

Figure 5.1: The 1612 MHz OH spectrum of OH357.3-1.3, showing maximum and minimum flux densities, and the two pairs of channels, with strong and weak flux densities, selected to test the DCF method.

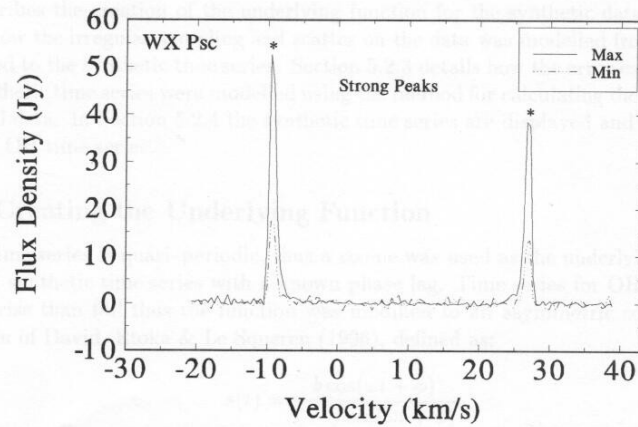
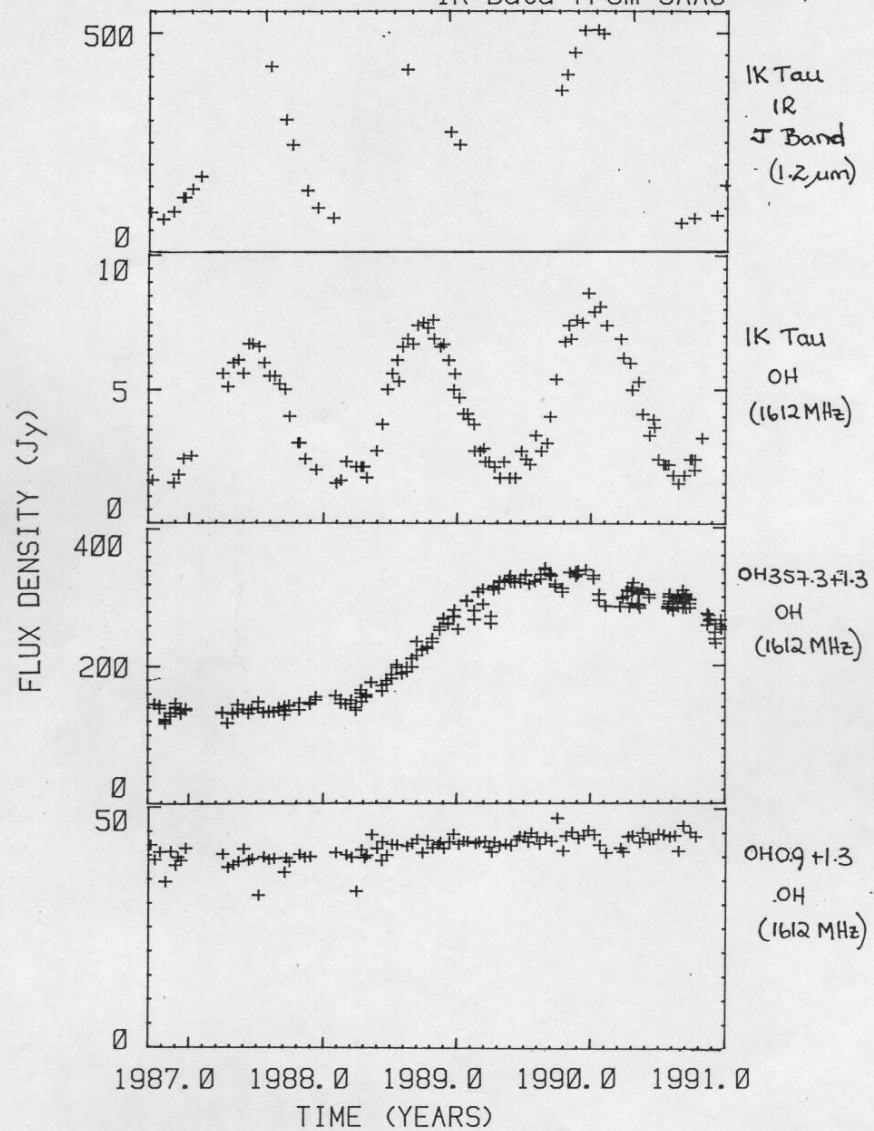
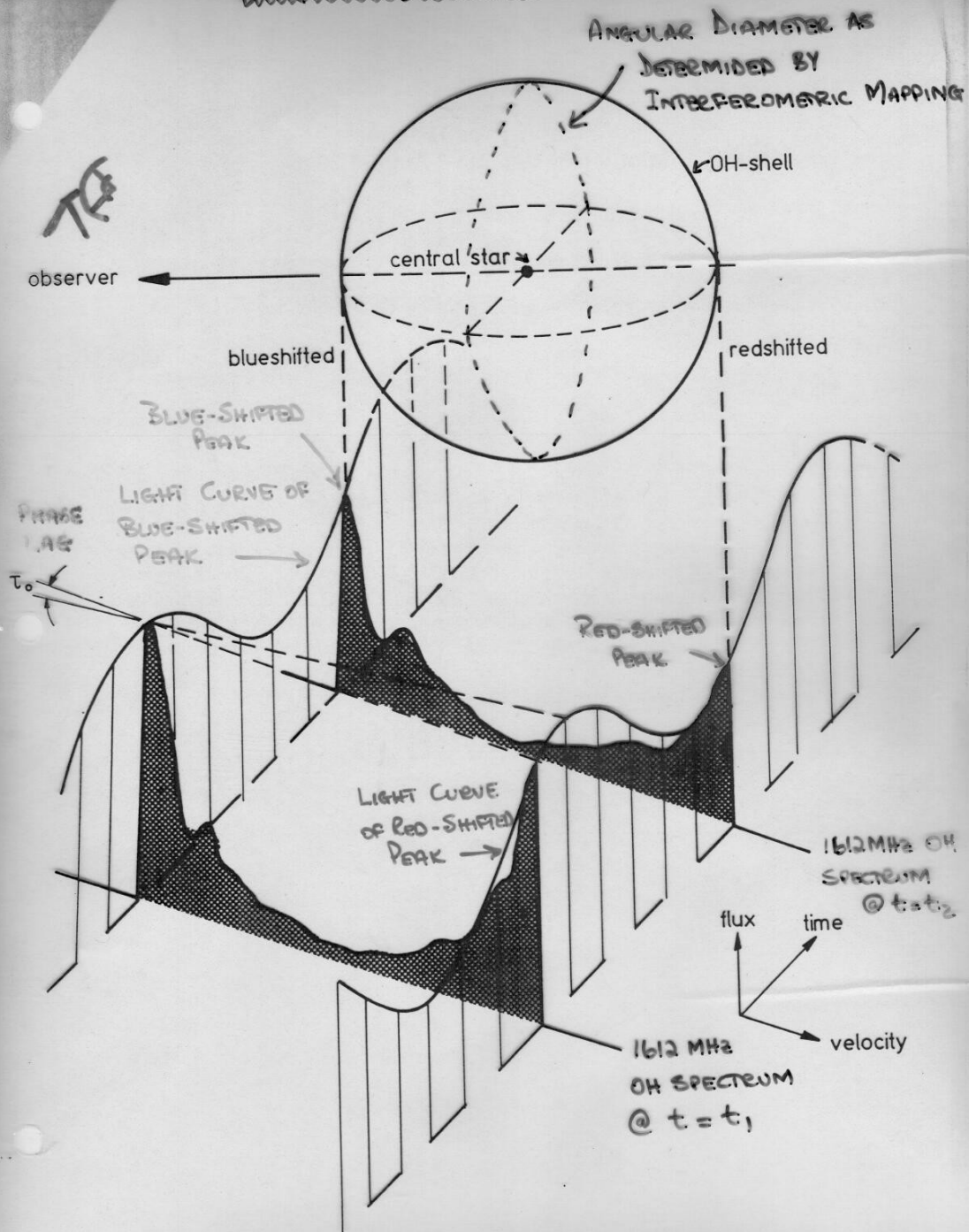


