



# Remote Sensing Applications Division (RSAD)

## CDR Program Office

Weekly Report for Dec 21, 2012  
Jeff Privette, Acting Chief



# CDR Program Office

## IOC to FOC Transition for Selected CDRs

### Weekly Report – December 21, 2012

#### 1. FY12 PATMOS-x Final Report Presentation

- Presentation to RSAD Products Branch and others was performed Friday Dec 14 with good attendance.

#### 2. IOC to FOC / Software Rejuvenation Decision

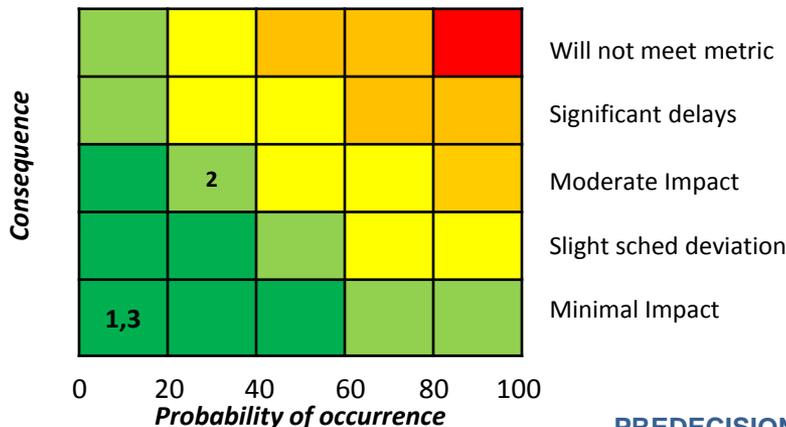
- Received responses to questionnaire containing the seven evaluation criteria from NCDC SMEs and PIs, covering the 11 CDRs at IOC, plus OISST, SSMI\_S, and the ATM Temp Bundle. Thanks!
- Next round will involve the CDR Program Office staff and RSAD managers. Due date TBD.

#### 3. Process

- FY13.A sprint completed Friday Dec 14 with the Sprint Review meeting that presented the work product.
- Sprint FY13.B started Monday Dec 17 with the Sprint Planning meeting.

FY13 IOC to FOC		N	Dec					Jan					Feb			Ma	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Sprint	Principal Focus	24-30	1-7	8-14	15-22	23-29	30-4	5-11	12-18	19-25	26-1	2-8	9-15	16-22	23-1	2-8	9-15
A	IOC to FOC Selection																
B	IOC to FOC Selection																
C	Project Planning																
D	TBD																
E	TBD																
F	TBD																
G	TBD																
H	TBD																
I	TBD																

### Risk Matrix



### Top Risks and Mitigation

#### R8. Personnel on task at maximum work load

- With recent budget cuts to the CDRP the personnel still engaged on this task are at maximum work level. More budget challenges could result in the loss of the remaining key personnel and jeopardize the completion of this task.

#### R10. No sustainable commitment for independent Quality Assurance

- QA will be performed by team. Risk is that this work will not be performed as well as it would be by an experienced, independent QA expert.

#### RXX. Delays in receiving responses to the seven evaluation criteria will delay the IOC to FOC decision making process.

