Implementing of excision software

UOXF
6MM

UCAM
10MM

