



Precipitation Climatology Using Q2

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Background: Scientific problem, approach, proposed work

NOAA does not have an accurate long-term precipitation archive that has a high temporal and spatial resolution and addresses issues in the StageIV MPE product. NSSL has developed and is testing a 2nd generation QPE (called Q2) that provides 1km spatial resolution with 5min temporal resolution.

NOAA needs a central archive to for accurate, high-quality, precipitation information temporal and spatial resolutions to support local-scale climate analysis and climate monitoring. NSSL has recently agreed to develop a 3-year Q2 re-analysis in support of CI-FLOW and SECART. NCSU is working NSSL and NCDC to expand the Q2 reanalysis for provide a 10-year period of record. Year 1 of this project will focus on project initiation, transfer of technology from NSSL to NCDC, and preliminary development of the Q2 products from WSR-88D level 2 data over a pilot domain that includes the Carolinas.

Accomplishments

The leadership team has created a plan for project implementation along with K. Howard at National Severe Storms Lab. A research scientist, Mr. Scott Stevens, has been hired and began work on March 8, 2009.