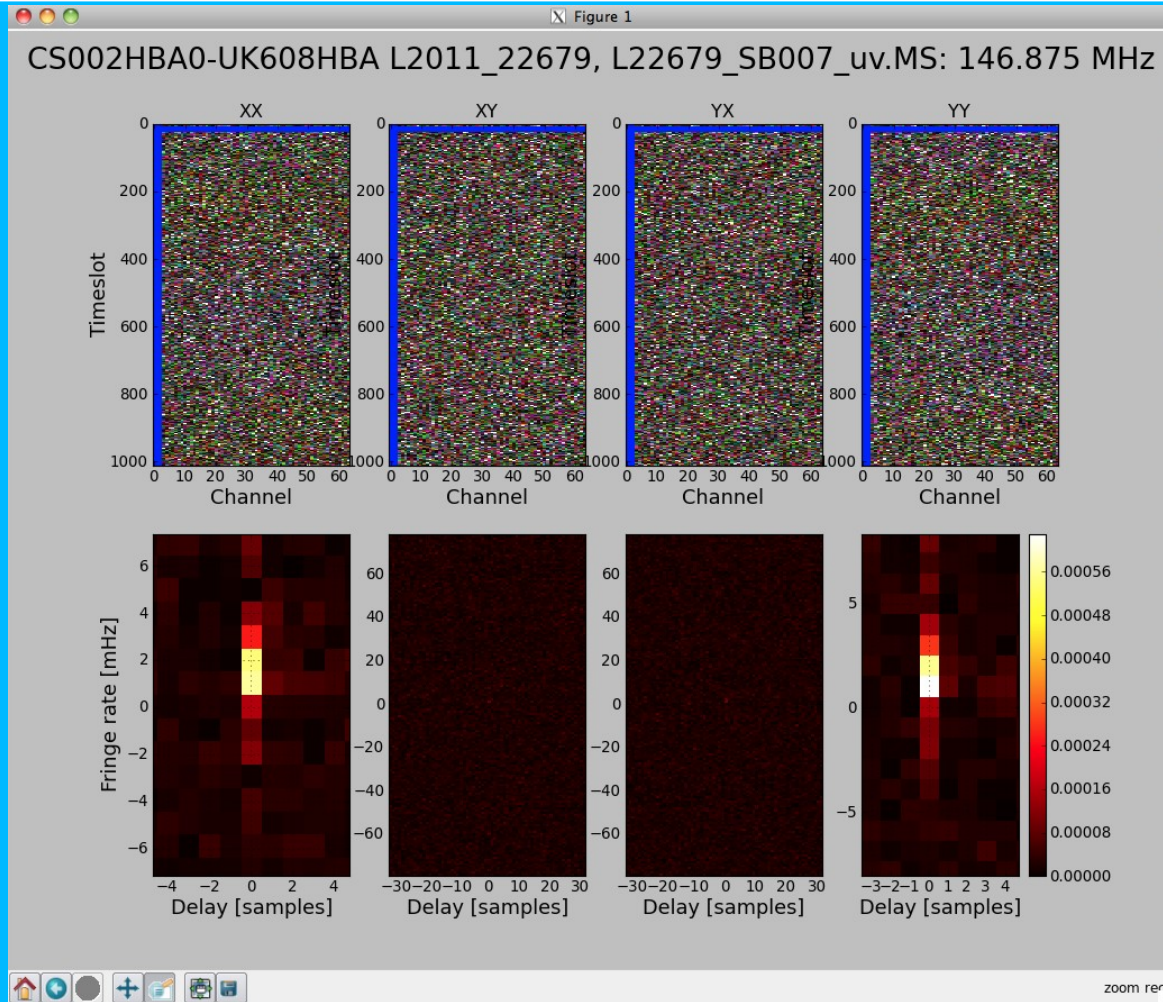


Radio Observatory Report

Fringes to UK608/Chilbolton



Strong S/N ratio detection in baselines between superterp stations and UK608 (L2011_22679).

10 beamlets tested

Will continue testing with other international stations.

Check the live demonstration of fringes at the AAS (courtesy of J. Van Leeuwen et al): <http://www.youtube.com/watch?v=WEp82nokhQI>

Observations

- Saturn lightning observations
- LEA128 observations
- A-team LBA observations (Cyg A, Cas A, Tau A, Vir A)
- LEA102: Moon observations
- Pulsar observations
- LEA052: A2256 LBA observations

RFIConsole ran on storage nodes for most observations, further pipeline processing on the offline cluster.

CEP Phase II Cluster

Major Milestones:

- **Hardware Installation and configuration:** January-February
 - Should have limited impact on operations
 - Require one stopday (Monday) per week for tests and integration (scheduled from the 6 days earlier)
- **Observations and Operations processing Migration:** March
 - March may see a significant reduction in scientific operations to facilitate the migration.
- **Operational use:** April
 - (Parts of) Phase I cluster will be reused

Error in COMPLEX VOLTAGE DATA

Affecting the Tied Array beamformed Raw Voltage data format taken since 20 Sept 2010.

- Data are separated in files per (pencil) beam and polarisation.
- Each file has datablocks of approximately 1 second.
- Each block has 3 axes: Time, Subbands and Channels.

There was a transpose between the Time and Channel axis, while keeping the dimensions the same. As the subband axis was the middle axis this gave a rather strange ordering of the data.

More information from J-D Mol (mol@astron.nl)

Results of CEP Stopday - Jan 3

The BlueGene has received a new SAN storage device.
The BGP diagnostic showed no errors.

LSE019 passed all diagnostic tests last week and was brought on-line.

LSE014 is being diagnostic-tested due to several crashes.

LSE017 received a new disk.

Update:

LSE020 Broken, under investigation

Stopday MONDAY JAN 17 !!!!

A reconfiguration of the network.

IP names for all stations will change

Moving towards a new network reconfiguration.

The current connection scheme was designed more than 2 years ago with very limited information. In the meantime:

- More core stations than planned we built.
- Transporting up to 3 international stations per 10GbE link
- Some NL stations will not move their data through the concentrator node.

CALENDAR of requested busy weeks and other LOFAR activities



<http://www.astron.nl/radio-observatory/astronomers/commissioning/commisioning-plan>

- 17-21 January : Imaging Busy Week (Dwingeloo)
- 17 January : Stop-day to upgrade IP addresses
- 24-28 January : Pulsar Busy week

