



# Remote Sensing Applications Division (RSAD)

## CDR Program Office

Weekly Report for July 25, 2014  
Ed Kearns, Chief



# CDR Program Office

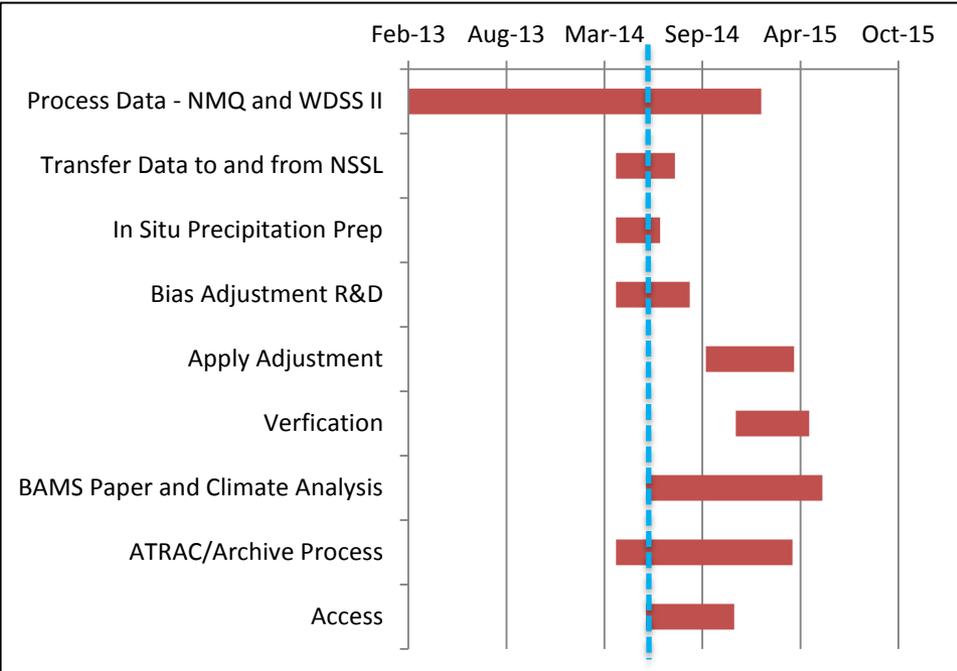
## NOAA NEXRAD Reanalysis

Project Manager:  
B. Nelson

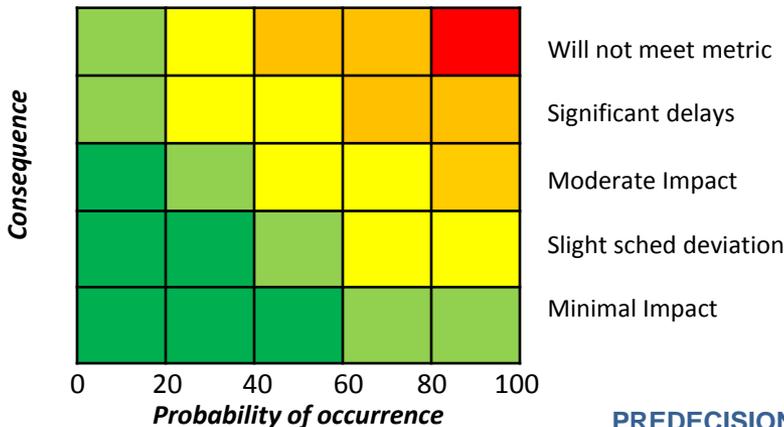
### Weekly Report

#### NOAA NEXRAD Reanalysis Status

- Received 50TB of data from NSSL.
  - Working out where to put data (disks/tapes)
- Complete radar-only QPE for
  - 2001-2002, 2004, 2006-2011
- Developing *in situ* dataset for the gauge-adjustment
- Waiting for delivery of 10 external hard disks from NSSL
  - Remainder of severe weather data
  - Will use it to complete the QPE record
    - 2000, 2003, 2005
- Project Charter and Plan briefed to Councils Feb.-May
  - To be briefed to EC - Aug. 11



