DATA inspection

Must Radio astronomy be
a painful journey to learn how
bad data can look like?

challenges

AIPS

I learned Parseltongue for my foreign language course

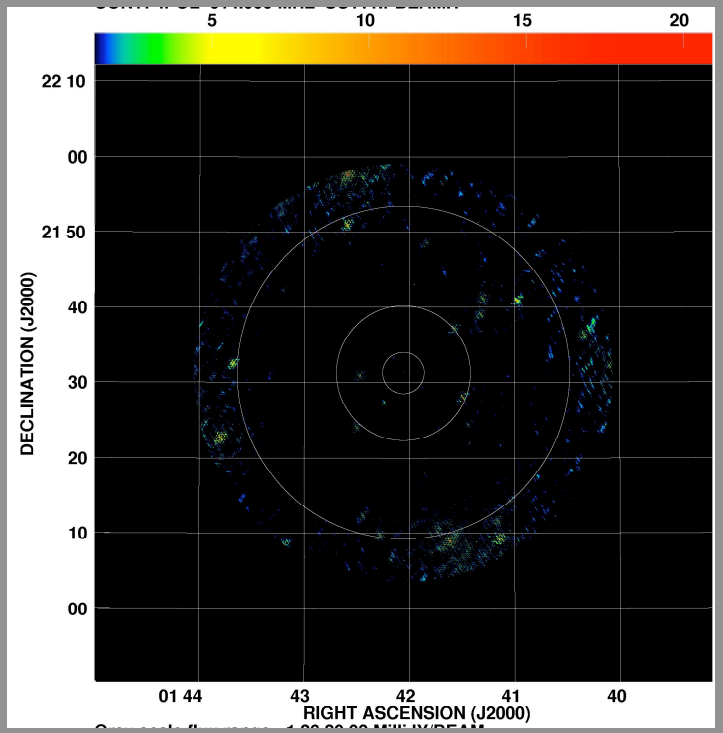
CASA

MIRIAD

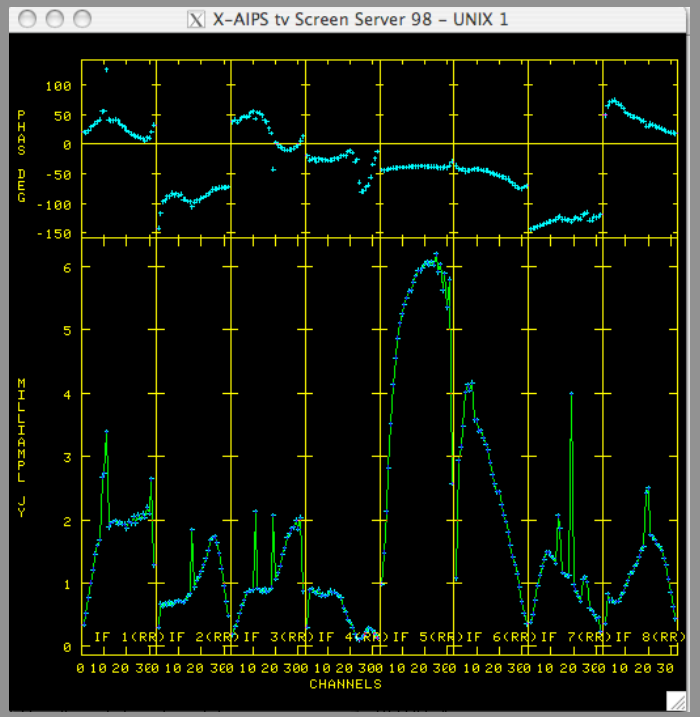
MeqTree

UVFITS
MS
HDF5

FoV



Bandwidth



& tons of Baselines!!!

