Detection of Alfvén waves propagating toward the sun along IMF

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Alfvén waves which propagate toward the sun in interplanetary space have been searched in the magnetic field and the low energy particle data obtained by GEOTAIL in the solar wind during the period from February 2, 1995 to November 30, 1997. The Alfvén waves propagating toward the sun in interplanetary space suggest that the magnetic filed line has both ends on the sun, forming a closed loop. Sixteen events has been found in the GEOTAIL data.

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