

GOES-R Risk Reduction Status

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NOAA SATELLITE SCIENCE WEEK

March 14, 2014



Fy2014 GOES-R3 Highest Priority Topic Areas

A. Improving NWS Operational Numerical Weather Prediction (NWP):

Use of GOES-R data in NWP & Data Assimilation (DA) that addresses convective initiation, tropical forecasting, flood (hydrological) applications, aviation hazards support, cryosphere and other NWP land surface model applications, and that specifically focus on:

- A1. Exploiting benefit of high temporal resolution data expected from GOES-R
- A2. Promoting simultaneous use of satellite (GOES-R) and ground based and in-situ observations (e.g. radar, and meso-net) in operational NWP systems (GSI, ENKF, 3-D/4-D Hybrid DA)
- A3. Exploiting the capabilities of GLM data

B. NWS Situational Awareness Monitoring Applications in AWIPS-2 (emphasizing data fusion and integration):

- B1. Convective initiation, convective monitoring, winter storm monitoring (severe storms / weather warning applications)
- B2. Tropical weather monitoring
- B3. Hydrological monitoring applicable to flood warnings and forecasts

C. Higher Risk Exploratory Research: Scope out new ideas and areas of interest that scientists think will be able to address the needs of the operational community in the longer term (next 3-7 years).



77 LOIs were received of which ...

- 26 Data Assimilation
- 12 Convection and Nowcasting
- 4 Winter Weather
- 2 Tropical Weather
- 10 Hydrological Monitoring
- 12 Clouds and Aerosols
- 9 Land Surface and Fire
- 1 Space Weather
- 1 RGB

LOI Reviewer Process

- Goal was for each LOI to be reviewed by 3 subject matter experts.
- There were 10 LOI groups with 3 reviewers each (30 reviewers in total).
- Reviewer Organizational Distributions
 - Only 4 reviewers were from STAR
 - Majority were from NWS
 - Several university and NASA scientists



LOI Scoring Adjustments

- LOIs that contained elements known to be funded under other programs were discounted.
- LOIs with budgets much larger than expectations were not rejected but were asked to reduce their scope if possible.
- No normalization of scores across groups was done.
- No balancing by institutions was done.

LOI Scoring (1st Round)

- Each proposal was scored between 1 (lowest) and 3 (highest).
- The average score was used to select the LOI
- The threshold value was 2.67
- The number was chosen to result in a budget that was larger than but comparable to the known budget for new proposals.
- LOIs scoring 2.5 and greater were discussed individually at a meeting of the SDEB.

LOI Scoring (2nd Round)

- Complaints were levied against the 1st Round Results that the LOI reviews were too harsh.
- As a consequence a 2nd Round of LOIs were selected for consideration as full proposals for Fy2015.
- This is possible because some GOES-R3 funds will become available in Fy2015 due to several ongoing projects ending after Fy2014
- These were chosen by lowering the LOI threshold score to 2.33 and including LOIs where the NWS reviewer gave a high score (3).
- This resulted in 18 additional LOIs selected for Fy2015 proposal submission.



- 27 LOIs were chosen for Fy2014 Proposal Submission.
- 5 Projects were Renewed for Fy2014
- 18 LOI's were chosen for Fy2015 Proposal Submission.
- Fy2014 proposals not selected will be considered for Fy2015.

Proposal Review Process

- All proposals were due on and received by February 28, 2014
- All proposals were sent out to reviewers
- Reviews are due back March 14, 2014.
- Selections will be made by March 31.

