



Some plausible causes of the radio source coordinate variations

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It is well known, that the analysis of variation of radio-sources coordinates in time is overwhelmingly important, since they can affect seriously the precision and accuracy of the CRF as well as the precision and accuracy of the nutation and Universal Time estimations obtained from the processing of VLBI observations. Therefore, it is so important to analyze the causes resulting in radio source apparent coordinate variations in time. In our study, we analyze some plausible causes, which can lead to such variations. For detailed analysis, two radio-sources have been chosen: 2145+067 and 4C39.25 (0923+392), which have long observational history and show significant coordinate variations. The effects of changes in radio source structure, changes in observation programs, observing network, etc. are discussed and demonstrated.