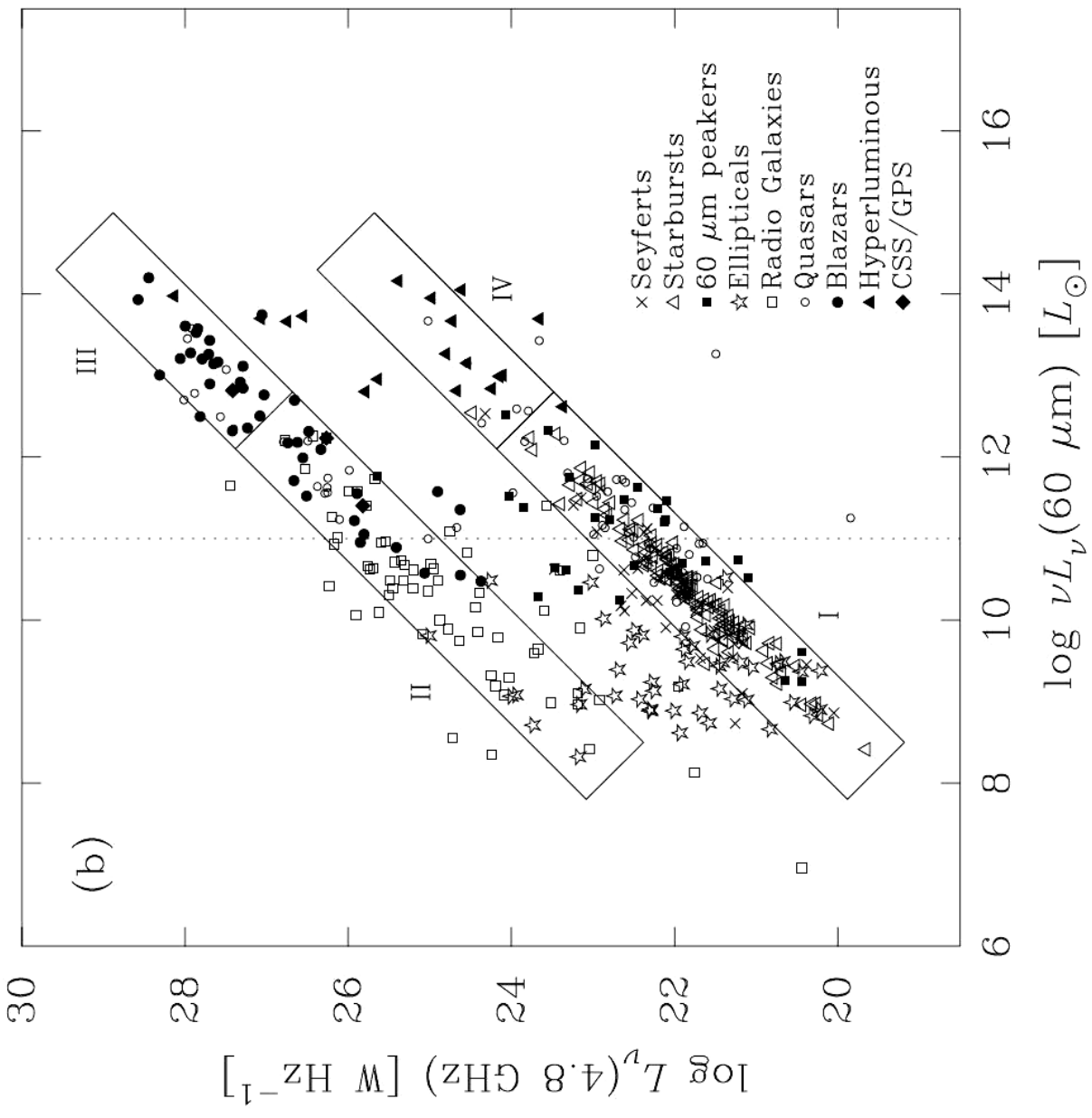


## 6. AGN

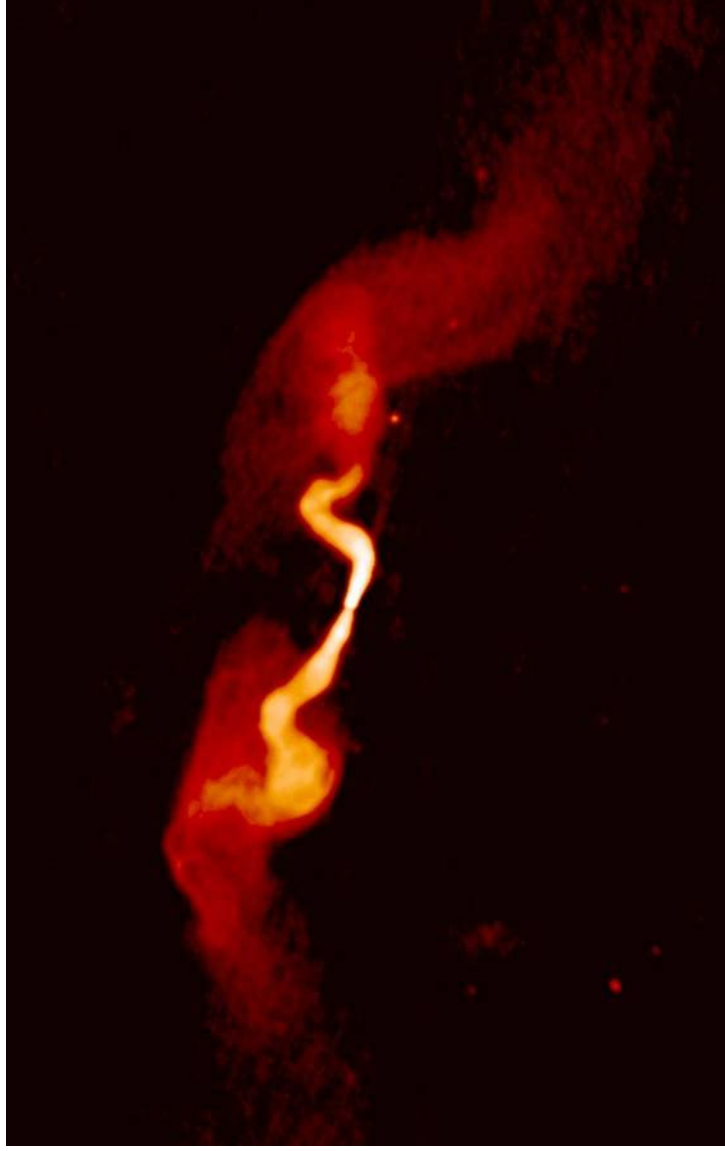


radio-FIR correlation  
(Drake et al. 2003)

Radio galaxies:

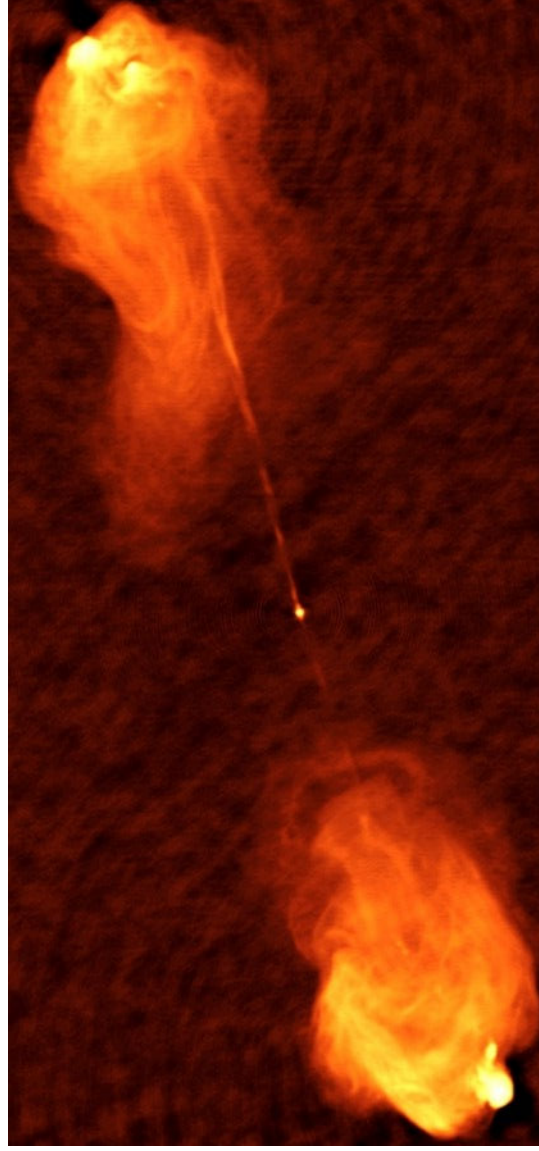
FR I

e.g. 3C 31



FR II

e.g. Cyg A

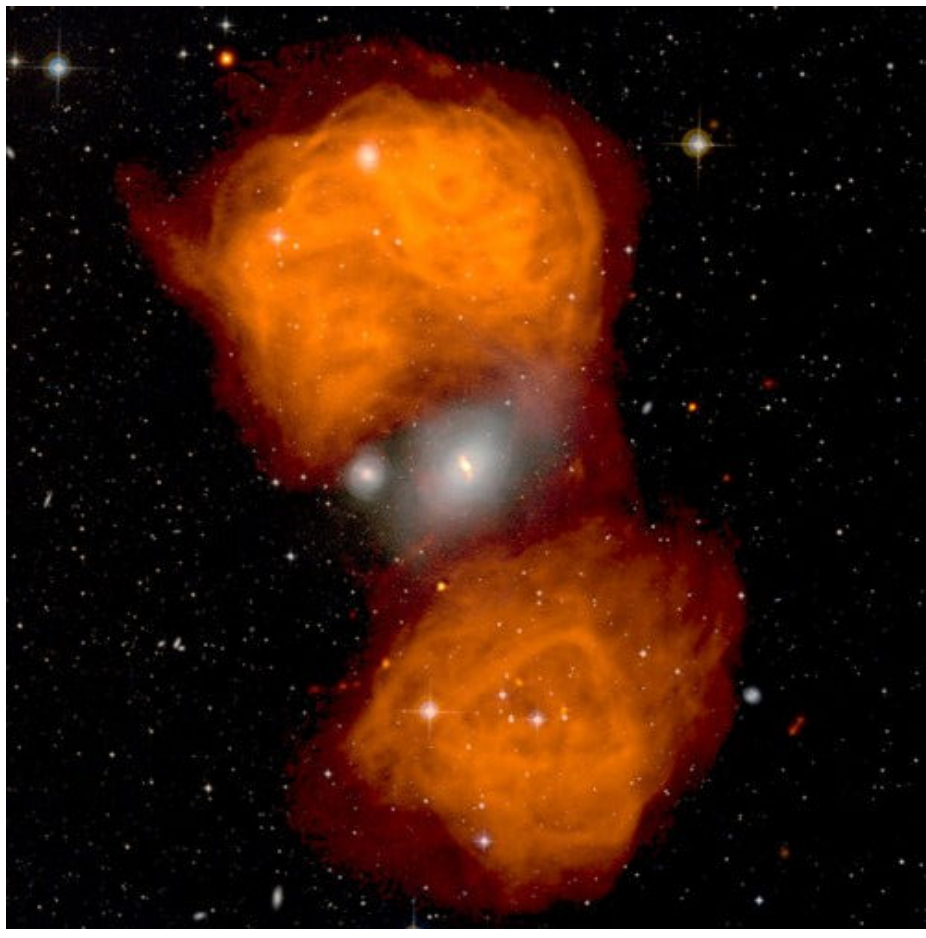


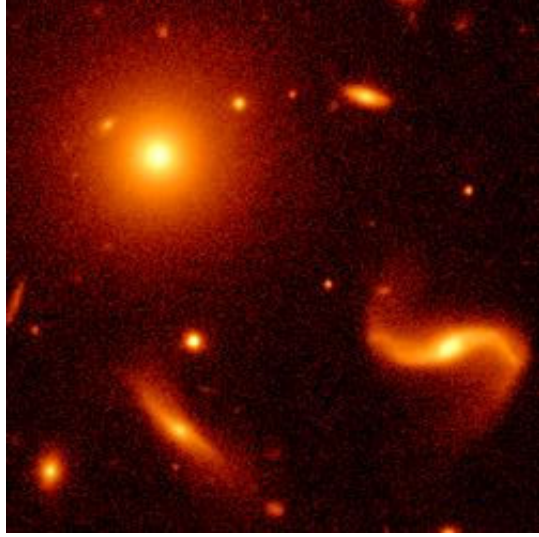
Radio/optical:

