A satellite image of Earth showing North America and the Pacific Ocean. A large, swirling storm system is visible over the Pacific, with a distinct eye. The text is overlaid on the image.

Preparing for GOES-R at HPC

David Novak
Science and Operations Officer

With contributions from Ed Danaher

2011 GOES-R Proving Ground Workshop
May 18, 2011

HPC Operations

Broad variety of responsibilities



QPF



Winter Weather



Medium Range

NWS QPF GPRA

Day 0 – 7 forecast guidance



Surface Analysis



Model Diagnostics



Short Term Weather



Alaska Med. Range



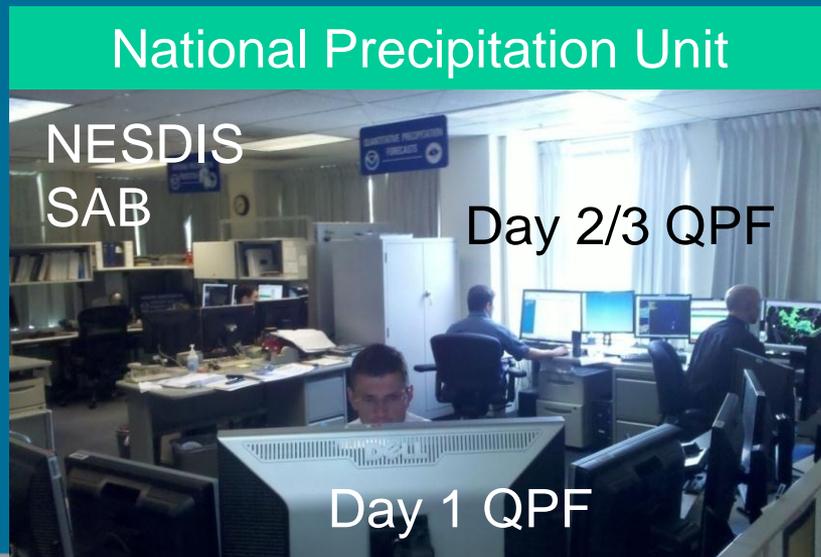
International



Tropical

Goals of the HPC Proving Ground

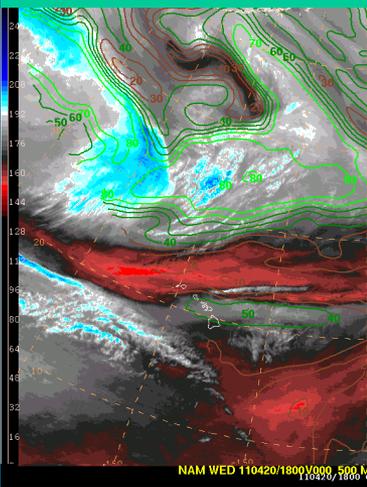
- Raise forecaster awareness of satellite meteorology
- Engage research community in operational needs
- Prepare forecasters for mission-relevant GOES-R products



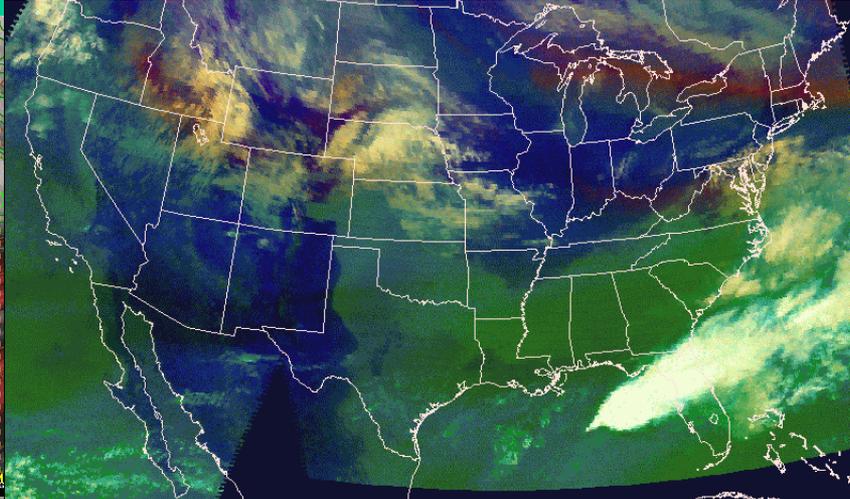
Products and Decision Aids

Demonstrated Product	Category
Cloud and Moisture Imagery	Baseline
RGB Air Mass	Decision Aid
Rainfall Rate/QPE	Baseline
Derived Motion Winds	Baseline

