Research Priorities at NESDIS/STAR

Ingrid Guch
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Why?

- STAR has a long-lasting partnership with CICS-MD
- Working together we can make more progress than alone
- STAR helps manage many of the funding opportunities that are proposed to by CICS-MD
This presentation...

- Serves as a quick reference about NESDIS/STAR
  - Org Chart
  - Priorities
  - Performance Measures
- Is only 10 slides! Should be time for discussions...
Center for SaTellite Applications And Research (STAR)
Where to find STAR Priorities?

- FY-15 Guidance letter from STAR to NESDIS Cis and CREST (see Hugo)
- STAR Strategic Plan (see www.star.nesdis.noaa.gov)
FY-15 Guidance

- Data fusion techniques
- Current satellites of high interest
  - S-NPP, MeTOP, GCOM-W1 AMSR2, GPM
- OSSEs
- GOES-R/JPSS
- GEOSS
- JCSDA related work using “O2R” environments
- Regional ecosystem activities using/enhancing IOOS data
- Environmental literacy
- Improving information about climate-related risks and associated mitigation opportunities
STAR Strategic Plan

STAR Contributions/Goals to maximize the impact of NOAA’s satellite program for the benefit of society, our communities and Nation’s economy

- Promote new sensor and application research
- Ensure high-quality satellite data
- Advance algorithm refinement and technology infusion
- Transition research products into operational use
- Build and sustain partnerships

STAR Performance Measures
- Number of peer-reviewed papers published
- Number of calibration/validation corrections or analyses applied to satellite data sets to improve their utility
- Number of data products developed/product reviews completed for NOAA satellite missions
- Number of research products prepared for transition to operational use
- Number of live/recorded training sessions delivered/updated
The GOES-R Fog/Low Stratus (FLS) probability product is a merged product blending satellite, numerical weather prediction model (GFS and RAP), static ancillary (e.g., DEM, surface emissivity) and daily SST data using a Naïve Bayesian model.

http://fusedfog.ssec.wisc.edu/
GEOSS: PROVIDING SOLUTIONS

• Forecasting meningitis outbreaks

• Protecting biodiversity

• Improving climate observations in Africa

• Supporting disaster management in Central and South America

• Managing water resources in Asia

• Promoting solar energy

• Improving agriculture and fisheries management.

• Mapping and classifying ecosystems

• Forecasting weather for major events
Time for discussion

- Questions/comments ??