3C 219

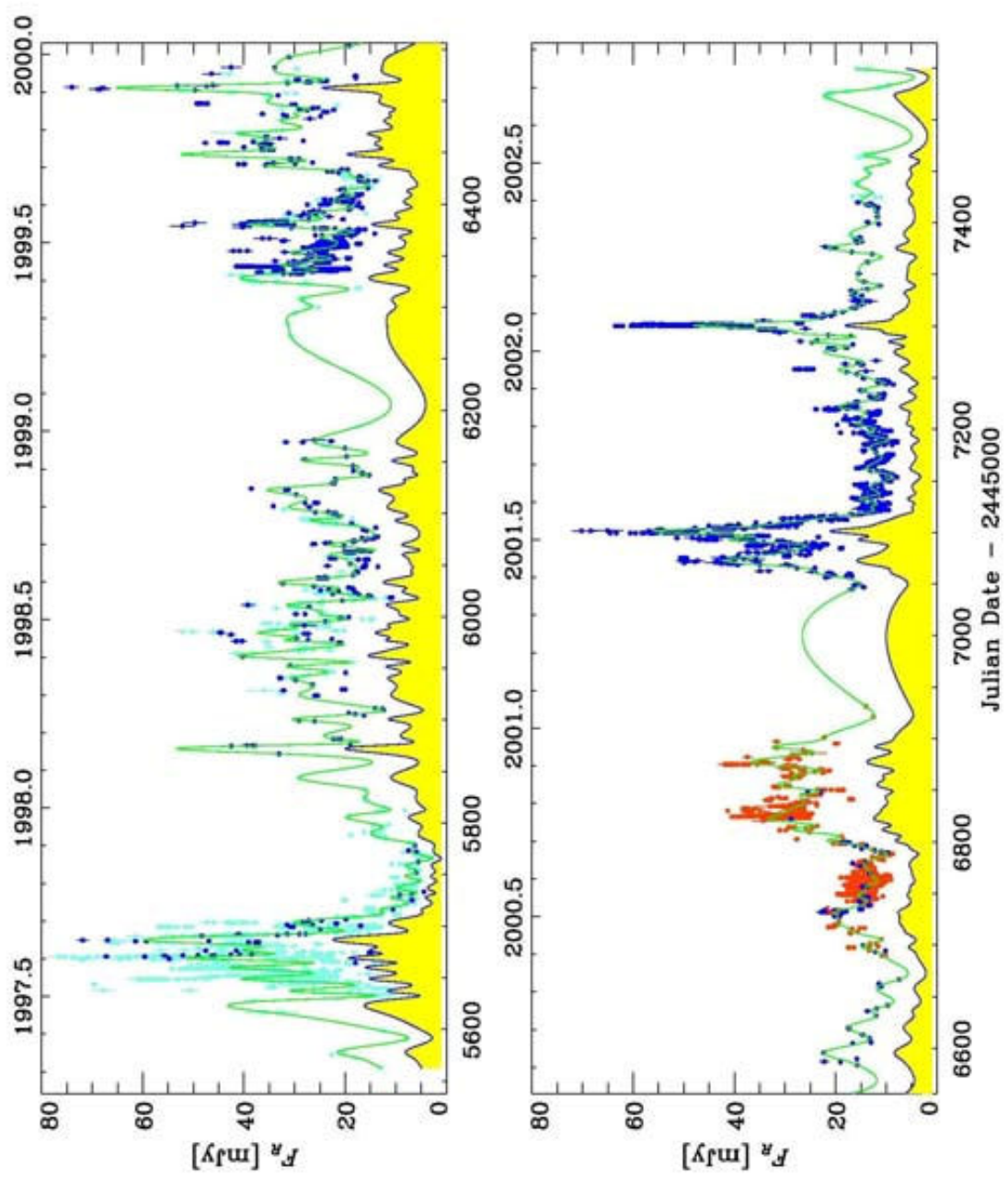


Fornax A



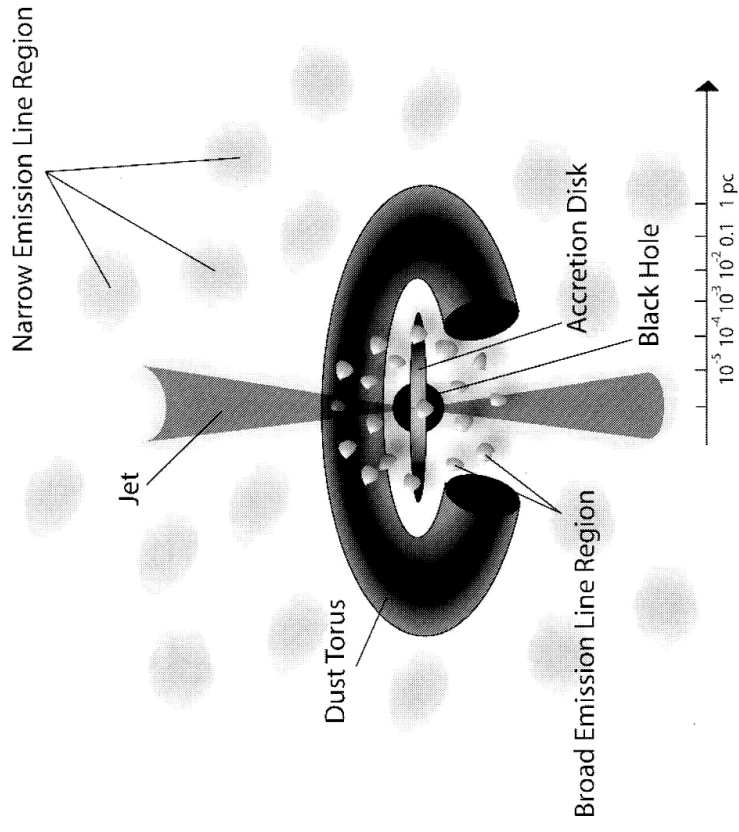
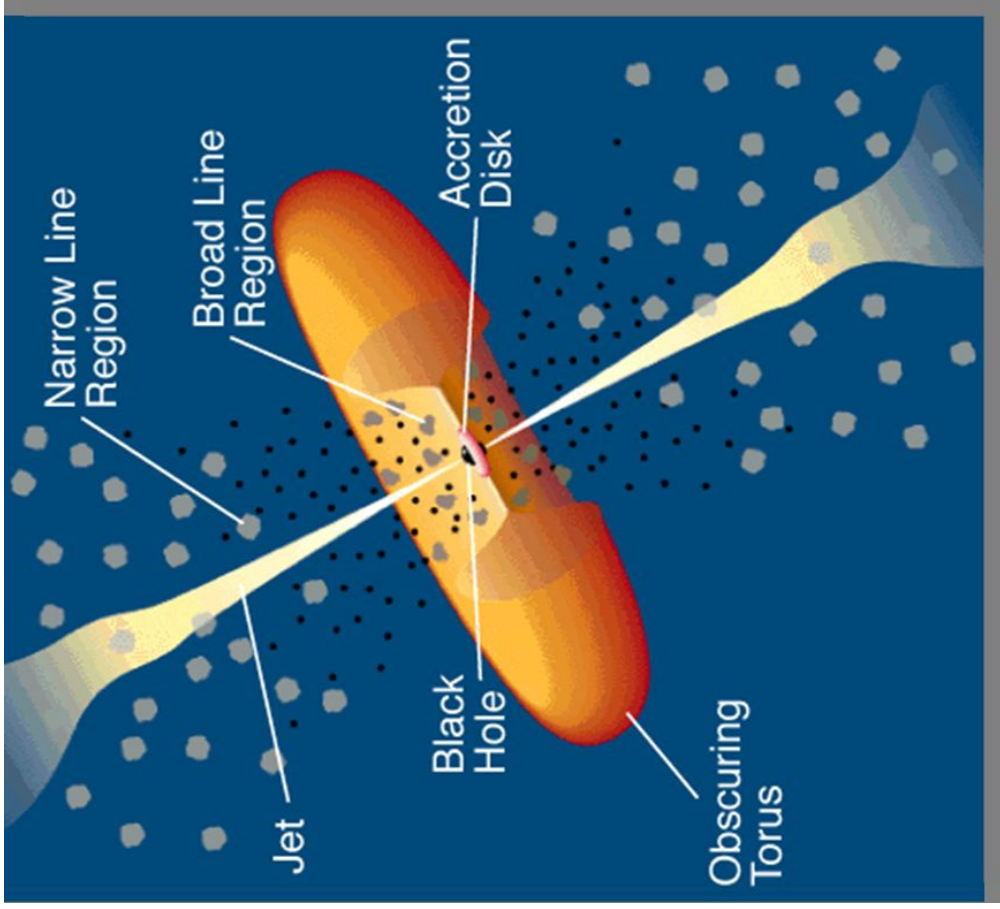