Risk list needs update

# IOE Transition Status – Dec 21, 2012

CDR	Assessment		Deliver Drafts						Review and Provide Feedback						Deliver Final Versions						Misc		Archive			Release		
	Assemble IPT	Perform Assessment	Deliver source code sample and README draft	Deliver Flow Diagram Draft	Deliver C-ATBD Draft	Deliver Maturity Matrix Draft	Deliver Sample netCDF dataset	Deliver SA Draft	Provide feedback on source code and README	Provide feedback on Flow Diagram Draft	Provide feedback on C-ATBD Draft	Provide feedback on Maturity Matrix Draft	Provide feedback on Sample netCDF dataset	Provide feedback on SA Draft	Deliver final source code and README	Deliver final Flow Diagram	Deliver final C-ATBD	Deliver final Maturity Matrix	Deliver final netCDF dataset	Deliver final SA	Create Collection Level Metadata	Conduct Security Review	Archive Code Package	Archive Docs	Archive Data	Put dataset on THREDDS access server	Put data, docs, and code on web page	Conduct ORR
1	UAT 4Layer MW RSS	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	27-Nov	30-Nov	29-Nov	30-Nov	7-Dec	10-Dec	17-Dec
2	Vegetation Bundle	x	3-Jan																									
3	Cryosphere Bundle	x	x																									
4	Solar Irradiance Bundle	x	1-Jan																									
5	PERSIANN precipitation	x	x		x	x	x																					
6	Atmos Temp Bundle (MSU/ AMSU/SSU)	x	x																									
7	Ocean Surface Bundle	x	1-Jan																									
8	Cloud/ Moisture Bundle	x	1-Jan																									
9	OISST	x	x	x	x		x	x	x				x						x							x	x	
10	MSU/AMSU Temp Suite	x	1-Jan																									
11	ISCCP	x	17-Jan																									
12	MW Imager SSM/I(S)	x	x		x	x		x					x															

**Notes:**

- 1) Code submitted for Security Review; need to document Aux data file before archiving; **Ops rep out for several weeks due to ERT hours reductions**
- 4) PI states, "TSIS mission has been delayed, at least until 2016. For that reason we cannot provide code or data"
- 5) **PI has sent draft docs; PI working on netCDF conversion (currently Binary), Source Code requires comments and consolidation**
- 7) Assessment items: No main script yet, sample Matlab code; sample binary data; draft paper on Ver 1.0 of dataset; PI plans to deliver all CDR parts for Ver 2.0, "but not with in the time/\$ constraints of the original proposal" Estimated completion - Nov 2013
- 8) PI plans to send assessment items by the end of December.
- 10) PI requested 1 year extension; no assessment items available, mainly due to delay in CDAAC's processing/re-processing/validation activities

**PREDECISIONAL DRAFT INFORMATION**

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

# Other CDR Discussion Items

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- **Management input needed on:**
  - Solar time series (Pelewski) – call with PI needed.
  - Cryosphere (Key) – split into two IPTs? Proceed with transition on all or just part of CDR bundle?
    - Hilawe, Ken, Dan, Candace, and Peng had a telecon with Key to discuss applications and better understand connections between the bundled products; transition decision still pending.
- **Initial Assessments in progress**
  - Most of the PIs sent items for assessment
  - (Solar Irradiance, Ocean Surface, and Cloud/Moisture Bundles) don't have any items to submit for assessment.
  - Vegetation assessment set for Jan 3.
  - ISCCP update/discussion on Jan 17.

## SCHEDULE OF DELIVERABLES - CDRP 2012 O&M Contracts and Grants

Name of PI/Institution	Applications	Implementation Plan	Main Update	Routine updates	QA Tools/Process	IP License?	CDRP action required?
Christy, J./UAH	- <i>Atmospheric Temperature Profiles</i> - <i>Numerical Weather Prediction</i>	11/7/2012	To be coordinated with CDRP, new version	Monthly/8th day of the succeeding month	12/15/2012	YES	YES - JG
Evans, B./UM (CICS-NC)	- <i>El Nino/La Nina Prediction</i> - <i>Coral Reef Monitoring</i> - <i>IMPACT</i>	9/12/2012	Undergoing final QC at NODC	Monthly/10th day of the succeeding month	NCDC will not be performing QA	NO	YES - JG
Heidinger, A./NOAA-STAR	- <i>Global Cloud Coverage</i> - <i>Agriculture Assessment</i>	8/16/2012	N/A	Daily/Within 7days of the observation date	9/1/2012	N/A	NO
Ho, B./UCAR	- <i>Upper Air Climate Monitoring</i> - <i>GPS Accuracy</i>	11/5/2012	To be coordinated with CDRP, new version	Quarterly/10th day of the month following the end of the quarter	12/17/2012	YES	YES - JG
Mears, C./RSS (CICS-NC)	- <i>Atmospheric Temperature Profiles</i> - <i>Numerical Weather Prediction</i>	10/30/2012	N/A	Monthly/8th day of the succeeding month	12/15/2012	YES	YES - JG
Meier, W./U of CO	- <i>Arctic Shipping Routes</i> - <i>Wildlife Management</i> - <i>IMPACT</i>	11/1/2012	3/31/2013	Quarterly/within 30days of each RSS data delivery	12/1/2012	YES	YES - JG
Robinson, D./Rutgers	- <i>Climate Monitoring</i> - <i>Water Resource Management</i>	10/11/2012	N/A	Monthly/5th day of the succeeding month	11/10/2012	YES	NO
Wentz, F./RSS (CICS-NC)	- <i>Precipitation Patterns</i> - <i>Hurricane Intensity Estimates</i>	11/1/2012	To be coordinated with CDRP, new version	Monthly/10th day of the succeeding month	12/1/2012	YES	NO
	RECEIVED						
	OVER DUE						

