



Remote Sensing Applications Division (RSAD)

CDR Program Office

Weekly Report for March 15, 2013
Jeff Privette, Acting Chief

ID	CDR	PI	TM	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
1	UAT 4Layer MW RSS	Mears	Kim	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	29-Jan	7-Feb	30-Jan	30-Jan	7-Feb	11-Feb	14-Feb		
2	Vegetation Bundle	Vermote	Matthews	x	17-Jan																									
3	Cryosphere Bundle	Key	Peng	x	x	Subset for less cost																								
4	Solar Irradiance Bundle	Pilewski	Zhao	x	1-Jan																									
5	PERSIANN precipitation	Soorosh	Nelson	x	x	26-Feb	30-Jan	x	x			4-Mar	22-Feb	22-Jan																
6	Atmos Temp Bundle (MSU/ AMSU/SSU)	Zou	Semunegus	x	x																									
7	Ocean Surface Bundle	Clayson	Zhang	x	21-Feb																									
8	Cloud/ Moisture Bundle	Menzel	Young	x	31-Jan																									
9	OISST	Reynolds	Banzon	x	x	x	x		x	x	x				x												x	x		
10	MSU/AMSU Temp Suite	Ho	Shi	x	PI requested 1yr ext																									
11	ISCCP	Rossow	Knapp	x	17-Jan																									
12	OLR Daily	HT Lee	Shi	x	x																									
13	AMSU-A CH7	Ho	Shi	x	x																									
14	MW Imager SSM/I(S)	Kummerow	Semunegus	x	x		x	x		x					x															

Notes (as of 3/14):

- ① Closed both ORR action items; Susan and Katy were sent approved release strategy (NCDC News, Facebook, Twitter).
- ② Moving forward with transition SOW for surface reflectance and NDVI
- ③ Looking into subset of initial proposal (APP-x) as only delivery; working with Meier separately
- ④ Good telecon with PI; plans to deliver TSI Observational CDR and TSI Composite CDR (Lean), TM on career enhancement detail
- ⑤ Reviewed and Accepted Flow Diagram; Received sample documented script, reviewed and provided feedback
- ⑦ Assessment Complete; PI plans to deliver all CDR parts for Ver 2.0, but not within the time/\$ constraints of the original proposal, ECD - Nov 2013
- ⑧ Initial assessment completed Jan 31. Developed schedule for completion in early FY14
- ⑭ 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

- **Working CDR flyers (minimal text, maximum graphics):**
 - Received final High Resolution flyers for OISST and SCE from Graphics (ready to link on the web page)
 - Received all flyer information and images for remaining 11 flyers from TMs.
 - Compiled all info into a single spreadsheet, reviewed by Hilawe and Susan
 - Sent all items to graphics for initial drafts of remaining flyers
- **Reviewing/modifying OISST CDR Fact Sheet (template) for compliance with latest guidance:**
 1. History/background
 2. Users/apps
 3. Data sources (or inputs)
 4. Temporal/spatial info
 5. Data access
 6. Update frequency
 7. Documentation info (CATBD, flow chart, maturity matrix)
- **Received Draft C-ATBD for HIRS Clear-sky CH12 Brightness Temperature**
 - Dan and Brian reviewed and sent back comments to Lei

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 CDRP-PLAN-0296	To be coordinated with CDRP, new version - should deliver Aug/Sep	Monthly/8th day of the succeeding month - once delivered	Will need to submit his procedure as part of his new version	YES	YES JG - notify PI: approved Imp PIn
Evans, B./UM (CICS-NC)	- <i>El Nino/La Nina Prediction</i> - <i>Coral Reef Monitoring</i> - <i>IMPACT</i>	9/12/2012 CDRP-PLAN-0290	Undergoing final QC at NODC	Monthly/10th day of the succeeding month	10/23/2012	NO	No
Heidinger, A./NOAA-STAR	- <i>Global Cloud Coverage</i> - <i>Agriculture Assessment</i>	8/16/2012 CDRP-PLAN-0223	Will be delivering entire POR re-processed in netCDF format	Daily/Within 7days of the observation date	9/1/2012	N/A	YES CH - monitor progress with needed changes in the SA CH - complete and route CR for v5.2 to v5.3 KK - call Andy to talk about # of
Ho, B./UCAR	- <i>Upper Air Climate Monitoring</i> - <i>GPS Accuracy</i>	11/5/2012 CDRP-PLAN-0294 (CH9) CDRP-PLAN-0295 (CH7)	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 - monitor progress with needed changes in the SA CH - complete and route CR for ch9 v1 to v2 JG - notify PI: approved Imp PIn
Mears, C./RSS (CICS-NC)	- <i>Atmospheric Temperature Profiles</i> - <i>Numerical Weather Prediction</i>	10/30/2012 CDRP-PLAN-0301	1/15/2013	Once transitioned: Monthly/8th day of the succeeding month	12/15/2012	YES	YES JG - notify PI: approved Imp PIn
Meier, W./U of CO	- <i>Arctic Shipping Routes</i> - <i>Wildlife Management</i> - <i>IMPACT</i>	11/1/2012 CDRP-PLAN-0285	4/30/2013	Quarterly/within 30days of each RSS data delivery	12/1/2012	YES	YES CH - monitor progress with needed changes in the SA CH - open CR once Questionnaire is received from PI JG - notify PI: approved Imp PIn
Robinson, D./Rutgers	- <i>Climate Monitoring</i> - <i>Water Resource Management</i>	10/11/2012 CDRP-PLAN-0297	N/A	Monthly/5th day of the succeeding month	11/10/2012	YES	YES JG - notify PI: approved Imp PIn
Wentz, F./RSS (CICS-NC)	- <i>Precipitation Patterns</i> - <i>Hurricane Intensity Estimates</i>	11/1/2012 CDRP-PLAN-0308	To be coordinated with CDRP, new version	Monthly/10th day of the succeeding month	Will need to submit his procedure as part of his new version	YES	No

