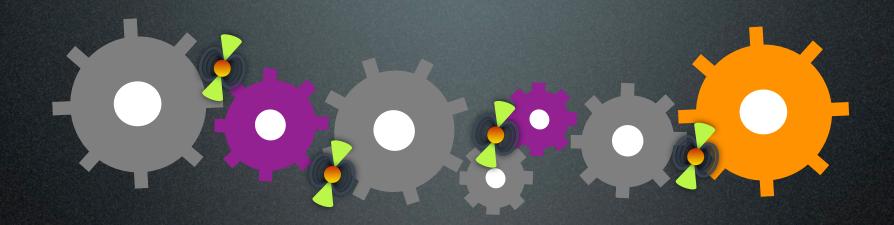
Pulsar Busy Week 10: A Quick Summary



Jason Hessels

on behalf of

Ken Anderson, Aris Noutsos, Aris Karastergiou, Ben Stappers, Anastasia Alexov, Vlad Kondratiev, Tom Hassall, Thijs Coenen, Sander ter Veen, Joeri van Leeuwen, Ashish Asgekar, Richard Fallows, and Jan David Mol





Pulsar Busy Week 10

- Aris K.: Effelsberg/Chilbolton single station observations
- Anastasia: Pipeline and MoM interaction
- Aris N.: Coherent dedispersion, pol., and voltage data
- Jason: Coordination, observing and analysis
- Joeri: Reference paper edits.
- Thijs, Vlad: Search pipeline
- Tom: Scattering data, analysis and pipeline support
- Ashish: beam-formed cookbook
- Jan David: online pipeline development
- Ken: pipeline framework
- Sander: triggerring, data format support
- Richard: Solar observations and processing
- Ben: Reference paper, installing pipeline on Hydra (Manchester)



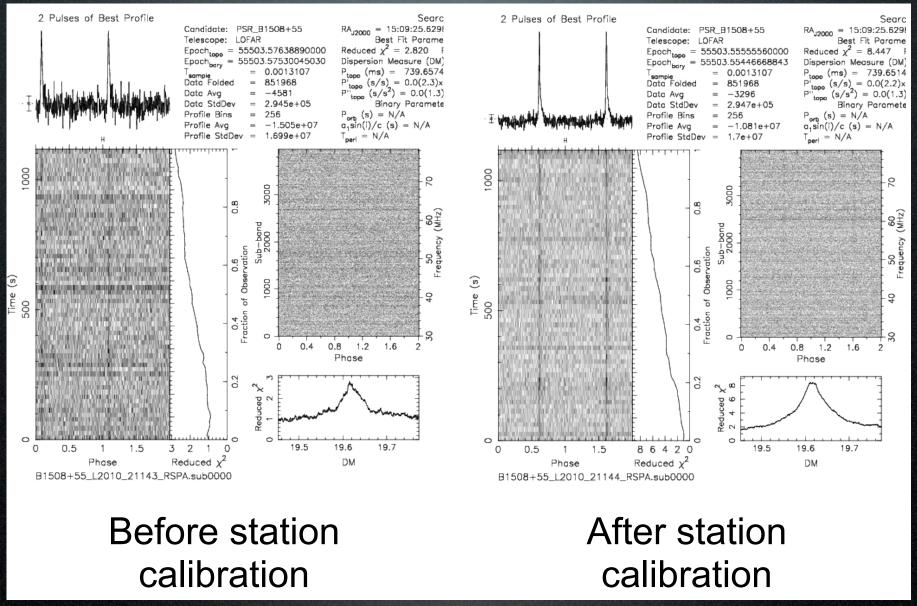


Pulsar Busy Week 10

- LBA Station Calibration and related results
- LBA tracking issues or something else?
- Pulsar Survey Pipeline



