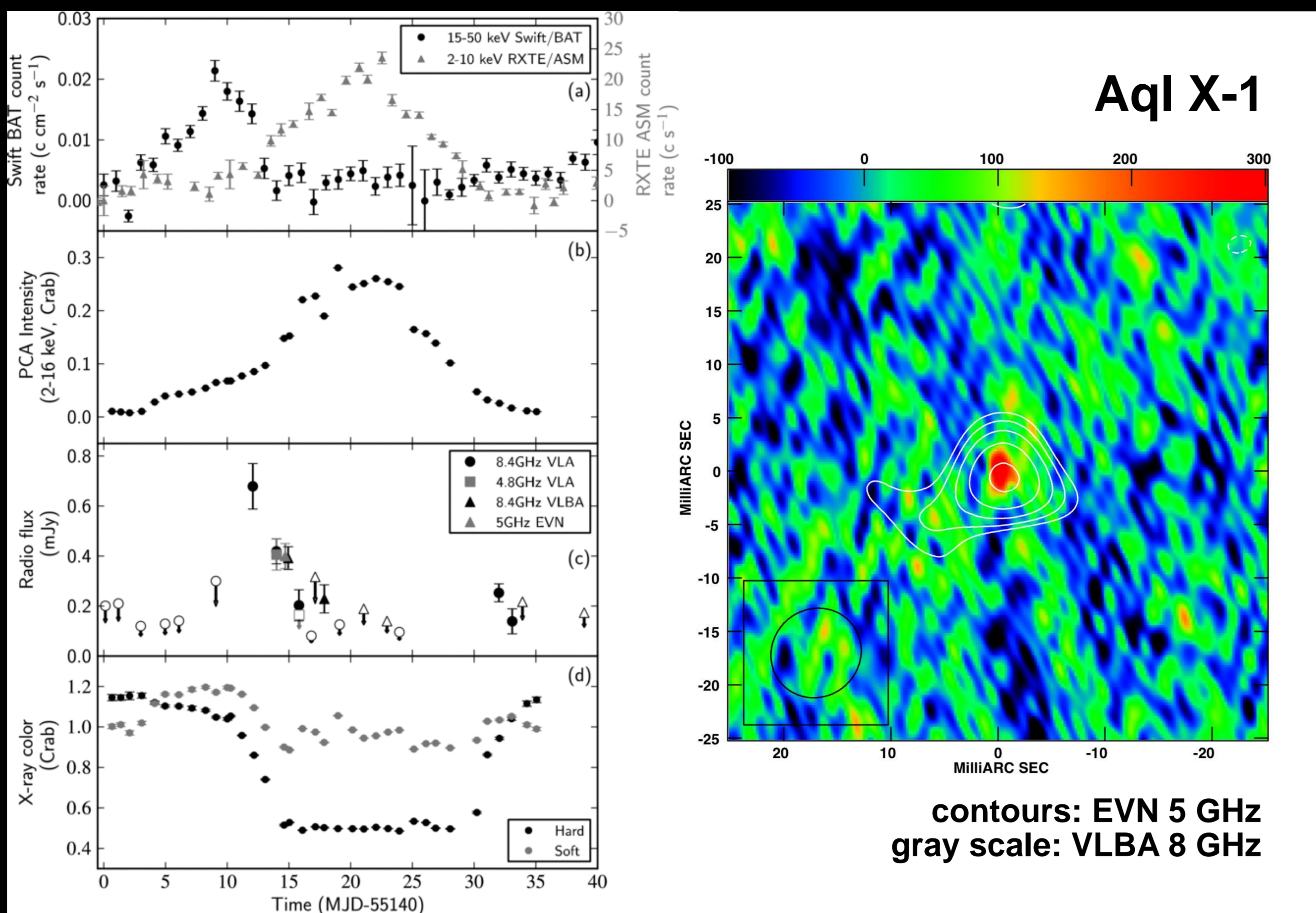


Transients and VLBI

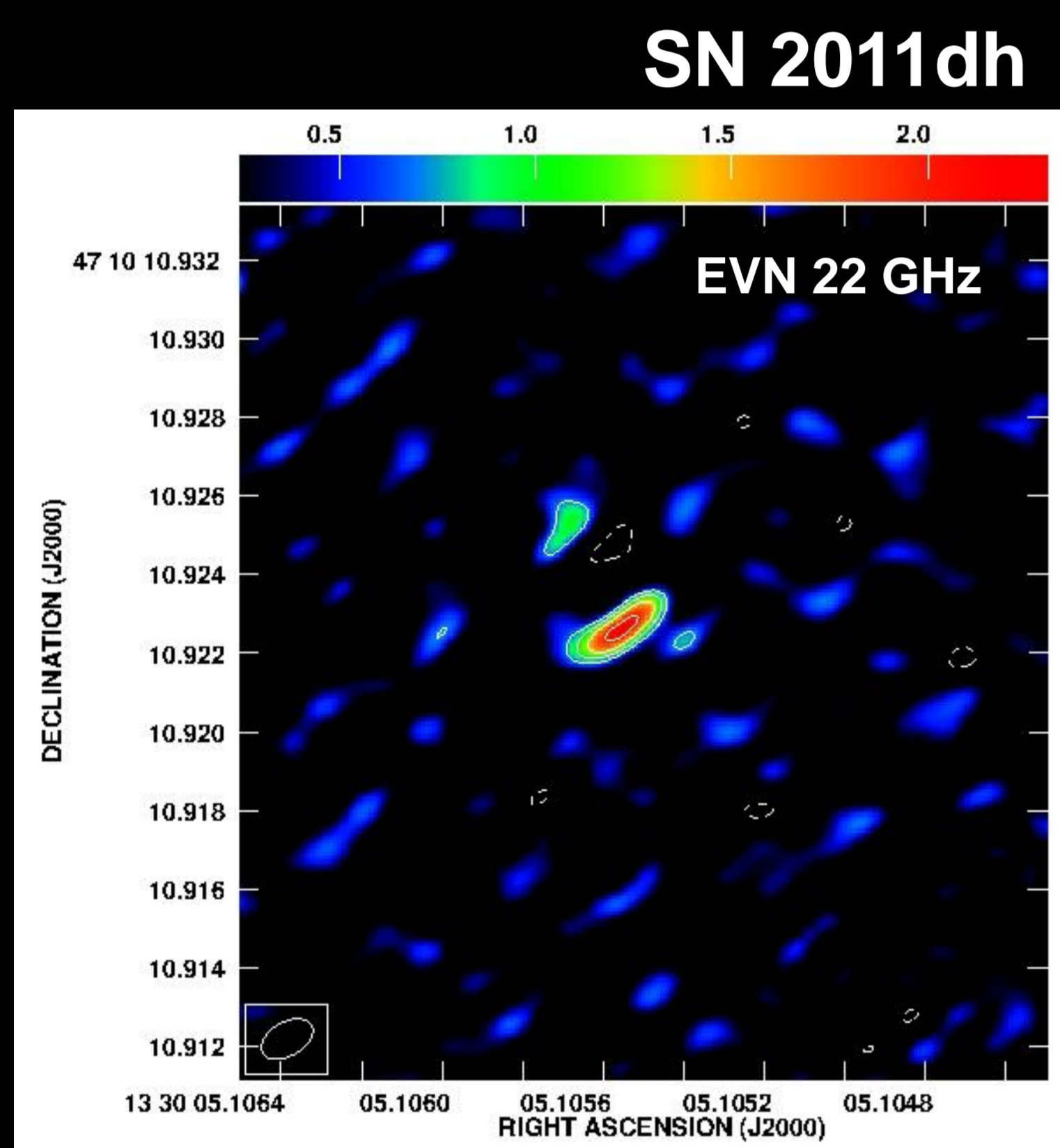


The first radio detection of the X-ray binary Aql X-1 at mas scales. The multi-wavelength observational campaign obtained the best coverage of an outburst of this object.