### Risk Matrix

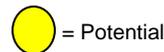


### Risk and Mitigation

No Significant Risks at this time

**PREDECISIONAL DRAFT INFORMATION**

7/29/2014



= On-track      = Potential management action required      = Management attention required



# CDR Program Office

## Obs4MIPS

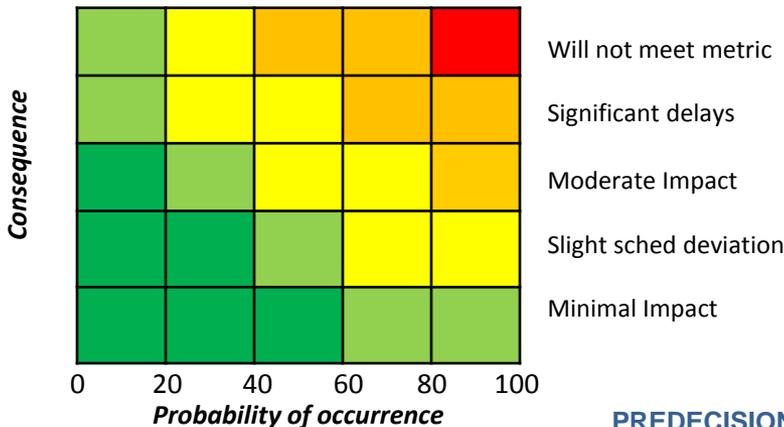
Project Manager:  
H. Semunegus

### Weekly Status Update

- Kickoff meeting held 7/18
- Initial plans developed.

Obs4MIPS using CDRs (Project Manager: Hilawe Semunegus)					2014												2015				
Task (team member)	Start Date	End Date	Duration (days)	Percent Complete	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
1.1 Present project plan and time commitment to team members (all)	2014-07-15	2014-07-31	17	100%																	
1.2 Select 3 CDRs for Obs4MIPS conversion (all)	2014-07-15	2014-07-31	17	50%																	
1.3 Assess uncertainty estimates for selected CDRs based on CATBDs (J. Matthews)	2014-07-15	2014-07-31	17	0%																	
1.4 Assess time commitment for writing a "Technical Note Template" (SMEs): <a href="https://www.eaathysystemccg.org/site_media/projects/obs4mips/Obs4MIPsTechnicalNoteGuidancev3.pdf">https://www.eaathysystemccg.org/site_media/projects/obs4mips/Obs4MIPsTechnicalNoteGuidancev3.pdf</a>	2014-07-15	2014-07-31	17	0%																	
1.5 Determine methodology for temporal and spatial upscaling/downscaling/averaging (SMEs and Jim Beard)	2014-07-15	2014-08-14	31	0%																	
2.0 Analysis (Sampling and validation)	2014-08-15	2014-11-14	92	0%																	
2.1 Create a sample monthly netCDF file for each Obs4MIPS-compliant CDR (Beard and SME)	2014-08-15	2014-09-14	31	0%																	
2.2 Independently compare sample output for scientific validation (SMEs and Beard)	2014-09-15	2014-10-14	30	0%																	
2.3 Validate that all metadata compliances are passed for sample files: CF, Obs4MIPS OMP5 and CDR Metadata standards (Beard)	2014-10-15	2014-11-14	31	0%																	
3.0 Implementation (Code and documents)	2014-11-15	2015-02-28	106	0%																	
3.1 Produce Obs4MIPS CDRs for entire period of record (Beard and SMEs)	2014-11-15	2014-12-31	47	0%																	
3.2 Submit obs4MIPS Data Set Proposal Form (SMEs)	2015-01-01	2015-01-14	14	0%																	
3.3 Write Technical Note for each CDR (SMEs)	2015-01-01	2015-02-28	59	0%																	
4.0 Testing	2015-03-01	2015-04-30	61	0%																	
4.1 Test data scientifically (SMEs and Programmer)	2015-03-01	2015-03-31	31	0%																	
4.2 Test for monthly production (regular updates) of CDRs (within 10 days of succeeding month)	2015-03-15	2015-04-30	47	0%																	
5.0 Deployment (Archive)	2015-04-15	2015-10-31	200	0%																	
5.1 Complete Archive Request Form or ATRAC (SMEs, PM and Archive)	2015-04-15	2015-04-29	15	0%																	
5.2 Complete all Archive requirements (SMEs, PM and Archive)	2015-05-01	2015-07-31	92	0%																	
5.3 Serve CDRs via GFDL or NCDC ESG node (NCMADS-DAAD)	2015-08-01	2015-08-31	31	0%																	
5.4 UESB Product Briefing (SMEs)	2015-09-01	2015-09-15	15	0%																	
5.5 Add Obs4MIPS project to CDRP website																					