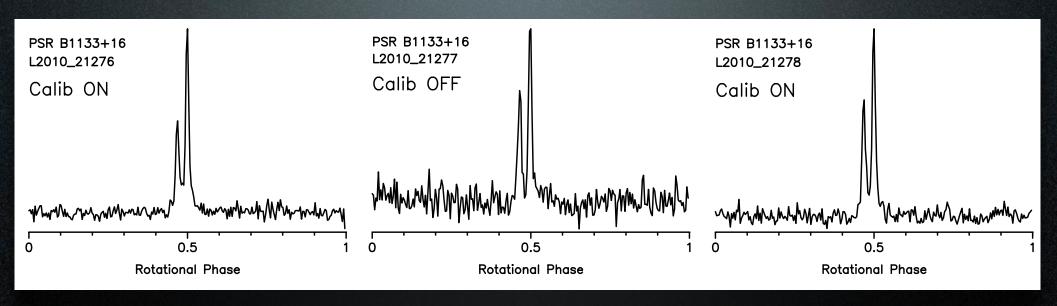




Consecutive obs., roughly a factor of 3 increase in SNR! 5 stations summed: CS007,024,030,032,RS106





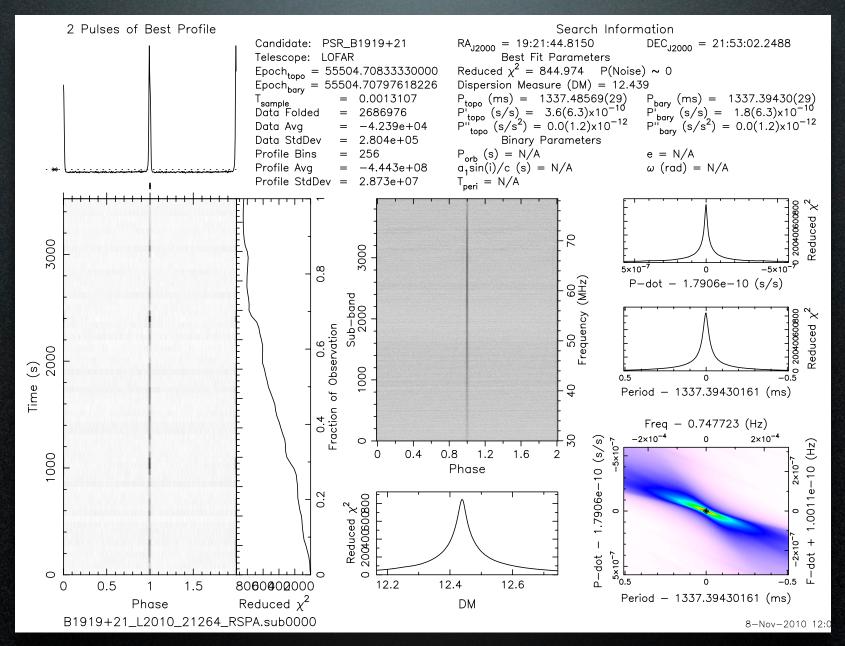


Again, consecutive observations Roughly a factor of 3 increase in SNR!

5 stations summed: CS007,024,030,032,RS106



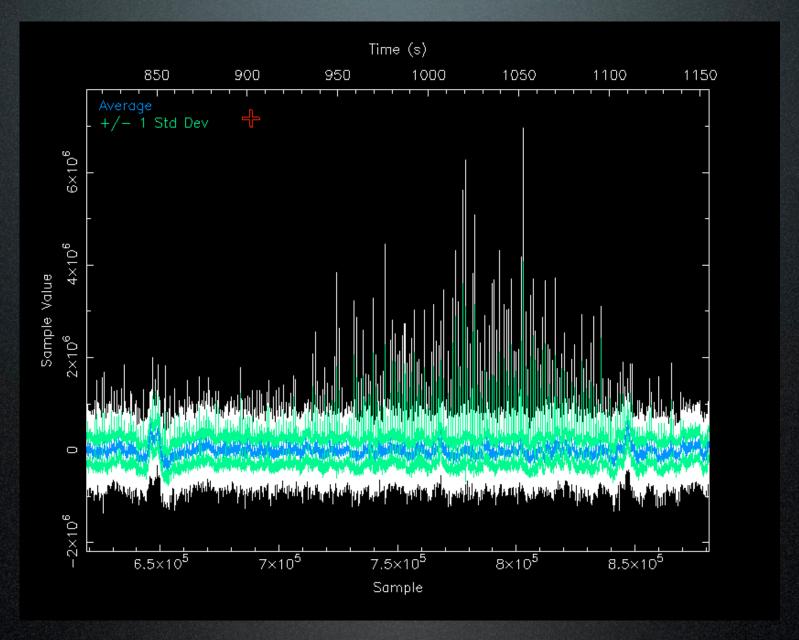




All-time best LBA detection of any PSR - Next try at 10-30MHz!







