



Remote Sensing Applications Division (RSAD)

CDR Program Office

Weekly Report for May 30, 2014
Ed Kearns, 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 | Make data publicly available | Put data, docs, and code on dev web page | Conduct ORR |
| 1 | AMSU-A FCDR (CH7 GPSRO) | Ho Shi | x | x | x | 22-Jul | 28-Jun | 22-Jul | x | 4-Sep | x | 26-Jul | 11-Jul | 26-Jul | x | 9-Sep | 23-Aug | 5-Aug | 27-Aug | 5-Aug | 13-Sep | 10-Sep | 11-Sep | 27-Aug | 17-Sep | 17-Sep | 17-Sep | 20-Sep | 24-Sep | 7-Nov |
| 2 | Cloud Properties | Heidinger Knapp | x | x | x | x | 17-Mar | 11-Jan | x | 16-Jan | x | x | 13-May | 14-Jan | x | 30-Jan | 21-Apr | x | 15-May | 16-Jan | In Progress | 5-Mar | | x | | | In Progress | | | Jun 2014 |
| 3,4 | Vegetation (Sfc Ref, NDVI) | Vermote Matthews | x | 17-Jan | 22-May | 2-Jul | 26-Jul | 7-May | 22-May | 6-Nov | 29-May | 9-Jul | 22-Aug | 6-Nov | 30-Jun | 8-Nov | 1-Apr | 1-Nov | 19-Nov | 5-Mar | 24-Apr | 12-Nov | 14-May | 6-Nov | 15-May | 6-May | 7-May | 15-May | 16-May | 21-May |
| 5 | MSU TCDR | Zou Semunegus | x | IP 23-Dec | 25-Feb | 25-Feb | 25-Feb | 25-Feb | 25-Feb | 19-Mar | 4-Mar | 4-Mar | 4-Mar | 4-Mar | 4-Mar | 26-Mar | 28-Mar | 31-Mar | 31-Mar | 31-Mar | 28-Mar | 2-Apr | | 2-May | 8-May | 25-Apr | 1-Apr | | | May 2014 |
| 6 | OLR Daily | HT Lee Shreck | x | x | June | 6-Jan | May | 11-Jan | 30-Jan | | | 10-Jan | | 14-Jan | | | 15-Jan | | 15-Jan | | | | | | | | | | | May 2014 |
| 7,8,9 | Ocean Surface (SST, Sfc Props, Heat Flux) | Clayton Zhang | x | 21-Feb | 12-Dec | 3-Apr | 20-May | 19-Feb | 25-Nov | ATRAC | 16-Dec | | | | 13-Dec | | | | | | | | | | | | | | | Jul 2014 |
| 10 | Stratospheric (Ozone) | Rosenlof Young | x | x | 20-May | | 20-Mar | | 30-Oct 4-Apr | ATRAC | | | 27-Mar | | 6-Jan | | | | | | | | | | | | | | | Jul 2014 |
| 11,12 | Cryosphere (APP FCDR) (APP-x TCDR) | Key Young | 13-Jun | IP 20-Dec | | | 20-Mar | 12-Mar | 12-Mar | | | | 25-Apr | 20-Mar | 25-Apr | | | | | | | | | | | | | | | Aug 2014 |
| 13 | AVHRR FCDR (5 CHs, Cloud Properties) | Minnis Young | x | 22-Nov | | 14-Feb | 31-Dec | 7-Feb | 14-Feb | 20-Dec | | 21-Feb | 13-Feb | 14-Feb | 18-Feb | | | | | | 14 TB May | | | | 60 TB | | | | | Aug 2014 |
| 14 | Vegetation (LAI/FAPAR) | Vermote Matthews | x | 17-Jan | 24-Jun | 2-Jul | 26-Jul | 7-May | | 6-Nov | 29-May | 9-Jul | 22-Aug | | | 8-Nov | | 1-Nov | | | | | | | | | | | | Sep 2014 |
| 15 | Cloud/ Moisture Bundle (CTP, TPW) | Menzel Young | x | 31-Jan | 1-Oct | 5-Aug | 15-May | 5-Aug | 21-Oct | ATRAC 10 yr | 29-Oct | 29-Oct | 29-Oct 10-Jan | | | | | | | | NCDC creating | | | | | | | | | Sep 2014 |
| 16 | CMORPH | Xie Prat | x | | | | | | | | | | | | | | | | | | | | | | | | | | | Oct 2014 |
| 17 | Solar Irradiance (Oservational) | Pilewskie Inamdar | x | 6-Mar | 22-Jan | 26-Mar | | 26-Mar | | ATRAC | 9-May | | | | | | | | | | | | | | | | | | | Nov 2014 |
| 18 | Solar Irradiance (Composite) | Lean Inamdar | x | 6-Mar | 22-Jan | 26-Mar | | 26-Mar | | ATRAC | 9-May | | | | | | | | | | | | | | | | | | | Nov 2014 |
| 19 | ISCCP | Rossow Knapp | x | 17-Jan | | | | | | | | | | | | | | | | | | | | | | | | | | Dec 2014 |
| 20 | IIRT Sea Ice Concentration | Fetterer Peng | x | PI says NO deliverables | | | | | | | | | | | | | | | | | | | | | | | | | | Dec 2014 |
| 21 | Tropospheric Height | Ho Shi | x | On Hold | | | | | | | | | | | | | | | | | | | | | | | | | | Dec 2014 |



