Outside GCN IAUCS Other MacOS: Dashboard Widget Follow ATel on <u>Twitter</u> ATELstream ATel Community Site	The Astronomer's Telegram Post a New Telegram Search Information Telegram Index Obtain Credential To Post RSS Feeds Email Settings Present Time: 2 Sep 2013; 07:20 UT		This space for free for your conference.
[<u>Previous</u> <u>Next</u> <mark>ADS</mark>]		5158	Related e-EVN radio detection of Aql X-1 in outburst
e-EVN radio detection of Aql X-1 in outburst			Radio emission detected from Aql X-1 following the recent state transition
ATel #5158; <u>V. Tudose (ISS), Z. Paragi (JIVE), J. Yang (JIVE), J. C.A. Miller-Jones (ICRAR),</u> R. Fender (SOTON), M. Garrett (ASTRON), A. Rushton (SOTON), R. Spencer (JBO)		5136	Aql X-1 is undergoing transition from the hard state to the soft state
on 24 Jun 2013: 12:49 UT		5129	Optical observations of Aql X-1
Credential Certification: Zsolt Paragi (zparagi@jive.nl)		5117	Swift observations confirm renewed activity of the transient neutron star X-ray
Subjects. Radio, Bilary, Neutron Star, Transfent		5114	Possible detection of the initial
The neutron star X-ray binary Aql X-1 is currently in outburst (ATel $\#5114$, $\#5117$, $\#5129$, $\#5136$, $\#5148$).		2871	phase of Aql X-1 outburst Aql X-1 in brightest outburst since 2003
Using the European VLBI Network (e-EVN) we observed Aql X-1 at 5 GHz in two time-slots: 2013 June 18 between 19:48 - 20:36 UT (MJD 56461.825 - 56461.858), and 2013 June 19 between 02:53 - 05:54 UT (MJD 56462.120 - 56462.246). The two datasets were combined together and then calibrated. The participating radio telescopes were: Effelsberg (Germany), Jodrell Bank Mk2 (UK), Medicina (Italy), Noto (Italy), Onsala 25m (Sweden), Torun (Poland), Yebes (Spain), Westerbork Synthesis Radio Telescope (Netherlands), Shanghai (China), Hartebeesthoek (South Africa).		2850 2748 2744 2742 2317	Outburst of Aql X-1 as observed by RXTE and Swift Further Optical Observations of Aql X-1 X-ray, UV, Optical and NIR Observations of Aql X-1 New X-ray Activity from Aql X-1 EVN detection of Aql X-1 in outburst
The naturally weighted radio map had a beam of 6.1 x 2.4 mas ² at PA=73.5 deg. We detected the target at a peak brightness of $259\pm40 \mu$ Jy/beam. Both image-plane and uv-plane fitting show the major axis of the fitted Gaussian component to be oriented within 15 deg of the beam's PA thus rendering uncertain any inference with respect to the presence and orientation of extended radio emission. The position of Aql X-1 as measured via image-plane fitting is:		2303 2302 2299	Aquila X-1 optical rise Aql X-1 transition towards the soft (banana) state accompanied by radio/NIR detection INTEGRAL detects Aql X-1 in outburst in a hard state Aquila X-1 in weak outburst
RA: 19h 11m 16.0245341s		2288	Aql X-1 back in outburst: multi-
DEC: 00deg 35' 05.879384"		2000	wavelength observations e-EVN observations of Aql X-1 in outburst
The position error due to phase referencing is estimated to be about 0.5 mas. This is about 10 mas away from the VLBI positions reported in ATel $#2317$ and Miller-Jones et al. 2010, ApJ, 716, L109. This discrepancy is likely mainly due to the proper motion of Aql X-1.			The ongoing outbursts of Aql X-1 and Ginga 1843+009 as seen with INTEGRAL/IBIS-ISGRI Optical and hard X-ray detections of an outburst from Aquite X-1
e-VLBI research infrastructure in Europe is supported by the European Union's Seventh Framework Programme (FP7/2007-2013) under grant agreement RI-261525 NEXPReS. The EVN is a joint facility of European, Chinese, South African and other radio astronomy institutes funded by their national research councils.			Aquila X-1 Aquila X-1 in activity Radio observations of Aql X-1 On-going radio flare in Aql X-1

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