



Meteorological Post Prediction Analysis using an Internet-Enabled Geospatial Information System

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The authors propose to demonstrate the capabilities of meteorological analysis across an internet enabled Geospatial Information System (GIS) architecture. Three processes will be described. The first process will describe how meteorological data collected in the field is sent through a Web Feature Service, to a remote server for geoprocessing and analysis. The second process will explain the data processing, and transmittal to a remote workstation. The third process will encompass the demonstration of a post-prediction analysis, utilizing an OGC-compliant Web Feature Service, a Web Map Service, or a Web Coverage Service within a meteorological research query scenario. This post-prediction analysis will reveal why an expected meteorological event did or did not occur, as expected. The authors will further discuss how the increased mobility and accessibility provided by an internet-enabled geospatial information system will benefit environmental research and industry.