

Karabo Update

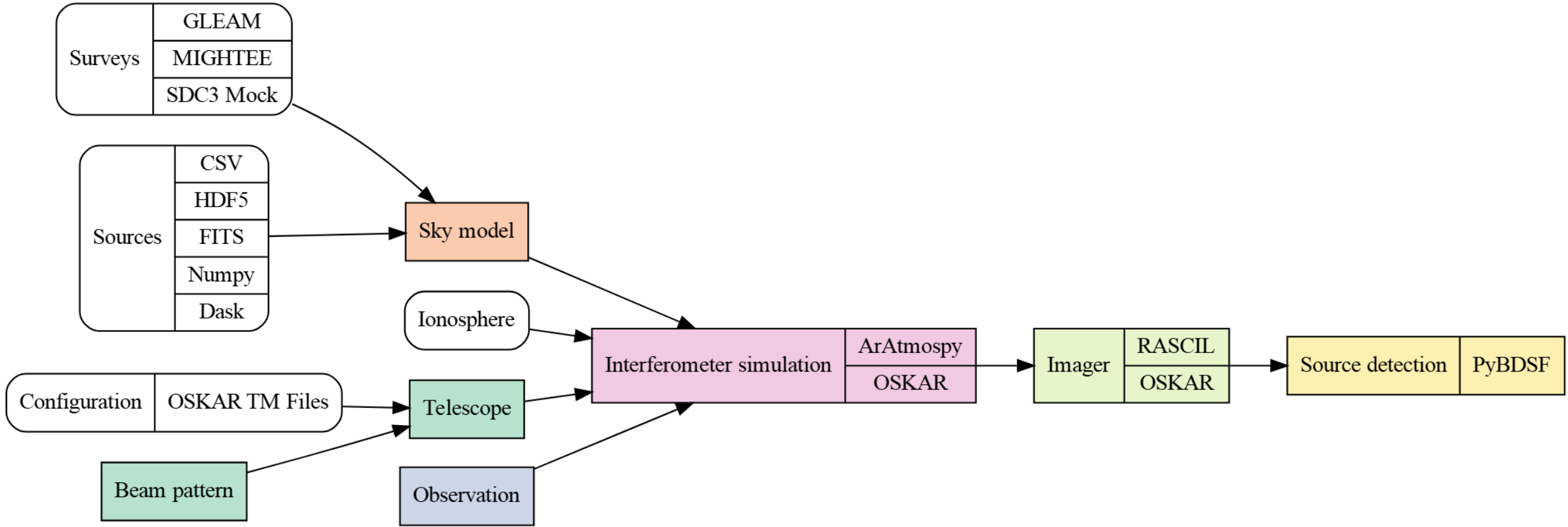
SKA Digital Twin Pipeline

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SKACH Winter Meeting
January 27th 2025



University of Applied Sciences and Arts Northwestern Switzerland
School of Computer Science

Karabo Architecture



Updates

- Support for IVOA ObsCore & RUCIO metadata
- Added more telescope configurations (SKA, ALMA cycles 9-11)
- Default to CASA Measurement Sets
- Improved documentation
- Better telescope handling in Oskar vs. RASCIL
- Collaboration with SKAO operation scientists

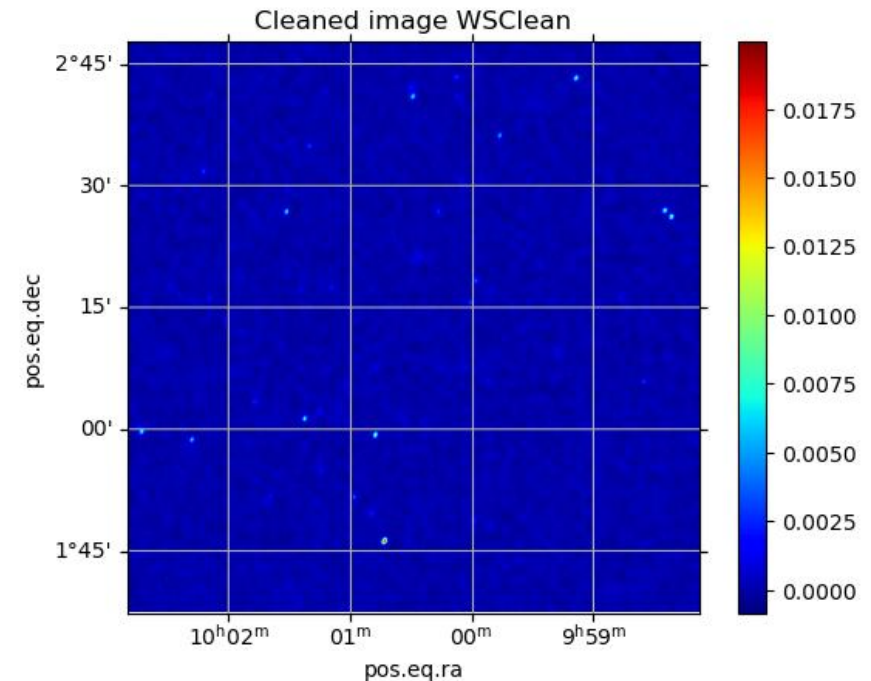
→ Generated test data for SRCnet

Ran on PizDaint @ CSCS

Code in examples/SRCNet_v0.1_simulation.py*

Simulated with AA SKA-MID AA* and MeerKAT*

3+ TB Available in the SwissSRC



Outlook

- Upgrade to Python 3.10 & libraries
- Integration of Chris Finlay's RFlsim
- Better support for non-gaussian beams
- Integration of casacore
- Publication on the finish line

- Future of RASCIL is unclear