| ID | CDR | PI TM | Assessment | | | | Deliver Drafts | | | | Review and Provide Feedback | | | | | Deliver Final Versions | | | | | Misc | | Archive | | | Release | | | | |
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| 1 | AMSU-A FCDR (CH7 GPSRO) | Ho Shi | 1) | Complete | | | | | | | | | | | | | | | | | | | | | | | | | | 7-Nov |
| 2 | Cloud Properties | Heidinger Knapp | 2) | Data transfer in progress (3TB so far) | | | | | | | | | | | | | | | | | | | | | | | | | Jun 2014 | |
| 3,4 | Vegetation (Sfc Ref, NDVI) | Vermote Matthews | 3-4) | Changed name to AVHRR Sfc Ref: updated docs, web page, use agreement, registration, flyer, etc. Went live on web site (5/27) | | | | | | | | | | | | | | | | | | | | | | | | | 21-May | |
| 5 | MSU TCDR | Zou Semunegus | 5) | All docs, code, and data are archived. Started ORR checklist. | | | | | | | | | | | | | | | | | | | | | | | | | May 2014 | |
| 6 | OLR Daily | HT Lee Shreck | 6) | PI serving data until ORR is complete (fills gap from ESRL) sftp push to NCDC finally approved after 3 weeks | | | | | | | | | | | | | | | | | | | | | | | | | May 2014 | |
| 7,8,9 | Ocean Surface (SST, Sfc Props, Heat Flux) | Clayson Zhang | 7-9) | Decision made to transition just the SSMI portion, Dev SSMIS in FY15, then extend POR with SSMIS in FY16 | | | | | | | | | | | | | | | | | | | | | | | | | Jul 2014 | |
| 10 | Stratospheric (Ozone) | Rosenlof Young | 10) | Reviewed README and source code, no headers documented | | | | | | | | | | | | | | | | | | | | | | | | | Jul 2014 | |
| 11,12 | Cryosphere (APP FCDR) (APP-x TCDR) | Key Young | 11-12) | Reviewing TCDR C-ATBD; Feedback sent on metadata | | | | | | | | | | | | | | | | | | | | | | | | | Aug 2014 | |
| 13 | AVHRR FCDR (5 CHs, Cloud Properties) | Minnis Young | 13) | 60TB dataset – Will deliver in segments (first 14 TB should be available in May), AB plans to put into CLASS | | | | | | | | | | | | | | | | | | | | | | | | | Aug 2014 | |
| 14 | Vegetation (LAI/FAPAR) | Vermote Matthews | 14) | Now that Sfc Ref and NDVI are complete, will start working this too | | | | | | | | | | | | | | | | | | | | | | | | | Sep 2014 | |
| 15 | Cloud/ Moisture Bundle (CTP, TPW) | Menzel Young | 15) | Opened ATRAC request to get the L1B PATMOS input data from UW | | | | | | | | | | | | | | | | | | | | | | | | | Sep 2014 | |
| 16 | CMORPH | Xie Prat | 16) | Start work in FY14 – but low priority | | | | | | | | | | | | | | | | | | | | | | | | | Oct 2014 | |
| 17 | Solar Irradiance (Observational) | Pilewskie Inamdar | 17) | Received updated code package (headers look good, easy to run IDL script) | | | | | | | | | | | | | | | | | | | | | | | | | Nov 2014 | |
| 18 | Solar Irradiance (Composite) | Lean Inamdar | 18) | Had IPT telecon; POR 1882 to present for TSI and SSI (annual from 1615); received sample data, needs a lot of work. | | | | | | | | | | | | | | | | | | | | | | | | | Nov 2014 | |
| 19 | ISCCP | Rossow Knapp | 19) | Anand/Alisa/Bill found coding error; they were able to step through one month of processing | | | | | | | | | | | | | | | | | | | | | | | | | Dec 2014 | |
| 20 | IIRT Sea Ice Concentration | Fetterer Peng | 20) | CIRES money in place; PI says there are NO deliverables with a grant - will need to monitor closely | | | | | | | | | | | | | | | | | | | | | | | | | Dec 2014 | |
| 21 | Tropospheric Height | Ho Shi | 21) | Low Priority | | | | | | | | | | | | | | | | | | | | | | | | | Dec 2014 | |

