



Remote Sensing Applications Division (RSAD)

CDR Program Office

Weekly Report for May 25, 2012
Edward Kearns, Chief



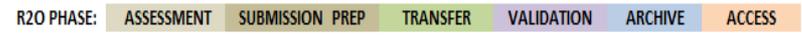
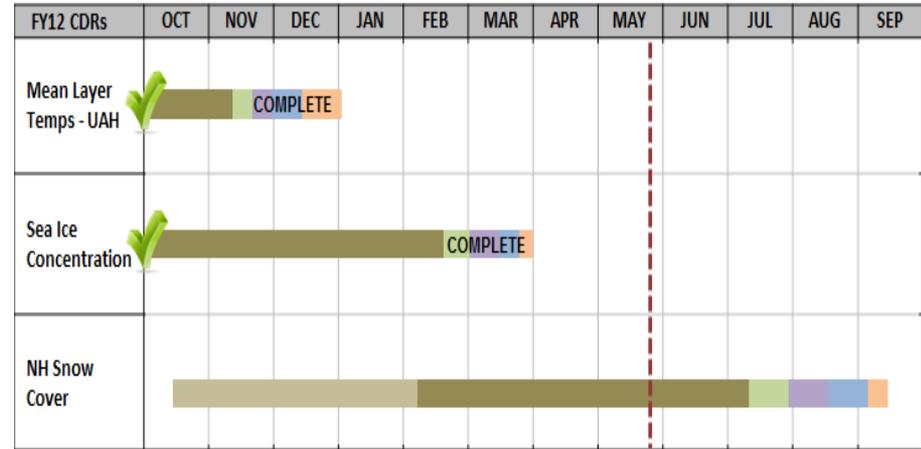
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FY12 Climate Data Records

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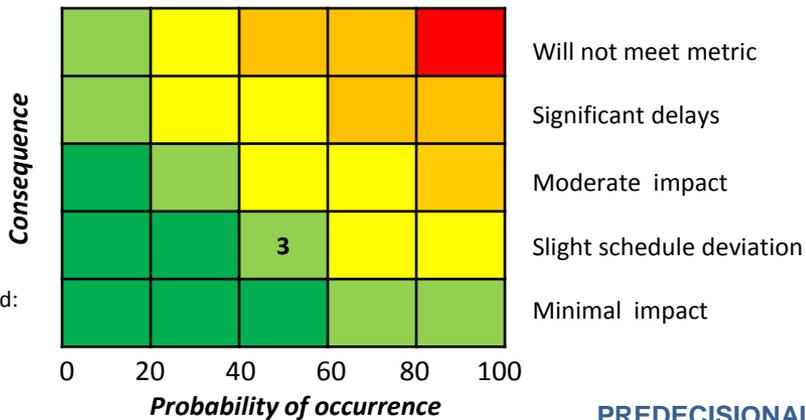
- ① **Mean Layer Temperatures – Univ of Alabama Huntsville (UAH)**
 - Completed – Nov 17
- ② **Sea Ice Concentration**
 - Completed – Mar 28
- ③ **Northern Hemisphere Snow Cover**
 - Received draft C-ATBD, reviewed and provided comments back to PI

R2O Schedule



● No change ↑ Increasing Risk ↓ Decreasing Risk *Candidate CDRs

Risk Matrix



Risk - Mitigation

- **Snow Cover PI has a lot to accomplish by the end of the FY**
 - Gave PI a detailed schedule and he is working to stay on track
 - Continue to transition the MLT-RSS CDR as a back-up
- **Minimal QA on product, software, and documentation**
 - ORR will help alleviate some of the risks
 - Get reviews/input from in house experts as needed
 - Need to formally document the current QA steps being done

