

Research Priorities at NESDIS/STAR

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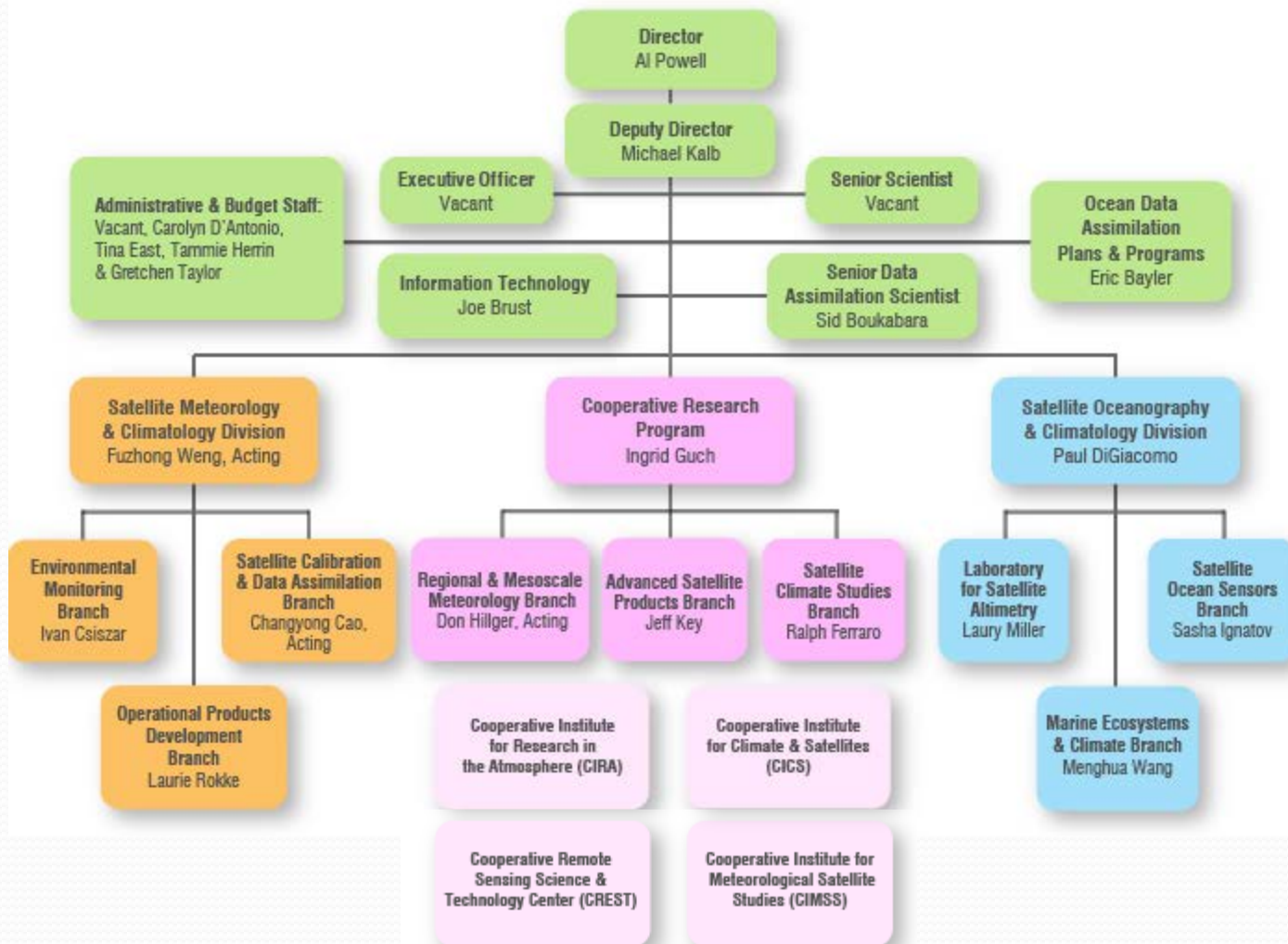
Why?

- 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

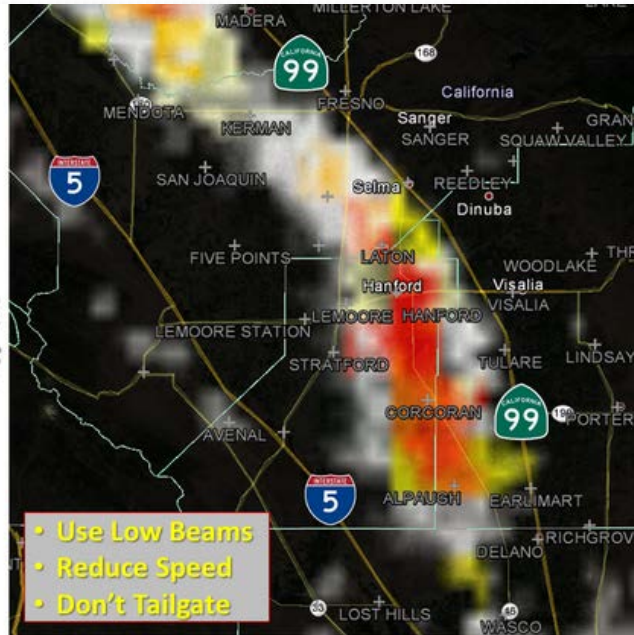
- Number of peer-reviewed papers published
- Number of calibration / validation corrections or analyses applied to satellite data sets to improve their utility
- Number of data products developed / product reviews completed for NOAA satellite missions
- Number of research products prepared for transition to operational use
- Number of live / recorded training sessions delivered / updated

Data fusion techniques

#TuleFog
Update

710 AM

Densest Fog
Just West of
Hwy 99
from
Hanford to
Corcoran



Interact With Us Weather.Gov/Hanford NWSHanford @NWSHanford NWSHanford



Weather Forecast Office
Hanford, CA

11/4/2014 7:16 am PST

Follow Us:



weather.gov/Hanford

- 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 ??