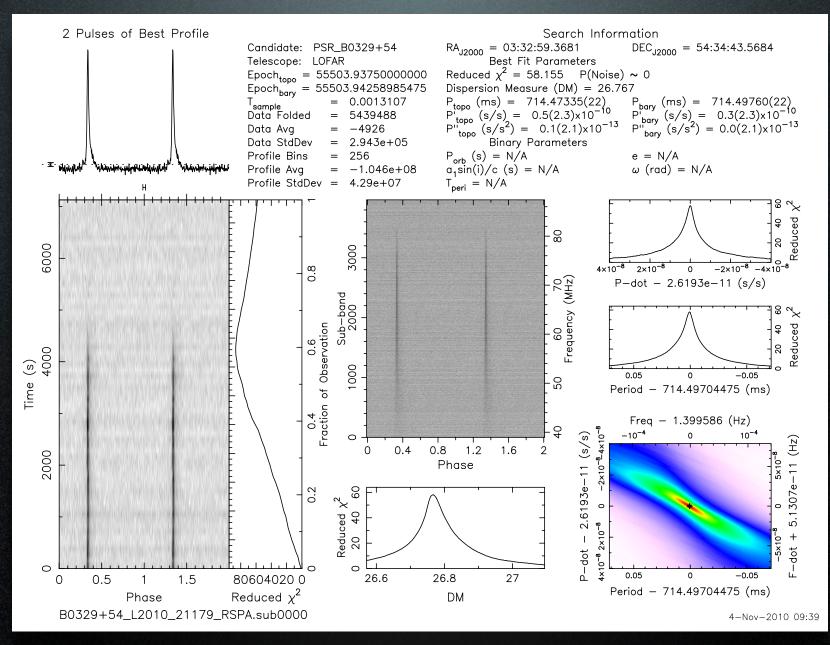
Periods with bright single pulses.





These data with new Beam Server

Transit



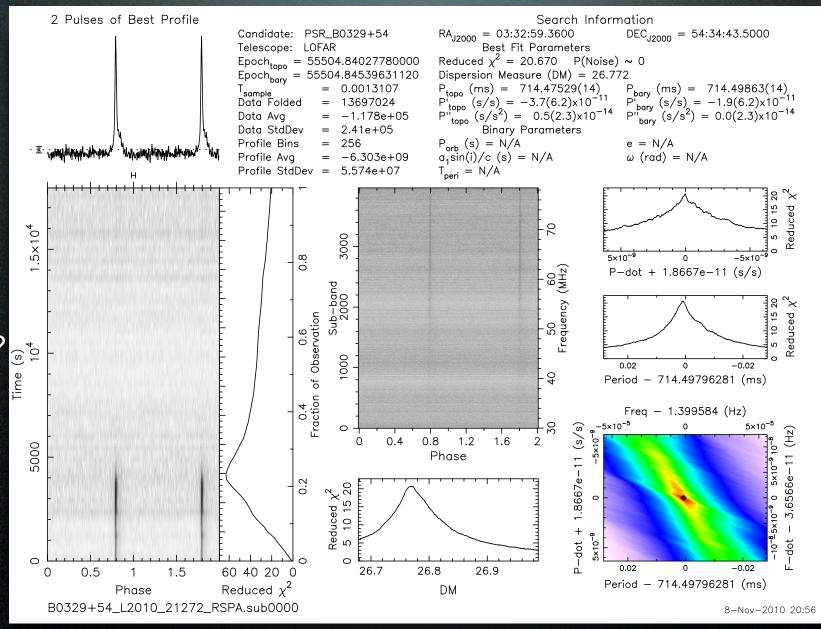
Still some weird issues however (also saw with old BeamServer)





These data with new Beam Server

Transit??

