

# Early days of the WSRT

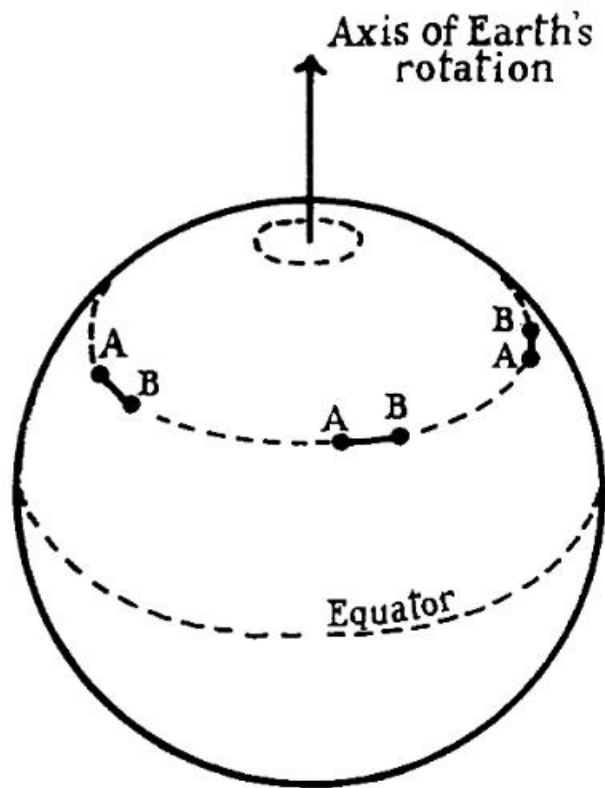
Wimsym77



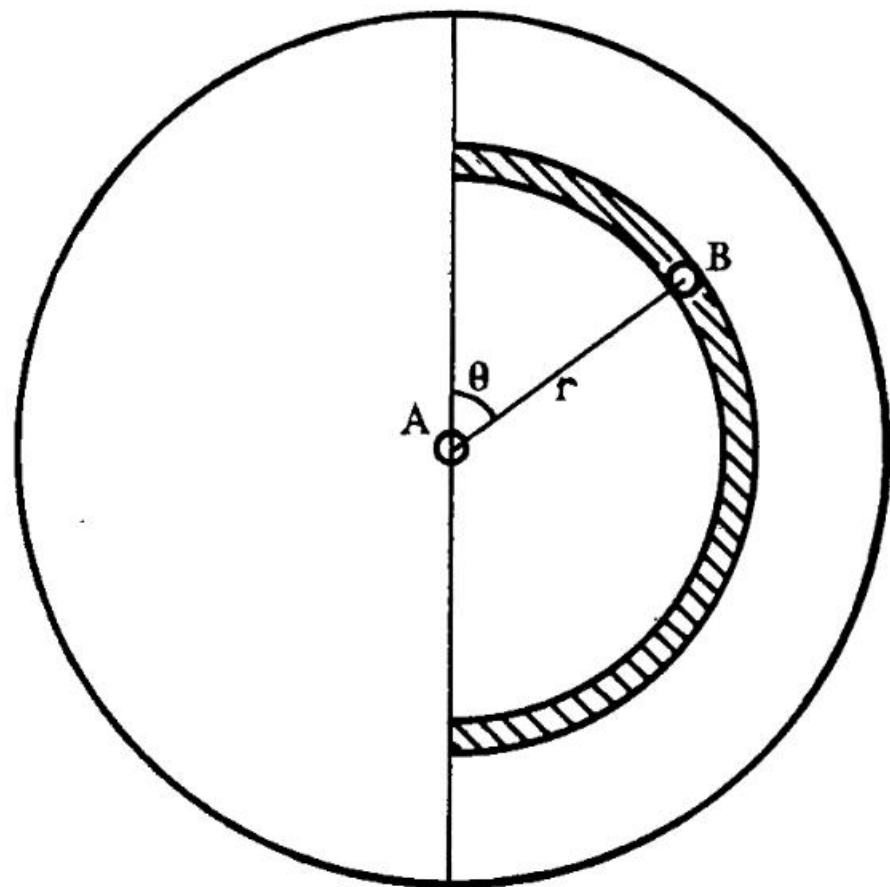








(a)



