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(Paper 69D12–591)

A Report of Measurements

D. Barber [1] and J. F. R. Gower [2]

Summary: The main results are values of the flux density for Jupiter at 610 Mc/s (normalized to 4.04 A.U.):

Flux density $= 6.6 \pm 0.3 \times 10^{-26}$ Wm^{-2} $(c/s)^{-1}$ at 610 Mc/s

Flux density $= 5.1 \pm 0.8 \times 10^{-26}$ Wm^{-2} $(c/s)^{-1}$ at 178 Mc/s.

[1] Royal Radar Establishment, Ministry of Aviation, Great Malvern, England.

[2] Mullard Radio Astronomy Observatory, Cavendish Laboratory, Cambridge, England.

(Paper 69D12–592)

The following will replace the paper "A Report of Measurements" on page 1563.

A Report of Measurements

D. Barber[1] and J. F. R. Gower[2]

Summary: Values for the flux density of Jupiter have been obtained simultaneously at 610 Mc/s and 178 Mc/s [Barber and Gower 1965[3]]:

S_{610} = average flux density = $6.6 \pm 0.3 \times 10^{-26}$ Wm^{-2} $(c/s)^{-1}$ at 610 Mc/s
S_{178} = average flux density = $5.1 \pm 0.8 \times 10^{-26}$ Wm^{-2} $(c/s)^{-1}$ at 178 Mc/s

These are the average values over all Jovian longitudes (and have been normalized to 4.04 A.U.). At 610 Mc/s, the variation of flux density with Jupiter's rotation, attributed to the beaming effect, could be picked out; and the flux density corresponding to zero planetocentric magnetic latitude of the Earth, that is, in the plane of Jupiter's magnetic equator, was determined [Barber 1966[4]]:

S^0_{610} = flux density for zero magnetic latitude = 7.05 ± 0.20 Wm^{-2} $(c/s)^{-1}$ at 610 Mc/s.

(Paper 69 D12–592)

[1] Royal Radar Establishment, Ministry of Aviation, Great Malvern, England.
[2] Mullard Radio Astronomy Observatory, Cavendish Laboratory, Cambridge, England.

[3] Barber, D., and Gower, J. F. R. (1965), The spectral index of the radiation from Jupiter between 178 and 610 megacycles/second, Planet Space Sci. **13**, 889–899.

[4] Barber, D. (1966), The polarisation, periodicity and angular diameter of the radiation from Jupiter at 610 Mc/s, Mon. Not. R.A.S., in press.