

# NRO 速報

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The 64m antenna at Usuda of ISAS (Institute of Space and Astronautical Sciences) has been used for communications with deep-space scientific spacecrafts only at S-band (2GHz-band).

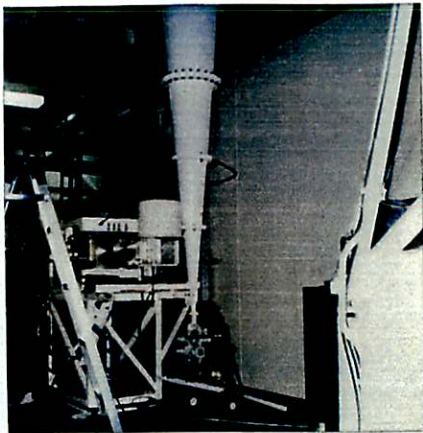
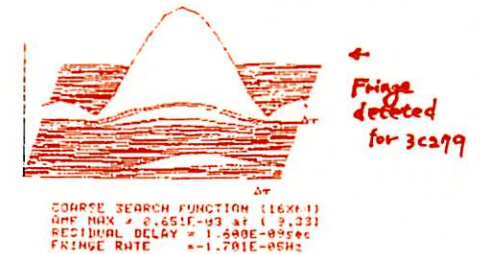
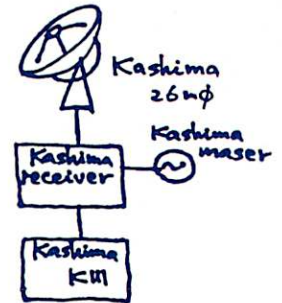
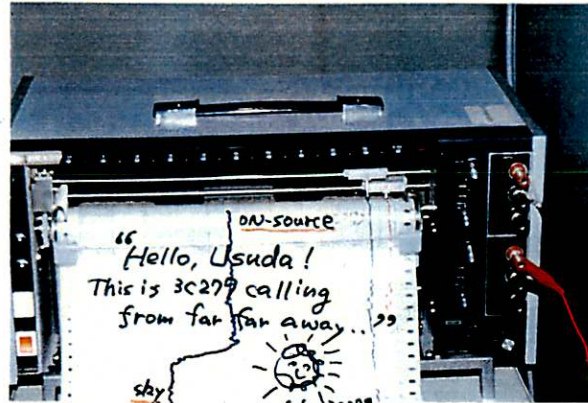
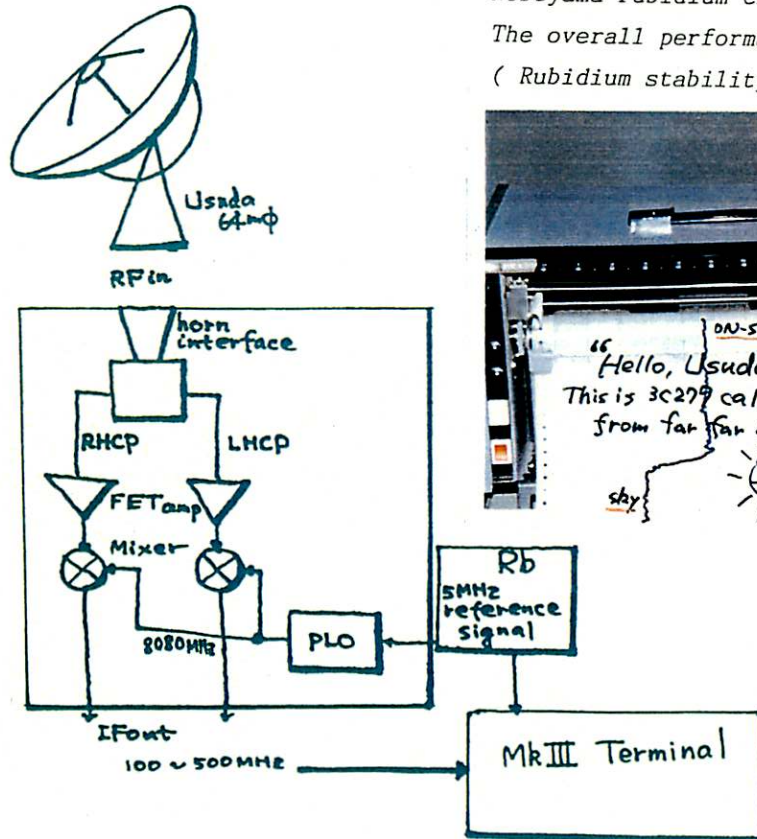
Three Big Events Took Place on July 14th, 1986 at Usuda.

I. The First Reception at X-band by 64m Antenna.

II. Nobeyama X-band Frontend Became On The Air.

III. Usuda-Kashima X-band Mk III VLBI Tried and Proved Successful.

The Nobeyama new X-band (8GHz-band) room temperature FET amplifier (about 300K) was tested attached to the 64m antenna to evaluate the receiver and the antenna performance. The results were fine, and Mk III VLBI fringe test was done combined with the Kashima 26m antenna for 3C279 using Nobeyama rubidium clock as time and frequency standards. The overall performance for the X-band VLBI was checked (Rubidium stability, sense of polarisation, .. etc.).



dual polarisation Nobeyama FET amplifier attached to 64m antenna.

On July 19 - 20th, VLBI mapping observation with global deep space networks for radio galaxy 2300-189 will be done at X-band using above, but with Nobeyama Mk II terminals.