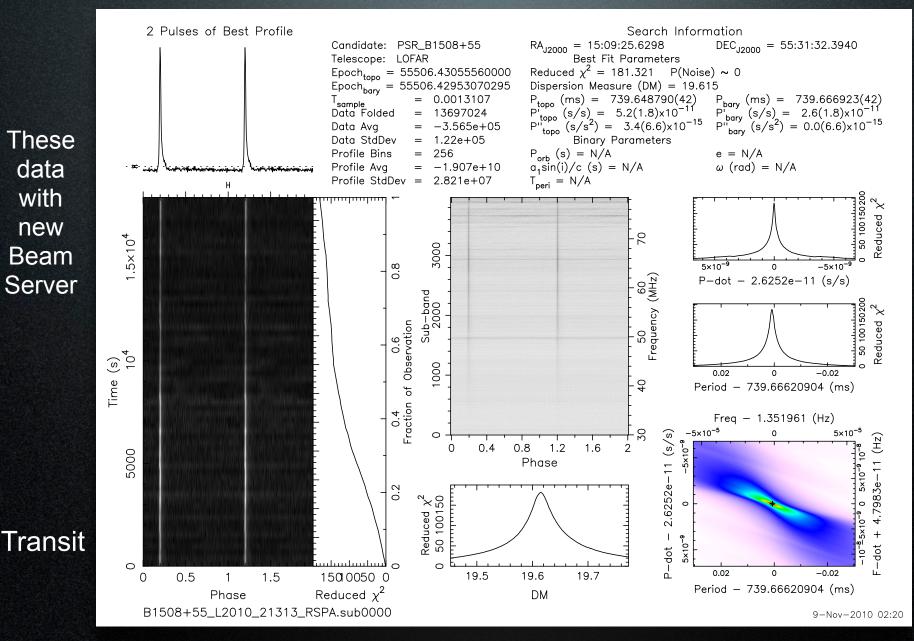


Again disappears after ~5000s AND well before transit?!





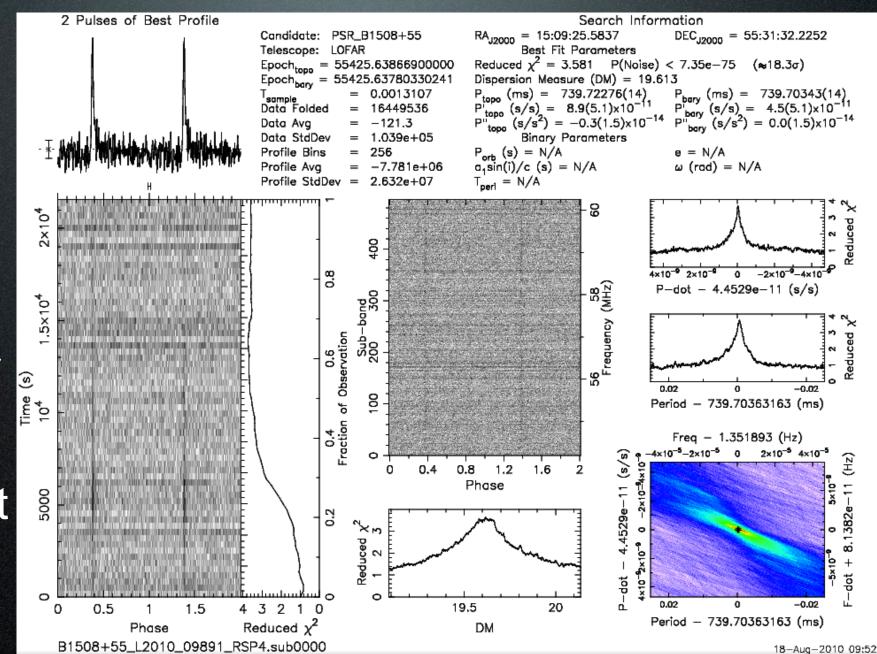
These data with new Beam Server



This observation looks fine however.