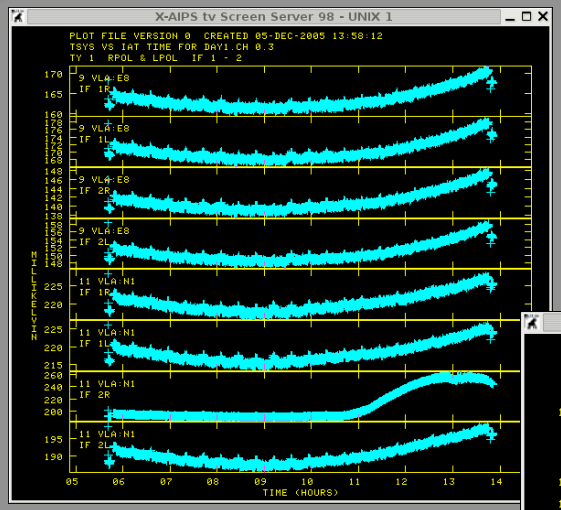
PRE PROCESSING

visibilities only
sky model

POST CALIBRATION

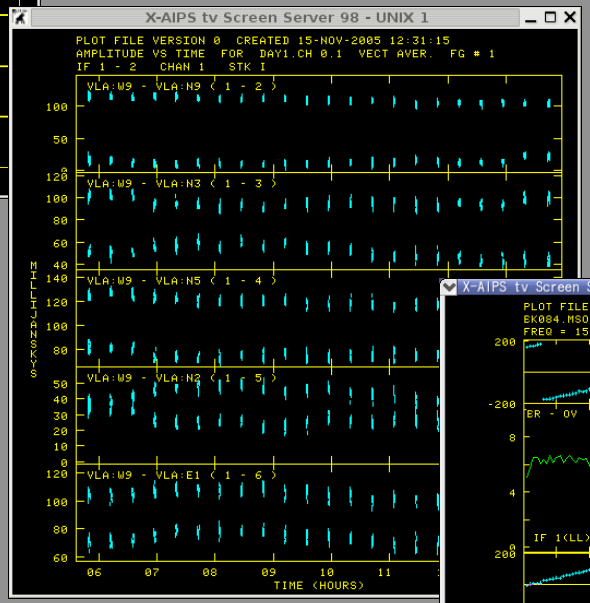
visibilities
image plane
calibration information

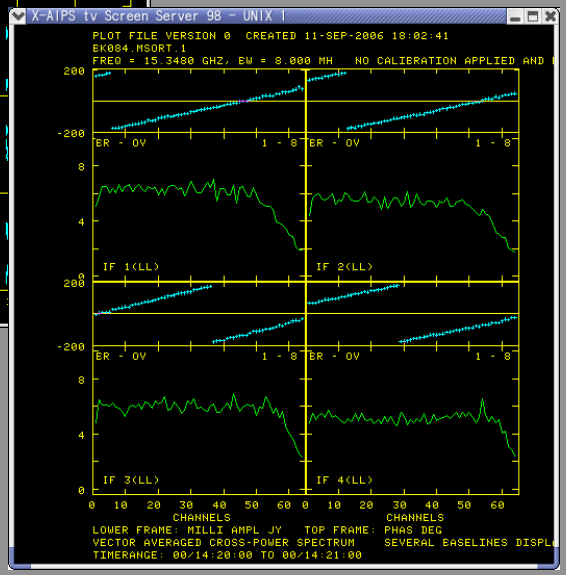
pre processing



Meta data versus time [Tsys, Ionosphere]

Data versus time [amp]