Figure 5.2: The 1612 MHz OH spectrum of WX Psc, showing maximum and minimum flux densities, and the channels with the strongest flux densities, selected to test the DCF method.

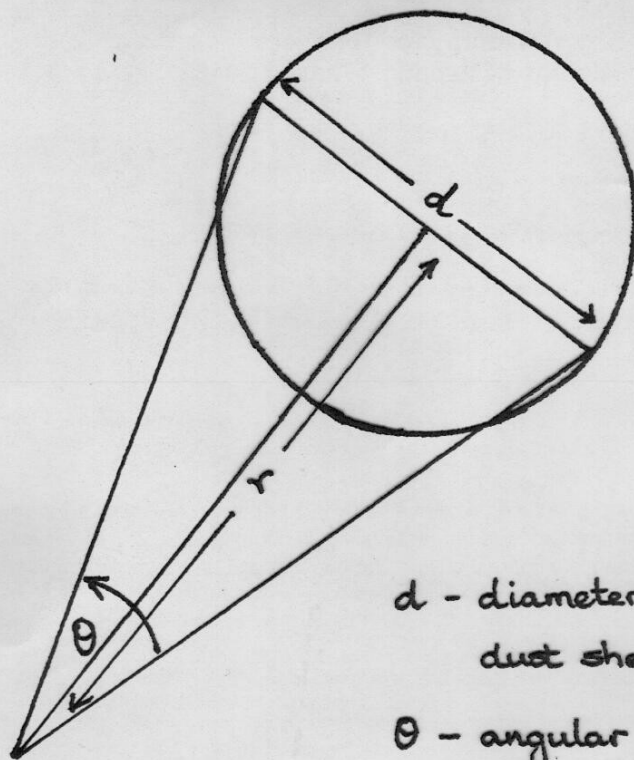
Long Term Behaviour of 3 OH/IRs
Monitored at HartRAO
IR Data from SAAO



THE OH/IR STAR



FINDING THE DISTANCE TO AN OH/IR STAR



d - diameter of OH/IR star dust shell

θ - angular diameter of OH/IR star dust shell

r - distance to OH/IR star

Simple Geometry: $d \approx r\theta$

$$\therefore r \approx \frac{d}{\theta}$$

→

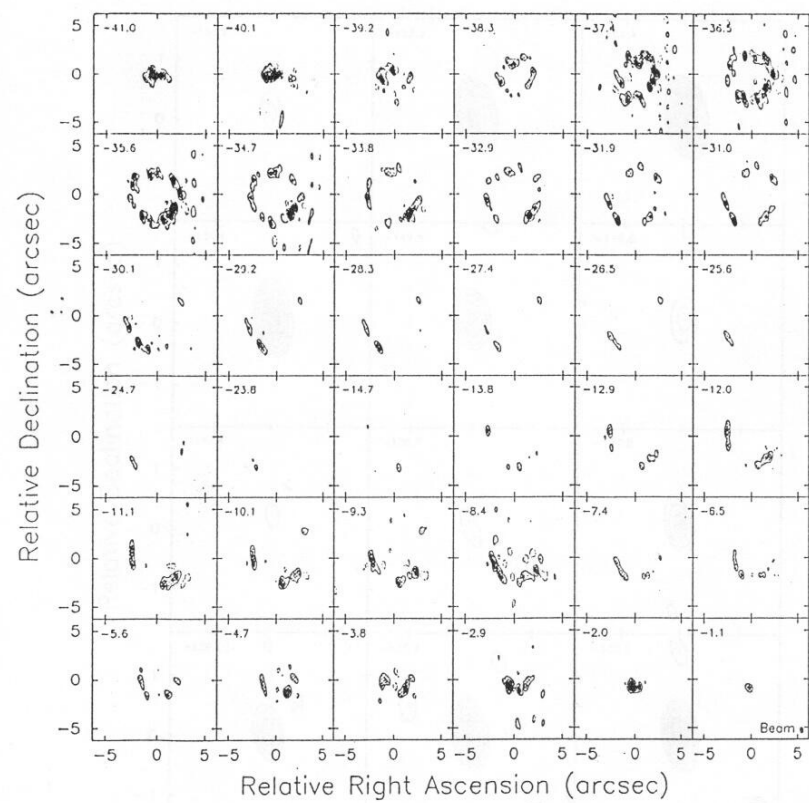
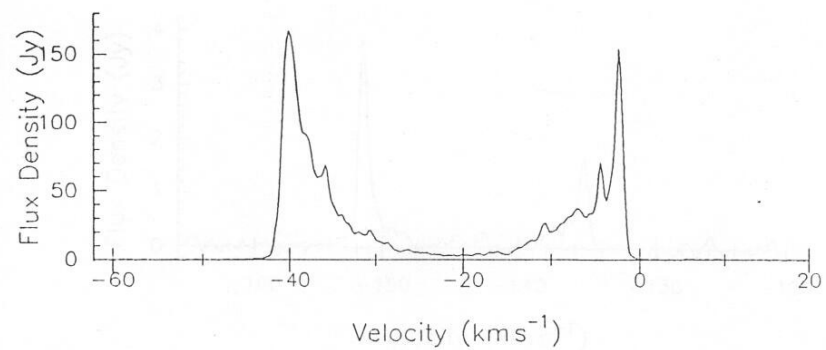


