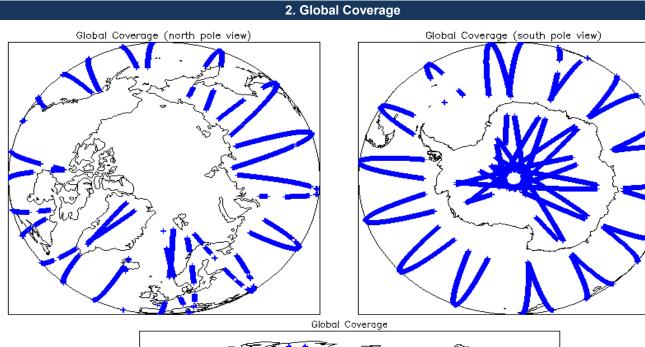


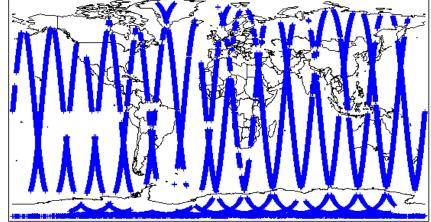
IDEAS+ Daily Report for NRT data:

<u>27/03/2015</u>

| Report Production Date: | 30-Mar-2015 | Check | Status | |
|-------------------------|-------------------------------------|---|------------------------------------|--|
| | | Server check: science-pds.cryosat.esa.int | Nominal | |
| Data Used: | L1 and L2 Fast Delivery Marine Mode | Server check: calval-pds.cryosat.esa.int | Nominal | |
| | (FDM), and CAL Data | Product Software Check | Nominal | |
| | | Product Format Check | Nominal | |
| | | Product Header Analysis | Nominal | |
| | | Auxiliary Data File Usage | Nominal | |
| | | Correction Error Flags | Nominal | |
| | | Measurement Confidence Flags | See Sections 5.5, 6.5, 6.6 and 6.8 | |

| Mission / Instr | Mission / Instrument News | | |
|-----------------|----------------------------|--|--|
| 26-Mar-2015 | Baseline-C IPFs installed. | | |
| 27-Mar-2015 | None | | |
| 28-Mar-2015 | Nothing planned | | |





