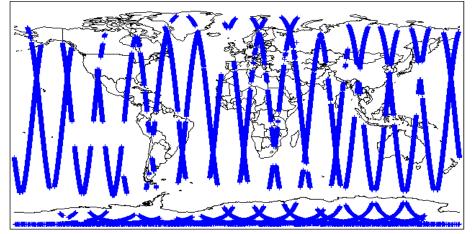
	EAS Daily Report for NR1	<u>data: 05-Aug-2013</u>	IDEAS Y
		1. Overview	
		Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
		Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
Report Production Date:	07 Aug 2012	Product Format Check	Nominal
Report Production Date.	07-Aug-2013	Product Header Analysis	Nominal
Data Used:	L1 and L2 Fast Delivery Marine Mode (FDM), and CAL Data	Auxiliary Data File Usage	Nominal
Data Used:		Correction Error Flags	Nominal
		Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8
Mission / Instrument News			
04-Aug-2013 None			
05-Aug-2013 None			
06-Aug-2013 Nothing plann	ed		

2. GI	obal Coverage
Global Coverage (north pole view)	Global Coverage (south pole view)
And a state of the	
Globe	al Coverage



3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A	
Star Tracker(s) in use:	Star Tracker 1 & 2	

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: 0

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.

Number of products with errors:

0

4.3 L1 CAL Auxiliary Data File Us	sage Check
Each product is checked for missing Data Set D	escriptors wrt a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.
Number of products with errors:	0
4.4 L1 CAL Measurement Confid	ence Flags
CryoSat Cal1 and Cal2 data includes a measure	ment confidence flag word (field 11) for each measurement record. The bit value of this flag indicates any problems when set.
Number of products with errors:	0
	5. Level 1B FDM Data Quality Check
5.1 L1B FDM Product Format Ch	eck
Each product, retrieved and unpacked from the s	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:	0
5.2 L1B FDM Product Header An	alysis
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 ground-segment processing chain.
Number of products with errors:	
5.3 L1B FDM Auxilary Data File L	Jsage Check
Each product is checked for missing Data Set De	escriptors wrt a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.
Number of products with errors:	0
5.4 L1B Correction Error Flags	
Each product is checked to detect auxiliary corre	ections flagged by the ground-station processing chain as missing or containing errors.
Number of products with errors:	0
5.5 L1B FDM Measurement Conf	idence Flags
	idence flan word (field 14) for each measurement record. The hit value of this flan indicates any problems when set

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20130805T045334_20130805T045630_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_1B_20130805T111023_20130805T111919_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_1B_20130805T125520_20130805T125607_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130805T160916_20130805T161038_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130805T161038_20130805T161507_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_1B_20130805T192601_20130805T193338_B001	Attitude correction missing	The attitude has not been corrected

6. Level 2 FDM Data Quality Check

6.1 L2 FDM 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: 0

6.2 L2 FDM 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.

Currently there is a high number of processing error flags set within the Level 2 FDM products (Product_Err and L2_Proc_Flag). These flags are set within L2 Header files (MPH field #19 and SPH field #29) and also within the L2 Product files (MPH field #35 and SPH field #33). They are set by the FDM processor when an error is detected during the L2 processing and also when the percentage of Data Set Records free of processing errors is below the minimum acceptable threshold set within the processor (currently set to 5%).

This issue is under investigation.

Number of products with errors:

6.3 L2 FDM Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors wrt a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

0

0

0

6

6.4 L2 FDM Correction Error Flags

Each product is checked to detect auxiliary corrections flagged by the ground-station processing chain as missing or containing errors.

Number of products with errors:

6.5 L2 FDM Measurement Confidence Flags

CryoSat L2 data includes a quality flag word (field 8) for each 20-Hz measurement record. The bit value of this flag is an assessment of the measurement quality by the processing chain.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130805T045334_20130805T045630_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130805T111023_20130805T111919_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130805T125520_20130805T125607_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130805T160916_20130805T161038_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130805T161038_20130805T161507_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130805T192601_20130805T193338_B001	Attitude correction missing	The attitude has not been corrected

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.

6

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130805T000901_20130805T002939_B001	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.

Number of products with errors: 8		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130805T000901_20130805T002939_B001	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_220130805T010229_20130805T011404_B001	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_220130805T054424_20130805T061954_B001	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_220130805T091957_20130805T092920_B001	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_220130805T095042_20130805T100836_B001	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_220130805T113458_20130805T115003_B001	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_220130805T204030_20130805T205309_B001	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_220130805T205523_20130805T211409_B001	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	145	144	100	44	0
SIR_FDM_2	144	144	0	144	0

7.1 QCC Errors

Number of QCC reports with errors:

7.2 Missing QCC Reports

Number of products with missing QCC reports:

Product name

CS_OFFL_SIR_FDM_1B_20130804T235344_20130805T000138_B001 CS_OFFL_SIR_FDM_2_20130804T235344_20130805T000138_B001

0

2