Figure 2.10: MERLIN spectral line maps of OH357.3 (26/04/88)

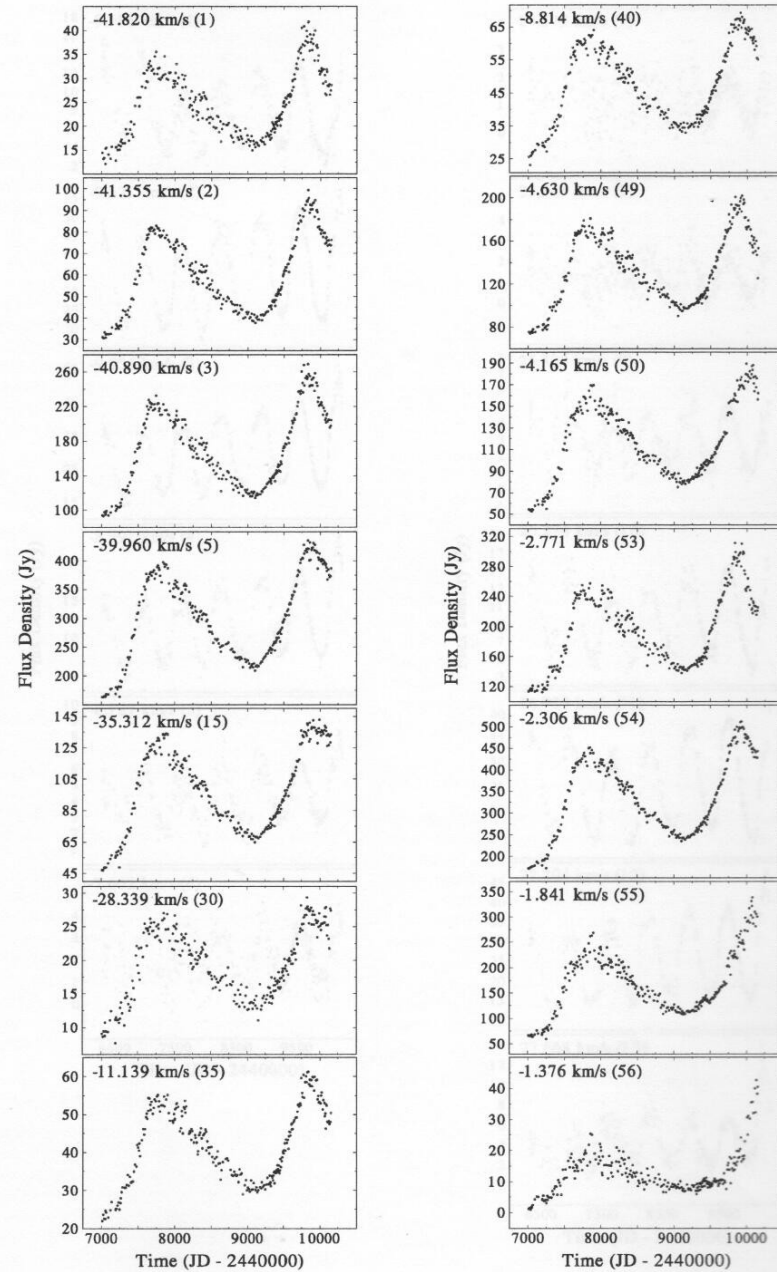


Figure 3. Time series for selected channels from OH357.3-1.3: the velocity of the channel, with the channel number in brackets, is shown at top left.