3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use: SIRAL - A

4. Level 1B Calibration Data Quality Check

4.1 L1 CAL Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors:

4.2 L1 CAL Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the processing chain.

0

| 4.3 L1 CAL Auxiliary Data File Usage | Check | | |
|--|--|--|--|
| Each product is checked for missing Data Set Descripto | rs wrt a pre-determined bas | seline and also to check the validity of Auxi | liary Data Files is correct. |
| Number of products with errors: | 0 | | |
| 4.4 L1 CAL Measurement Confidence | Flags | | |
| CryoSat Cal1 and Cal2 data includes a measurement or | - |) for each measurement record. The bit va | lue of this flag indicates any problems when set. |
| Number of products with errors: | 0 | | |
| | 5. Level | 1B FDM Data Quality Ch | leck |
| 5.1 L1B FDM Product Format Check | | | |
| Each product, retrieved and unpacked from the science | server is checked to ensu | re it consists of both an XML beader file (F | IDR) and a binary product file (DBI) |
| Number of products with errors: | 0 | | ···· , |
| 5.2 L1B FDM Product Header Analysi | 8 | | |
| | | PH in order to identify any inconsistencies a | nd/or errors raised by the ground-segment processing chain. |
| Number of products with errors: | 0 | | |
| 5.3 L1B FDM Auxilary Data File Usage | Check | | |
| Each product is checked for missing Data Set Descripto | | seline and also to check the validity of Auxi | iary Data Eiles is correct |
| Number of products with errors: | 0 | ,,,,,,, | |
| 5.4 L1B FDM Correction Error Flags | | | |
| Each product is checked to detect auxiliary corrections t | lagged by the ground-statio | n processing chain as missing or containin | n errors |
| Number of products with errors: | 0 | | g di di di |
| 5.5 L1B FDM Measurement Confiden | ce Flags | | |
| CryoSat L1B data includes a measurement confidence t | lag word (field 14) for each | measurement record. The bit value of this | flag indicates any problems when set. |
| Number of products with errors: | 1 | | |
| Product | | Test Failed | Description |
| CS_OFFL_SIR_FDM_1B_20150327T064842_2015032 | 7T070554_C001 | Echo error | The Echo Rx1 Error flag is set, indicating a degraded raw echo |
| | 6. Leve | el 2 FDM Data Quality Che | eck |
| C 4 L 2 EDM Dreduct Formet Check | | | |
| 6.1 L2 FDM Product Format Check | | | |
| Each product, retrieved and unpacked from the science | server, is checked to ensur | re it consists of both an XML header file (.F | IDR) and a binary product file (.DBL) |
| | server, is checked to ensur | re it consists of both an XML header file (.F | IDR) and a binary product file (.DBL) |
| Each product, retrieved and unpacked from the science | | re it consists of both an XML header file (.F | IDR) and a binary product file (.DBL) |
| Each product, retrieved and unpacked from the science Number of products with errors: | 0 | · · · · · · · · · · · · · · · · · · · | |
| Each product, retrieved and unpacked from the science Number of products with errors: 6.2 L2 FDM Product Header Analysis For all products, a series of pre-defined checks are carr Currently there is a high number of processing error flag | 0 ied out on the MPH and SP s set within the Level 2 FDI | PH in order to identify any inconsistencies an M products (Product_Err and L2_Proc_Flag | nd/or errors raised by the processing chain. g). These flags are set within L2 Header files (MPH field #19 and SPH field |
| Each product, retrieved and unpacked from the science Number of products with errors: 6.2 L2 FDM Product Header Analysis For all products, a series of pre-defined checks are carr Currently there is a high number of processing error flag | 0 ied out on the MPH and SP s set within the Level 2 FDI and SPH field #33). They a | H in order to identify any inconsistencies and M products (Product_Err and L2_Proc_Flag are set by the FDM processor when an error | nd/or errors raised by the processing chain. g). These flags are set within L2 Header files (MPH field #19 and SPH field r is detected during the L2 processing and also when the percentage of |
| Each product, retrieved and unpacked from the science Number of products with errors: 6.2 L2 FDM Product Header Analysis For all products, a series of pre-defined checks are carr Currently there is a high number of processing error flag #29) and also within the L2 Product files (MPH field #35 | 0 ied out on the MPH and SP s set within the Level 2 FDI and SPH field #33). They a | H in order to identify any inconsistencies and M products (Product_Err and L2_Proc_Flag are set by the FDM processor when an error | nd/or errors raised by the processing chain. g). These flags are set within L2 Header files (MPH field #19 and SPH field r is detected during the L2 processing and also when the percentage of |
| Each product, retrieved and unpacked from the science Number of products with errors: 6.2 L2 FDM Product Header Analysis For all products, a series of pre-defined checks are carr Currently there is a high number of processing error flag #29) and also within the L2 Product files (MPH field #35 Data Set Records free of processing errors is below the | 0 ied out on the MPH and SP s set within the Level 2 FDI and SPH field #33). They a | H in order to identify any inconsistencies and M products (Product_Err and L2_Proc_Flag are set by the FDM processor when an error | nd/or errors raised by the processing chain. g). These flags are set within L2 Header files (MPH field #19 and SPH field r is detected during the L2 processing and also when the percentage of |
| Each product, retrieved and unpacked from the science Number of products with errors: 6.2 L2 FDM Product Header Analysis For all products, a series of pre-defined checks are carr Currently there is a high number of processing error flag #29) and also within the L2 Product files (MPH field #35 Data Set Records free of processing errors is below the This issue is under investigation. | 0 eed out on the MPH and SP s set within the Level 2 FDI and SPH field #33). They a minimum acceptable thresh | H in order to identify any inconsistencies and M products (Product_Err and L2_Proc_Flag are set by the FDM processor when an error | nd/or errors raised by the processing chain. g). These flags are set within L2 Header files (MPH field #19 and SPH field r is detected during the L2 processing and also when the percentage of |
| Each product, retrieved and unpacked from the science Number of products with errors: 6.2 L2 FDM Product Header Analysis For all products, a series of pre-defined checks are carr Currently there is a high number of processing error flag #29) and also within the L2 Product files (MPH field #35 Data Set Records free of processing errors is below the This issue is under investigation. Number of products with errors: 6.3 L2 FDM Auxiliary Data File Usage Each product is checked for missing Data Set Descriptor | 0 eed out on the MPH and SP s set within the Level 2 FDI and SPH field #33). They a minimum acceptable thresh 0 Check | H in order to identify any inconsistencies and M products (Product_Err and L2_Proc_Flag are set by the FDM processor when an error hold set within the processor (currently set | nd/or errors raised by the processing chain. g), These flags are set within L2 Header files (MPH field #19 and SPH field r is detected during the L2 processing and also when the percentage of to 5%). |
