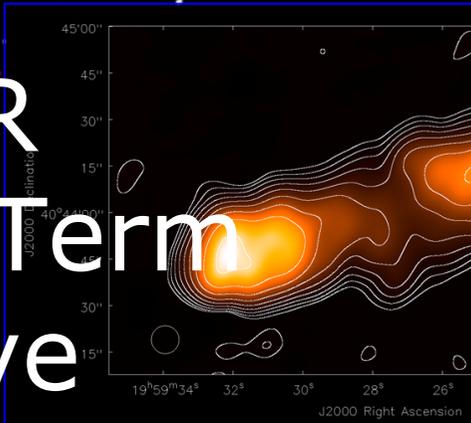


ASTRON

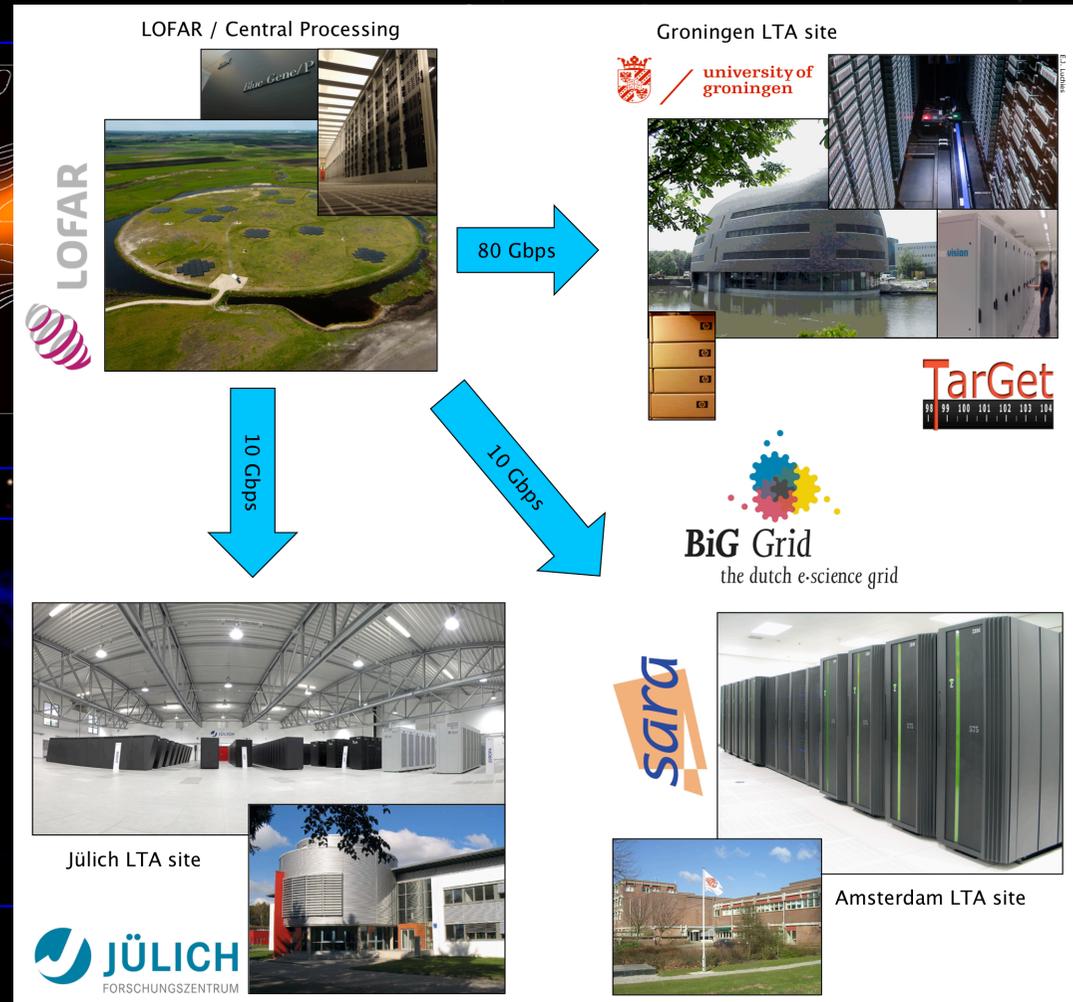


Netherlands Institute for Radio Astronomy

LOFAR Long Term Archive Status update



June 26, 2013



Data transfers



(Ingested last month

(SARA: 212 TB, FZJ: 248 TB

(EOR transfers

(TARGET: ~150 TB

(Data staged by users

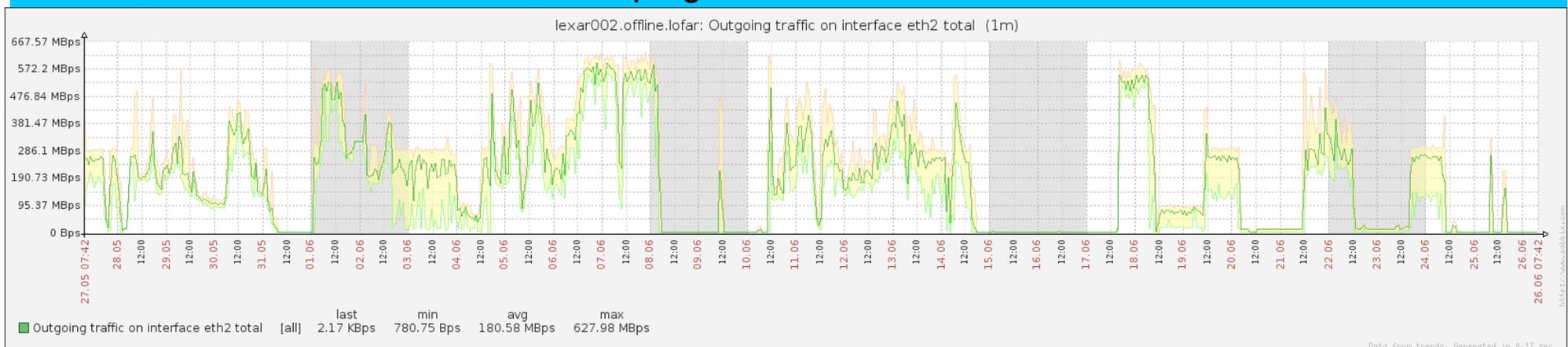
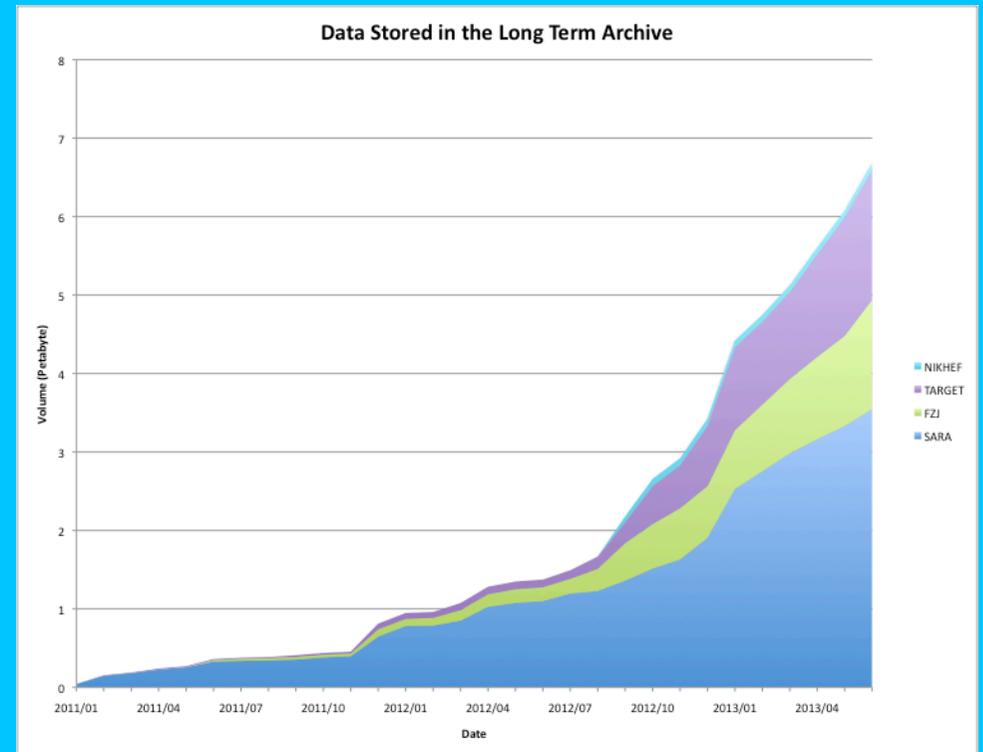
(74 TB

(LTA data growth first half 2013

(~500 TB/month

(Main issue: non unique ID's from MoM

(Understood & monitored, fix in progress



(**TARGET**

- (Migration to tape functional: Migrated ~450 TB so far (mostly EOR)
- (~ 1.2 PB on disk
- (Testing migration policies
- (Integration HSM (tape) with SRM in progress

(**Functionality**

- (Generic dataproduct ingest (incomplete metadata)
 - (testing & waiting for MoM update (planned for next week)
- (Calibrated visibilities idem
- (Webinterface
 - (Query pipelines for OBSID
 - (Ongoing enhancements

(**Software**

- (LOFAR Software 1.14 built (RUG, SARA, FZJ)
- (Effort to run LOFAR pipelines at FZJ ongoing

LTA Data Staging

(LTA bulk storage provided by tape

- (More cost effective than disk
- (However: tape drives are relatively expensive
 - (Sites will attempt to minimize number of drives for expected use
 - (Drives are shared between user groups
 - (Drives handle both read and write requests

(Disks can be a scarce resource as well

- (Storing newly ingested 'precious' data and (user requested) staged data
- (FZJ: currently < 100 TB disk (200 – 250 TB ingested each month)
 - (will double coming month

(Consequently

- (Staging a single file from tape may take hours
- (Staging terabytes of data from tape may take days
- (Newly ingested & staged data is on disk for at least ~week and up to a month.
 - (During this period (re-) staging is almost instantaneous!