

Imaging Simulations for the East Asia VLBI Network - Comparison with the Results of VLBA

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The East Asia VLBI Network (EAVN) is going to collaborate on various fields of research in astronomy and geodesy after the East Asia VLBI consortium committee has organized in 2004. In the East Asia region, there are 13 VLBI stations in Japan and China which are working currently and 3 stations in Korea are under construction. The aim of this work is to estimate the imaging performance of EAVN for 3C345 source model. Possible configurations are selected and simulated about the declinations of -29, 0, 30 and 60 degrees at 22 GHz. Same simulation has been done for VLBA configuration for comparison. For both two configuration the restored images were recovered the main structure of the model source but EAVN result shows better imaging quality than VLBA.