RECEIVED

OVERDUE



CDR Program Office

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

Weekly Report – March 15, 2013

VIIRS

- 1 Completed code for C-RDR and Support Data..

CrIS

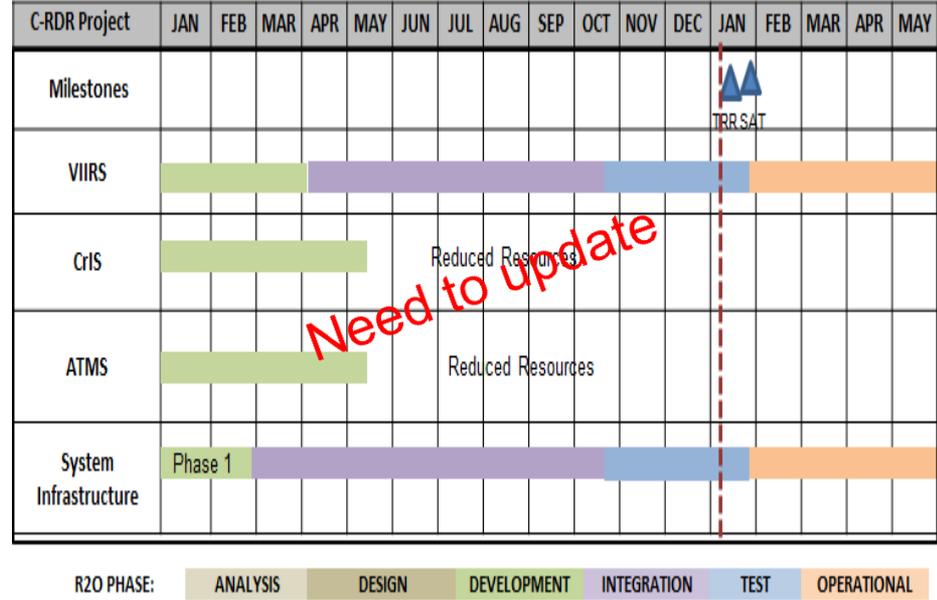
- 2 Postponed.

ATMS

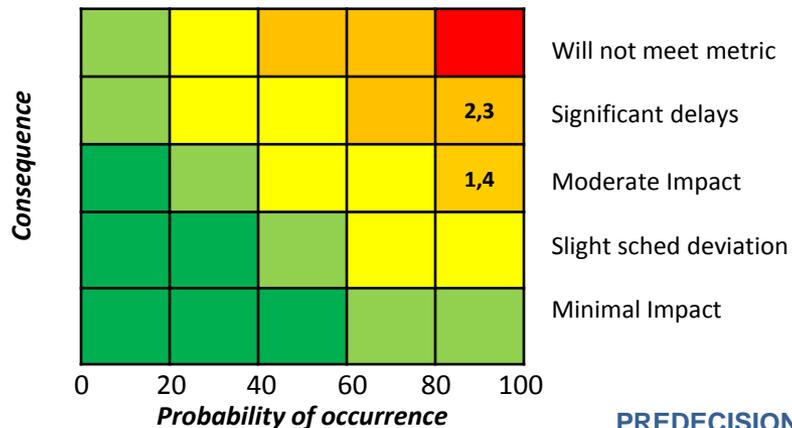
- 3 Postponed.

System Infrastructure

- 4 Integrating with the VIIRS C-RDR.
- ITB is completing creation of the Production container.
- Verifying creation of SDR. Previously, tested Verified RDR.
- Tracking down isolated anomalies found by comparator.
- Draft System Acceptance Test procedure completed.
- VIIRS Product Specification is ITAR approved.
- C-RDR access vi HAS (two years of tapes for HDSS).
- 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.

