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The DIAS system: A distributed information system for monitoring, predicting and forecasting ionospheric conditions over Europe

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DIAS is the unique European system for characterizing ionospheric conditions, based on real-time information and historical data collections provided by most of the operating ionospheric stations in Europe. DIAS is a distributed information system capable of supporting the acquisition, elaboration, evaluation, dissemination, and archiving of ionospheric information. The successful operation of DIAS is based on the effective use of observational data in operational applications through the development of new added-value ionospheric products and services that best fit the needs of the market, such as radio propagation characteristics for the European region, ionospheric maps, alerts and warnings for ionospheric disturbances. The continuous operation of DIAS supports efficiently radio frequency communications, satellite positioning and navigation systems, with the most reliable information. DIAS began providing services to users in August 2006, available online (http://dias.space.noa.gr).