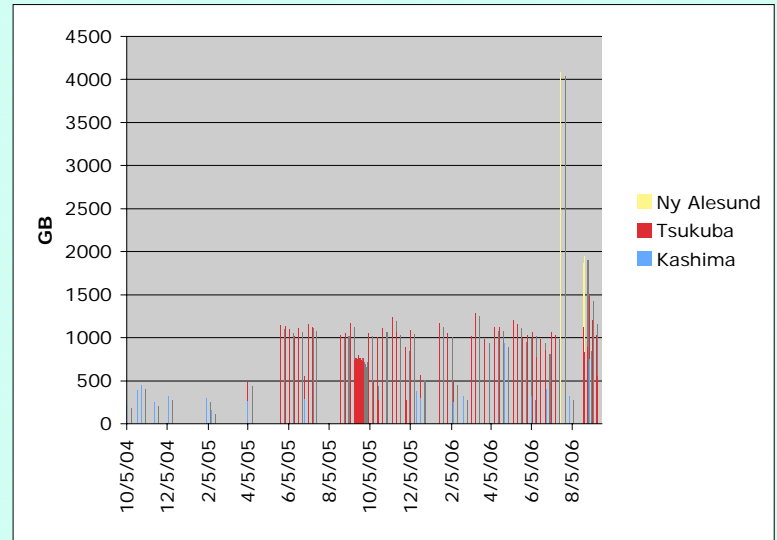


# e-VLBI Production at Haystack Observatory

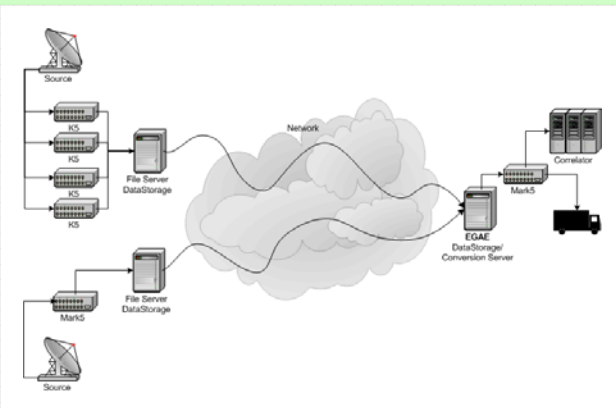
- Established in the winter of 2004, Haystack supported collaborated efforts with Kashima to transfer VLBI sessions via the network.
- Initial sessions from the 34m at Kashima averaged 1 to 2 transfers and 375GB of data a month
- Summer of 2005, Tsukuba 32m was added to production at Haystack
- About 21000GB of data transferred to Haystack during Tsukuba's participation of Cont05
- Today production averages 1 to 2 transfers a week, about 3500GB of data a month from the Kashima 34m and Tsukuba 32m antenna
- There are current collaborative efforts with members at Ny Alesund to support production e-VLBI
- Summer of 2006, Successful transfers from Ny Alesund to Haystack during an R&D session (4200GB).
- Future developments of EGAE and VSI-E will help support the growth of e-VLBI production

## e-VLBI Production Statistics

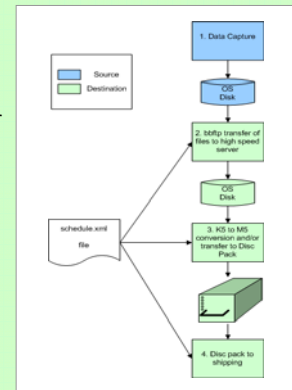


A historical statistic chart of e-VLBI production at Haystack Observatory. During the early stages of production there was an average of 375GB of data a month transferred to Haystack. Since then e-VLBI production has drastically increased and now has been averaging 3500GB of data a month!

## Overview of an eTransfer



- Data is recorded using the K5/mark5 system
- The data is transferred onto a file server
- Using EGAE the data is transferred through the network to the destination file server
- The data gets written onto the mark5 production system
- The module is then brought to the Correlator for processing



## The e-VLBI Production Facility

- High speed server for conversion and transfer of data
  - Dual 2.4 Ghz Xeon Dell PowerEdge 2600
- Three 1.0TB Lacie Bigger Extreme external firewire for temporary disk storage
- Mark5 system for the transfer of data from system disk to Mark5 disc pack.
- Network switches and connectivity
  - Dell PowerConnect 5224 Managed Ethernet Switch

The network cloud above simplifies what is a group of many organizations dedicated to network development and research. These collaborations are the core of successful e-VLBI production.

## The network