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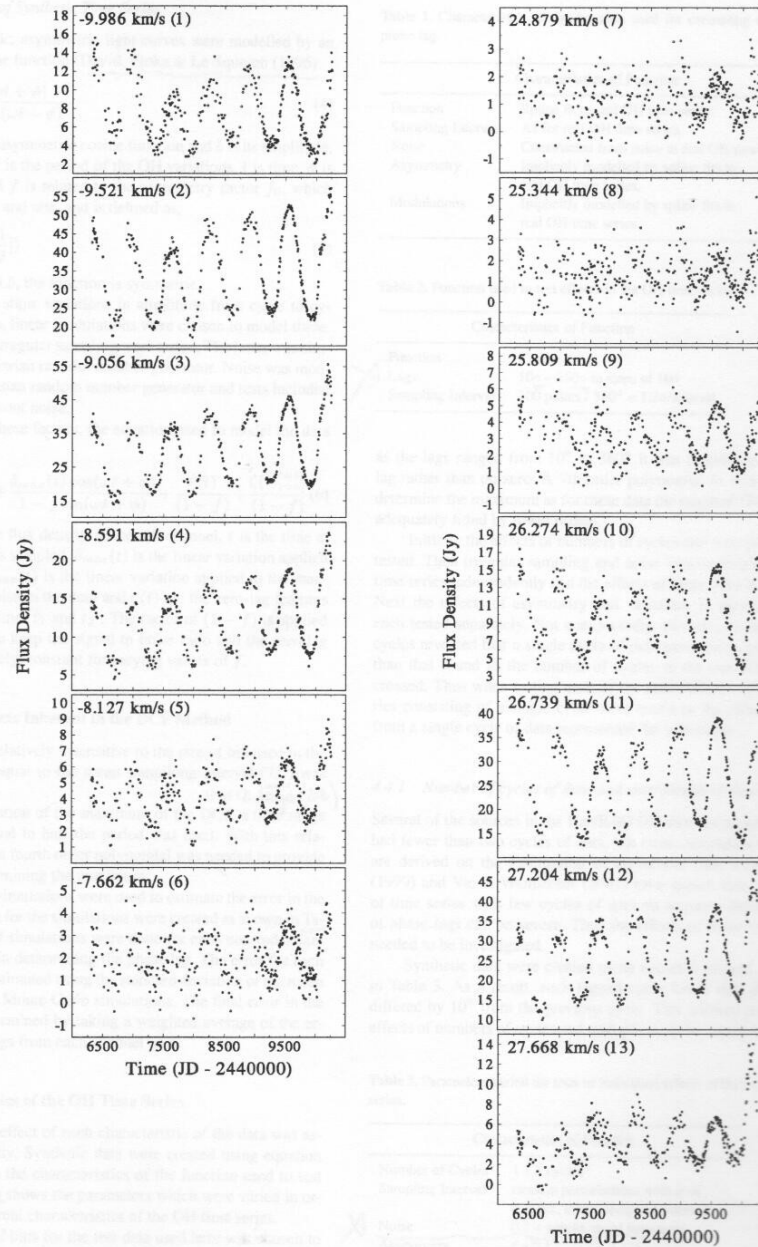
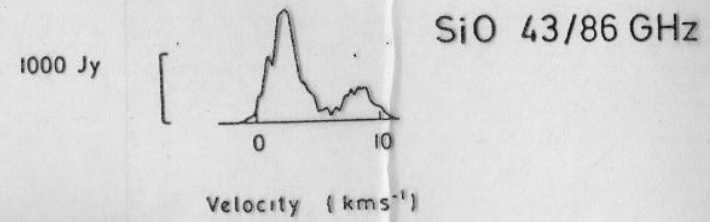
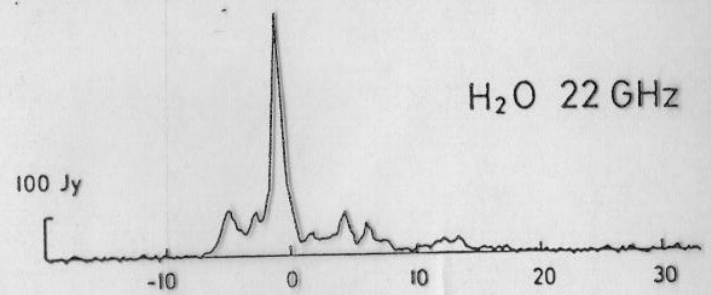
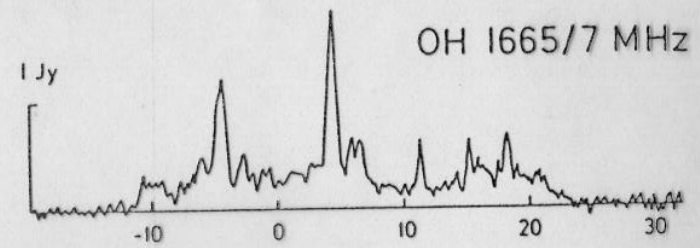
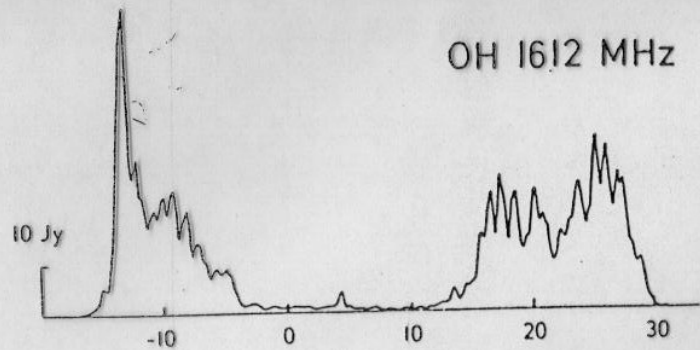
