

N55a **VLBI Monitoring of Water Masers Around a Semiregular Variable
R Crateris**

Jose Ishitsuka, Hiroshi Imai, Toshihiro Omodaka, Munetaka Ueno, Osamu Kameya, Tetsuo Sasao, Masaki Morimoto, Takeshi Miyaji, Junichi Nakajima, Teruhiko Watanabe and J-Net Members

Four observations were made with the Japan VLBI Network, and four more complementary observations with the same system but without the Nobeyama 45 m. telescope. Here we present the results from two observations. The angular distribution of the water vapor masers changed from one epoch to other; the maximum displacement detected is 1.54 ± 0.44 mas. Also we can report shifts on the velocity of each spot from the two observations spaced 37 days. The velocity shifts are from -1.4 to 1.1 Km/s/year. From eleven spots detected eight are showing displacements, so 80 % of the total, is a good indicator of credibility. We are expecting to analyze the other epoch data and have a precise description of the proper motion of the maser spots on the semiregular variable R Crateris.