



Solar system and related topics study by the methods of the low-frequency radio astronomy

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In the present report the possibilities and some results of the high sensitive investigations of the Solar system objects at lowest frequencies have been reviewed. The Sun, Jupiter, Saturn, interplanetary medium, and other objects have been considered. Special attention has been paid to the space weather problem. The stellar-planetary relations have been also investigated, particularly a search of active stars and exo-planets radio emission. During the last years many observations have been performed with the largest decameter arrays UTR-2 (Kharkov, Ukraine) and URAN system (Ukraine) and new receiving equipment. These investigations provided the possibility to get the important information about the fine time-frequency structures of the weak sporadic radio emission. Very good perspectives come into existence in connection to the creation and implementation of the new generation of low-frequency radio telescopes, i.e. LOFAR (the Netherlands), E-LOFAR (European countries), LWA (USA), LSS (France), GURT (Ukraine), etc.