



Remote Sensing Applications Division (RSAD)

CDR Program Office

Weekly Report for Jan 11, 2013
Nancy Ritchey, Acting Chief

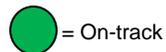
IOE Transition Status – Jan 11, 2013

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 Sec Review, **make files needed**; Ops rep out for few weeks due to ERT hrs reductions; **need to describe Aux data file before archiving**
- 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 within 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

- **Management input needed on:**
 - Solar time series (Pilewski) – 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**
 - **Vegetation assessment will be rescheduled for next Thursday, Jan 17.**
 - (Solar Irradiance, Ocean Surface, and Cloud/Moisture Bundles) don't have any items to submit for assessment.
 - 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	NO
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	NO
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 - CH (review & route his revised Imp PIn)
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	NO
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 - CH (review and route his QA tools/training deliverables)
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	YES - CH (review and route his QA tools/training deliverables)
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						

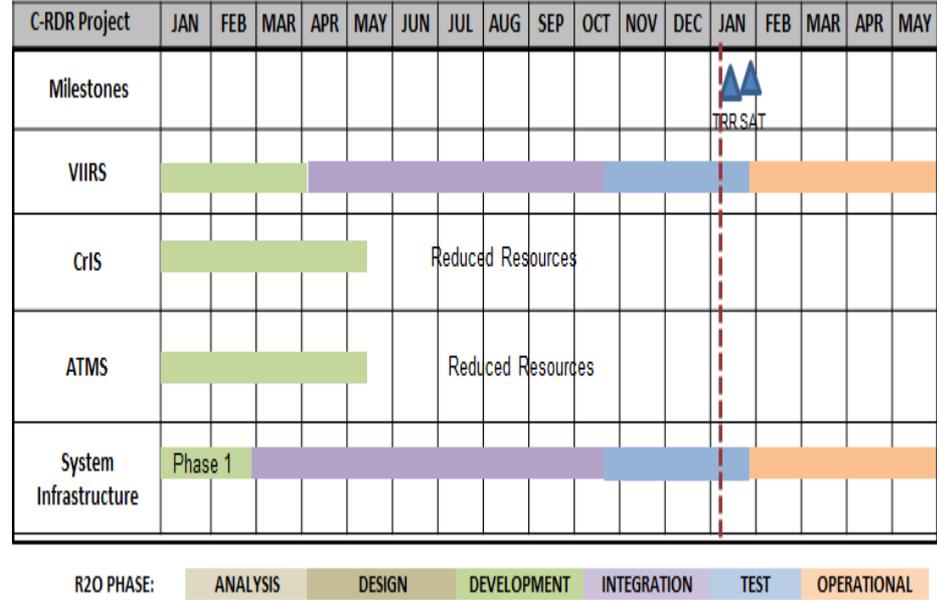


CDR Program Office

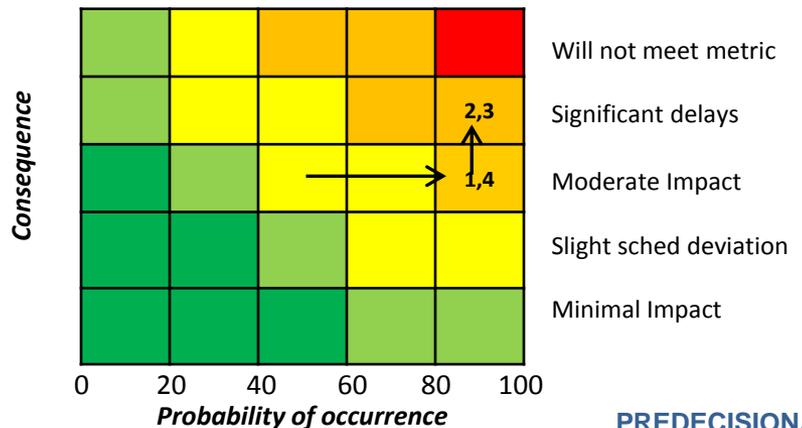
NPP/JPSS Climate Raw Data Records (C-RDRs) Project