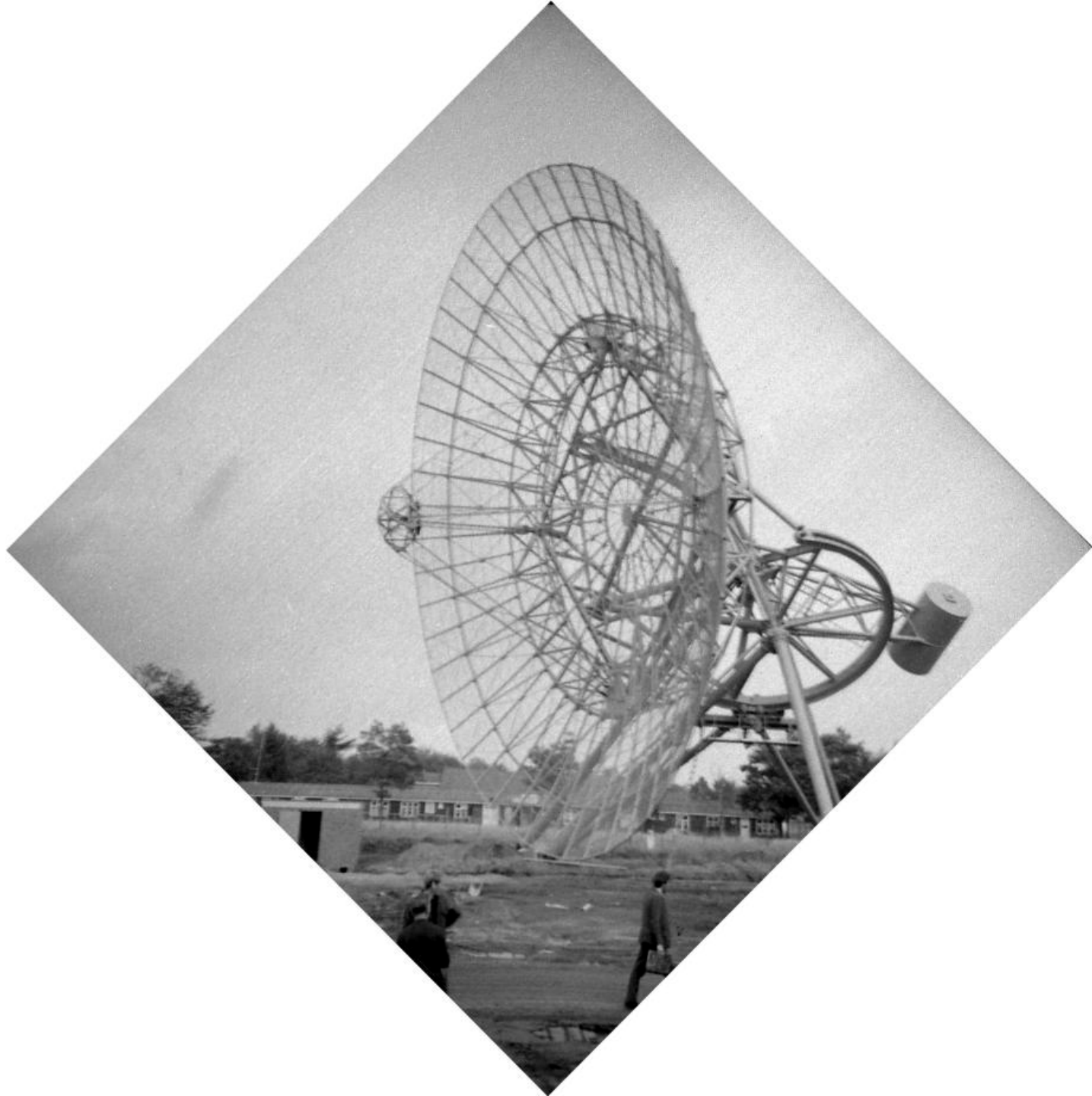
(b)

FIG. 2.—Diagram showing (a) the relative positions of two aerials, A and B, mounted on an East-West line as the Earth rotates; (b) the projection of the relative positions on to the equatorial plane.









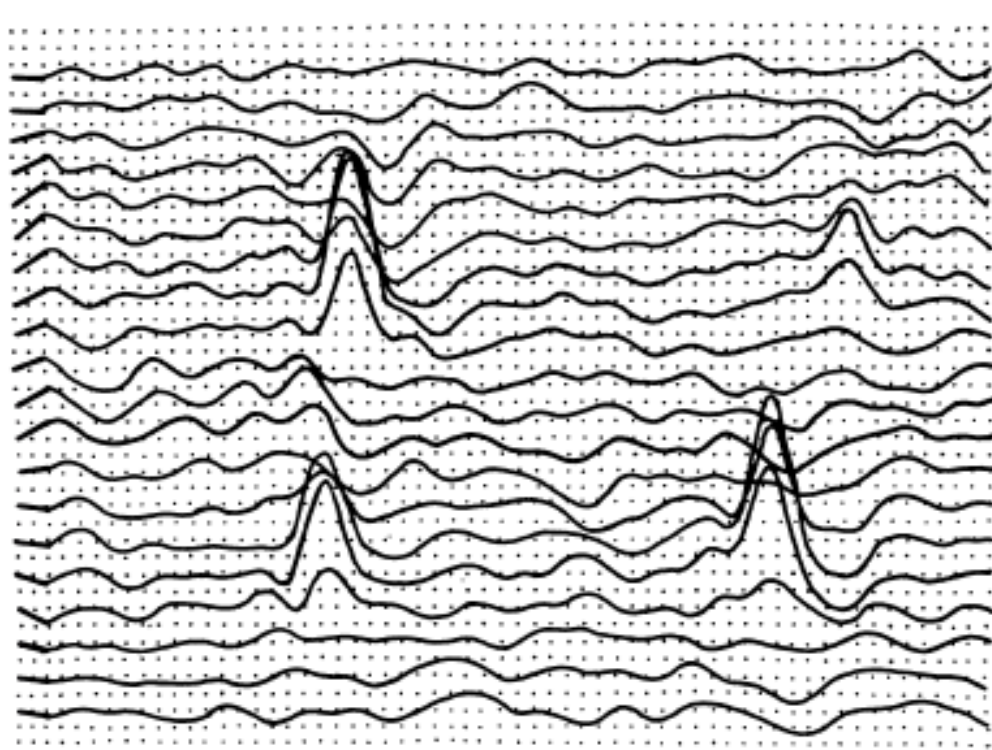
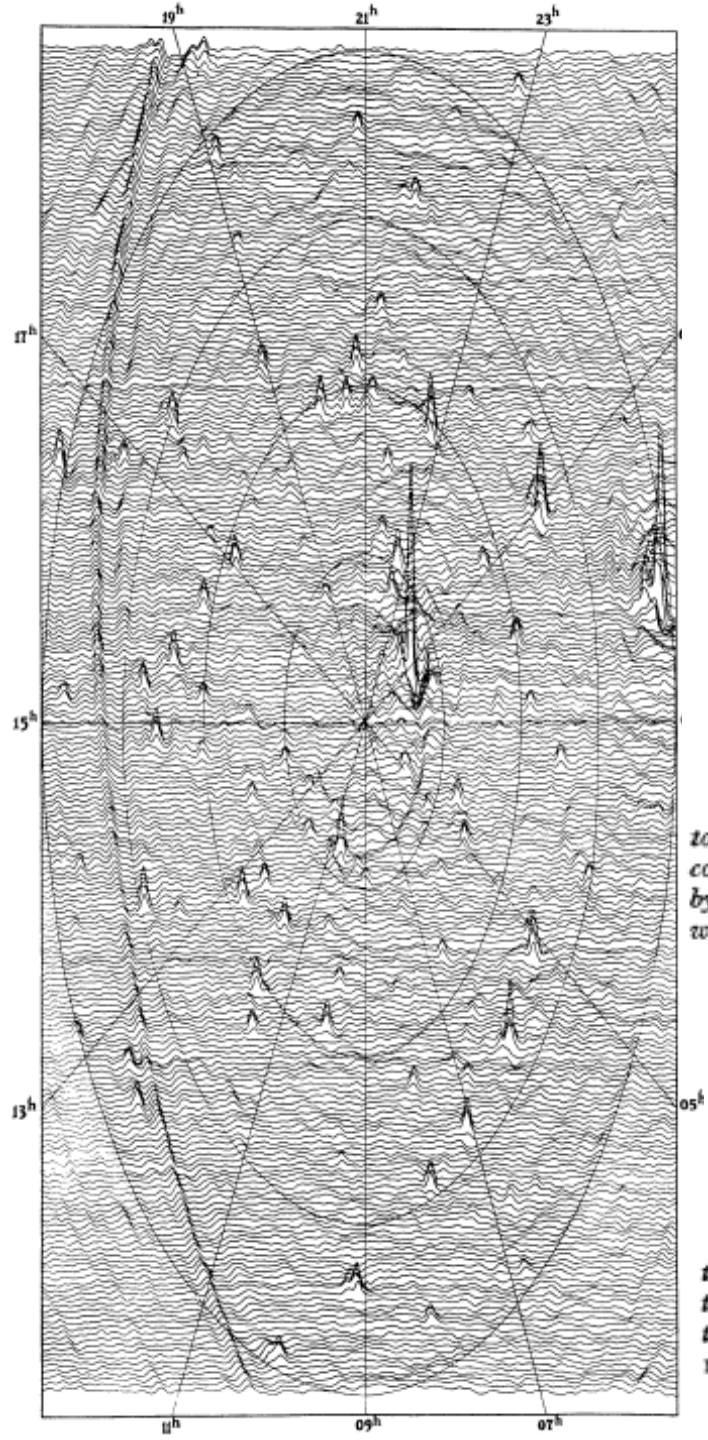


