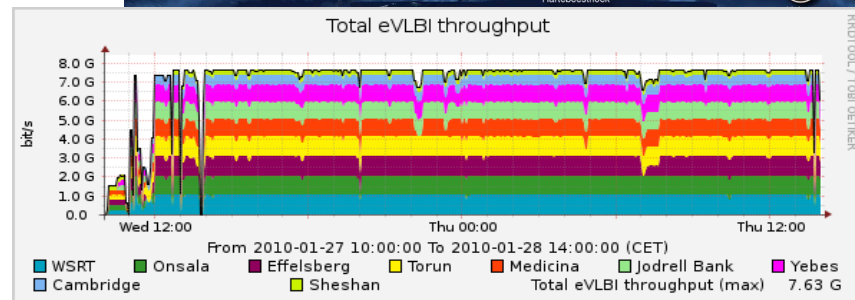
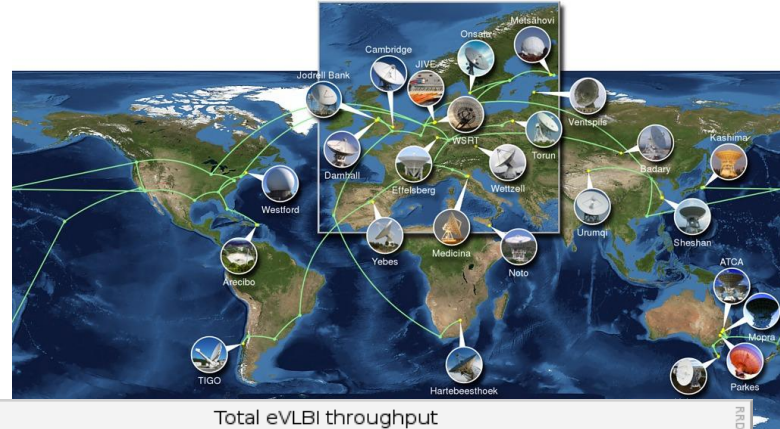


PrepSKA Program Work

- e-VLBI R+D (EXPREs and NEXPREs)
- Next-generation VLBI correlator (UniBoard)
- Development science case (real-time VLBI)
- SKA simulations (SKADS)
- Space science applications for SKA
- User/student training (PATH2SKA?)
- Administration and management (ESKAC)
- User software and algorithms (ALBiUS)



Accomplishments

- Establishment of operational global e-VLBI
- Development of a generic, multi-purpose, scalable high-performance computing platform for radio astronomy
- Refinement of radio-interferometric techniques for space sciences



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The UniBoard

- Generic HPC platform
- several Tflops, 160 Gbps I/O
- JRA in RadioNet FP7, several international partners, several different board personalities (VLBI correlator, Apertif correlator + beamformer, digital receiver, pulsar binning machine/RFI mitigation)
- Suitability for SKA, scalability
- Correlator power budget
- Suitability of specific hardware (number of DSPs, logic, memory)
- Computing demands imposed by different telescope configurations and implications for hardware

