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GIS tools for visualization and analysis of NEXRAD radar (WSR-88D) archived data at the NCDC

S. Del Greco (1), and S. Ansari (2)

(1) NOAA National Climatic Data Center, North Carolina, USA, (2) STG Incorporated, North Carolina, USA (Stephen.A.Delgreco@noaa.gov / Fax: 828-271-4022)

The NCDC ingests and archives, on average, 80 terabytes of NEXRAD Radar Data and products annually. These data are in high demand globally by both the public and private sectors. As much as one terabyte of data have been accessed monthly through the NCDC radar resources web page. In an effort to provide better support to these end users, NCDC has developed visualization tools for browsing and displaying these data.

The NCDC NEXRAD Interactive Viewer and Data Exporter load NEXRAD volume scan data, known as Level-II and derived products, known as Level-III, into an OPEN GIS compliant environment. The applications are launched via Java Web Start and run on the client machine while accessing the data remotely from the archive at the NCDC. The NEXRAD Interactive Viewer provides tools for custom data overlays, animations and basic queries. The export of images and movies is provided in multiple formats. The NEXRAD Data Exporter allows for data export in both vector polygon (Shapefile, GML, Well-Known Text) and raster (GeoTIFF, ESRI Grid, HDF, NetCDF, GrADS) formats