Blazar variability: BL Lac

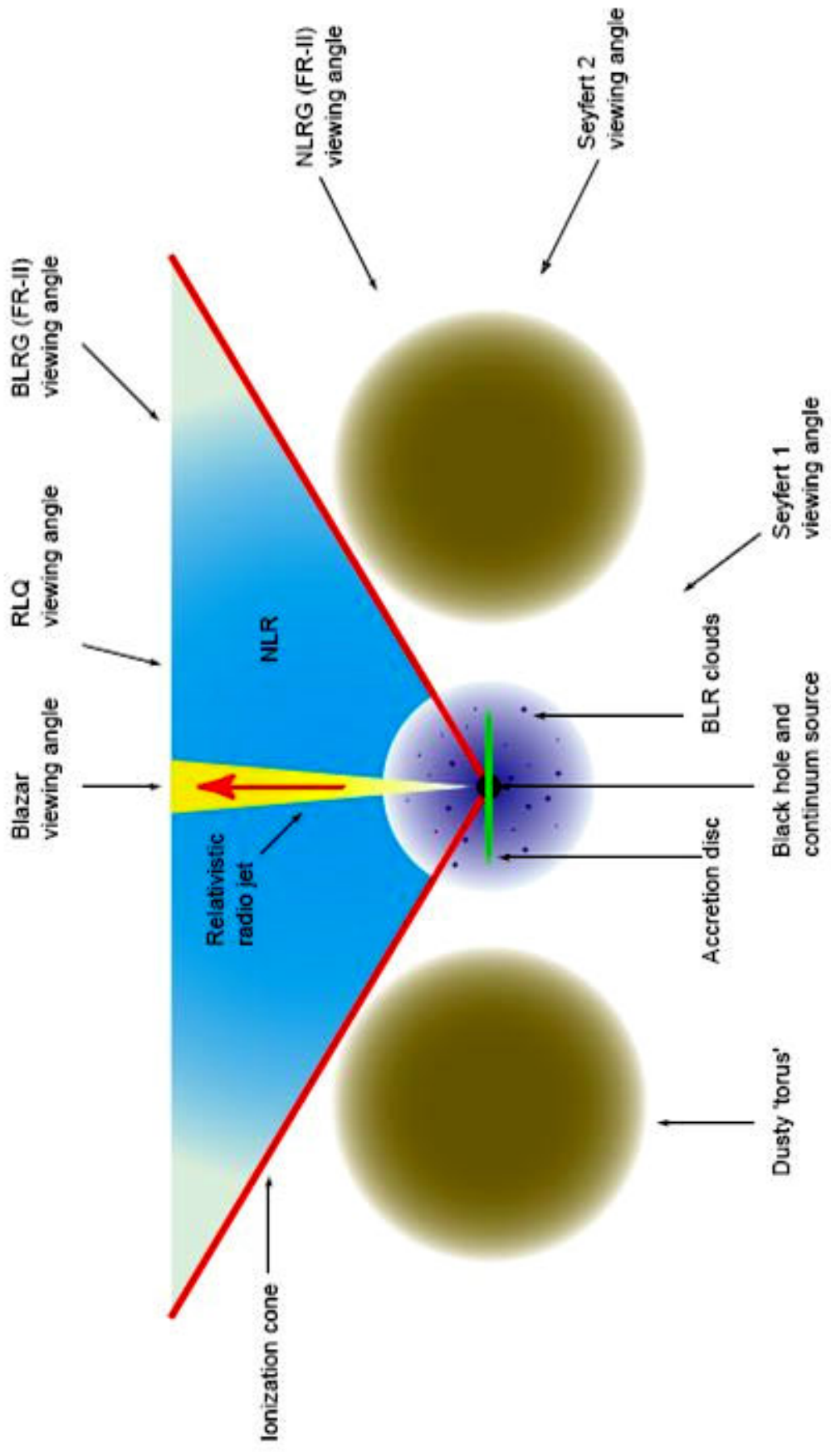


# broad-/narrow-line regions

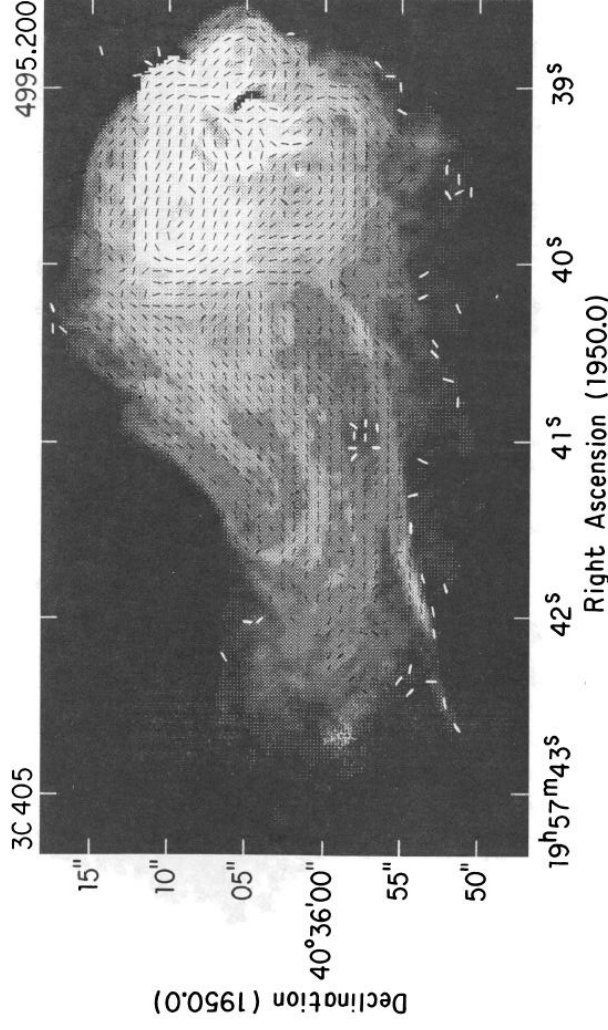
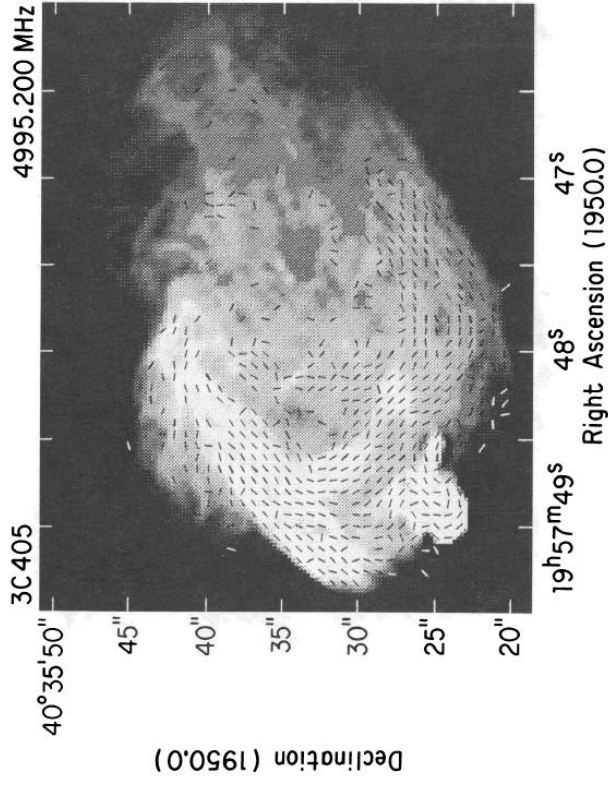
(BRL/NLR)



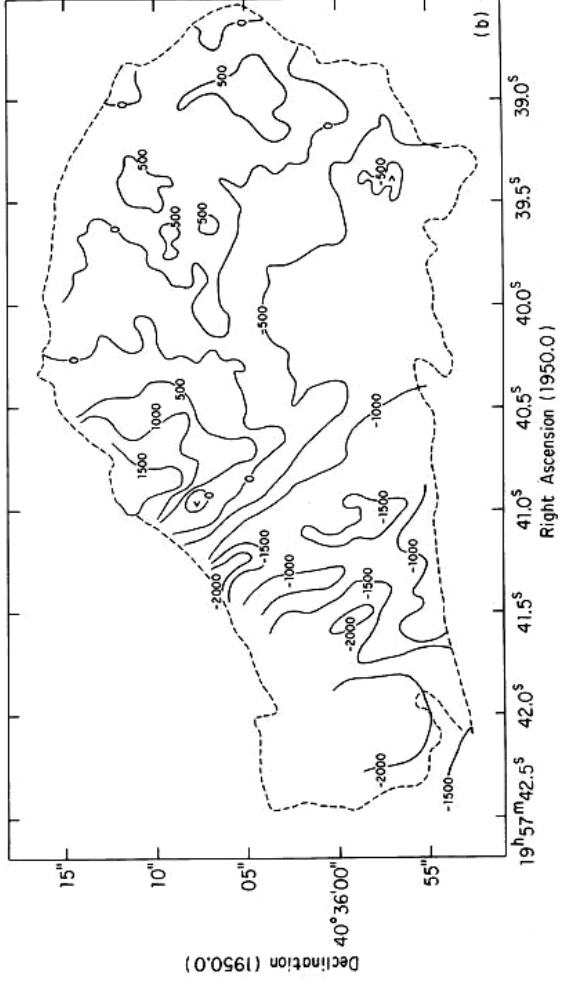
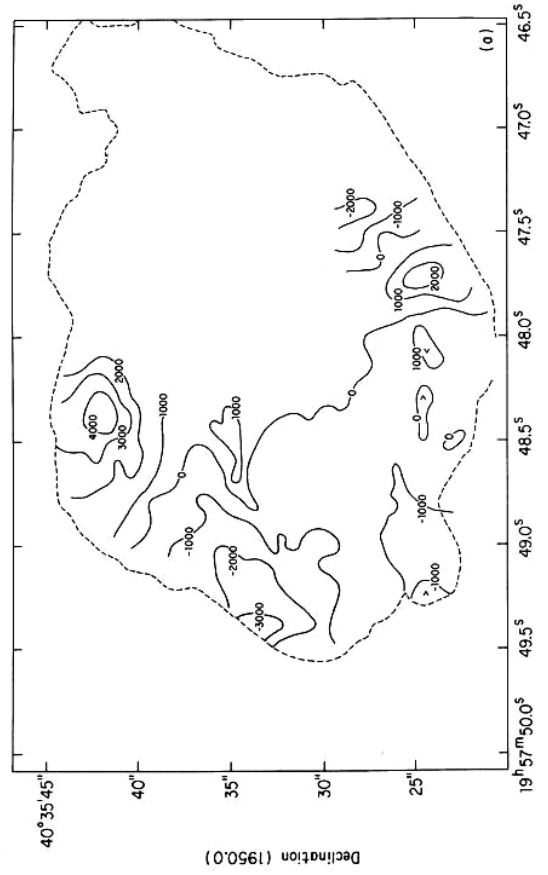
# BLR/NLR and AGN zoo