| Each product, retrieved and unpacked from the science Number of products with errors: 6.2 L2 FDM Product Header Analysis For all products, a series of pre-defined checks are carr Currently there is a high number of processing error flag #29) and also within the L2 Product files (MPH field #35 Data Set Records free of processing errors is below the This issue is under investigation. Number of products with errors: 6.3 L2 FDM Auxiliary Data File Usage | 0 eed out on the MPH and SP s set within the Level 2 FDI and SPH field #33). They a minimum acceptable thresh 0 Check | H in order to identify any inconsistencies and M products (Product_Err and L2_Proc_Flag are set by the FDM processor when an error hold set within the processor (currently set | nd/or errors raised by the processing chain. g). These flags are set within L2 Header files (MPH field #19 and SPH field r is detected during the L2 processing and also when the percentage of to 5%). |
| Each product, retrieved and unpacked from the science Number of products with errors: 6.2 L2 FDM Product Header Analysis For all products, a series of pre-defined checks are carr Currently there is a high number of processing error flag #29) and also within the L2 Product files (MPH field #35 Data Set Records free of processing errors is below the This issue is under investigation. Number of products with errors: 6.3 L2 FDM Auxiliary Data File Usage Each product is checked for missing Data Set Descriptor | 0 ied out on the MPH and SP s set within the Level 2 FDI and SPH field #33). They a minimum acceptable thresh 0 Check rs wrt a pre-determined base | H in order to identify any inconsistencies and M products (Product_Err and L2_Proc_Flag are set by the FDM processor when an error hold set within the processor (currently set | nd/or errors raised by the processing chain. g), These flags are set within L2 Header files (MPH field #19 and SPH field r is detected during the L2 processing and also when the percentage of to 5%). |
| Each product, retrieved and unpacked from the science Number of products with errors: 6.2 L2 FDM Product Header Analysis For all products, a series of pre-defined checks are carr Currently there is a high number of processing error flag #29) and also within the L2 Product files (MPH field #35 Data Set Records free of processing errors is below the This issue is under investigation. Number of products with errors: 6.3 L2 FDM Auxiliary Data File Usage Each product is checked for missing Data Set Descripton Number of products with errors: | 0 eed out on the MPH and SP s set within the Level 2 FDI and SPH field #33). They a minimum acceptable thresh 0 Check rs wrt a pre-determined bas 0 | "H in order to identify any inconsistencies an M products (Product_Err and L2_Proc_Flag are set by the FDM processor when an erro hold set within the processor (currently set seline and also to check the validity of Auxi | nd/or errors raised by the processing chain. g). These flags are set within L2 Header files (MPH field #19 and SPH field r is detected during the L2 processing and also when the percentage of to 5%). |
| Each product, retrieved and unpacked from the science Number of products with errors: 6.2 L2 FDM Product Header Analysis For all products, a series of pre-defined checks are carr Currently there is a high number of processing error flag #29) and also within the L2 Product files (MPH field #35 Data Set Records free of processing errors is below the This issue is under investigation. Number of products with errors: 6.3 L2 FDM Auxiliary Data File Usage Each product is checked for missing Data Set Descripton Number of products with errors: 6.4 L2 FDM Correction Error Flags | 0 eed out on the MPH and SP s set within the Level 2 FDI and SPH field #33). They a minimum acceptable thresh 0 Check rs wrt a pre-determined bas 0 | "H in order to identify any inconsistencies an M products (Product_Err and L2_Proc_Flag are set by the FDM processor when an erro hold set within the processor (currently set seline and also to check the validity of Auxi | nd/or errors raised by the processing chain. g). These flags are set within L2 Header files (MPH field #19 and SPH field r is detected during the L2 processing and also when the percentage of to 5%). |
| Each product, retrieved and unpacked from the science Number of products with errors: 6.2 L2 FDM Product Header Analysis For all products, a series of pre-defined checks are carr Currently there is a high number of processing error flag #29) and also within the L2 Product files (MPH field #35 Data Set Records free of processing errors is below the This issue is under investigation. Number of products with errors: 6.3 L2 FDM Auxiliary Data File Usage Each product is checked for missing Data Set Descriptor Number of products with errors: 6.4 L2 FDM Correction Error Flags Each product is checked to detect auxiliary corrections for | 0 eed out on the MPH and SP s set within the Level 2 FDI and SPH field #33). They a minimum acceptable thresh 0 Check Instruction of the set of the | "H in order to identify any inconsistencies an M products (Product_Err and L2_Proc_Flag are set by the FDM processor when an erro hold set within the processor (currently set seline and also to check the validity of Auxi | nd/or errors raised by the processing chain. g). These flags are set within L2 Header files (MPH field #19 and SPH field r is detected during the L2 processing and also when the percentage of to 5%). |
| Each product, retrieved and unpacked from the science Number of products with errors: 6.2 L2 FDM Product Header Analysis For all products, a series of pre-defined checks are carr Currently there is a high number of processing error flag #29) and also within the L2 Product files (MPH field #35 Data Set Records free of processing errors is below the This issue is under investigation. Number of products with errors: 6.3 L2 FDM Auxiliary Data File Usage Each product is checked for missing Data Set Descriptor Number of products with errors: 6.4 L2 FDM Correction Error Flags Each product is checked to detect auxiliary corrections for Number of products with errors: 6.5 L2 FDM Measurement Confidence | 0 ed out on the MPH and SP s set within the Level 2 FDI and SPH field #33). They a minimum acceptable thresh 0 Check rs wrt a pre-determined bas 0 lagged by the ground-statio 0 Flags | H in order to identify any inconsistencies and M products (Product_Err and L2_Proc_Flag are set by the FDM processor when an error hold set within the processor (currently set seline and also to check the validity of Auxi on processing chain as missing or containin | nd/or errors raised by the processing chain. g). These flags are set within L2 Header files (MPH field #19 and SPH field r is detected during the L2 processing and also when the percentage of to 5%). |
| Each product, retrieved and unpacked from the science Number of products with errors: 6.2 L2 FDM Product Header Analysis For all products, a series of pre-defined checks are carr Currently there is a high number of processing error flag #29) and also within the L2 Product files (MPH field #35 Data Set Records free of processing errors is below the This issue is under investigation. Number of products with errors: 6.3 L2 FDM Auxiliary Data File Usage Each product is checked for missing Data Set Descriptor Number of products with errors: 6.4 L2 FDM Correction Error Flags Each product is checked to detect auxiliary corrections for Number of products with errors: 6.5 L2 FDM Measurement Confidence | 0 ed out on the MPH and SP s set within the Level 2 FDI and SPH field #33). They a minimum acceptable thresh 0 Check rs wrt a pre-determined bas 0 lagged by the ground-statio 0 Flags | H in order to identify any inconsistencies and M products (Product_Err and L2_Proc_Flag are set by the FDM processor when an error hold set within the processor (currently set seline and also to check the validity of Auxi on processing chain as missing or containin | nd/or errors raised by the processing chain. g). These flags are set within L2 Header files (MPH field #19 and SPH field r is detected during the L2 processing and also when the percentage of to 5%). |