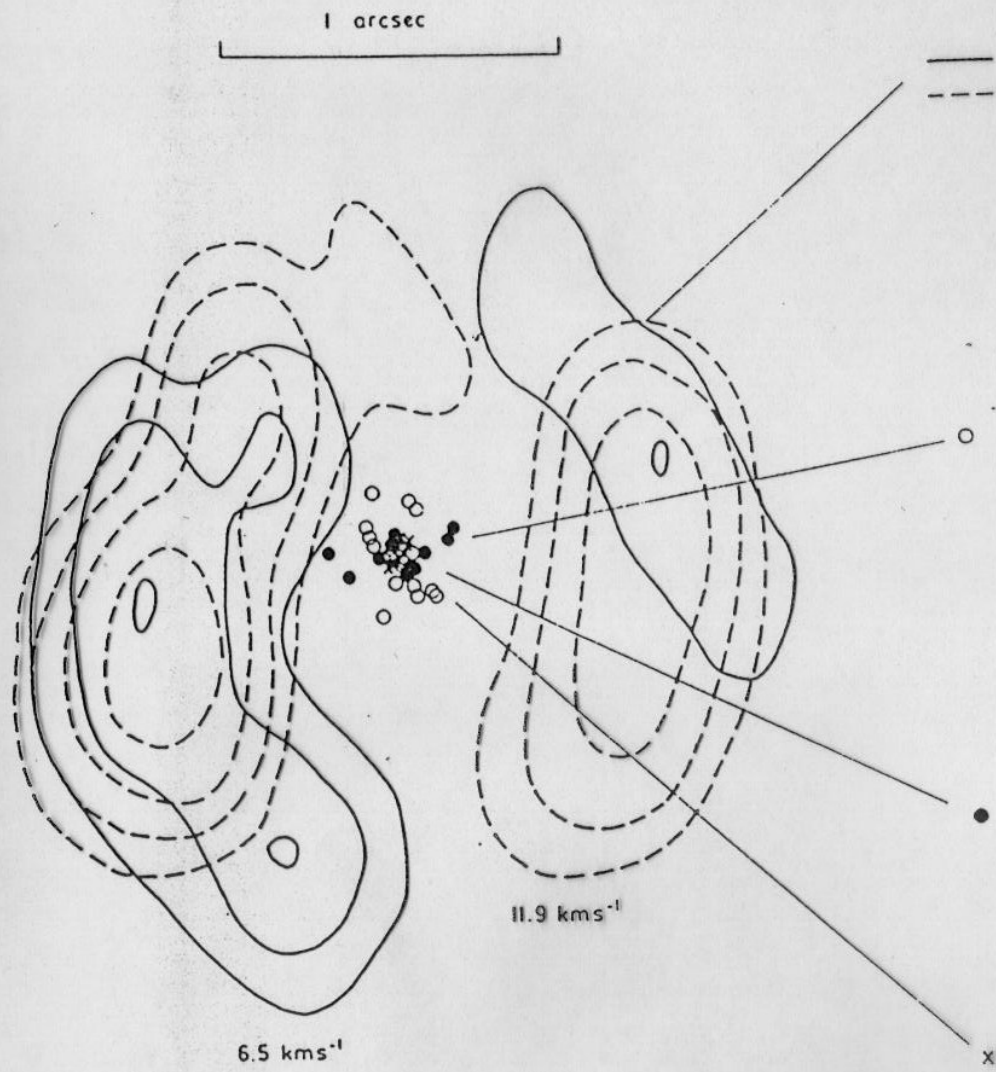


Figure 4. Time series for all channels selected for determining the phase lag for WX Psc: the velocity of the channel, with the channel number in brackets, is



MASER EMISSION FROM THE CIRCUMSTELLAR ENVELOPE OF VX SAGITTARII