FIG. 5.—Reproduction of one of the photographs obtained from the cathode-ray tube attached to EDSAC II which shows, for a small section of the area surveyed, cuts across the two-dimensional contour map. The grid points are separated by 2' in the X-coordinate and the cuts are separated by 2' in the Y-coordinate. The intensity scale (in the Y-coordinate) corresponds to  $0.07 \times 10^{-28} \text{ w.m}^{-2} (\text{c/s})^{-1}$  between the grid points.

FIG. 6.—Tracing of 48 photographs similar to that shown in Fig. 5. The map is centred on the North Pole and the Y-axis is parallel to  $\alpha=21^{\text{h}} 00^{\text{m}}$ . In order to allow sufficient detail in the intensity coordinate, successive cuts have been displaced perpendicular to the X-axis so that the map is distorted and circles become ellipses; the ellipses marking North polar distances of  $1^{\circ}$ ,  $2^{\circ}$ ,  $3^{\circ}$  and  $4^{\circ}$  are shown.

declination  
(1950)

47° 33'

47° 30'

47° 27'

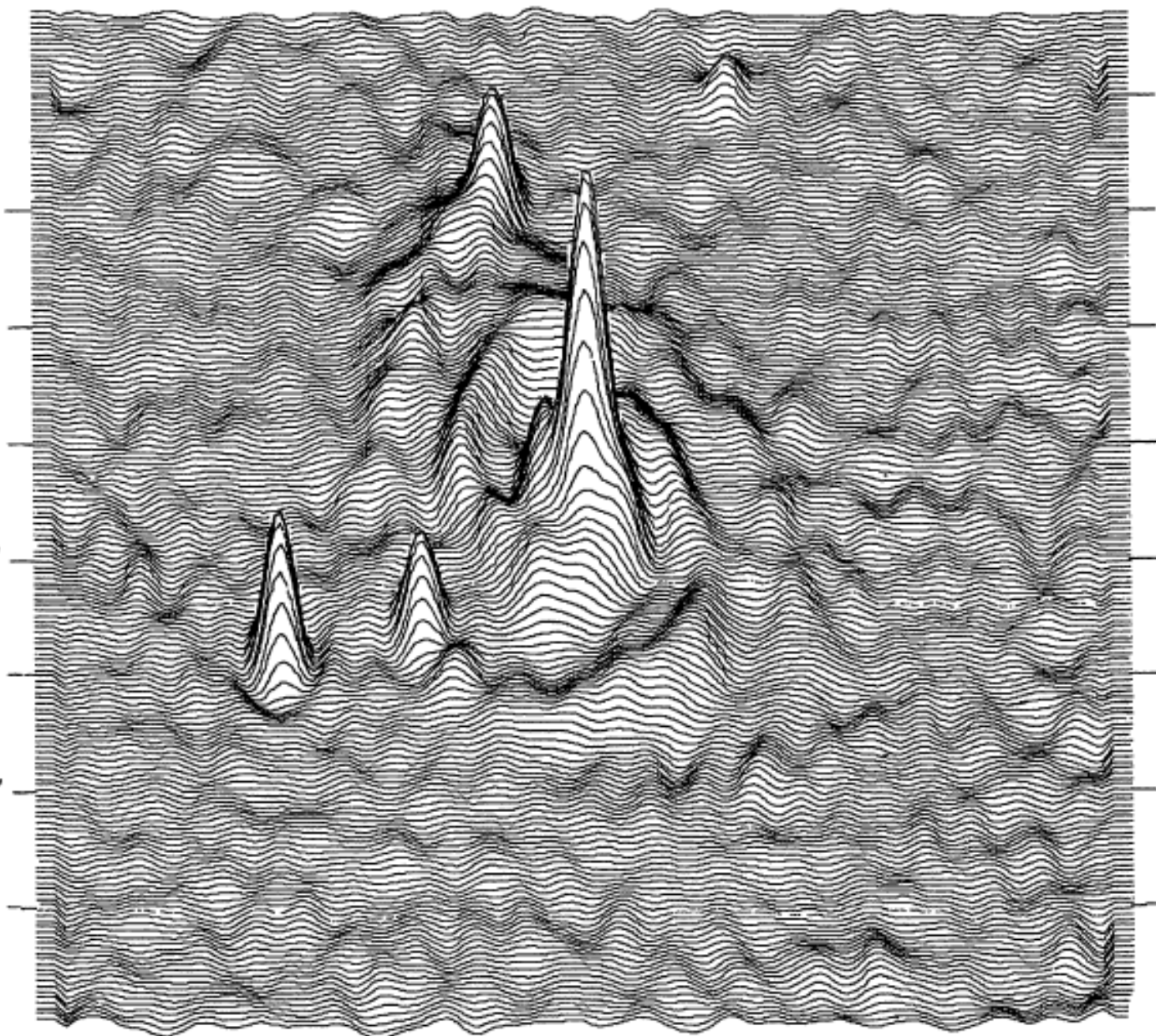
47° 24'