### Risk Matrix



### Risk and Mitigation

TBD

7/29/2014

= On-track

= Potential management action required

= Management attention required

PREDECISIONAL DRAFT INFORMATION



# CDR Program Office

## ISCCP Processing @ NCDC

Project Manager:  
A. Young/K. Knapp

### Weekly Status Update

- Prepared space and scripts for ISCCP processing on CICS server.
- Received pre-processing software to QC input files (GEO/B1 & LEO/AVHRR)

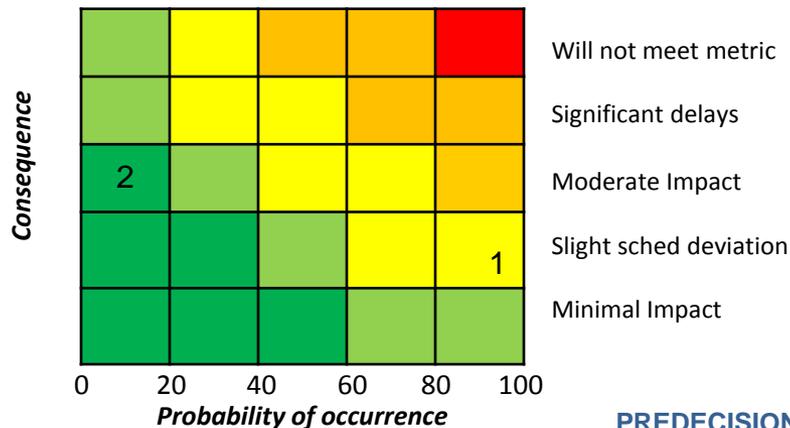
### Objectives

Produce ISCCP cloud products at NCDC following IOC R2O procedures. Plan for routine updates to follow.

### Schedule

- Start Date                      1983? 2003?
- Begin processing              September 2014
- End processing                 December 2014
- QC & Analysis                 Jan-Feb 2015
- Archive                         March 2015
- Routine updates start         June 2015

### Risk Matrix

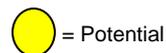


### Risk and Mitigation

1. Delivery of software late and other delays.
2. CICS server space

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7/29/2014



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# CDR Program Office

## UW HIRS Processing @ NCDC

Project Manager:  
A. Young

### Weekly Status Update

- Preparing plan for processing on CICS server.
- Working on finding space for the 10TB of input data (pixel level cloud data).

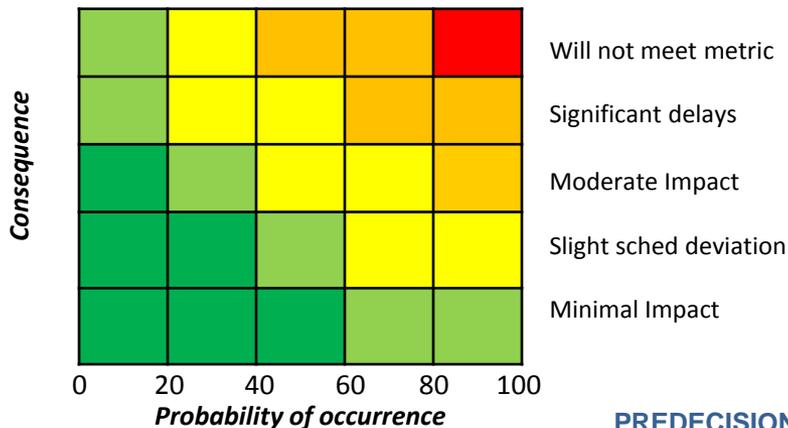
### Objectives

Produce global total precipitable water and cloud top pressure estimates from HIRS data using the UW algorithm (P. Menzel).

