

NATIONAL RADIO ASTRONOMY OBSERVATORY  
Green Bank, West Virginia

March 17, 1983

VLBA Scientific Working Group  
Action Items, March 11 Meeting

1) Dual Frequency Operation. In addition to the 2.3/8.4 GHz dual frequency system, the feed ring layout should allow the following dual frequency operation with appropriate dichroic reflectors.

a) 5/22 GHz

b) 10/43 GHz

The primary motivation for this arrangement will be to allow simultaneous operation of frequency pairs which include the two shortest wavelengths in order to extend the coherence time at the shorter wavelength by tracking the phase of the longer wavelength fringes.

2) 5 GHz Frequency Range. The frequency band 4800 to 5100 should be covered with essentially optimum performance to allow effective joint use of the VLA and VLBA. If necessary, the 6.1 GHz can be compromised to achieve this goal.

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KIK/bbs