13<sup>h</sup>28<sup>m</sup>24<sup>s</sup>

13<sup>h</sup>28<sup>m</sup>00<sup>s</sup>

13<sup>h</sup>27<sup>m</sup>36<sup>s</sup>

13<sup>h</sup>27<sup>m</sup>12<sup>s</sup>



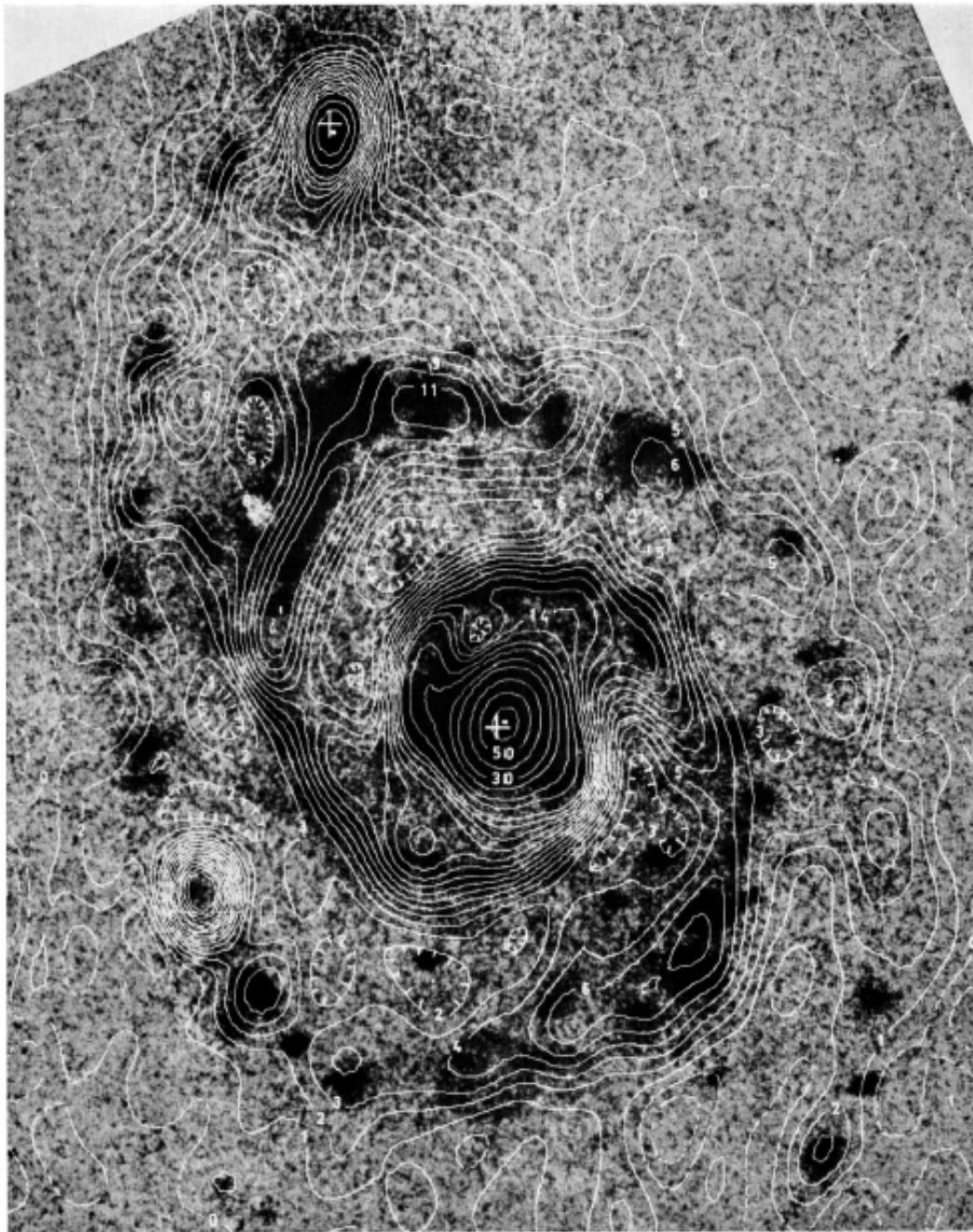


Fig. 4. The 1415 MHz isophotes are shown superimposed on a photograph in H $\alpha$  light of M51 and NGC 5195 taken from Carranza *et al.* (1969). Details of the radio isophotes same as Fig. 3

