

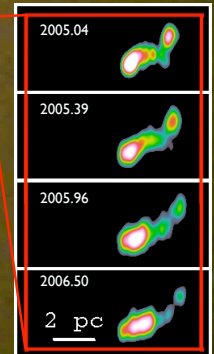
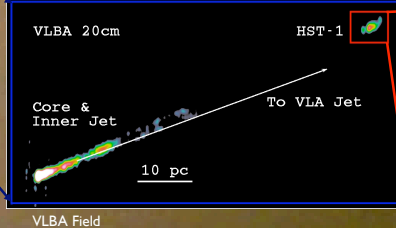
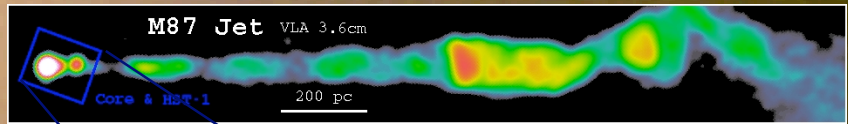
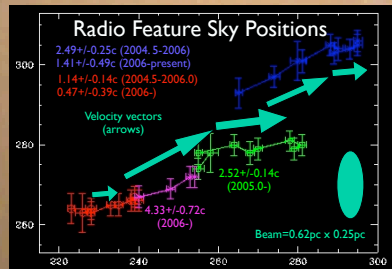
Relativistic Ejections Associated with High-energy Outbursts in the M87 Jet



Teddy Cheung (NRAO Jansky Fellow, Stanford KIPAC)

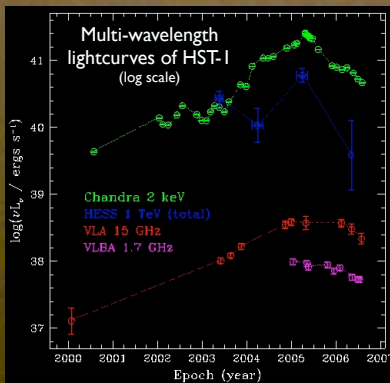
Dan Harris (Harvard-CfA)

Lukasz Stawarz (Stanford KIPAC)

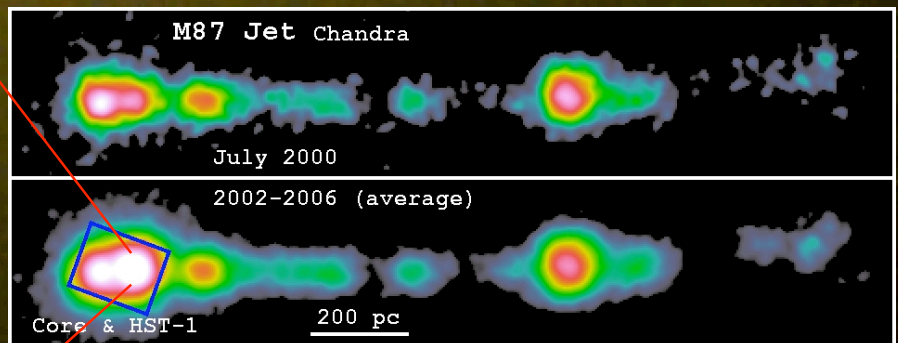
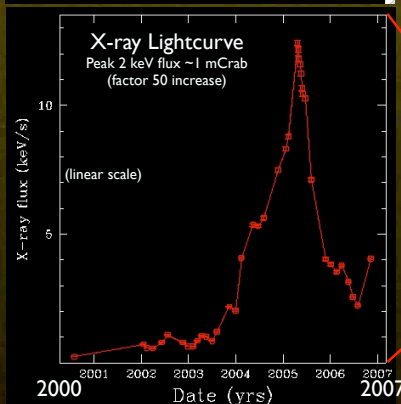


VLBA Detection of Multiple Superluminal Ejections in 'HST-1'

Genesis of superluminal ejections *and* multi-band variability isolated in the jet >120 pc from central engine. Common wisdom assumes this happens much closer to (few-10 pc) and somehow related to the central supermassive black hole/accretion disk system



Multi-band Variability in HST-1 (jet knot >120 pc from Nucleus)



Variability results in Harris et al. (2003; 2006) & Perlman et al. (2003)

Background: Hubble Heritage Image

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