Weekly Report – January 11, 2013

- 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.
 - **Comparator test tool issues resolved (need to update schedule).**
 - **VIIRS C-RDR presentation at AMS.**
 - **Resolving issues uncovered by the C-RDR to RDR comparator.**
 - **Completing 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.
 - Archive in CLASS is currently cost prohibitive. Need to identify alternate archive. Plan to store C-RDRs on HPSS until migration to CLASS. **CLASS has FY13 plans to archive C-RDRs.**

PREDECISIONAL DRAFT INFORMATION



CDR Program Office

OISST Research to Operations Project

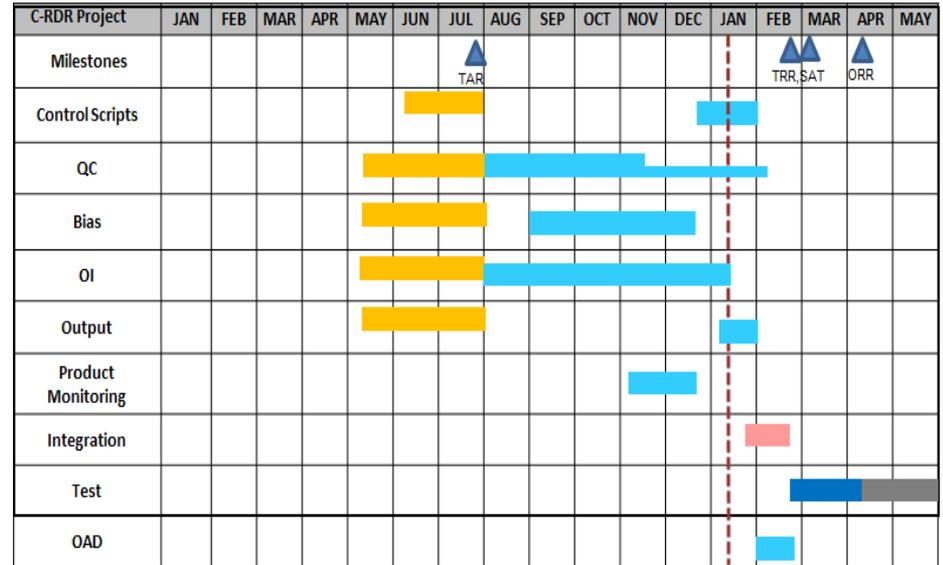
Weekly Report – January 11, 2013

1 OISST – Optimum Interpolated Sea Surface Temperature

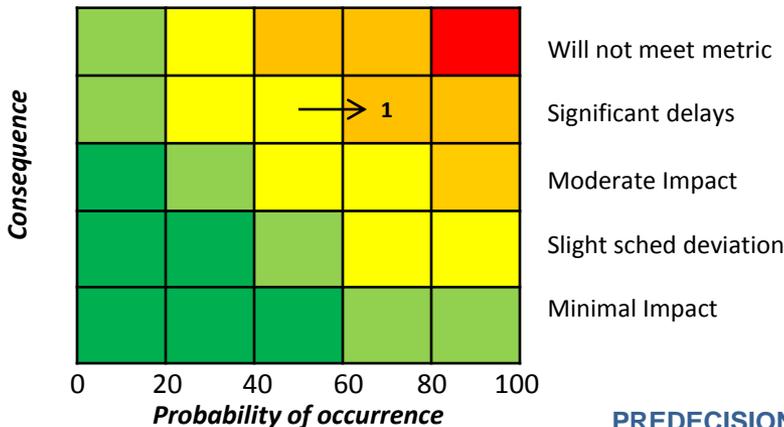
- Updated schedule – resource reduction and slip.
- Created a SOP for operational OISST.
- Completed OI main code review.
- Refactoring code (QC, output, control scripts).
- Schedule update to reflect staffing reduction.
- Conducted Bias, OI main code review.
- Integrated a common logging utility and identified log levels.
- Investigating the use of SPEC for product monitoring.
- 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.