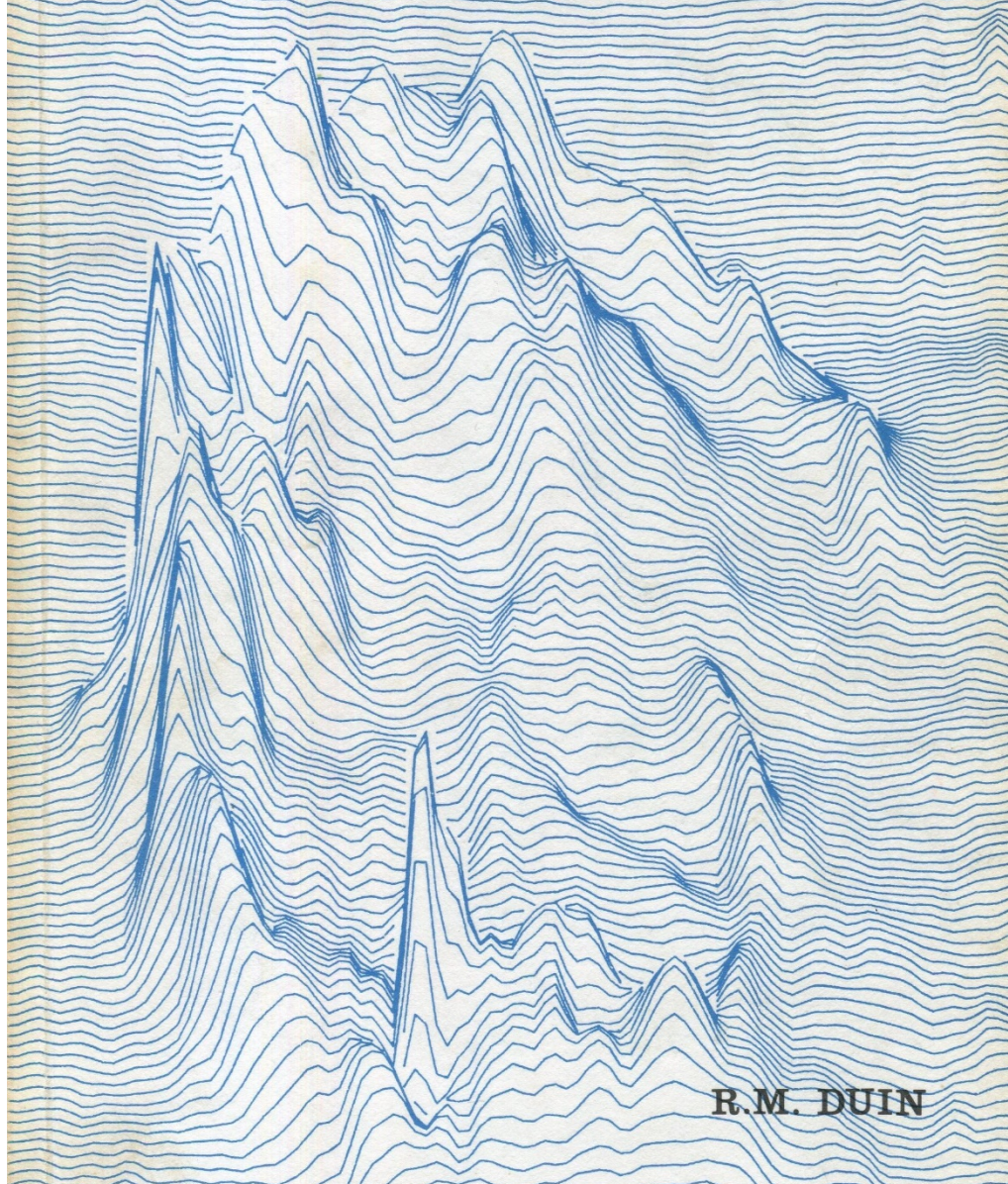


Fig. 2 Radio picture of M51 and NGC 5195 made by Jaffe using a computer-controlled cathode-ray tube with camera attached. Extra noise is added to the radio picture due to 50 Hz interference in the positioning of the beam of the cathode-ray tube