PREDECISIONAL DRAFT INFORMATION



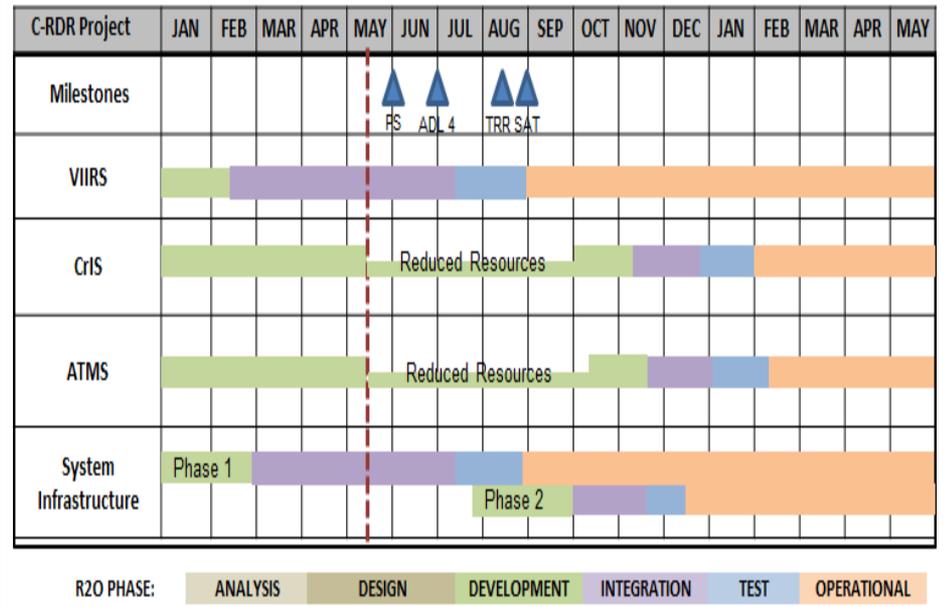
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NPP/JPSS Climate Raw Data Records (C-RDRs) Project

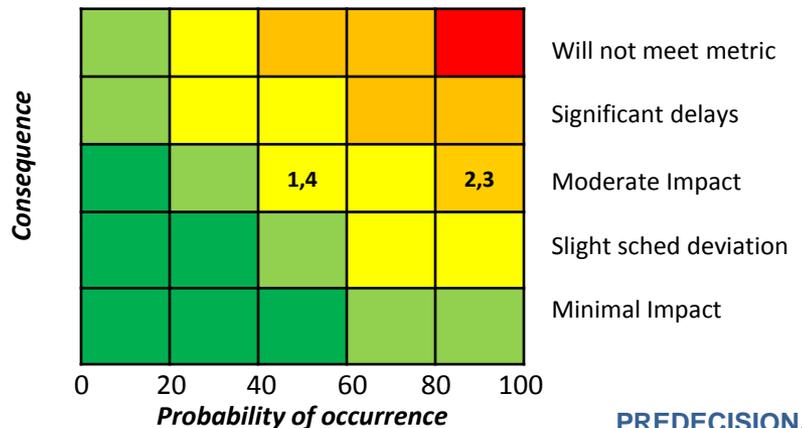
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- ① **VIIRS**
 - Integrating the with the system infrastructure.
- ② **CrIS**
 - Developing code to write the CrIS C-RDR.
- ③ **ATMS**
 - Developing code to write the ATMS C-RDR.
- ④ **System Infrastructure**
 - Integrating with the VIIRS C-RDR.

- Working on setup of test environment on NCDC Blade Center to integrate VIIRS C-RDR processing and the system infrastructure.
- Reworking the schedule, to compensate for a resource reduction.



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



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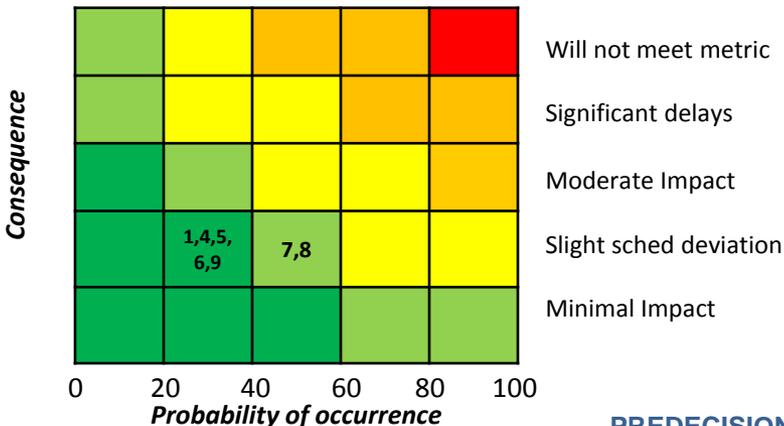
IOC to FOC using PATMOS-X as prototype

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- ① **1. White Paper (was April 21)**
 - Final draft will be baselined as Rev.1 and distributed.
- ④ **4. Build and Test Infrastructure (May 26)**
 - Wisconsin code version 01-11-2012 baselined on GST cloud. Changed Makefile to build with gfortran, no code changes needed.
 - Bugzilla install in progress.
- ⑤ **5&6. Familiarization Runs and Diagnostics (July 7)**
 - First 40 days of 2005 AVHRR data has been transferred from RSAD to GST cloud.
 - Code starts but has not been run to completion yet.
- ⑦ **7&8. Develop & Run Algorithm Test (August 11)**
 - Awaiting reply from PI Andy Heidinger
- ⑨ **9. Derive and Document Architecture (September 8)**
 - Code reformatted for readability (indenting and whitespace) has been successfully built and committed to version control on GST cloud. Awaiting run-time testing to see that the same result is obtained.

