

COBALT

AST(RON

Project Update



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General



- Project (mostly) within time and budget
 - 1 month delay compared to original schedule
 - 2 features will slip into early 2014
- Hardware rolled-out
 - Initial performance tests indicate it will meet the requirements
- Network upgrade: finished end of September
 - BG/P and COBALT connected to all stations and CEP2
- Commissioning Plan available
- http://www.lofar.org/wiki/doku.php?id=cobalt:start





Functional Software



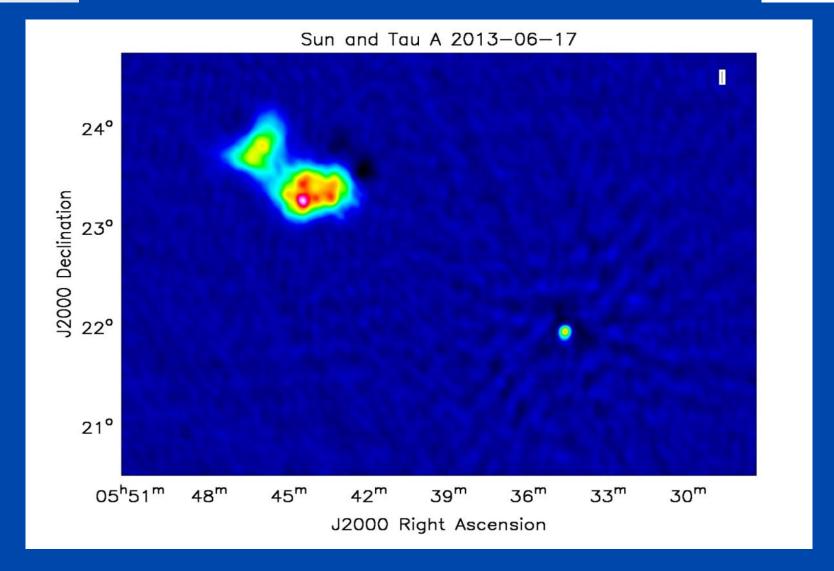
- Planning / timeline updated
 - 'Coherent de-dispersion' and 'Combined imaging & pulsar observations' slip into next year
- Correlator
 - Software ready for commissioning
 - Performance tests indicate 80 stations can be handled
- Beamformer
 - New design of pipeline
 - Implementation is ongoing
 - Initial performance tests indicate requirements will be met (but benchmark cases need to be detailed)
- Fly's eye mode
 - No significant extra work





First functional test (on DAS4) June 2013









Integration in Observatory



- Correlator Pipeline software rolled-out on September 30
 - Available for full system testing / commissioning
- Beamformer Pipeline
 - Coherent Stokes: planned for Oct 31
 - Incoherent Stokes: planned for Nov 30
 - Fly's Eye: planned for Dec 15
 - Note: on these dates commissioning can start





Hardware



- Scenario 1 Hardware
 - 8+1 nodes
- Certification to be done







Network



- Upgrade finished end of September
- BG/P and Cobalt both connected to all stations and CEP2
- Currently tracking down the last issues
- Observations using BG/P have started again





Upgraded network





Remaining Timeline



Date	Activity	Deliverable
September	Network reconfiguration	
End of September	Integrated Correlator pipeline	
September -> Early October	If needed: Scaling up to larger system	
Oct./ Nov.	Full system tests (incl. Observatory) / Commissioning	
30 November	Integrated Beamforming Pipeline	
End of November	Operational Readiness Review	
15 December	Integrated Fly's Eye mode	
31 December	Cobalt replaces BG/P as production system	
Q1 2014	Coherent de-dispersion Parallel observations (Imaging + Pulsar) Performance scaling (if needed) Removing old hardware	





Questions?

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