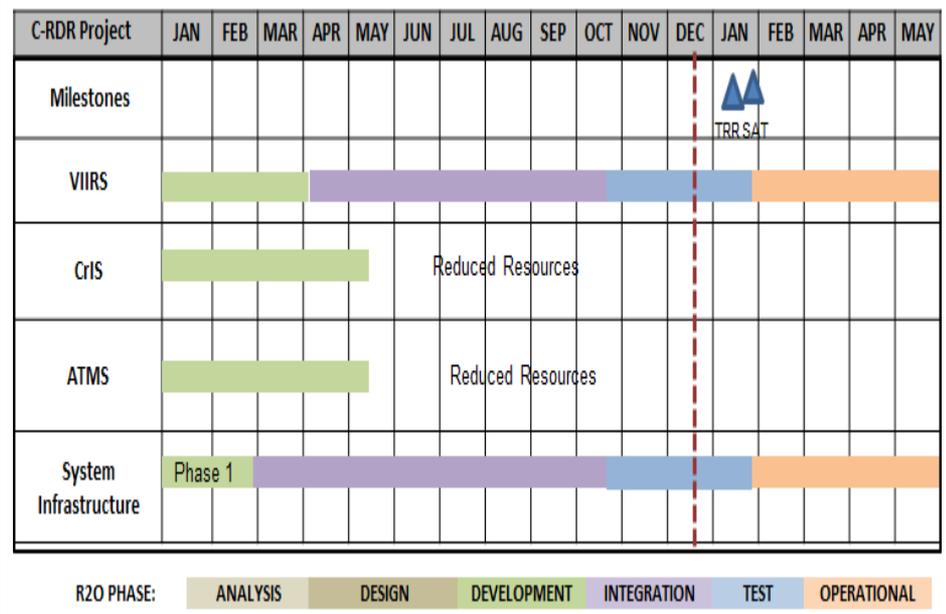


# CDR Program Office

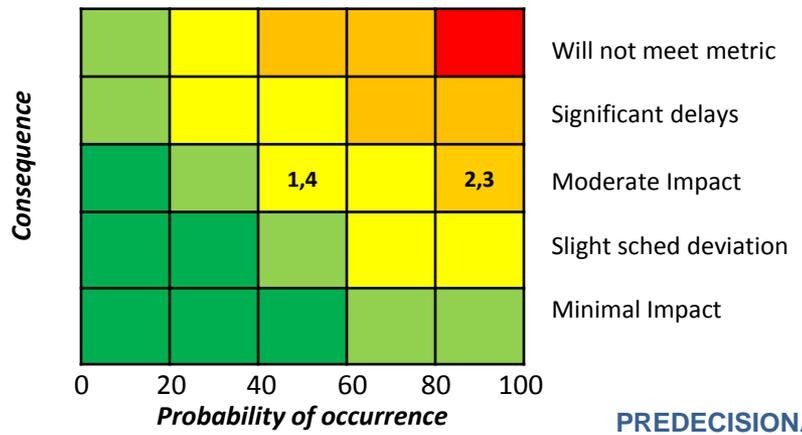
## NPP/JPSS Climate Raw Data Records (C-RDRs) Project

### Weekly Report – December 21, 2012

- ① **VIIRS**
    - Completed code for C-RDR and Support Data..
  - ② **CrIS**
    - Postponed.
  - ③ **ATMS**
    - Postponed.
  - ④ **System Infrastructure**
    - Integrating with the VIIRS C-RDR.
- **Updated schedule.**
  - **Continued processing stream and resolving issues.**
  - **Automating the comparator to be part of the processing.**
  - **Updating the System Acceptance Test procedure.**
  - Completed Verified RDR comparator and verified first C-RDR.
  - Integrating: Ingest data from CLASS and producing C-RDRs.
  - Will deliver initial version with ADL 3.1.