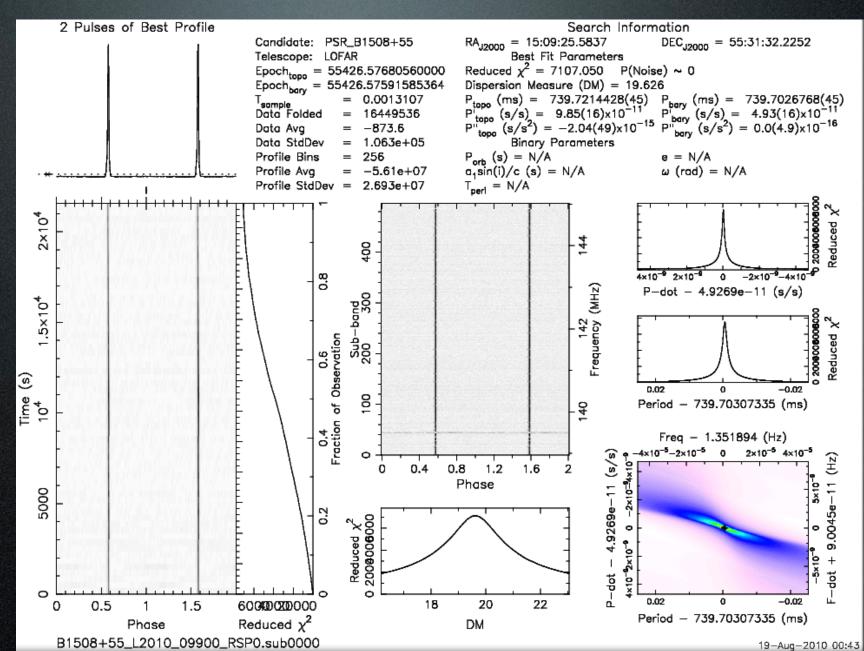
These data with old BeamServer

Transit





HBA tracking is fine



These data with old BeamServer

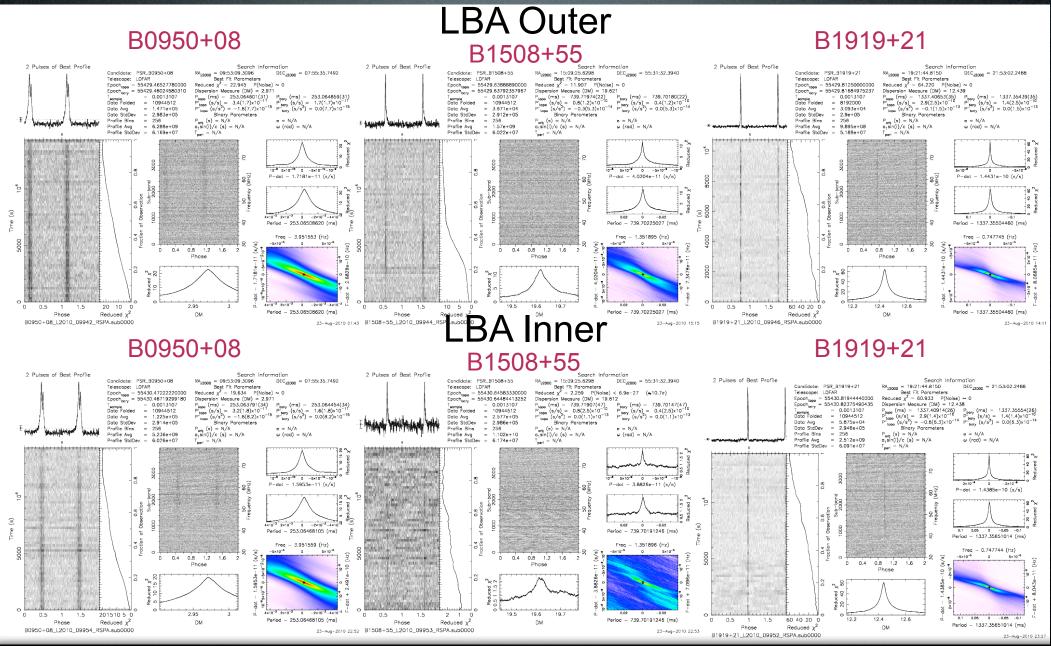
Transit





These data with old BeamServer

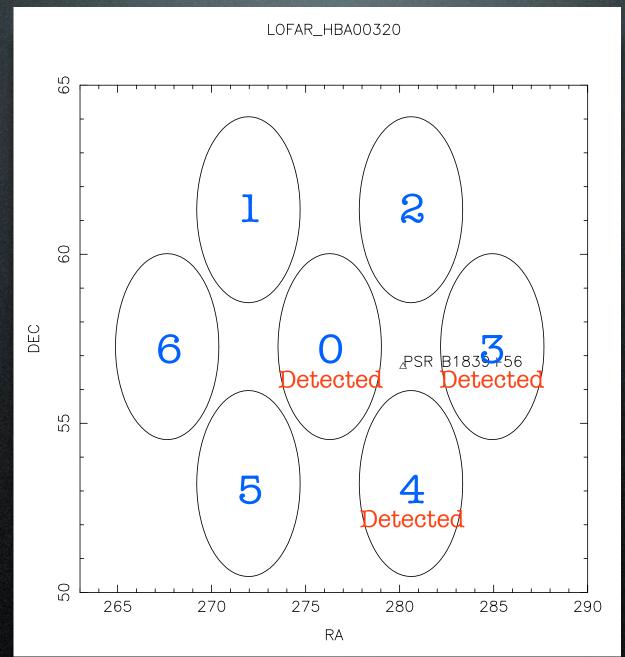