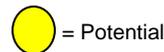
Risk Matrix



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





CDR Program Office

GST FY13 5.0 Support NCDC Algorithm Assessment

Weekly Report – January 11, 2013

1. IOC to FOC / Software Rejuvenation Decision

- Implemented questionnaire to Google Forms, added FY13 CDRs that have passed IPT assessment. Circulated again to RSAD Managers, CDR PM, and to Program Office staff for their inputs. **Requested due date January 11.**
- Cycle 2 completed January 4. Thanks to SMEs for their responses! Received response from Products Branch Chief, no other RSAD managers.

2. IOC to FOC Software Cost Estimation

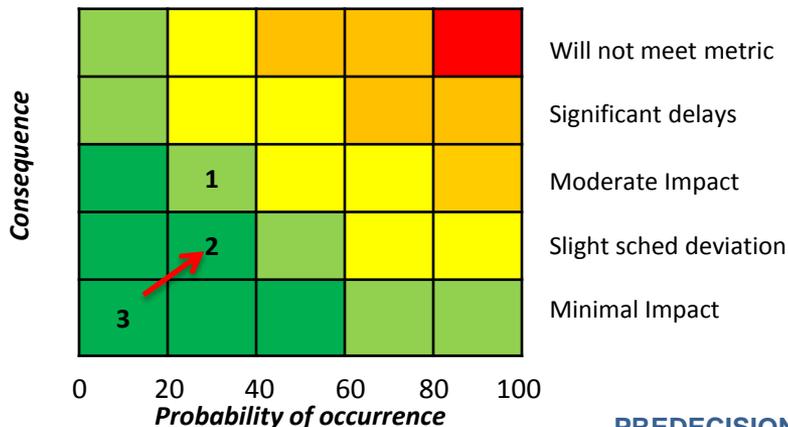
- Comparing costs estimated from the CDRP Parametric Cost Model, the Algorithm Rejuvenation White Paper, and the COCOMO II model.

3. Process

- Sprint FY13.B will end Friday January 11 with the Sprint Review meeting at 2pm in 473. All welcome.

Algorithm Assessment		N		Dec				Jan				Feb			Ma		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		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
Sprint	Principal Focus																
A	Candidate Selection																
B	Candidate Selection																
C	Project Planning Infrastructure																
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 FY12 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 to be updated next sprint (FY13.C)

To Do List

Directions: Candace Hutchins will add any new items gained from the Thursday 2pm meetings. Please place your initials by items you have completed and Candace will move these items to another spreadsheet for historical purposes.

<i>No.</i>	<i>Priority</i>	<i>ACTION</i>	<i>Assignee</i>	<i>Due Date</i>	<i>Initials</i>
1		Scheme/template for science paths fwd (e.g., 2pp) for ea. IOC	DeWayne	21-Sep	
2		Set telecon schedule for CDR Interagency principals	Jeff/DeWayne	21-Sep	
3		Develop template for progress reports (SDS charts?)	Jeff/Terry	TBD	
4		Update IPT Terms of Ref. for persistence, other branch partic.	Ken K.	21-Sep	
5		Develop workflow for O&M CDR QA review process	Candace	TBD	
6		Schedule mid-term review of IOC to FOC lessons learned	Bryant	27-Sep	
7		PI personal awards to website (gave to DeWayne)	DeWayne	TBD	
8		C-RDR Distribution Plan	Drew	28-Sep	
9		Identify all appropriate parties for new CDR customer briefs	DeWayne	TBD	
10		Identify CDR for Dissem's Data Discovery Day (June 2013)	DeWayne	4-Oct	
11		Determine and layout what constitutes a CF check	Drew	18-Oct	
12		define the task/process/criteria of transitioning IOC to FOC CDRs	Brian/Bryant	12/1/2012	
13		Website Usage Statistics requirement	Brian	TBD	
14		Factsheets for OISST	DeWayne	1/10/2013	
15		Provide some text about the Nature article citing AMSU/MSU/SSU data (even	Candace	1/10/2013	