### Risk Matrix



### Risk and Mitigation

**VIIRS, CrIS, ATMS –**

- Resources are being reduced. Delivery of CrIS and ATMS will be delayed.
- Operational software is under maintenance, updated versions may affect C-RDR ported version.

**System Infrastructure –**

- Reliability of NPP RDRs from CLASS. Need to test ingest of RDRs from CLASS and develop an automated mechanism for re-requesting data.
- Ability of CLASS to handle the frequency and volume of NPP data. CLASS has been successful during system tests.
- Archive in CLASS is currently cost prohibitive. Need to identify alternate archive. Plan to store C-RDRs on HPSS until migration to CLASS.

PREDECISIONAL DRAFT INFORMATION



# CDR Program Office

## OISST Research to Operations Project

### Weekly Report – December 21, 2012

- 1 OISST – Optimum Interpolated Sea Surface Temperature**
- **Need to update schedule (2-3 week slip & personnel reductions).**
  - **Preparing for OI main code review.**
  - **Refactoring code (Bias, QC, OI).**
  - Conducted Bias code review.
  - Implementing common logger calls .
  - Integrated a common logging utility and identified log levels.
  - Investigating the use of SPEC for product monitoring.
  - Conducted code review, refactor and unit test of ship\_bias.f90.
  - Evaluating validity/duplicates in compile options & static analysis.
  - Defined list of tasks for refactoring of each component.
  - Developing tests (functional & component) to verify code.
  - Completed testing of static analysis and complexity tools.
  - Conducted Technology Assessment Review July 25.

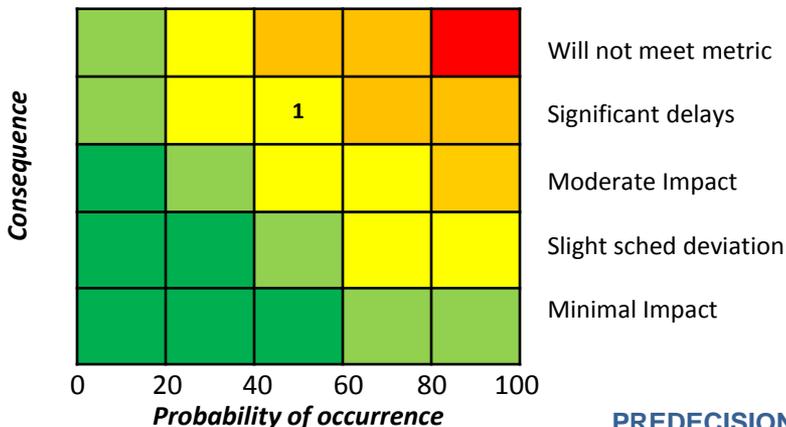
#### Operations:

- Updated and tested scripts to handle new sea ice data format.

C-RDR Project	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	
Milestones							▲ TAR						▲▲ TRR,SAT,ORR					
Control Scripts																		
QC																		
Bias																		
OI																		
Output																		
Product Monitoring																		
Integration																		
Test																		

R2O PHASE: ANALYSIS DESIGN DEVELOPMENT INTEGRATION TEST OPERATIONAL

### Risk Matrix



### Risk and Mitigation

- Resource availability for performing the transition.
- Configuration Management (CM) process not defined for operations.
- No Quality Assurance team available.
- Modifying existing software for internal software changes. Product output must remain unchanged for users.
- Common infrastructure for operations is not fully defined.
- OISST processing will be on a 64 bit architecture.

PREDECISIONAL DRAFT INFORMATION

