

# **The GOES-R Rainfall Potential Algorithm**

NOAA Satellite Science Week  
Kansas City, MO  
April 30 – May 4, 2012

Robert J. Kuligowski and Zhihua Zhang

NOAA/NESDIS/STAR

The Future Capability 2 GOES-R Rainfall Potential algorithm produces a field of predicted 0-3 h rainfall accumulation at the GOES pixel scale. The algorithm was developed using SEVIRI data as a proxy for the GOES-R ABI and uses the current and immediately previous GOES-R Rainfall Rate fields to derive motion vectors that are then used to extrapolate the positions of precipitation fields out to 3 h. This poster will describe the algorithm and its performance against radar data over Western Europe, as well as planned work leading up to the final September 2012 algorithm delivery.