

NORTHEAST RADIO OBSERVATORY CORPORATION  
HAYSTACK OBSERVATORY

27 February 1984

Minutes of VLBA Recorder/Acquisition group held 22 Feb 84 at 1400 EDT.

Attendees:

Marty Ewing - Caltech  
Larry D'Addario - NRAO  
Barry Clark  
Ray Escoffier  
Alan Rogers - Haystack  
Roger Cappallo  
John Webber

Most of the meeting was devoted to a discussion of the basic block diagram of the VLBA. The following options were discussed:

- 1) Variable phase sampling at the antennas
- 2) Fringe rotation at the antennas
- 3) Digital SSB mixing (using Hilbert transform filter) at the processor

These schemes are being analysed and several memos are expected shortly.

Some additional time was spent discussion the playback interface to the processor. Everyone seems to agree on the basic philosophy of using the following signals:

- 1) 16 Data to processor
- 2) 16 Validity to processor
- 3) Time reference (~ 1Hz) from processor
- 4) Clock (16 MHz) from processor
- 5) Serial communications 2 way

More detailed specifications have still to be discussed.