

# DIAS PROJECT: THE OPERATION OF A DIGITAL SERVER FOR NOWCASTING AND FORECASTING IONOSPHERIC CONDITIONS OVER EUROPE

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## Abstract:

The DIAS (European digital upper atmosphere server) project aims to establish a pan-European digital data collection on the state of the upper atmosphere. It is based on the historical and real-time data collections provided by five operating European digital ionospheric stations (digisondes) involved in the project. The operation of the DIAS server will improve access to digital information on the state of the upper atmosphere over Europe, facilitating its use through the development of new value-added products such as radio propagation prediction characteristics for the European region, ionospheric nowcasting and forecasting maps, alerts and warnings for ionospheric disturbances. In addition, DIAS project will contribute to the formation of a network of public research institutes and private sector companies that will work together to bring out the full potential of this type of information for large number of users in modern HF communication and navigation systems.