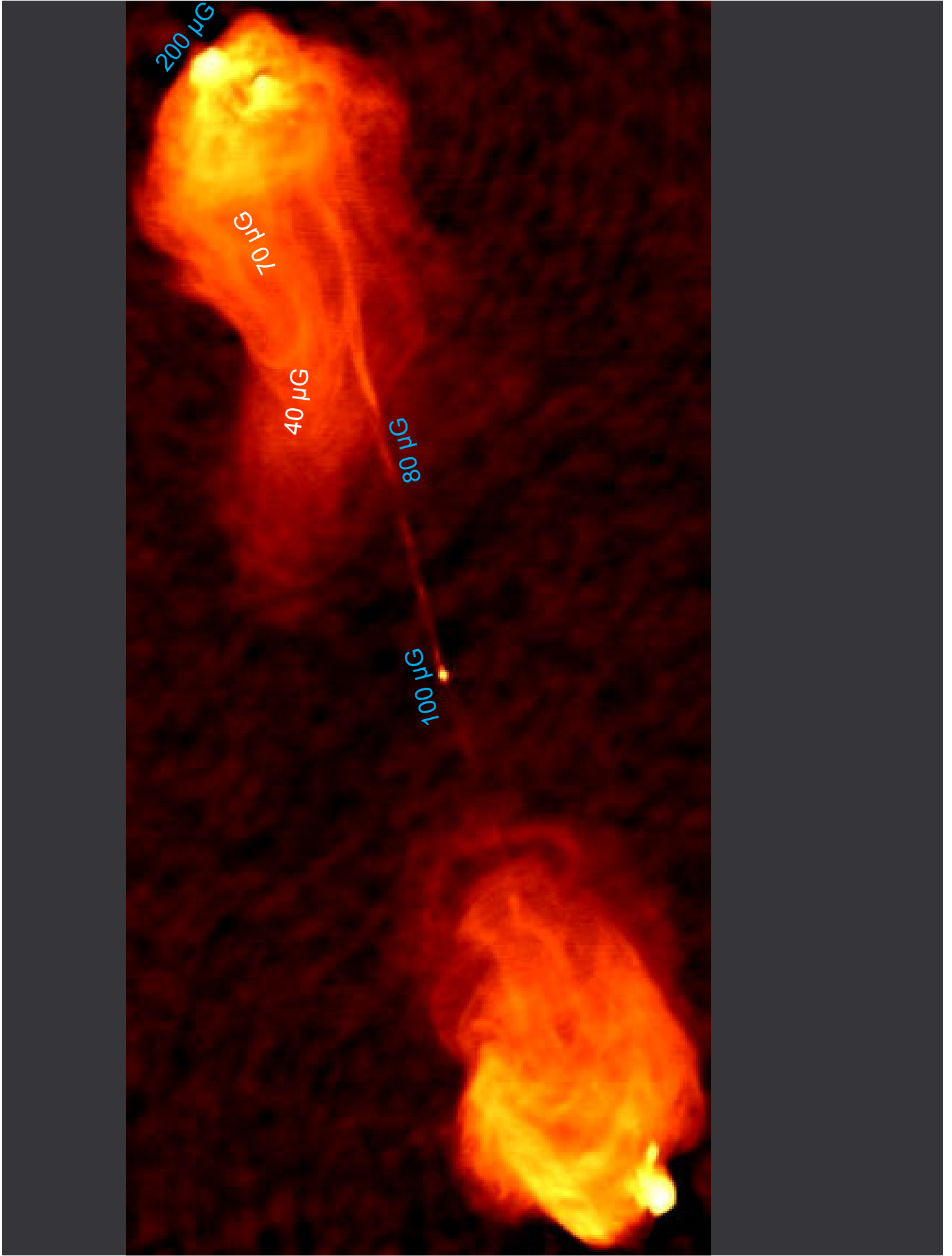


# Cyg A: B-fields



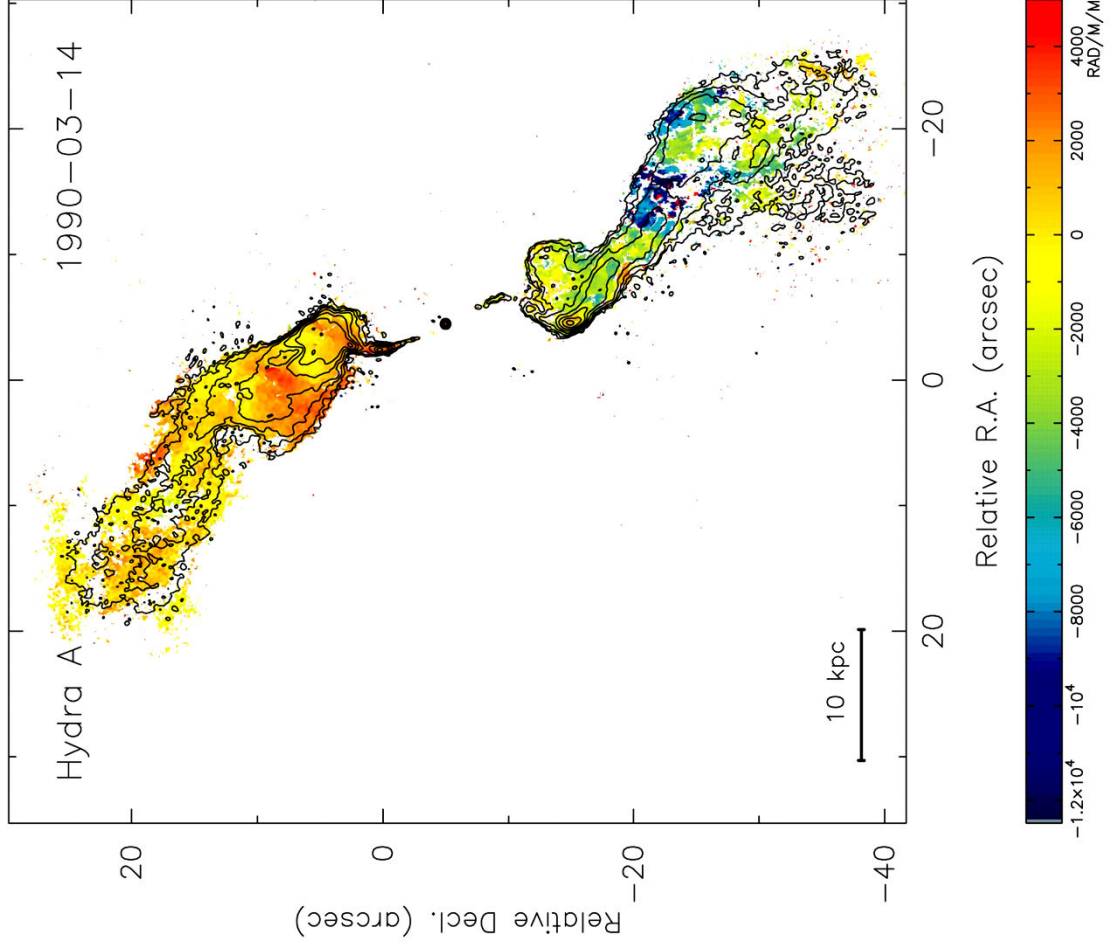
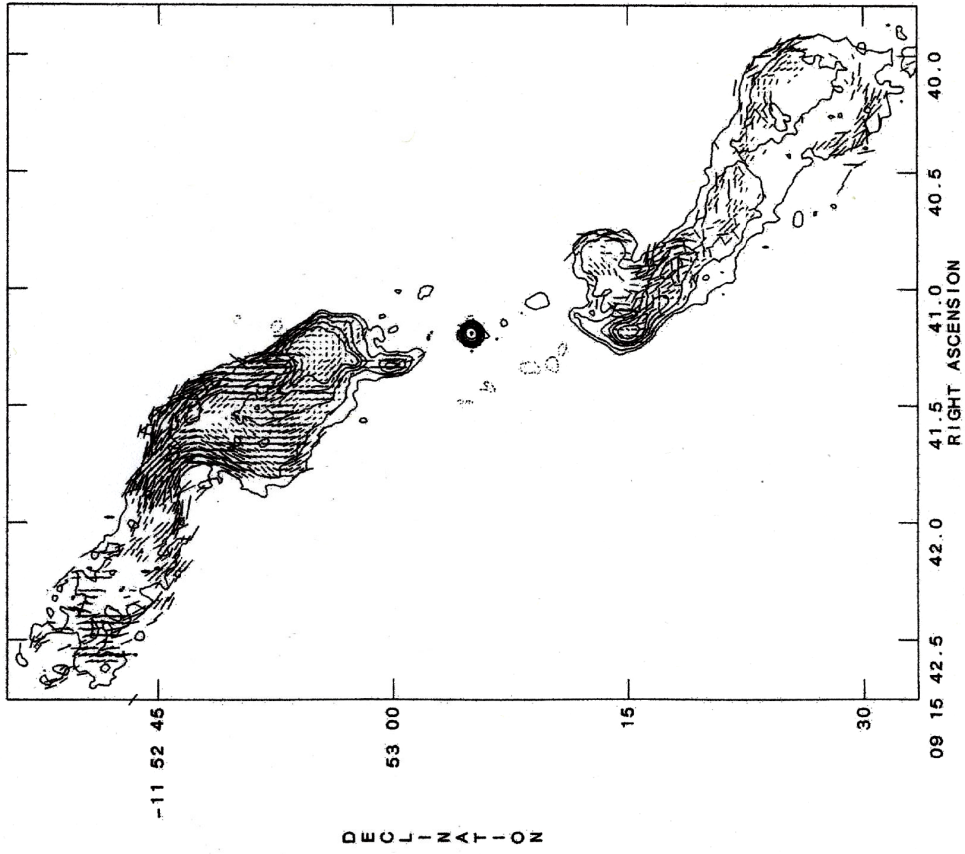
# Cyg A: RMS