CDRP Open Change Requests

| Name of CDR | C-ATBD | Data Flow Diagram | Maturity Matrix | VDD | Source Code | NetCDF sample | Dataset | Request to Archive | Approved for Archive | SA | DSRR | Data Access |
|--|-------------|-------------------|-----------------|-----|---------------------------|---------------------------------------|--|-----------------------|-----------------------|-------------|-----------------------|-------------|
| AVHRR Reflectance - PATMOS-x | No change | √ | No change | N/A | √ needs to be archived | √ | Dataset is about half way done, 3TB has been pulled and archived | √ | √ | Mar-14 | Mar-14 | |
| Geostationary IR Channel Brightness Temperature - GridSat B1 | Needed, TBD | Needed, TBD | Needed, TBD | N/A | √ | √ | √ | √ | √ | √ | Aug-13 | √ |
| Sea Surface Temperature - Pathfinder | Feb-14 | No change | No change | √ | Mar-14 | Provider needs to submit final sample | Needed, TBD | √ | √ | Needed, TBD | Needed, TBD | |
| Outgoing Longwave Radiation - Monthly | No change | No change | No change | N/A | √ needs to be archived | √ | Need SA/DSRR | √ | √ | Needed, TBD | Needed, TBD | |
| PERSIANN-CDR | √ | No change | No change | N/A | √ | √ | √ | N/A per Nancy Ritchey | N/A per Nancy Ritchey | √ | N/A per Nancy Ritchey | Pulling |