6.6 L2 FDM Range Measurement Flags

| Each product is checked to detect range measurements flagged by the processing chain as missing or containing errors. |
|--|
| zach productio checked to detect lange medeal onione hagged by the proceeding chain do modeling of containing checked. |

| Number of products with errors: | 2 |
|---------------------------------|---|

| Product | Test Failed | Description |
|---|---------------------------|--|
| CS_OFFL_SIR_FDM_220150327T001801_20150327T003108_C001 | OCOG Retracked Range Flag | The master fail flag is set by the OCOG call, for one or more records, indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220150327T073616_20150327T081002_C001 | OCOG Retracked Range Flag | The master fail flag is set by the OCOG call, for one or more records, indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records. |

6.7 L2 FDM SWH and Backscatter Measurement Flags

Each product is checked to detect parameters related to SWH and sigma0 that are flagged by the processing chain as missing or containing errors.

Number of products with errors:

6.8 L2 FDM Geophysical Measurement Flags

Each product is checked to detect geophysical measurements flagged by the processing chain as missing or containing errors.

0

4

Number of products with errors:

| Product | Test Failed | Description |
|---|-------------------------------|---|
| CS_OFFL_SIR_FDM_220150327T001801_20150327T003108_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220150327T051454_20150327T051842_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220150327T115805_20150327T122041_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220150327T174811_20150327T180445_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. |

7. QCC Check

The QCC is a CryoSat facility that performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

| Product type | Nb. Products | Nb. QCC Reports | Nb. Valid | Nb. Warnings | Nb. Errors |
|--------------------------------|--------------|-----------------|-----------|--------------|------------|
| SIR_FDM_1B | 164 | 0 | 0 | 0 | 0 |
| SIR_FDM_2 | 163 | 0 | 0 | 0 | 0 |
| | | | | | |
| 7.1 QCC Errors | | | | | |
| Number of QCC reports with err | ors: |) | | | |
| 7.2 Missing QCC Repo | rts | | | | |
| Number of products with missir | | 1 | | | |