

Title: Precipitation Re-analysis using Q2

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Background

NOAA does not have an accurate long-term precipitation archive that has a high temporal and spatial resolution and addresses issues in the Stage IV 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 is focused 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.

Additional Information may be located at:

<http://cicsnc.org/projects/ryan-boyles.html>