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Some remarks concerning long-term changes of the F region

parameters hmF2 and foF2

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It has been found by investigation of the long-term change of F region parameters that ionospheric stations indicating negative trend of hmF2 are mostly located at or in the neighbourhood of seashores, while ionosphere stations of positive trend are found inside continents. If cooling due to greenhouse gases is also taken into acceount, this would mean spatial variations of cooling; that is, effect of dynamical processes It is assumed that this geographical distribution of negative and positive trends is due to non-migrating tides. Investigations related to non-migrating tides seem to support this assumption.