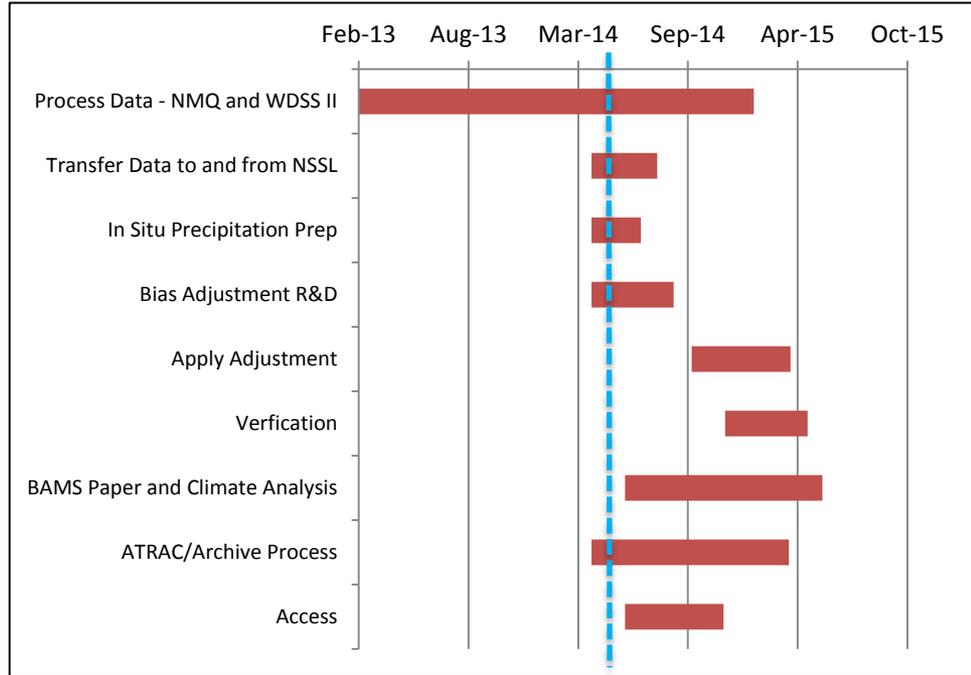
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NOAA NEXRAD Reanalysis

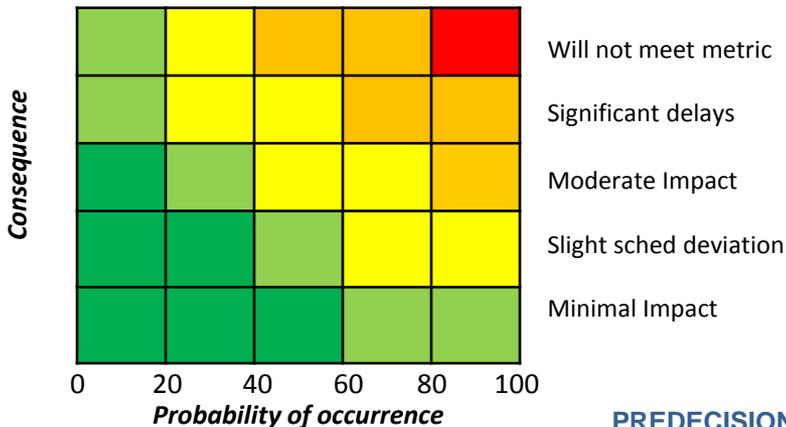
Weekly Report – May 29, 2014

NNR – NOAA NEXRAD Reanalysis

- Obtain 2010 2008 2004 QPE data from NSSL
- Present Project Overview to Stewardship Council
- Process 2007 (Severe Weather and Hydro)
- Obtain 2001 data from NCDC archive
- Develop Bias Adjustment Plan
- Transfer GCHN-Daily, and HADS data to NSSL
- Present at Weather Radar Symposium
- Process 2006 2007 2009 20011 data



Risk Matrix



Risk and Mitigation

No Risk at this time



CDR Program Office

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

Weekly Report – May 30, 2014

VIIRS

①

- Completed code for C-RDR.