Publication: Miller-Jones et al., 2010 ApJ 716, L109

ASTRON people involved: Valeriu Tudose, Michael Garrett

JIVE people involved: Zsolt Paragi

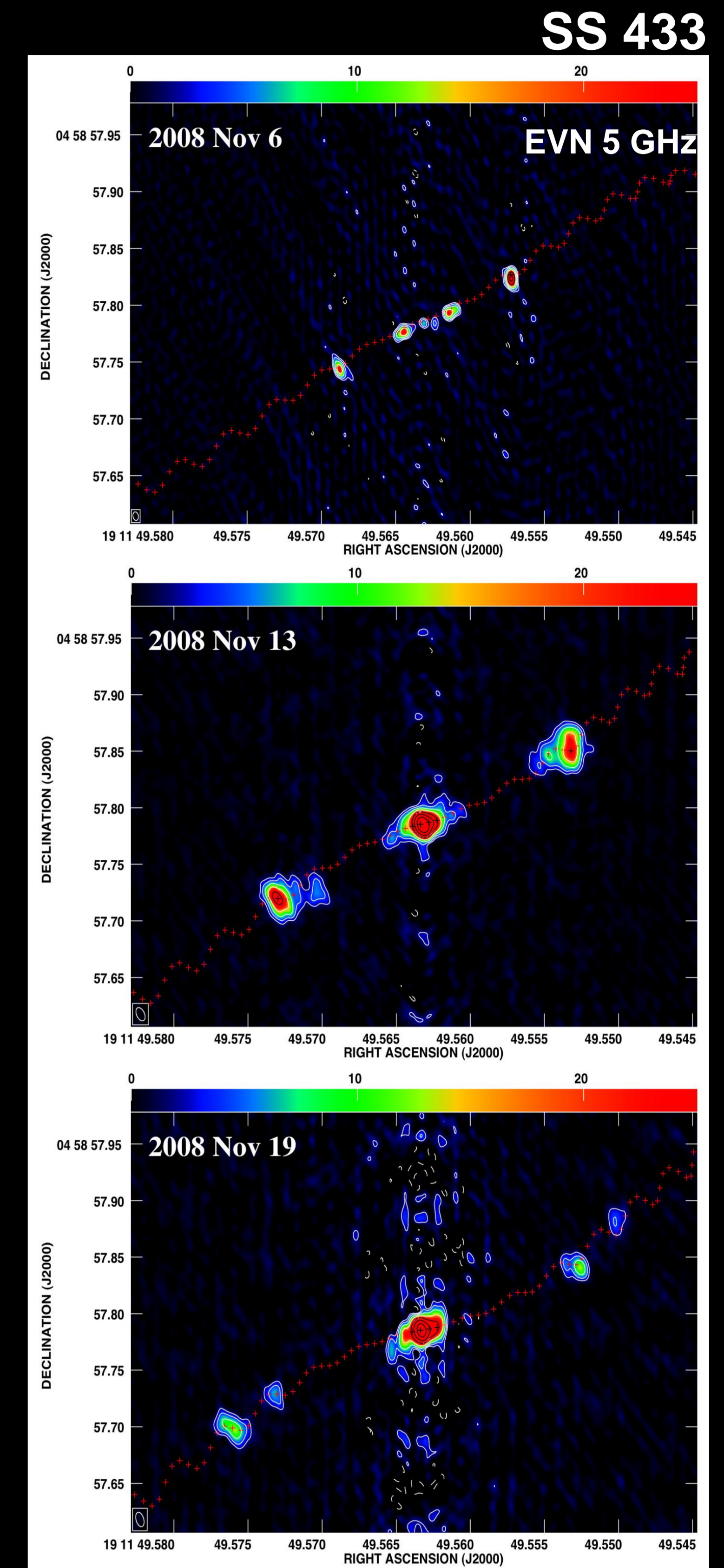


Radio maps of the X-ray binary SS 433 during an outburst. Overlaid are the predictions of the “kinematic model”. The red marks correspond to the locus of hypothetical ejections at one day intervals.

Publication: Tudose et al., in preparation

ASTRON people involved: Valeriu Tudose, Michael Garrett

JIVE people involved: Zsolt Paragi



VLBI image of the youngest radio supernova, observed just 2 weeks after its discovery on 2011 June 1st. The supernova is relatively nearby, in the galaxy M51, at a distance of 7-8 Mpc.

Publication: Marti-Vidal, Tudose, Paragi et al., submitted to A&A

ASTRON people involved: Valeriu Tudose, Megan Argo, Michael Garrett

JIVE people involved: Zsolt Paragi, Jun Yang

A few radio maps of the X-ray binary Cyg X-3. The VLBI observations were used to test a model for the radio/X-ray states of the system.

Publication: Tudose et al., 2010 MNRAS 401, 890

ASTRON people involved: Valeriu Tudose, Michael Garrett

JIVE people involved: Zsolt Paragi