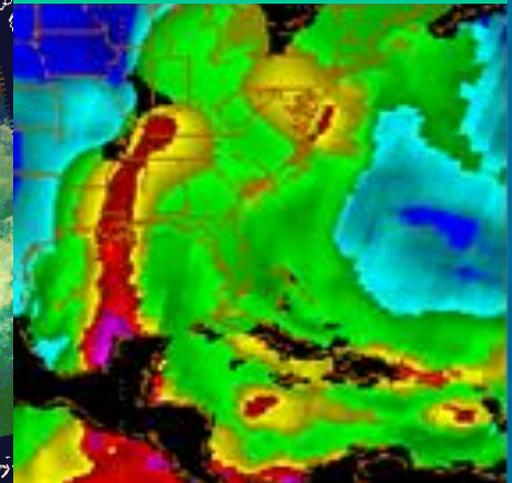
Current Mode



Future RGB Air Mass



Precipitable Water

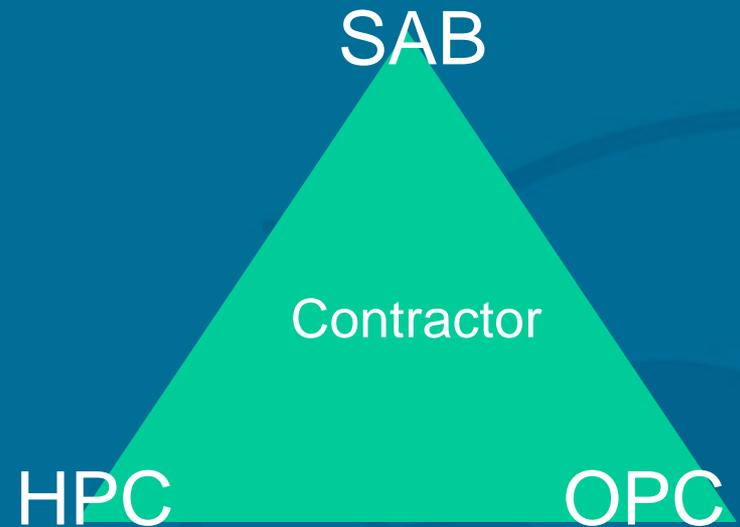


Organizations

Roles and Responsibilities

Organization	Demonstrated Product
CIRA / CIMSS	Cloud and Moisture Imagery
CIRA / SPoRT	RGB Air Mass
NESDIS/STAR	Rainfall Rate/QPE
NESDIS/STAR	Derived Motion Winds

Providers working with on-site GOES-R contractor (Michael Folmer) to facilitate data ingest, training, testing and evaluation



Schedule

Dates	Activities
June-July	Contractor Spin-up
July-Aug	Introduce Cloud and Moisture Imagery
Sep-Oct	Introduce RGB Air Mass
Nov-Dec	Introduce Rainfall Rate/QPE
Jan-Feb	Introduce Derived Motion Winds
Mar-Apr 2011	Initial report on evaluation
May 2011	Final Report Due

Products will be introduced over a several month period starting in July with the last new product to be introduced in Feb 2012

Training

- On-site GOES-R contractor facilitates forecaster training in collaboration with data providers.

Organization	Demonstrated Product	Training
CIRA / CIMSS	Cloud and Moisture Imagery	Recorded VISIT
CIRA / SPoRT	RGB Air Mass	To Be Developed
NESDIS/STAR	Rainfall Rate/QPE	GoTo Meeting
NESDIS/STAR	Derived Motion Winds	To Be Developed

A day in the life...

Arrange teletraining session with CIRA.

Show forecaster one-on-one how today's weather situation would look in a GOES-R world.

Compile forecaster feedback results from online feedback form.

Troubleshoot NMAP display issue.

Prepare presentation for product evaluation debrief.

Issues and Opportunities

Contractor facilitates many tasks

- data ingest
- local satellite expert
- local trainer
- over 50 forecasters (HPC, OPC, SAB)

AWIPS II transition ongoing

Building transition in FY12