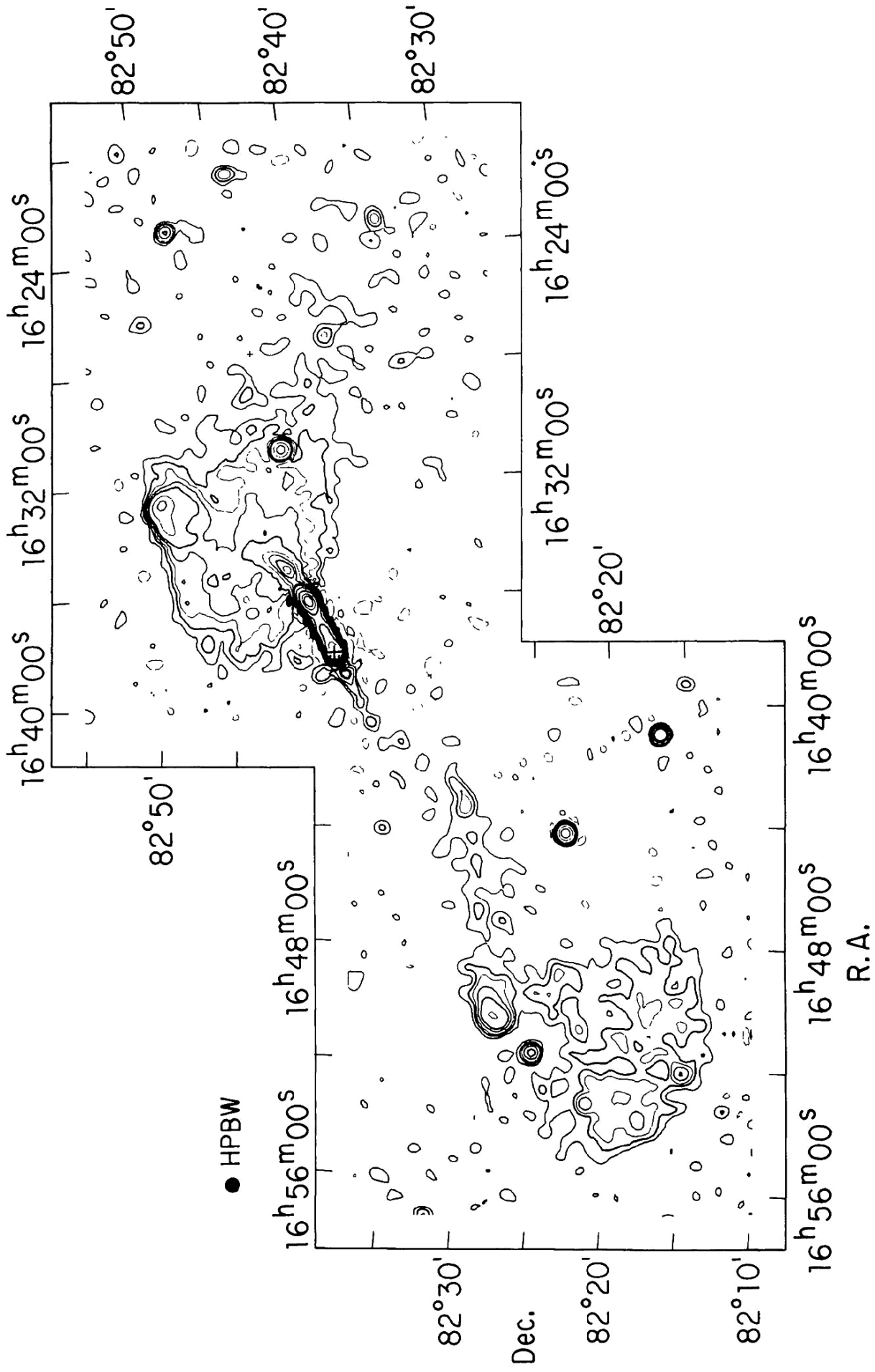


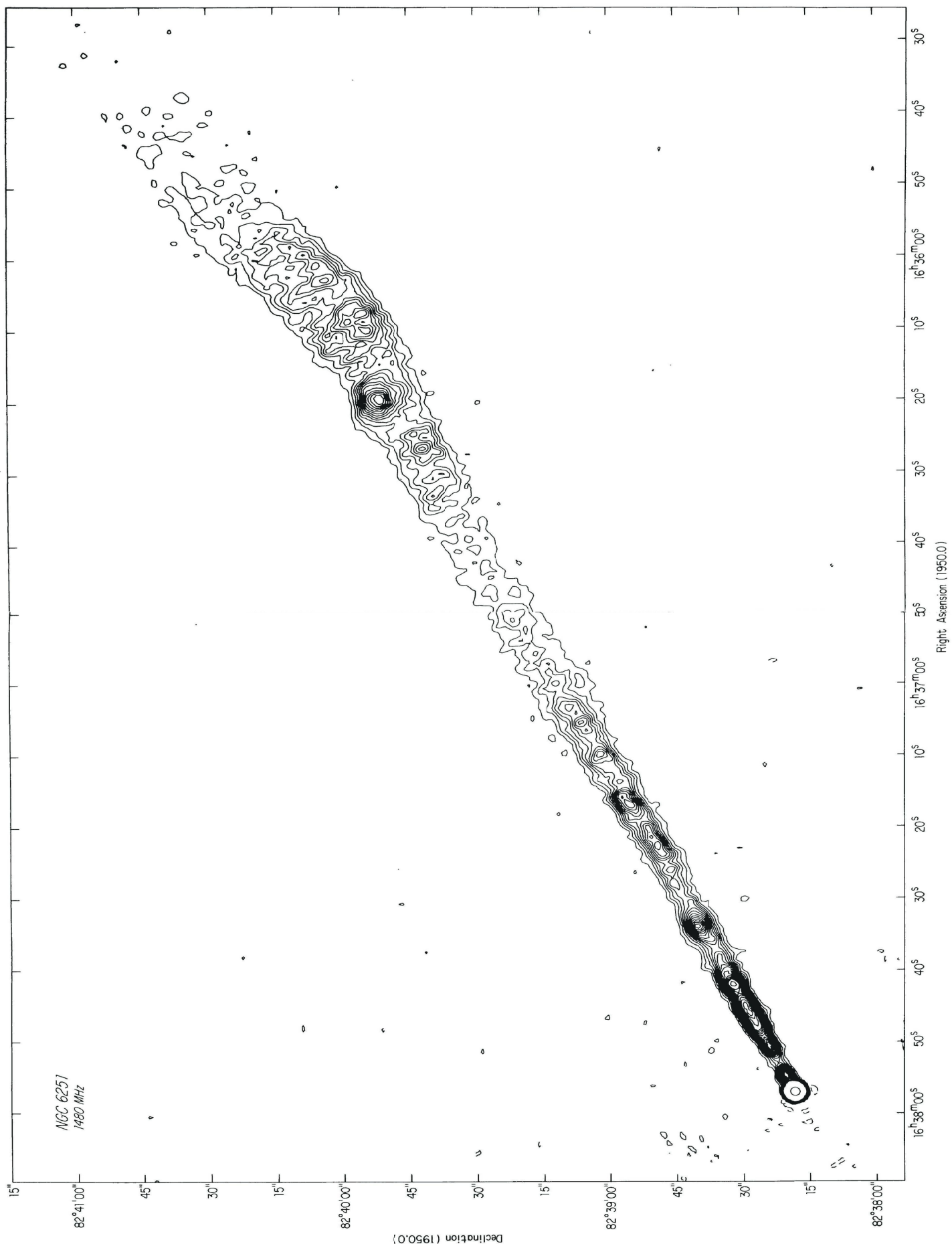


# Hydra A: B-fields and RMs

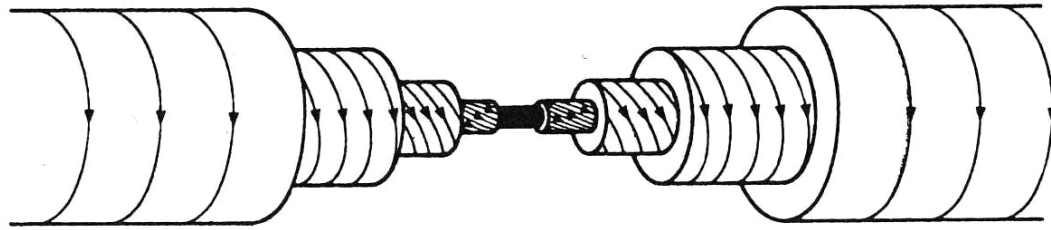


Jets: e.g. NGC 6251

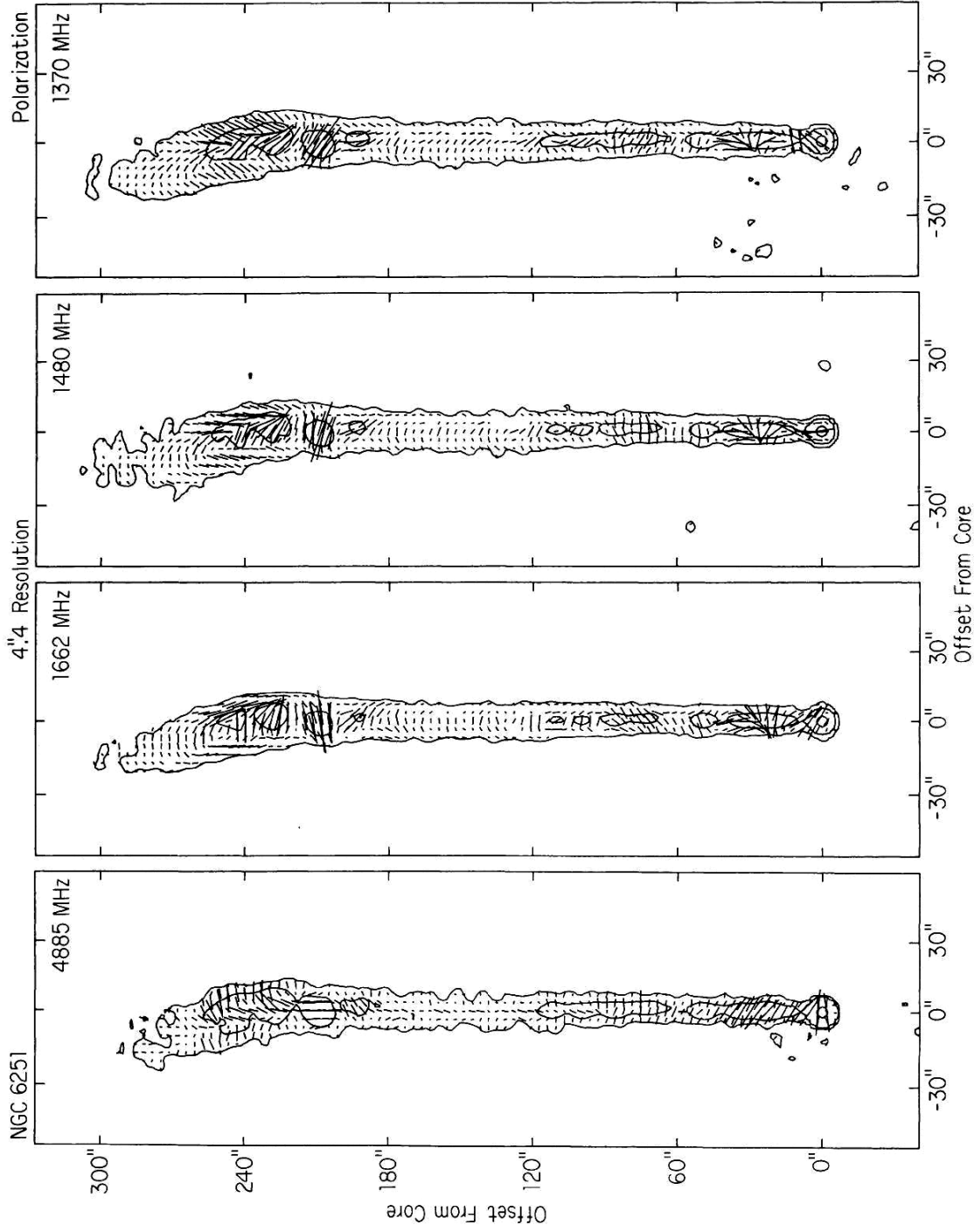




Flux rope in jet



