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Global structure of the solar wind during the solar minimum and in the beginning of ascending phase as deduced from IPS observations

Since 2006 IPS observations are carried out using 16-beams Big Scanning Array of Lebedev Physical Institute in monitoring regime. All the sources with scintillating flux greater than 0.2 Jy are recorded daily at the frequency 111MHz during 24 hours in the sky strip of 80 width in declination. Methods of observations and data processing are briefly discussed. Results are presented showing the strong contribution to scintillation index from low latitude high plasma density region even in the case when the line of sight proximate point is located at mid-latitudes. We show that statistical ensemble of radio sources used in observations is sensitive to the distant low latitude plasma at low solar activity level. Dynamics of high density low latitude sheet is considered for the period 2006 –2011.

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