

**CASA
VLBI**

WORKSHOP 2020

2-6 NOVEMBER 2020

7. JUPYTER NOTEBOOKS AND THE EVN PIPELINE

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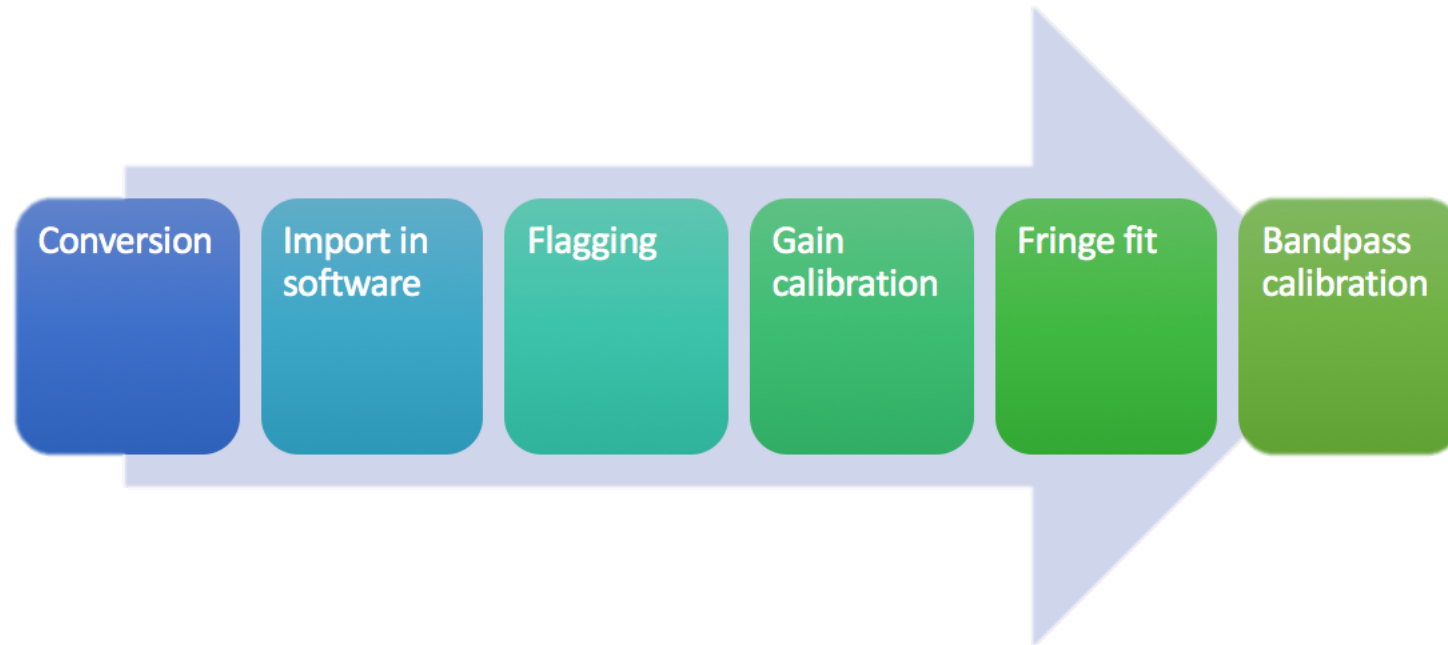
European VLBI Network



Image by Paul Boven (boven@jive.eu). Satellite image: Blue Marble Next Generation, courtesy of Nasa Visible Earth (visibleearth.nasa.gov).



EVN pipeline



Jupyter Notebooks

- Pipeline implemented in a notebook
- Explanatory text
- Can be easily converted to python script
- Version control
- Quality control and data processing in one

Jupyter CASA notebook

- Container: Docker or singularity
- All in one
 - CASA 5.6 & associated python version
 - VLBI-scripts
 - Python libraries
 - Can add any additional tools
- Never make the same typo twice again
- No need to bother with path settings



The EVN pipeline

[Flowchart](#)

CASA5 – python2 based

Transition to CASA6 - python3 later this year

(from here go to live demo of JIVE/EVN archive and notebook)





WARNING!!!



- applycal will flag data without calibration
- when re-starting ALWAYS restore your flag
(flagmanager)

Just to view

[Notebook viewer](#)

[N14C3 tutorial viewer](#)



Quiz!

sli.do event code: M496



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