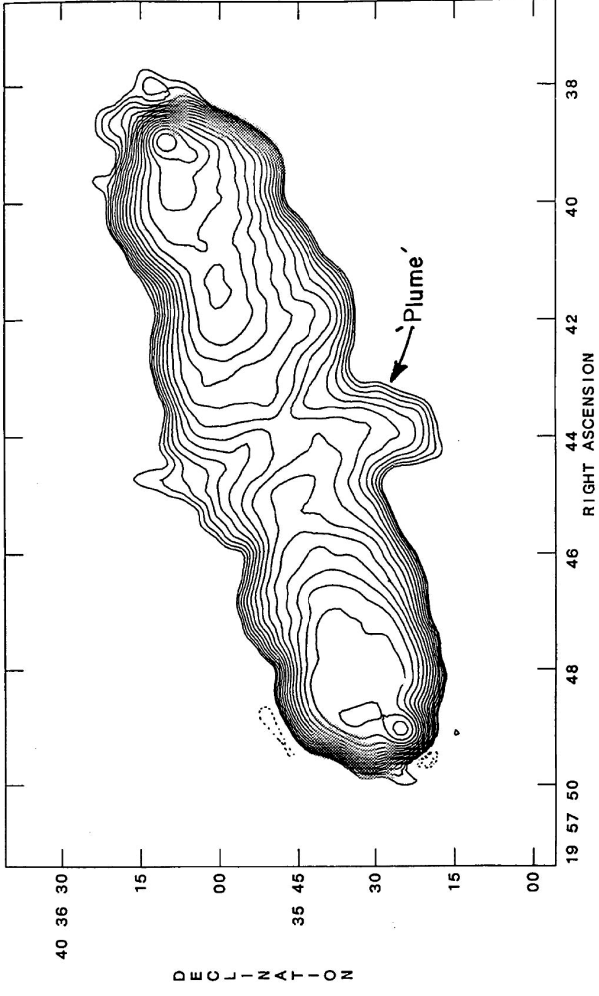
# NGC 6251 $\vec{E}$ -vectors



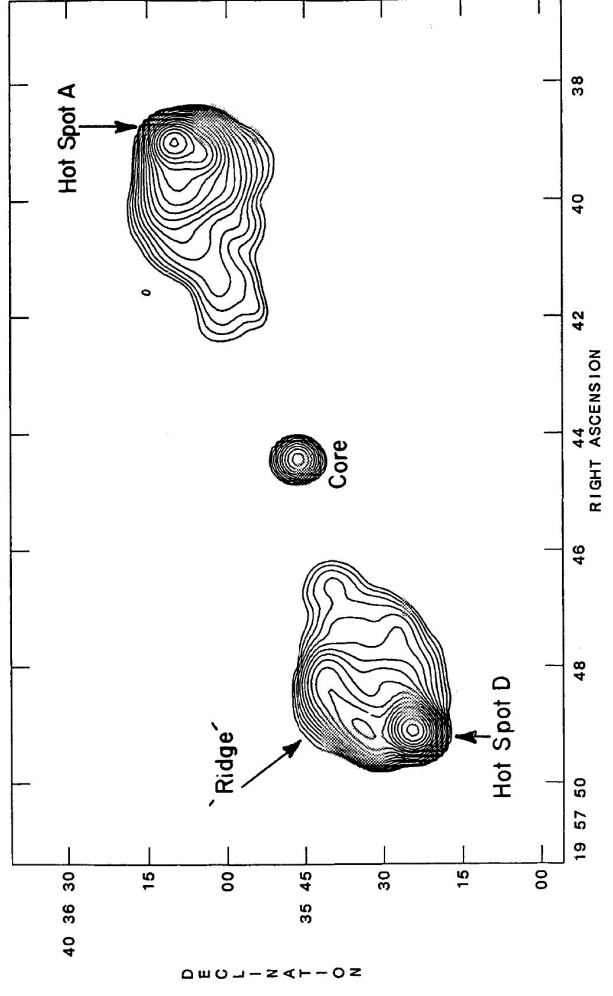
Cyg A:

synchrotron radiation

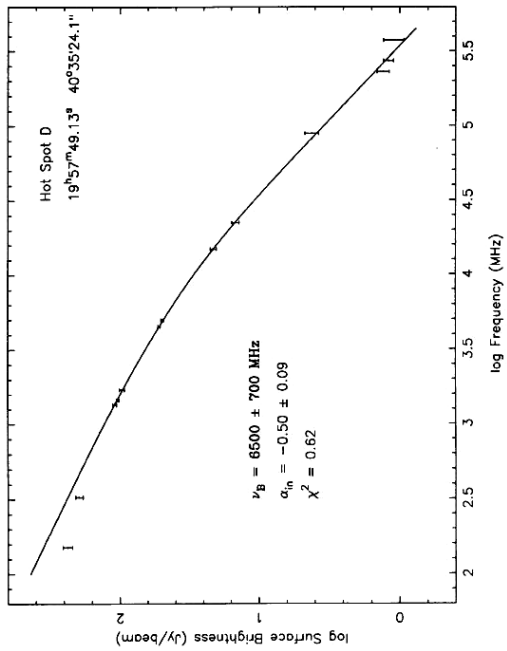
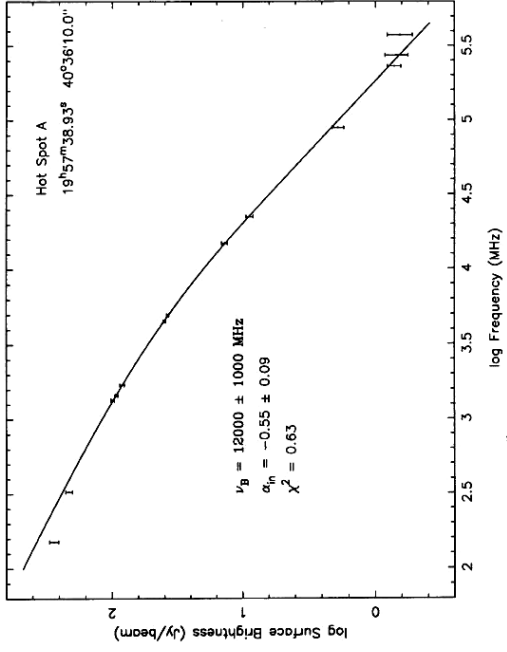
327 MHz