### Schedule

- Start Date                   TBD
- End Date                     TBD

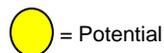
### Risk Matrix



### Risk and Mitigation

TBD

**PREDECISIONAL DRAFT INFORMATION**



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# CDR Program Office

## Albedo of the Americas

Project Manager:  
J. Matthews

### Weekly Status Update

- Loaned 42 TB of disk space allocation to ISCCP Project

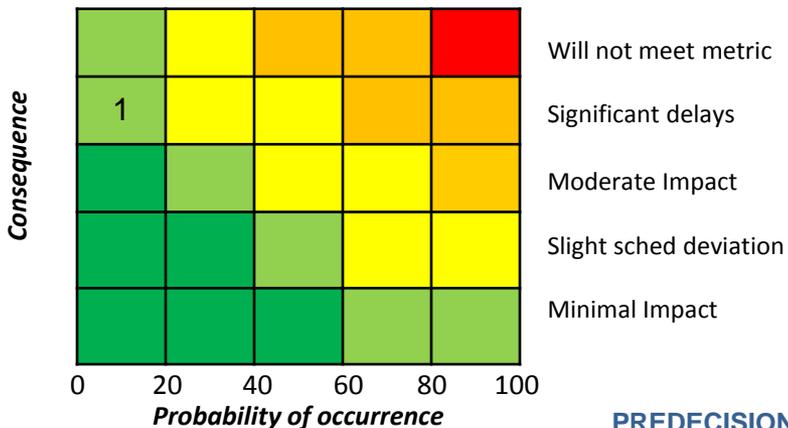
### Objectives

Produce a daily land surface albedo product over North and South America from GOES-GVAR observations for 1995-2014.

### Schedule

- Start Date: January 2015
- End Date: June 2016

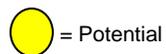
### Risk Matrix



### Risk and Mitigation

- Loaned disk space is not returned  
\* Could cause delays. Unlikely since more disk space is planned.

PREDECISIONAL DRAFT INFORMATION





# CDR Program Office

## OISST Research to Operations Project

Project Manager:  
D. Saunders

### Weekly Report – July 25, 2014

#### 1 OISST – Optimum Interpolated Sea Surface Temperature

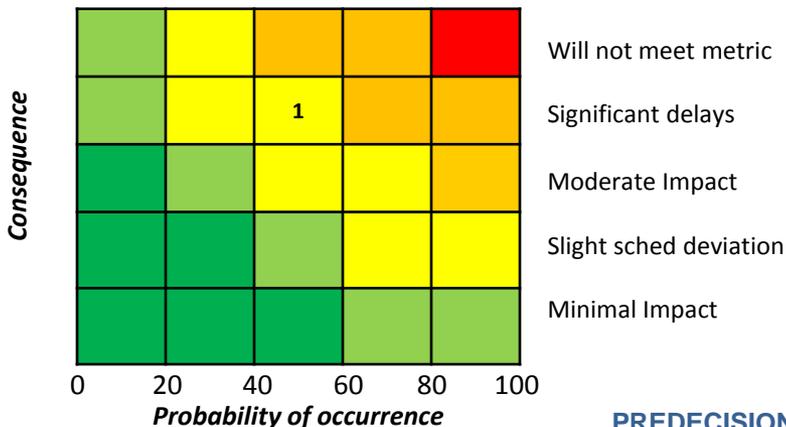
- Performing dry runs for the System Acceptance Test (SAT).
- Dry runs errors are being corrected in SAT document and software.
- Draft OISST Transition to Operations Project Plan is being reviewed (ITB and OISST team).
- Successfully completed 30 day parallel test.
- Comparing NCDC GTS with NCEP ship/buoy data for use. GCAD is resolving issues but requires new operational code.
- AVHRR data for the 15 day delay product is available from CLASS.
- Running test data and code on Rainband for parallel test.
- GSTWG discussing inputs and production of preliminary OISST.
- Created a SOP for operational OISST.
- Completed refactoring of each component.
- Conducted Technology Assessment Review July 25.