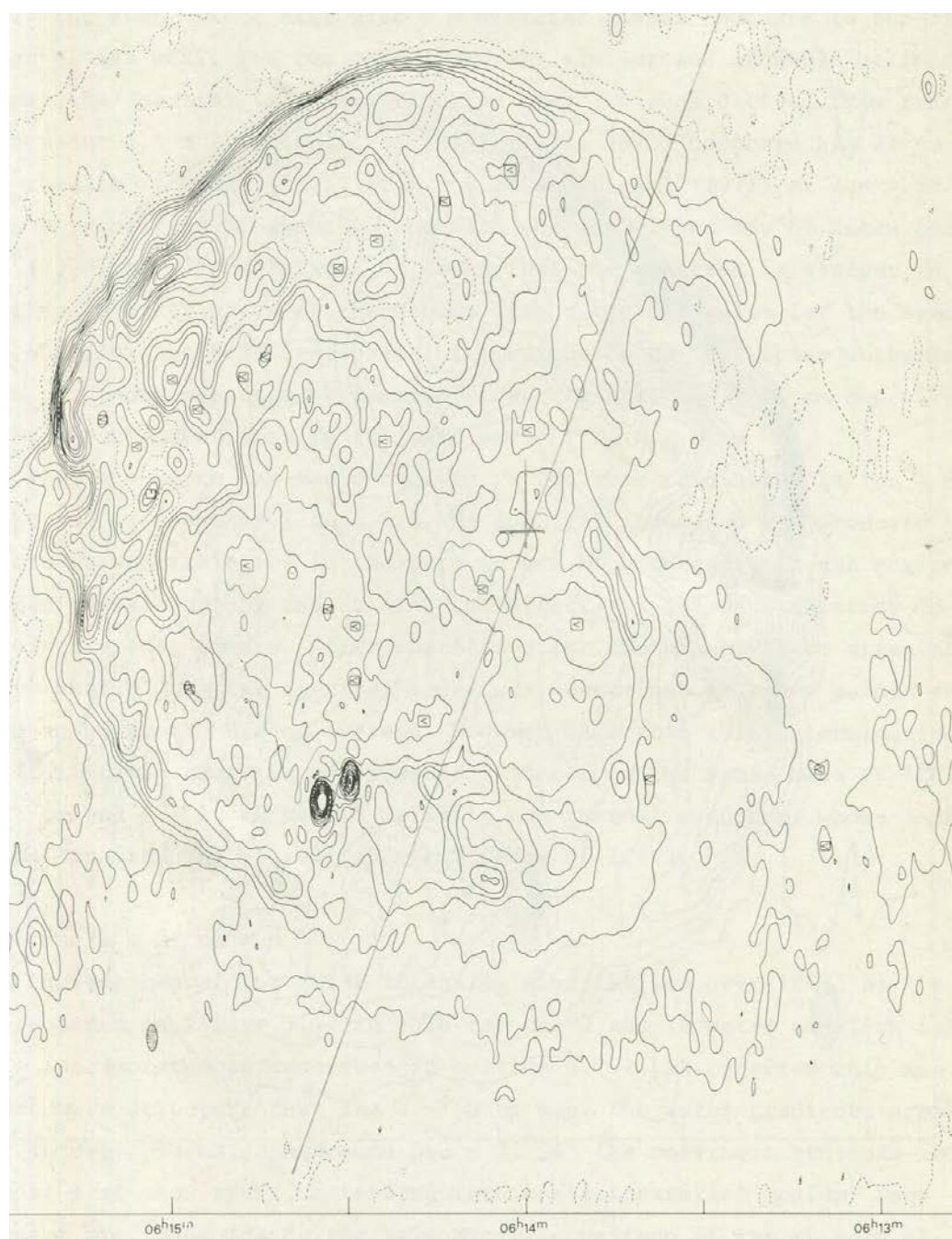


**HIGH RESOLUTION RADIO INVESTIGATIONS  
OF FOUR SUPERNOVA REMNANTS**



**R.M. DUIN**





5.4 Total intensity distribution of IC443 at  $\lambda = 21$  cm. The inten

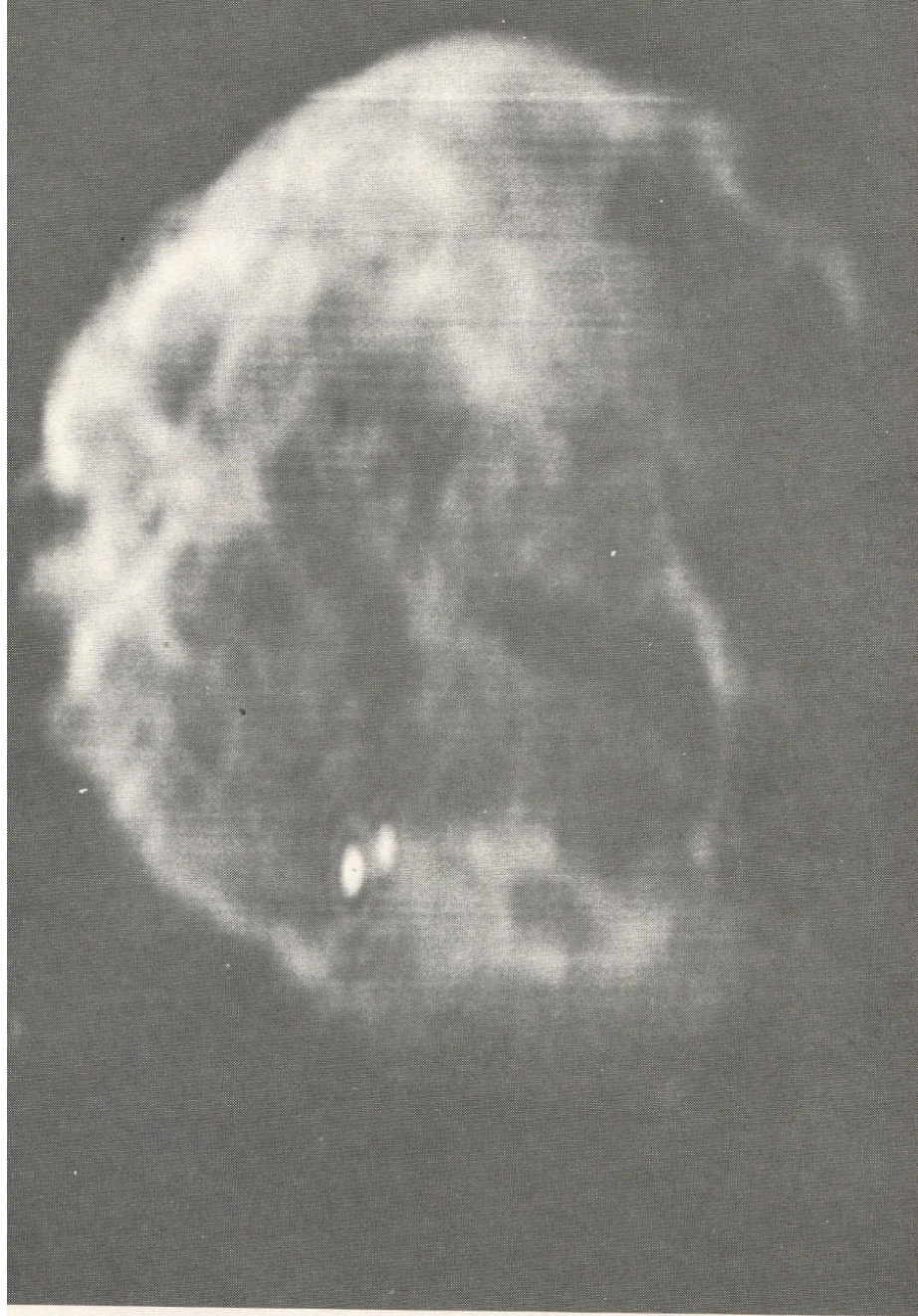