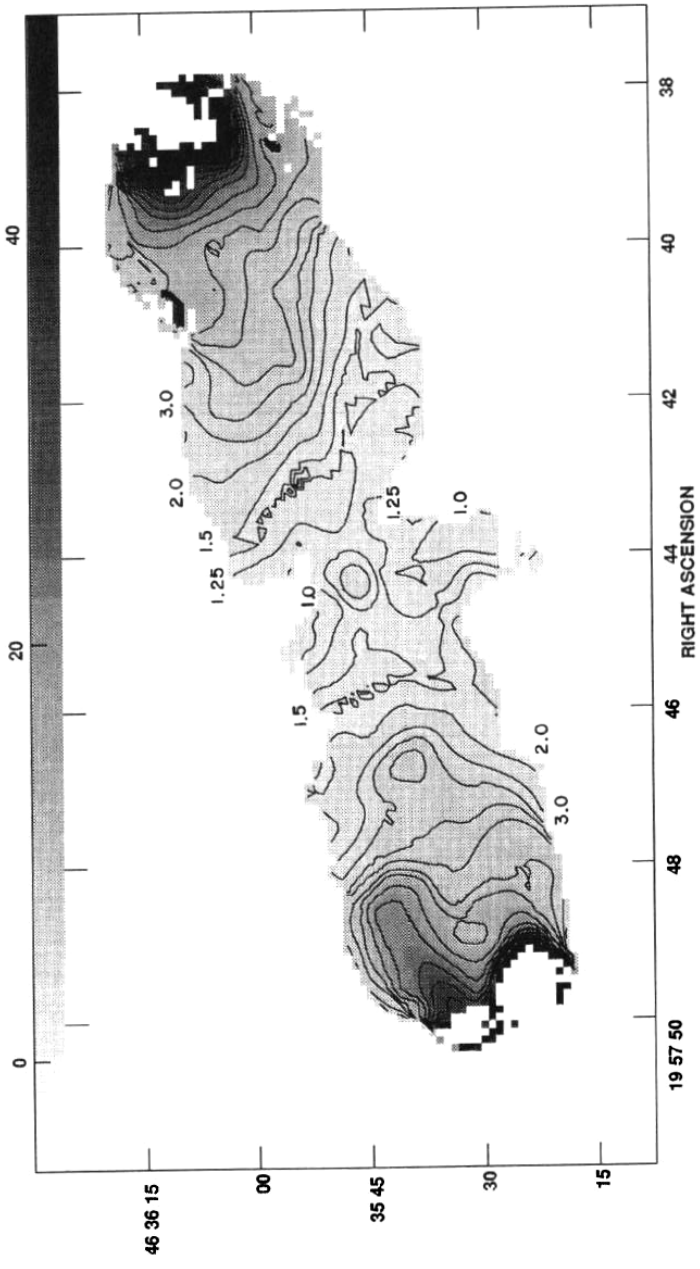
15 GHz



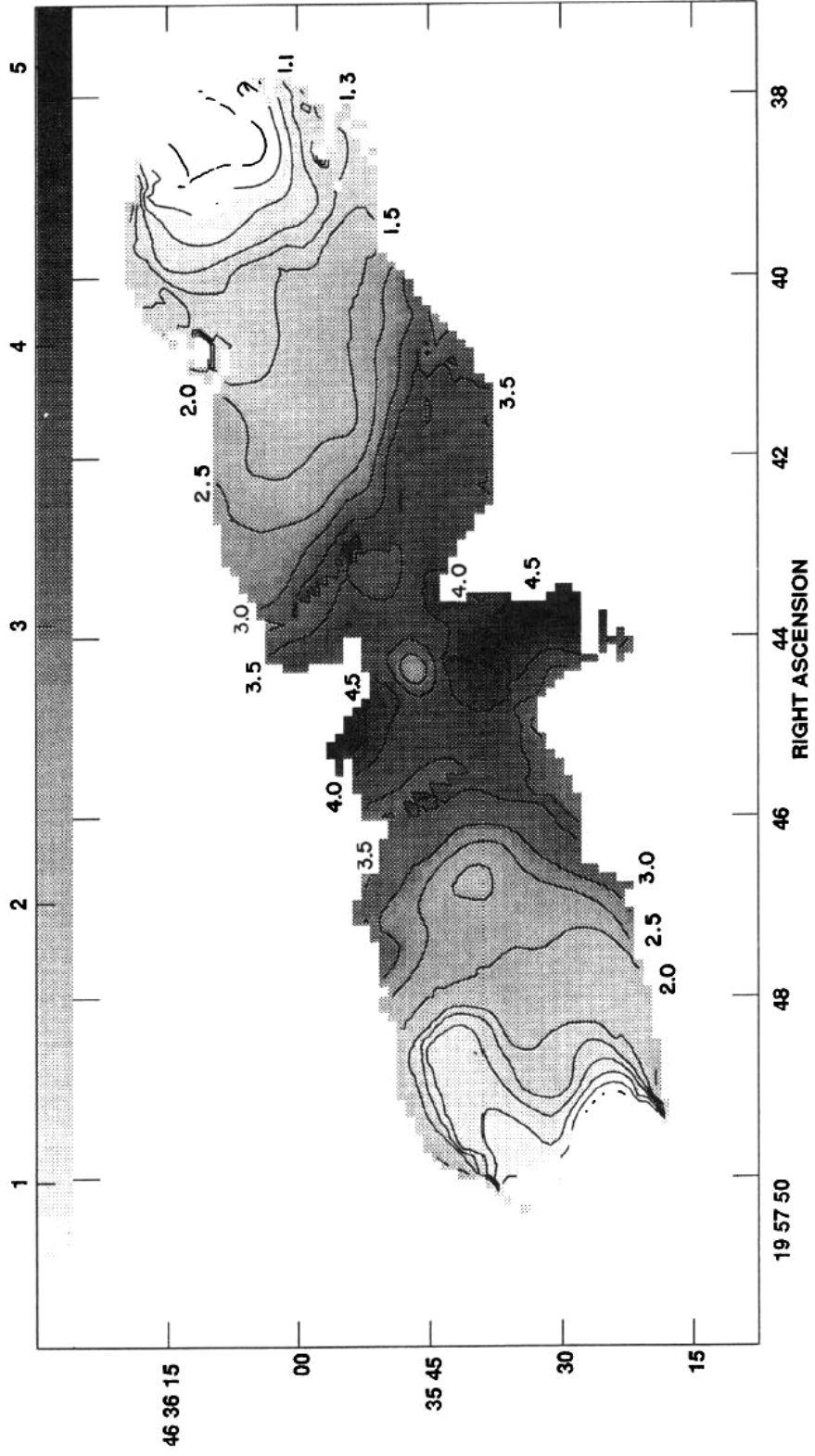
# Cyg A: spectral index



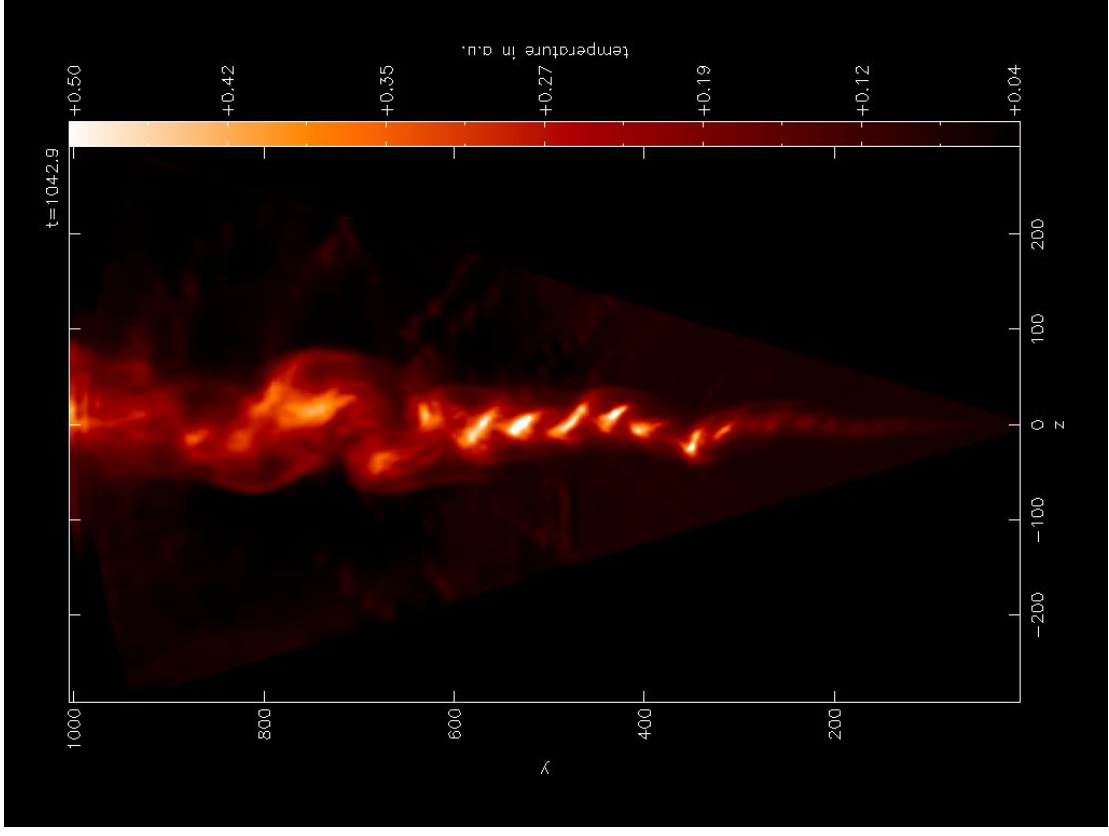
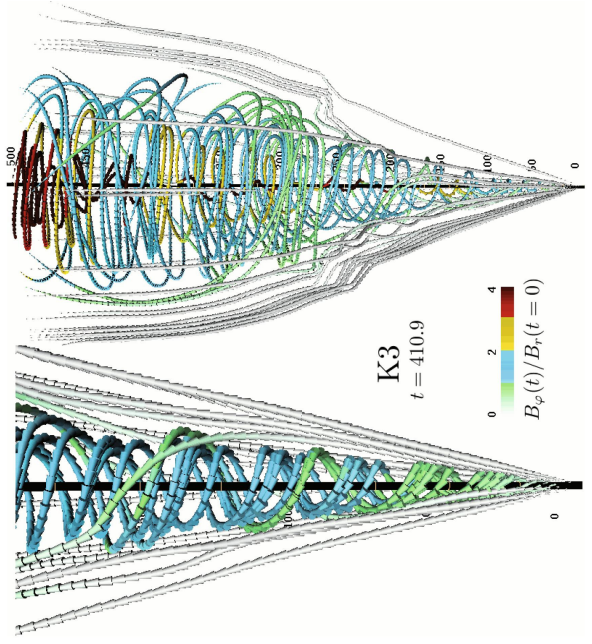
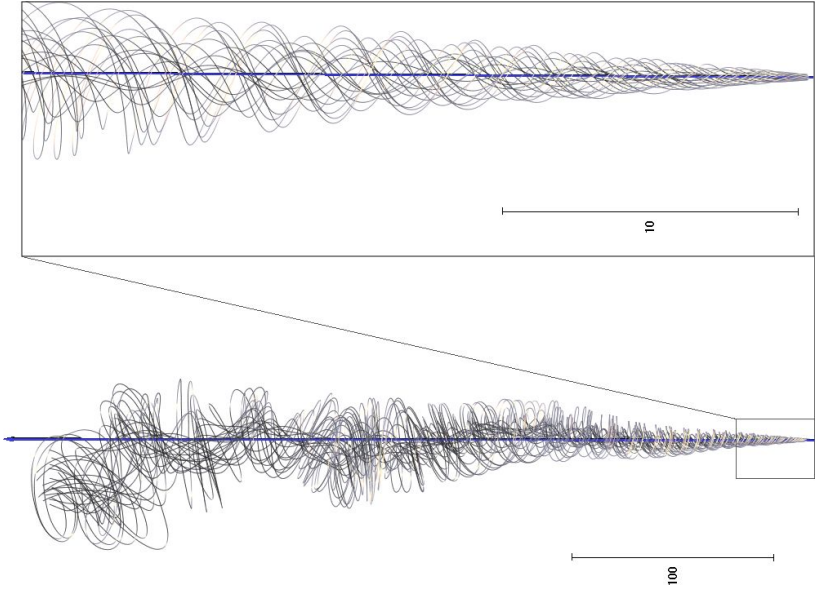
# Cyg A: break frequencies



# Cyg A: particle ages

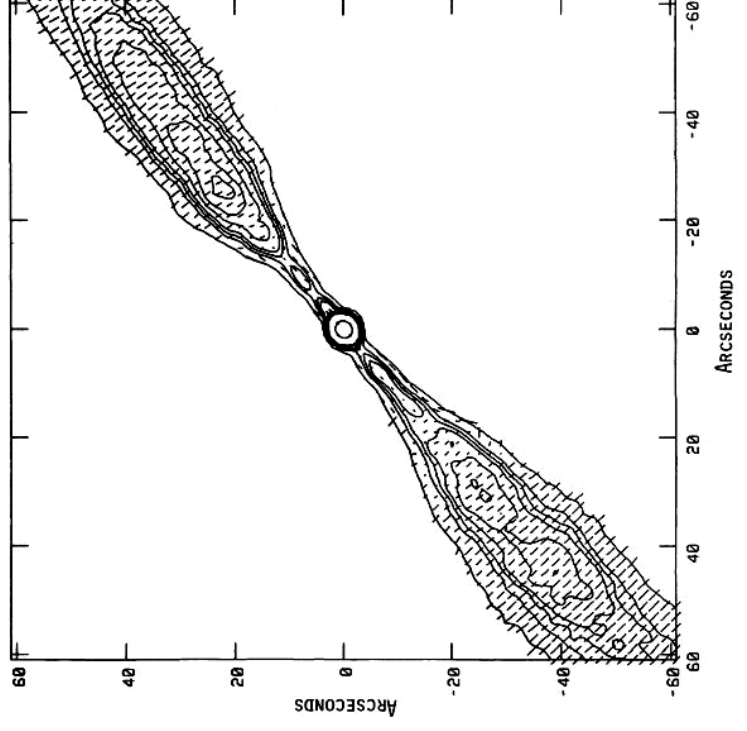
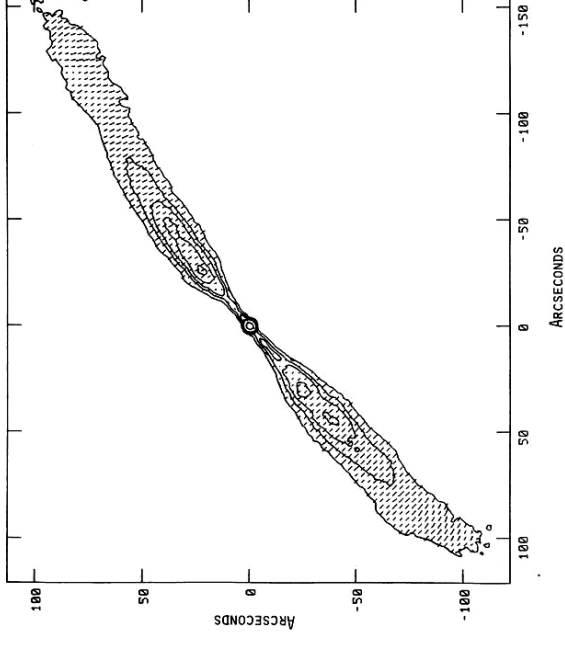
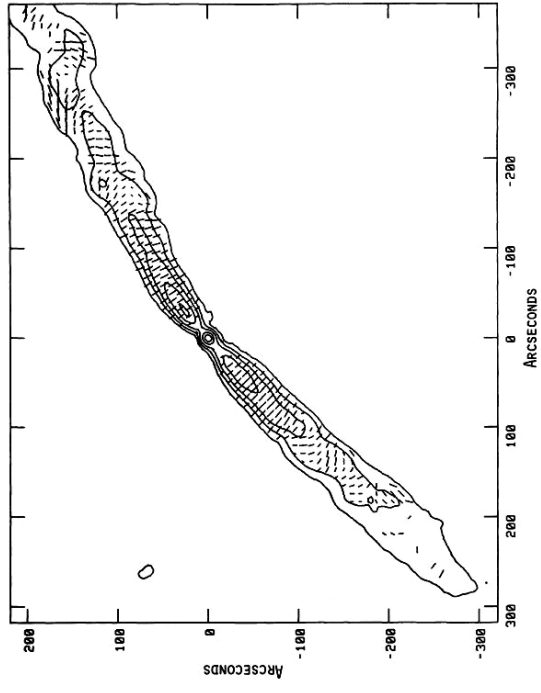