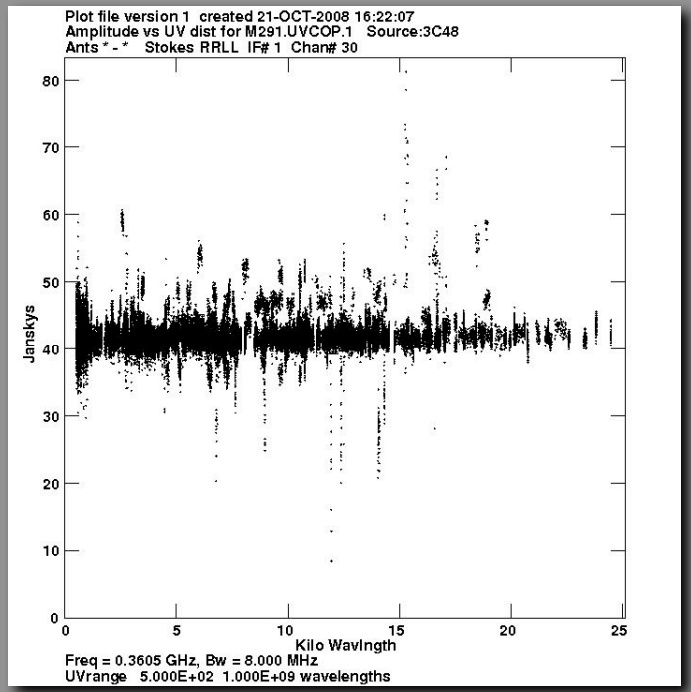


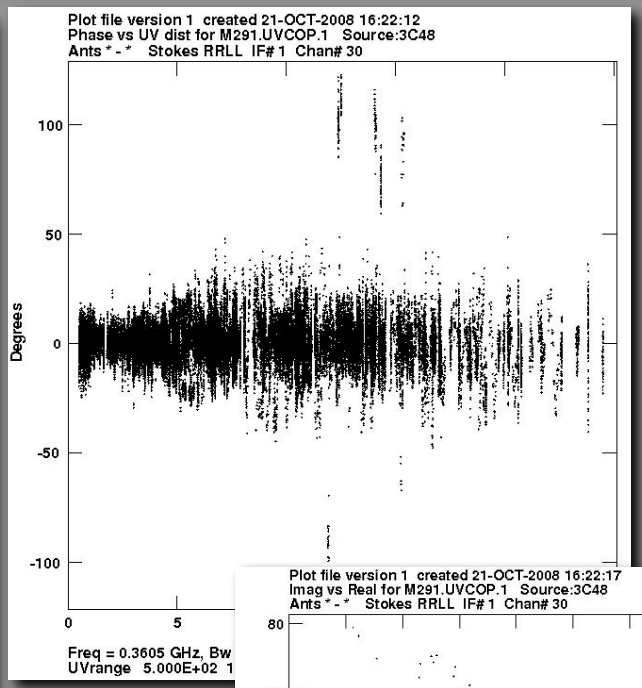


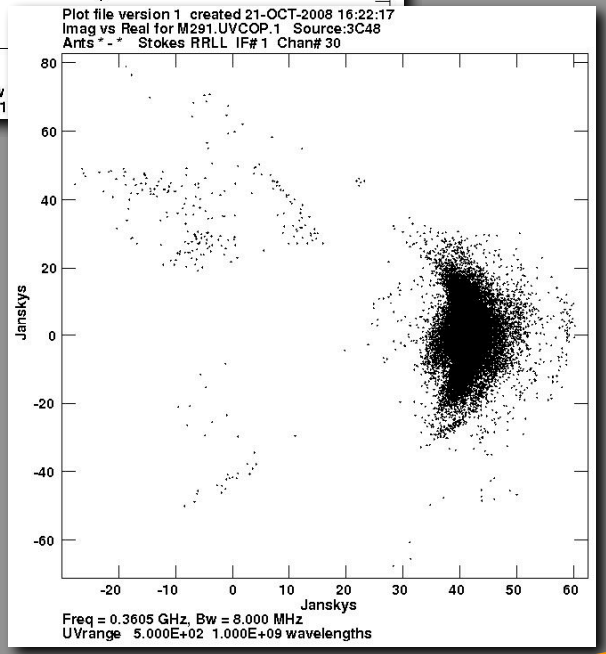
tvflg,
spflg, …

Integrated spectrum

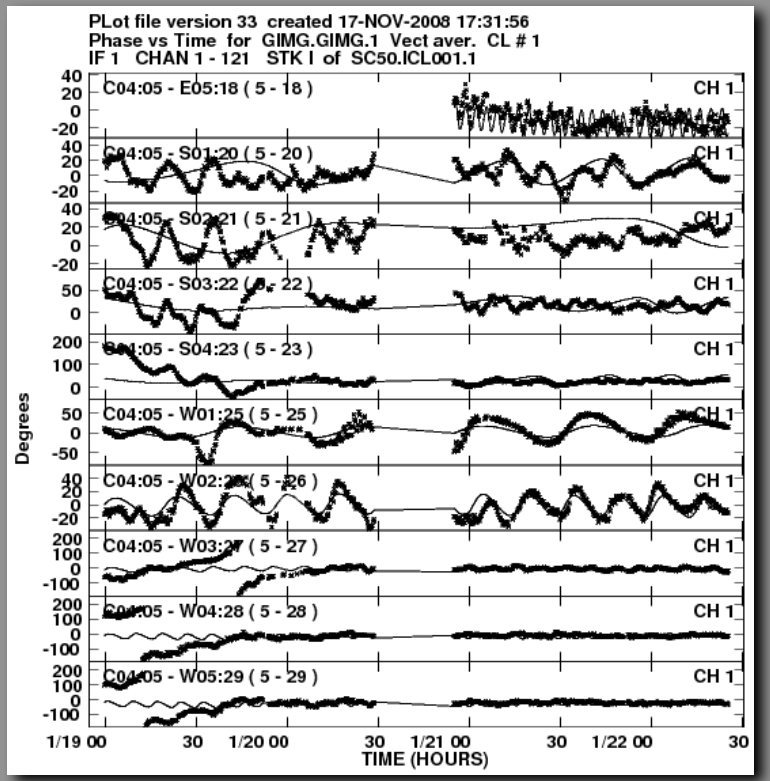
Post processing