FY12	Q1	Q2	Q3	Q4	Fe							Mar							Apr							May							Jun							Jul							Aug							Sep						
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7,8	Develop & Run Algorithm Test																																																											
9	Derive & Document Architecture																																																											
10	Identify Probs & Opportunities																																																											
11	Prioritize Probs & Opportunities																																																											

Risk Matrix



Top Risks and Mitigation

- R3. Ongoing parallel development by PI**
 - Use good differencing tool. Incorporate only those changes that have a good justification from the CDR perspective.
- 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**
 - Short term financial resources available. GST has potential consultant to assist with development of CDR Program Quality Assurance Plan.
- R11/R12. Internet access from NCDC, direct or via CICS Wireless**
 - Use contractor owned and personal equipment to access GST cloud via CICS wireless and internet connection. Otherwise use contractor or personal equipment via personal internet connection. Only using SSH at present.



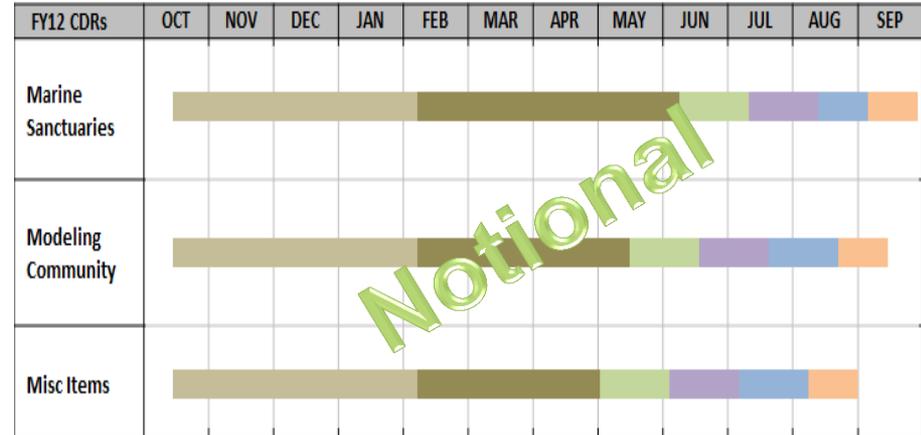
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Applications and Advocacy

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- 1 **National Marine Sanctuaries: Gulf of the Farallones, Florida Keys**
 - Develop work plan for applications demo utilizing SST, OLR, and GEO clouds as first cut for planning/implementation purposes
 - SST, OLR, and GEO clouds as an input into IMPACT assessment tool
- 2 **Modeling Community**
 - Working to ensure output formats match IPCC requirements
 - Modeling Community needs satellite data for global verification of model output
- 3 **Misc Items**
 - John S. and Steve A. have done some prototype visualizations

Schedule

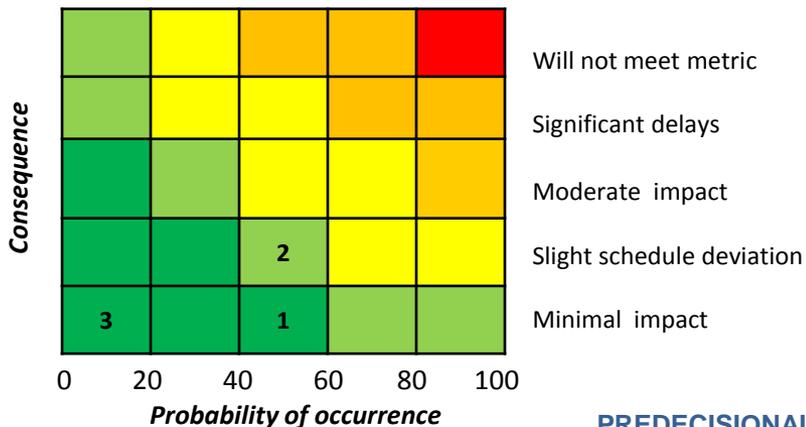


Notional



● No change ↑ Increasing Risk ↓ Decreasing Risk *Candidate CDRs

Risk Matrix



Risk and Mitigation

- **User needs may not match readily available NCD CDRs**
 - Identify users, analyze their needs, and develop CIRs to meet needs
 - Prioritize the CDR pipeline to maximize user support
- **NCD CDRs are not easily discernible from similar products available**
 - Improve documentation and QA/QC efforts so they rise to the top of any list
- **NCD CDR application tools will need a steady input of CDR data**
 - Maintain/Create FCDs and TCDs that maximize user engagement

PREDECISIONAL DRAFT INFORMATION