# MHD simulations of jets



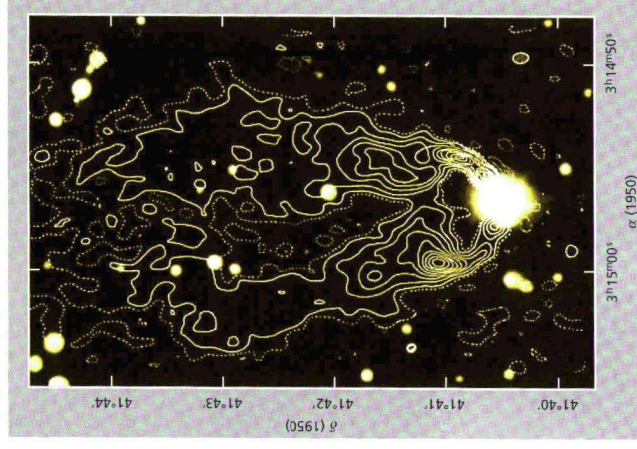
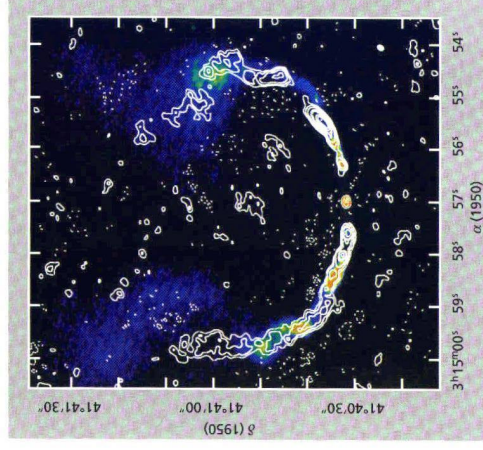
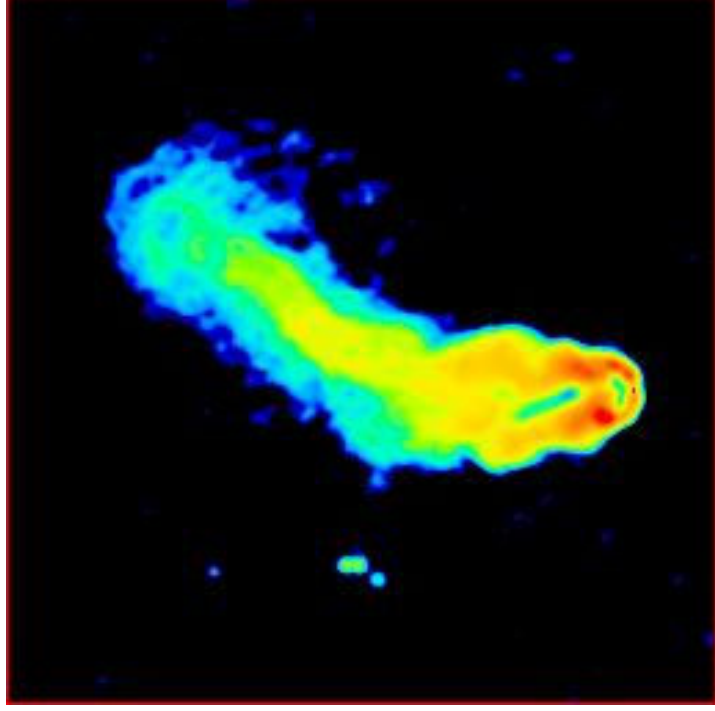
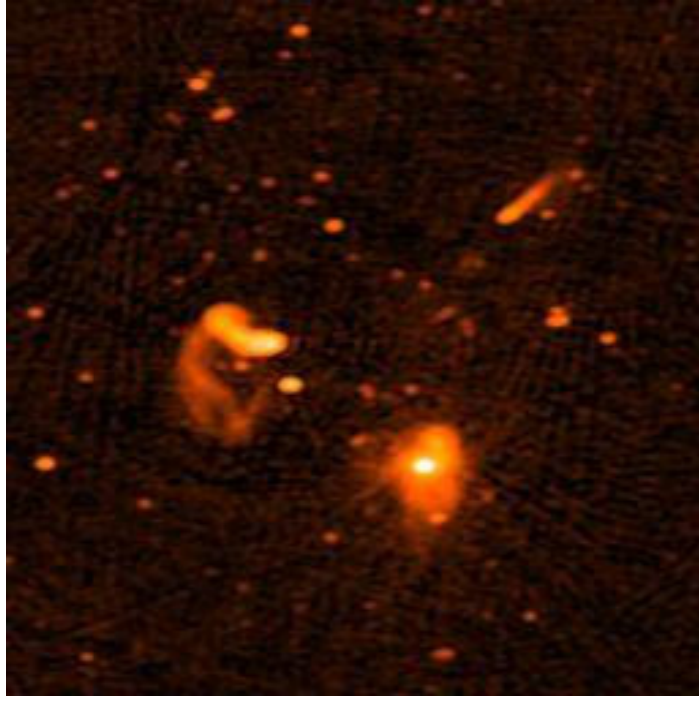


# B-fields in FR I radio galaxies: NGC 4296

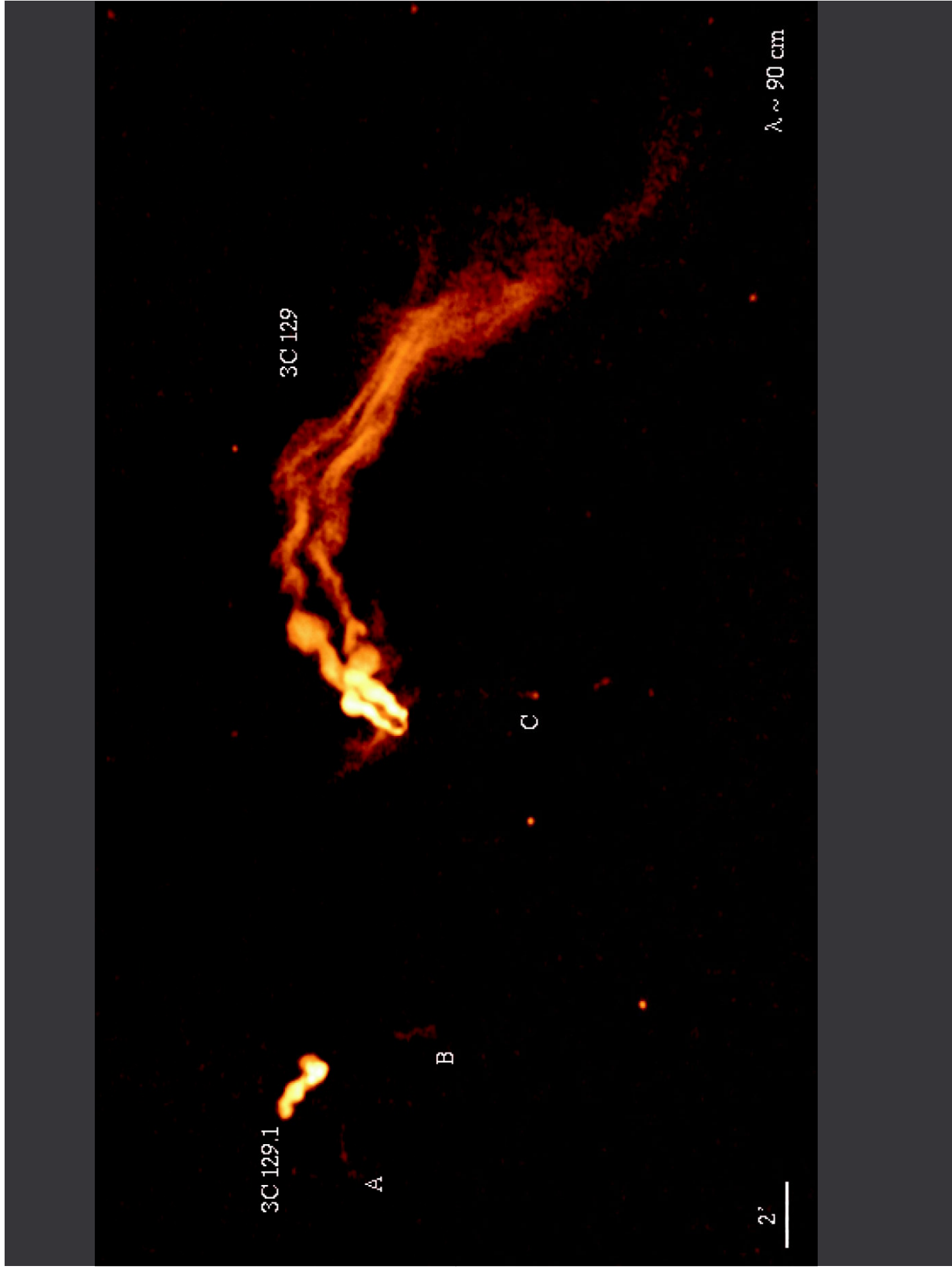


'Tailed' radio sources:

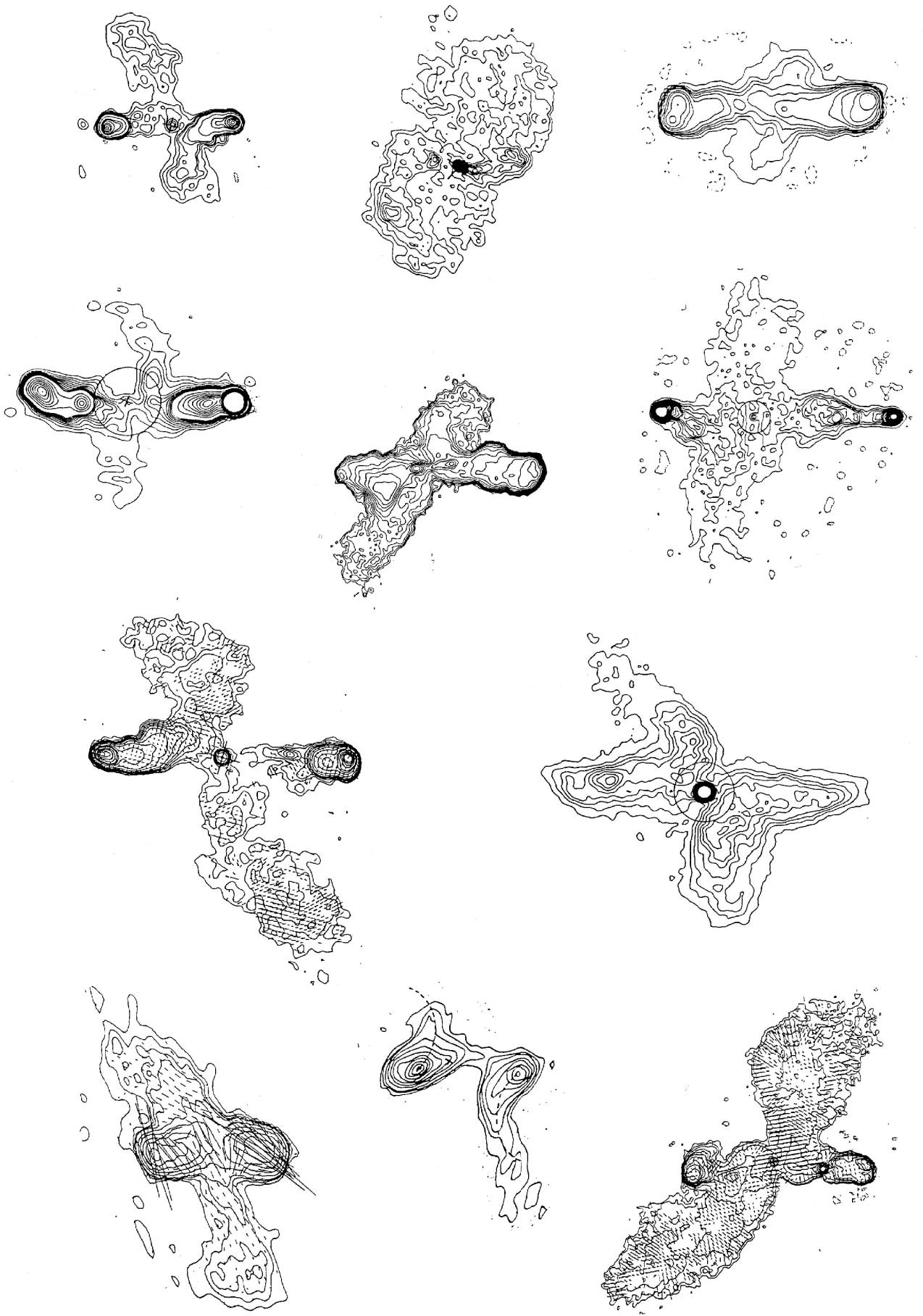
'cluster weather'!



NGC 1265



'X-shaped' radio sources: binary BHs and precession



# 'exhausting radio sources': B2 0824+30