PREDECISIONAL DRAFT INFORMATION



CDR Program Office

OISST Research to Operations Project

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1 OISST – Optimum Interpolated Sea Surface Temperature

- Completed code refactoring (QC, output, control scripts).
- Preparing for QC, output, and control scripts code review.
- Coordinating with CDRP on OAD format/content.
- GSTWG discussing inputs and production of preliminary OISST.
- Created a SOP for operational OISST.
- Conducted Bias, OI main code review.
- 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.

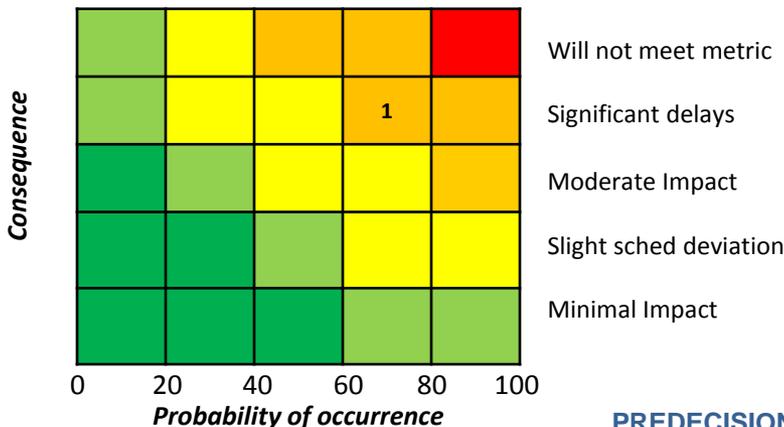
Operations:

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

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

R2O PHASE: ANALYSIS DESIGN DEVELOPMENT INTEGRATION TEST OPERATIONAL

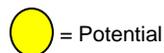
Risk Matrix



Risk and Mitigation

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

PREDECISIONAL DRAFT INFORMATION





CDR Program Office

FY13 Agile Product Development

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0. Methodology

- Sprint FY13.D started 2/25, planning completed, ends 3/22

1.2 CDR Website

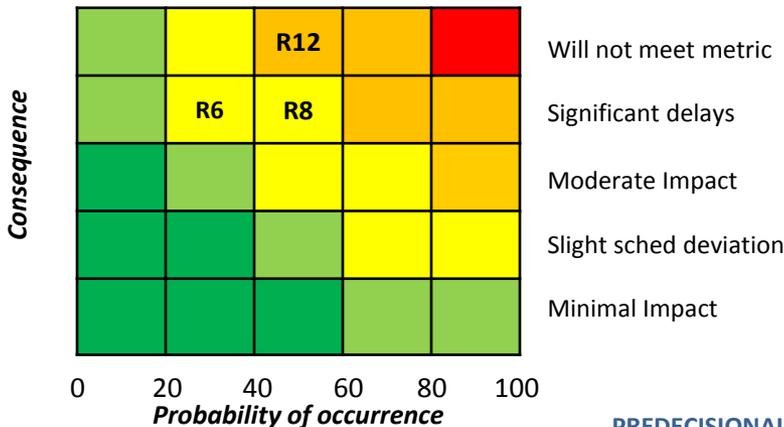
- Per NCDC direction, preparing for migration from Local Web Farm to Drupal.
- Four team members attended DAAB Drupal training 3/14. Q&A session revealed that CDR website is too complex to migrate easily, best treated as an “application” to be migrated to its own virtualized server. Approval TBD.
- Future redesign will involve a use case approach combined with rapid prototyping targeting Drupal.

5.4 Operational Algorithm Description (OAD) Template

- Completed implementation of placeholders for architectural diagrams based on Clements et. al. (2011).
- “4+1” view model of Krutchen (1995) used to organize content.

Algorithm Assessment		Jan					Feb					Mar					Apr	
		6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
		29-4	5-11	12-18	19-25	26-1	2-8	9-15	16-22	23-1	2-8	9-15	16-22	23-29	30-5	6-11	12-18	
Sprint	Principal Focus																	
B	IOC to FOC Selection																	
C	Support for DISST FOC transition																	
D	Support for DISST FOC transition																	
E	TBD																	
F	TBD																	
G	TBD																	
H	TBD																	
I	TBD																	
J	TBD																	
K	TBD																	

Risk Matrix



Top Risks and Mitigation

R12. Funding gap or cut

- Gaps or cuts may result in staff furloughs, layoffs, or resignations. Delivery milestones may not be met. Using Agile methodology to minimize potential waste from unfinished work.

R8. Lack of independent Process and Product Quality Assurance

- Products may not perform correctly in the user’s environment. Scarce resources may be diverted to perform rework. Previous results may not be reproducible. Reputation of Center and its contractors could suffer. Risk is **accepted** since effective mitigation for the CDR Program would require a Center-wide solution.

R6. Personnel at maximum workload

- Loss or illness of any staff member would jeopardize the timely delivery of the planned products. Using Agile methodology to minimize waste from unfinished work.