L.B. Baath Onsala Space Observatory, Sweden

The monitoring has been done with VLBI arrays of upto 8 stations in USA, Europe and South Africa. The wavelength was \sim 6 cm at all times. So far, maps at two epochs have been completed of the objects A0 0235+164, 0735+178, Mk 421 (1101+38) and 1749+701 with resolutions (FWHM) of \sim 1 m.a.s. All four sources have core-jet structures. A0 0235+164 was observed at two successive outbursts and by identifying the outburst, an apparent speed of \sim 45c seems to give consistency. 0735+178 showed no discernible motion outwards, but the jet has changed its position angle by $\sim 20^\circ$. Mk 421 is an X-ray source and has a redshift of \sim 0.03. There seems to be no superluminal motion. The change in flux density all emanated from a point source in the core < 0.15 m.a.s. in diameter. 1749+701 has a very wide opening angle of the jet and a motion of ~ 0.2 m.a.s./year. But since the redshift is not very well known it is difficult to estimate the apparent speed. The core changed by \sim 0.2 Jy and the jet by \sim 0.1 Jy between the two epochs.

Richard M. West (ed.), Highlights of Astronomy, Vol. 6, 742. Copyright © 1983 by the IAU.

742