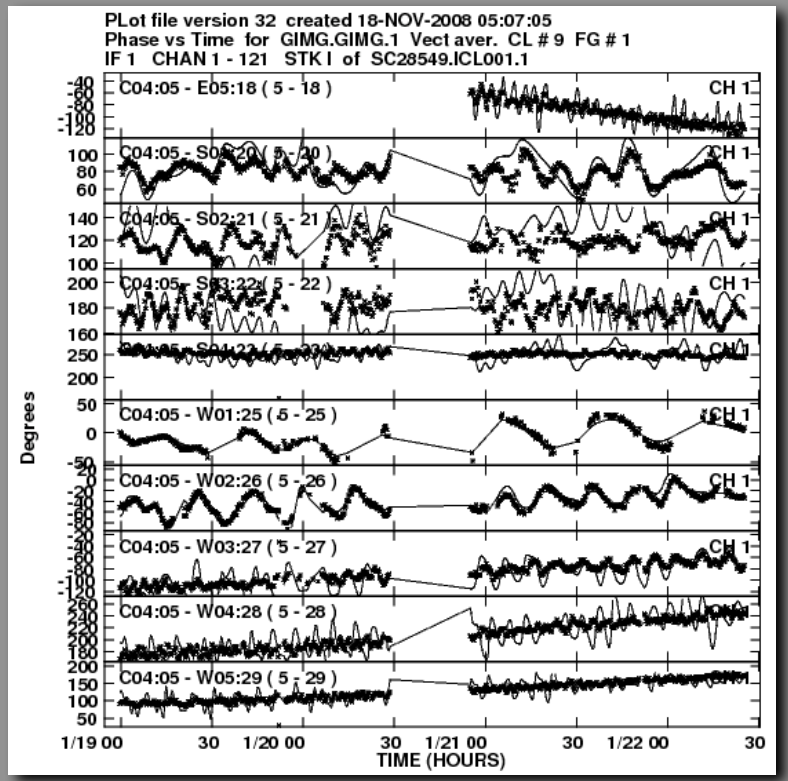






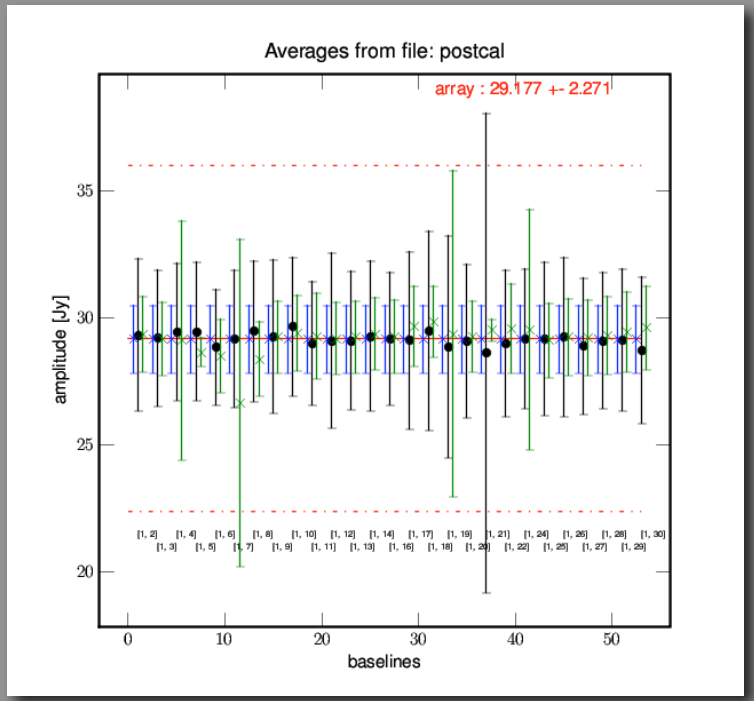
Sky model and visibilities

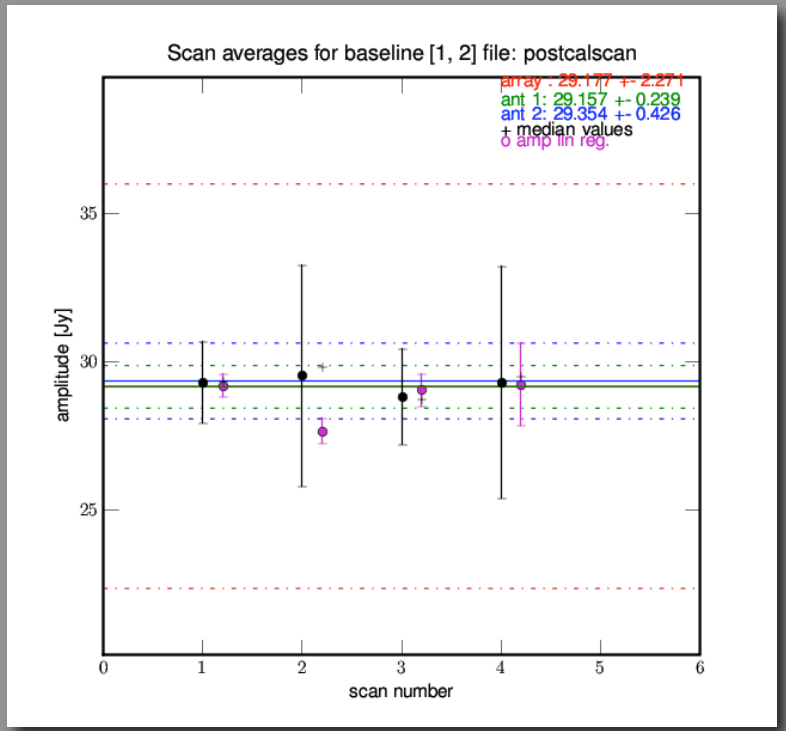


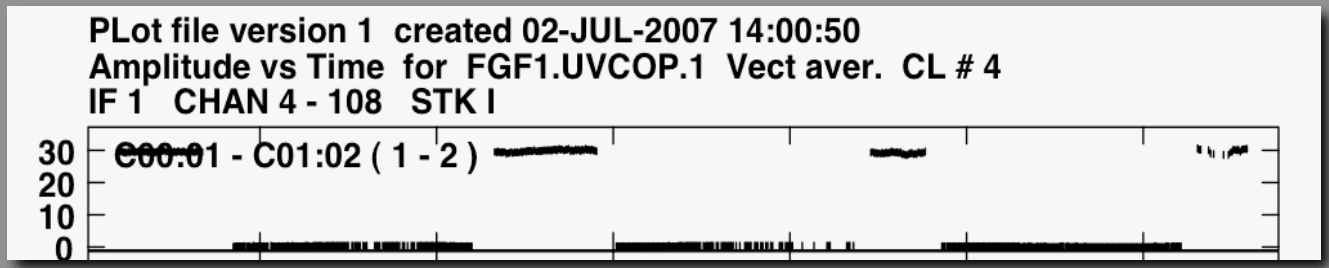


Data properties outside AIPS