②

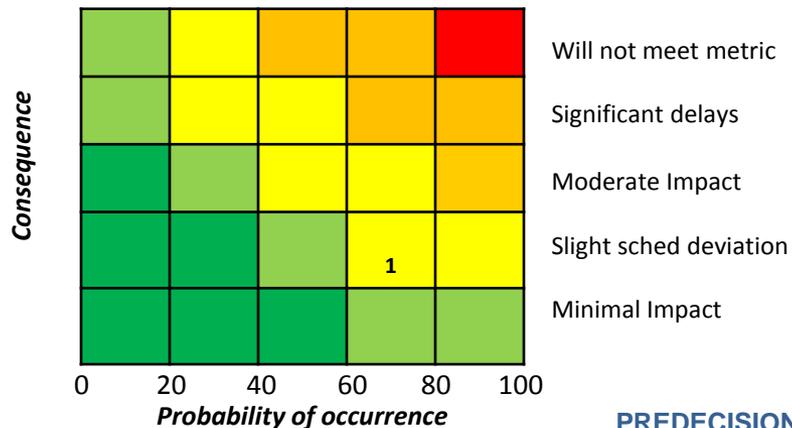
System Infrastructure

- Integrating with the VIIRS C-RDR.
- Determining best mechanism to release C-RDR software.**
- Responding to C-RDR interest at the STAR JPSS science meeting.**
- C-RDR web page is up and running.
- Working to generate a current supporting data file.
- VIIRS C-RDRs are operational and accessible via HAS.
- Collection level metadata available on Climate.gov and DOI.org.
- Evaluating JPSS support data Change Requests and their effects.
- C-RDR is first product moving to three tier environment.
- Initial verification of SDR from C-RDR compared successfully.
- VIIRS Product Specification is ITAR approved.
- Will deliver initial version with ADL 3.1.

| C-RDR Project | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| Milestones | | | | | | | ▲ | | ▲▲ | | | | | | | | | |
| Finalize Code | | | | | | ■ | | | | | | | | | | | | |
| TEST | | | | | | ■ | ■ | ■ | ■ | | | | | | | | | |
| Dry Runs | | | | | | ■ | ■ | ■ | ■ | | | | | | | | | |
| SAT | | | | | | | | | ■ | | | | | | | | | |
| OPERATIONS | | | | | | | | | ■ | | | | | | | | | |
| Prepare OPS | | | | | | | | | ■ | | | | | | | | | |
| Operations | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Analyze Monitor | | | | | | | | | | | | | | | | ■ | ■ | ■ |
| CR: Support Data | | | | | | | | | | | | | | | | | | ■ |

R2O PHASE: ANALYSIS DESIGN DEVELOPMENT INTEGRATION TEST OPERATIONAL

Risk Matrix



Risk and Mitigation

Forward processing of C-RDRs is ongoing operationally. Need to reprocess past C-RDRs and create Support Data files. Will assess this need as users request.

PREDECISIONAL DRAFT INFORMATION

7/14/2014

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



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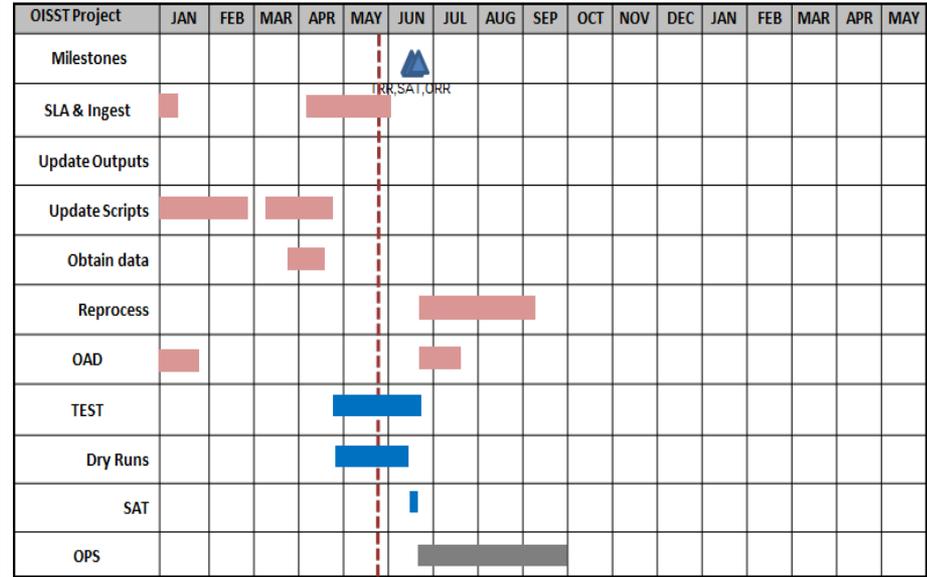
OISST Research to Operations Project