LBA tracking issues or something else?







Pulsar Survey Pipeline

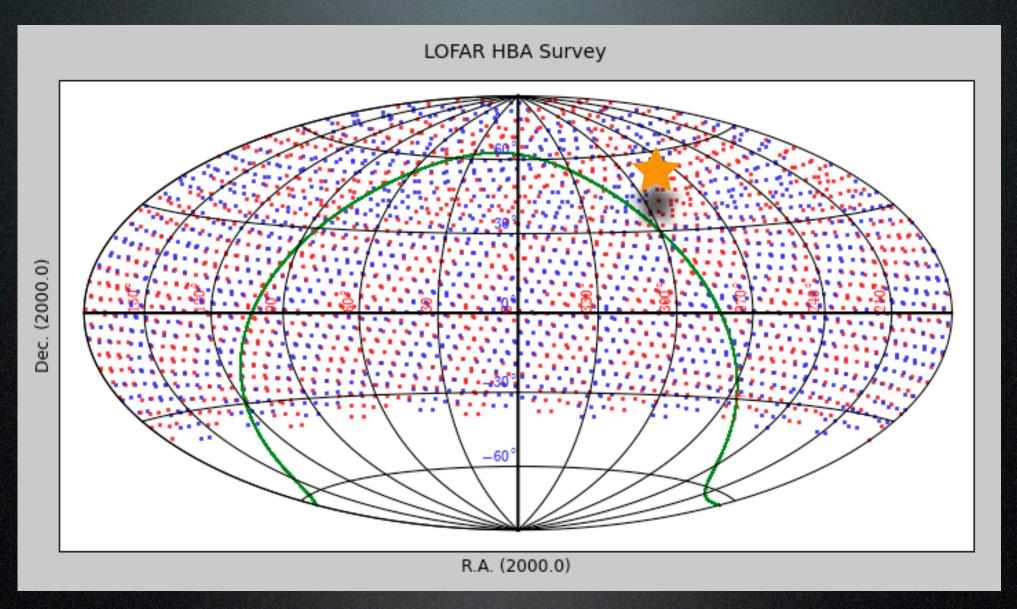


7-beam HBA grid covers 166 sq deg!!!

NB: beams are 2x wider than shown here.



Pulsar Survey Pipeline



~400 7-beam pointings > -35 deg DEC





Pulsar Survey Pipeline