Operations:

OISST Project	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	NOV
Phase 1	█															
Setup DEV env		█														
Verify DEV			█													
Complete software modifications	█															
Setup TEST env			█													
SAT Dry Runs			█													
SAT			█													

Tentative based on Plan Review

### Risk Matrix



### Risk and Mitigation

- 1 Time to progress through the three tier environment. ITB support is required.
- 2 Some operational users expect Near real-time access to the preliminary OISST. Need to



# CDR Program Office

## Pipeline Monitoring Tool

Project Manager:  
L. Copley

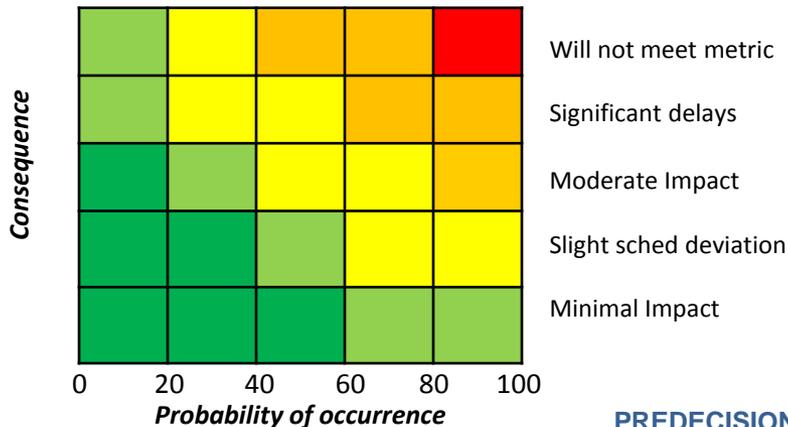
### Weekly Report – July 25, 2014

#### 1 Operations Monitoring Tool development

- Working on database design.
- Defined requirements for Phase 1 of the project.
- Phase 1 implements basic functionality .
- Additional datasets can be added in later phases.
- Updated the monitoring project plan.
- Monitoring of operational ingest.

Monitor Project	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	NOV	
Phase 1																	
Status View																	
Dashboard																	
Email Notification																	
Phase II																	

### Risk Matrix



### Risk and Mitigation

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# CDR Program Office

## Reprocessing VIIRS SDRs

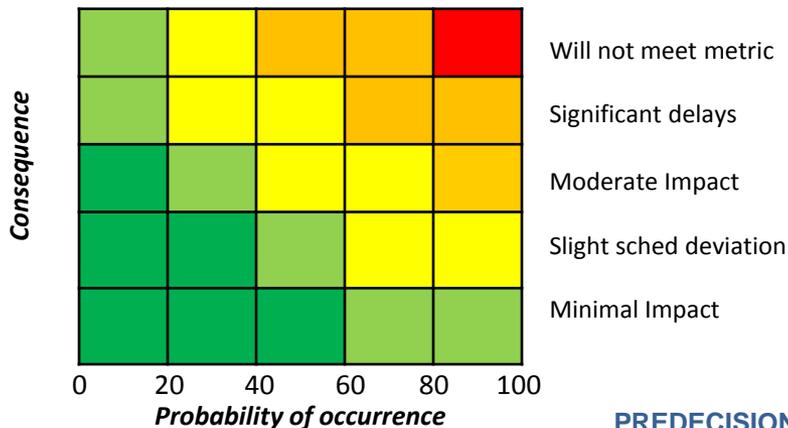
Project Manager:  
J. Biard

### Weekly Report – July 25, 2014

#### 1 Operations Monitoring Tool development

- Reviewing draft white paper to identify issues and establish scope.
- Have identified parts of the algorithm that need to 'conditioned' during runtime and will affect reprocessing estimates.
- Discussed scope and goals of the project with CDRP scientist.

### Risk Matrix



### Risk and Mitigation

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