Fig. 5.5 Radio photograph of IC443 at  $\lambda = 21$  cm. The same info

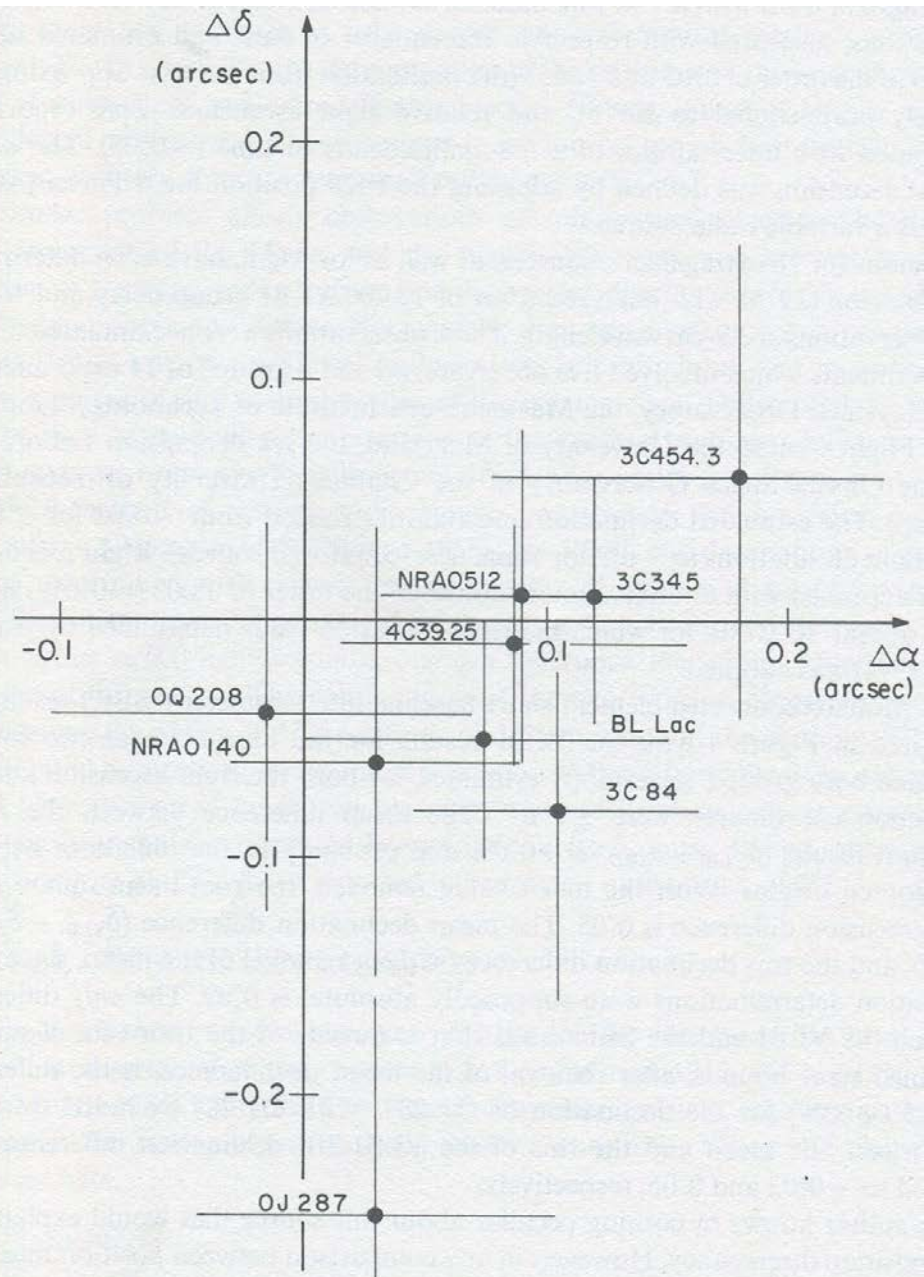
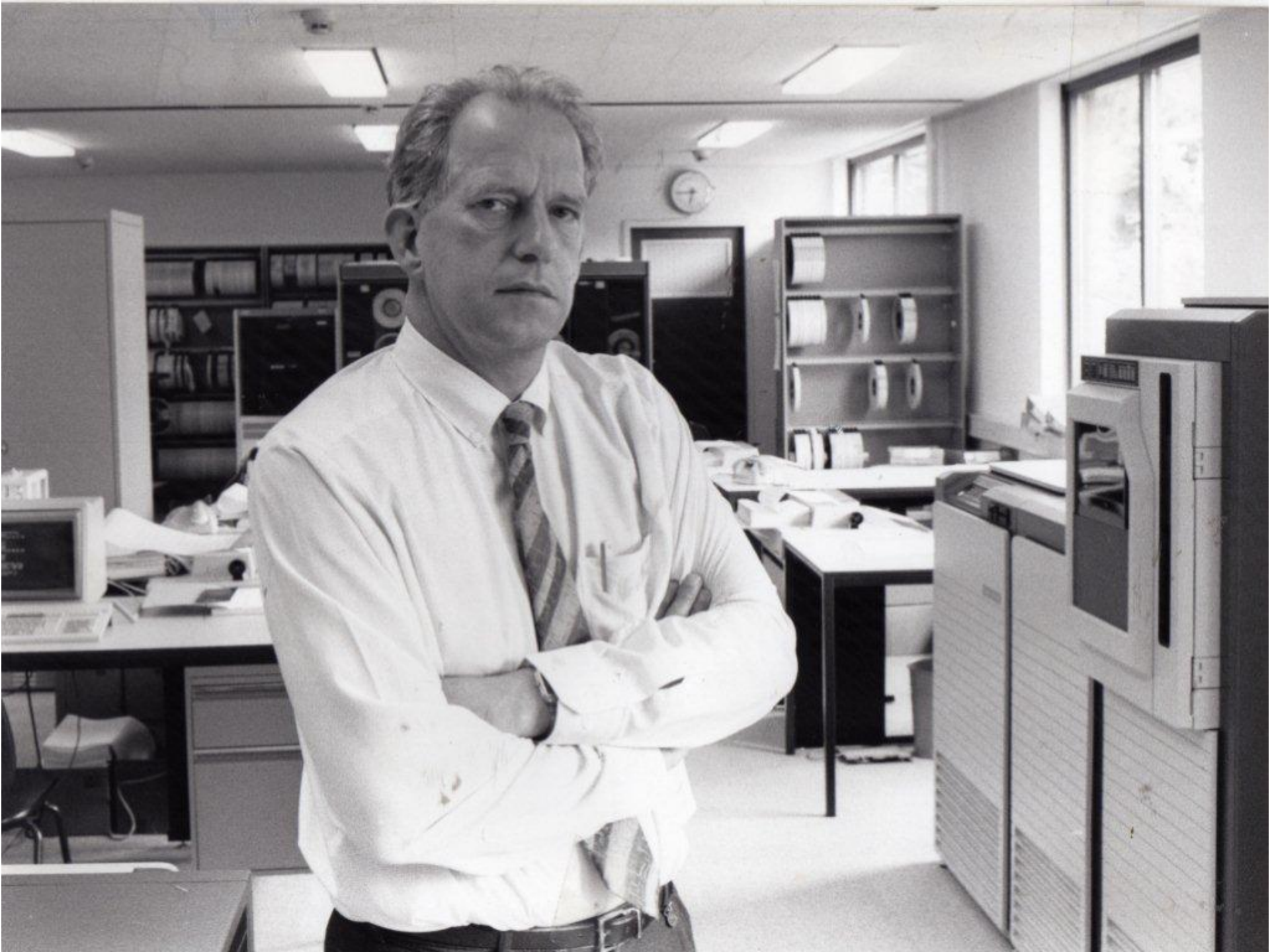
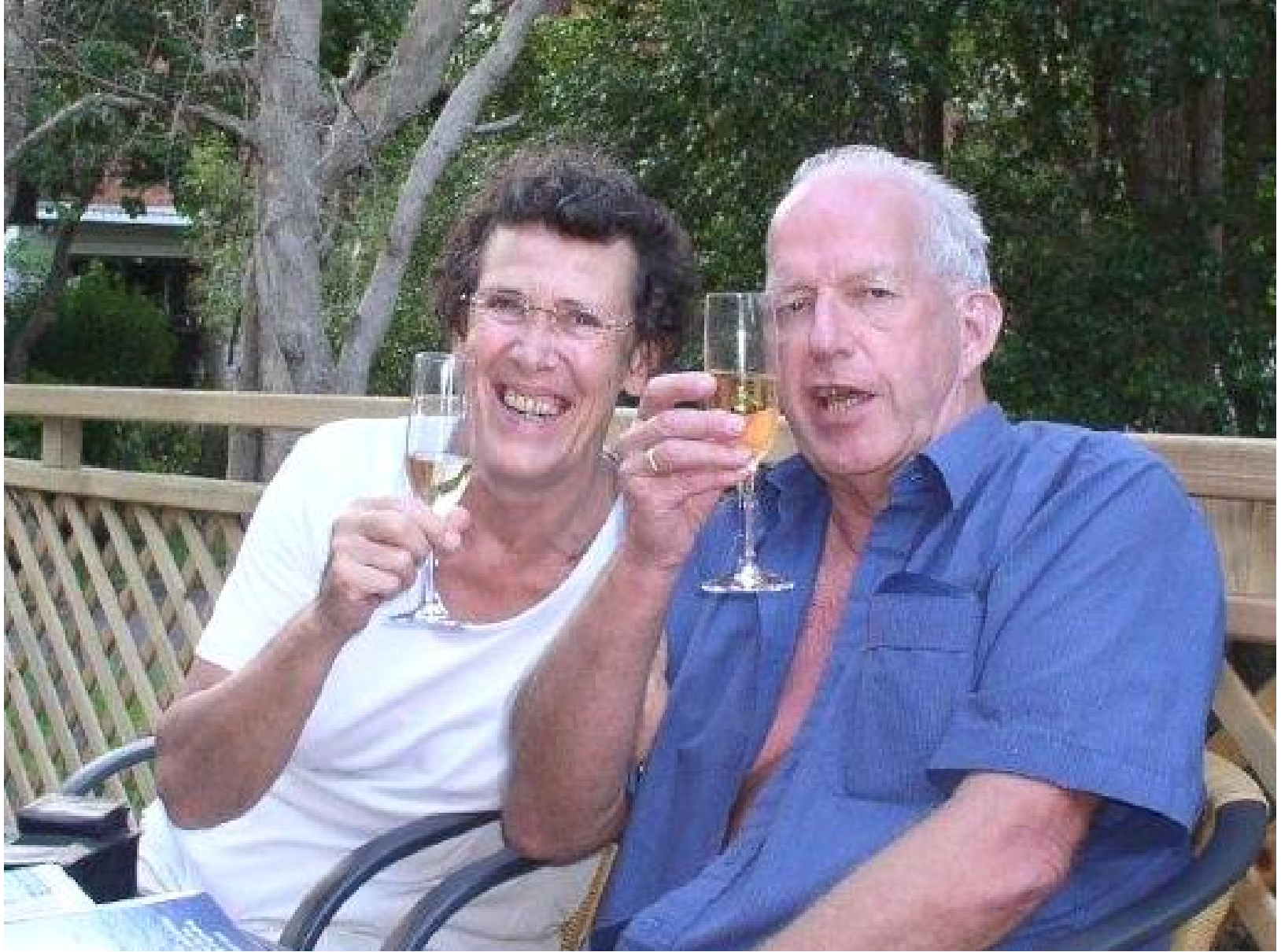


Figure 4 The differences in right ascension ( $\Delta\alpha$ ) and declination ( $\Delta\delta$ ) between the determinations by Robertson (1975) and the SBI results of Elsmore & Ryle (1976), taken the sense (VLBI-SBI), are plotted here for the nine extragalactic radio sources whose pos









Thanks a lot Wim, but in particular Joan too!!