



Remote Sensing Applications Division (RSAD)

CDR Program Office

Weekly Report for March 8, 2013
Jeff Privette, Acting Chief

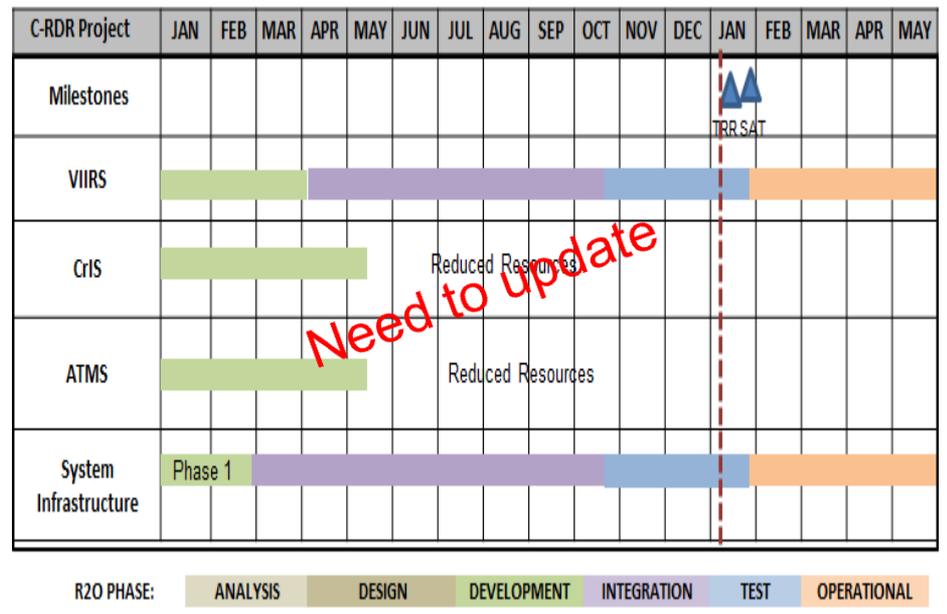


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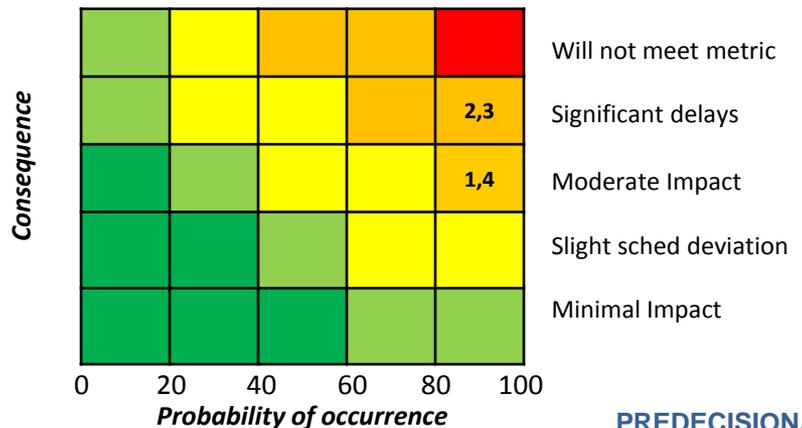
NPP/JPSS Climate Raw Data Records (C-RDRs) Project

Weekly Report – March 8, 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.**
 - **Preparing for a final code review.**
 - **Tracking down isolated anomalies found by comparator.**
 - **VIIRS Product Specification is ITAR approved.**
 - C-RDR access vi HAS (two years of tapes for HDSS).
 - Completed draft the System Acceptance Test procedure.
 - 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.



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OISST Research to Operations Project

Weekly Report – March 8, 2013

1 OISST – Optimum Interpolated Sea Surface Temperature

- Completed QC and output code mods. Unit testing.
- Refactoring code (QC, output, control scripts).
- 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.

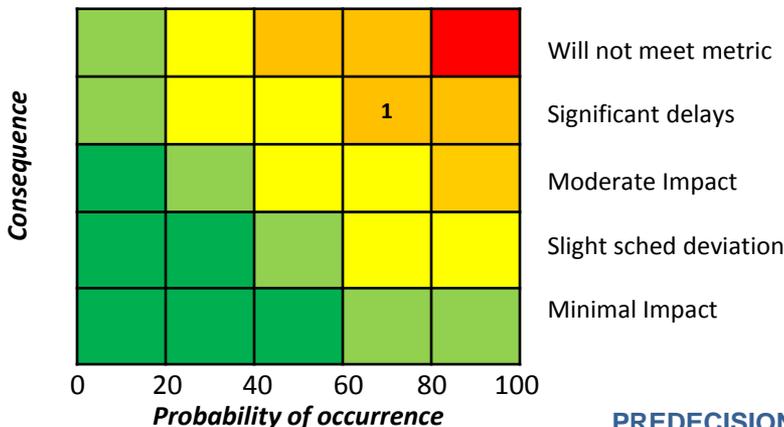
Operations:

- 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 | | | | | | | | | ▲ TRR,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.C review meeting was held 2/22
- Sprint FY13.D started 2/25, planning completed, ends 3/22

1.2 CDR Website

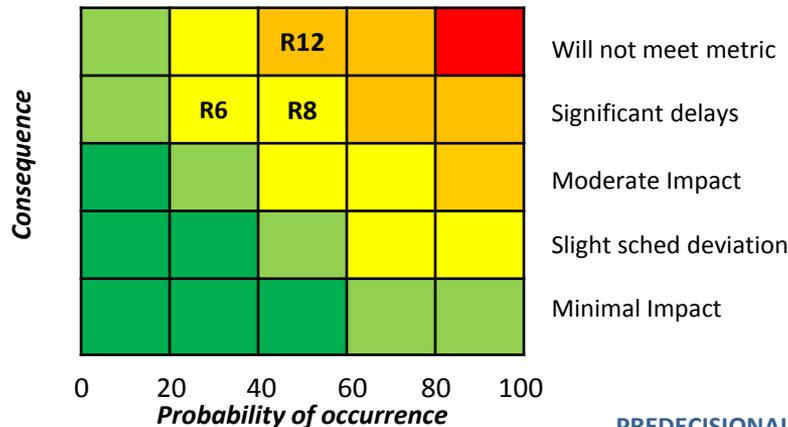
- Preparing for forced migration to Drupal in advance of the redesign effort. Four team members will receive the basic training offered by DAAB.

5.4 Operational Algorithm Description (OAD) Template

- Implemented placeholders for architectural diagrams based on Clements et. al. (2001). Using “4+1” view model of Krutchen (1995) to organize content. Work in progress.

| Algorithm Assessment | | Jan | | | | | Feb | | | | | Mar | | | | | Apr | | |
|----------------------|----------------------------------|------|------|-------|-------|------|-----|------|-------|------|-----|------|-------|-------|------|------|-------|--|--|
| | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | | |
| Sprint | Principal Focus | 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 | | |
| 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.