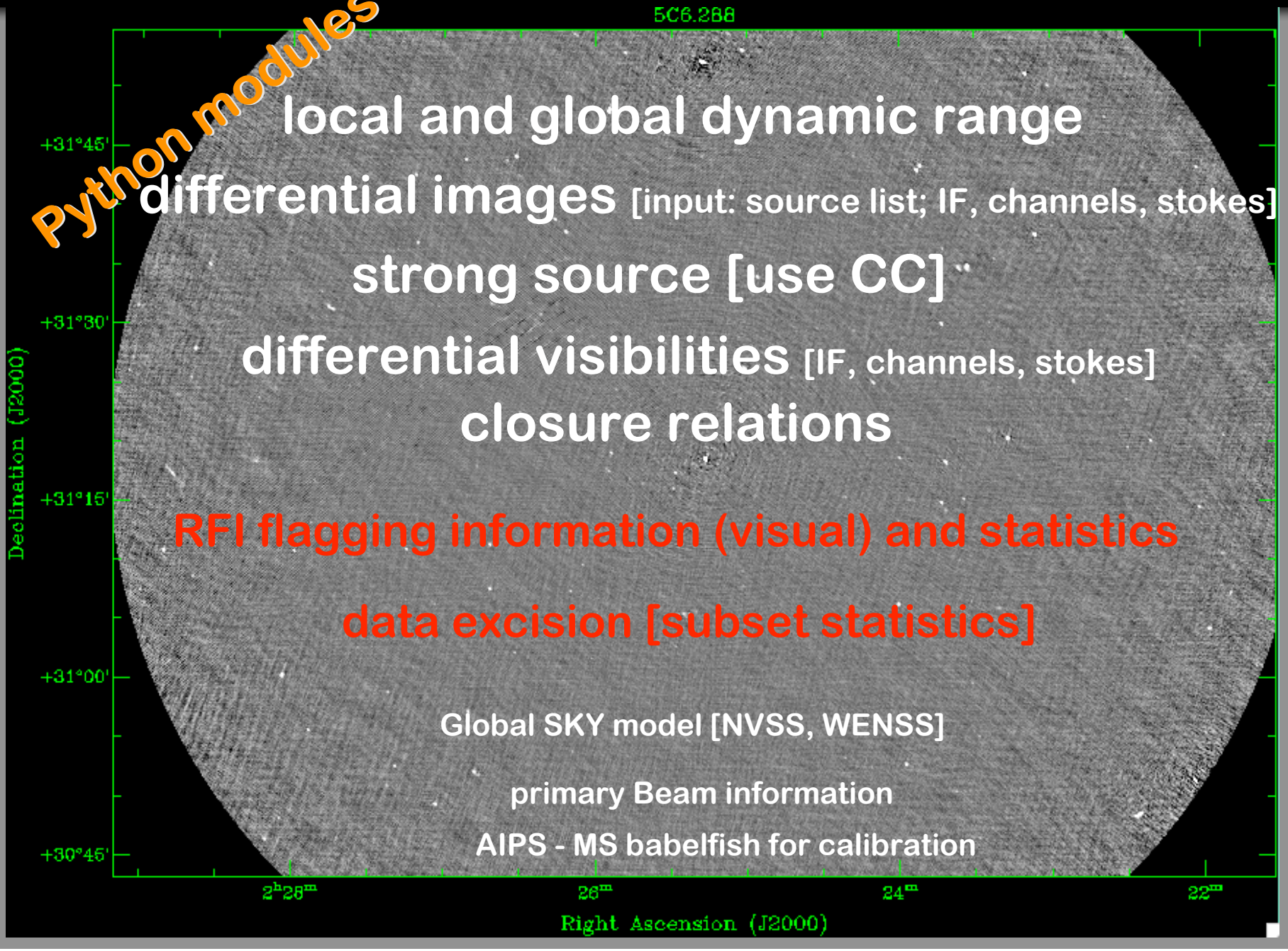
Telescope
Baseline
Scan







aims



Python modules

local and global dynamic range

differential images [input: source list; IF, channels, stokes]

strong source [use CC]

differential visibilities [IF, channels, stokes]

closure relations

RFI flagging information (visual) and statistics

data excision [subset statistics]

Global SKY model [NVSS, WENSS]

primary Beam information

AIPS - MS babelfish for calibration