Weekly Report – May 30, 2014

1 OISST – Optimum Interpolated Sea Surface Temperature

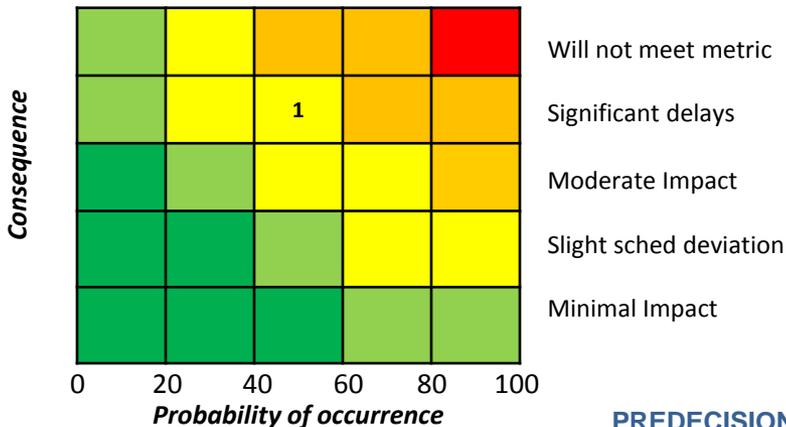
- Gathering test data for the SAT and dry runs.
- Completed GHRSSST 2.0 output code updates.
- Successfully completed 30 day parallel test.
- Comparing NCDC GTS with NCEP ship/buoy data for use. GCAD is resolving issues but requires new operational code.
- AVHRR data for the 15 day delay product is available from CLASS.
- Running test data and code on Rainband for parallel test.
- GSTWG discussing inputs and production of preliminary OISST.
- Created a SOP for operational OISST.
- Completed refactoring of each component.
- Conducted Technology Assessment Review July 25.

Operations:



R2O PHASE: ANALYSIS DESIGN DEVELOPMENT INTEGRATION TEST OPERATIONAL

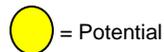
Risk Matrix



Risk and Mitigation

1 Time to progress through the three tier environment. ITB support is required.

PREDECISIONAL DRAFT INFORMATION





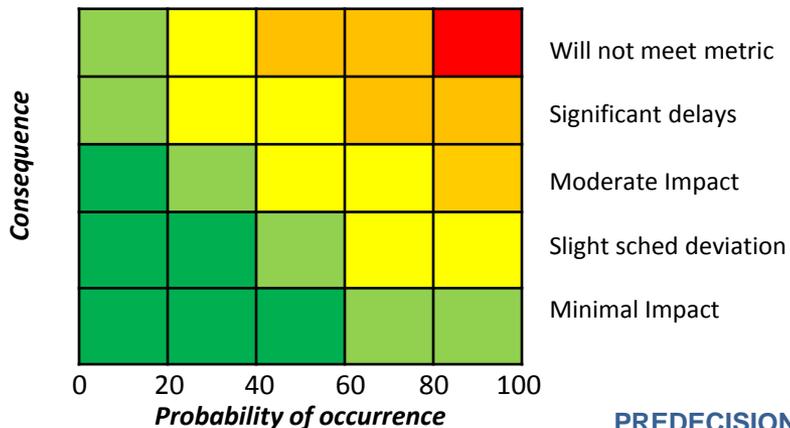
CDR Program Office Operations Monitoring Tool

Weekly Report – May 30, 2014

1 Operations Monitoring Tool development

- Created a Project Plan.
- Need to resolve resource questions to scope project.
- Monitoring of ingest and archive data streams.
- Monitoring of operational processing.

Risk Matrix



Risk and Mitigation

PREDECISIONAL DRAFT INFORMATION

