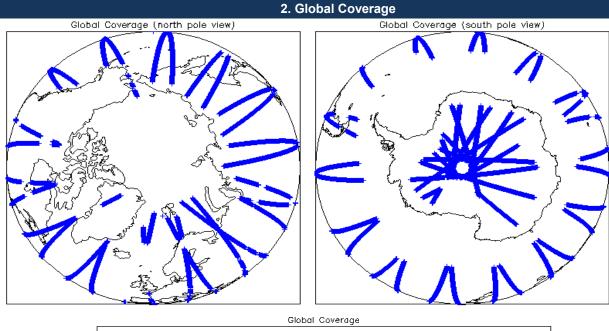
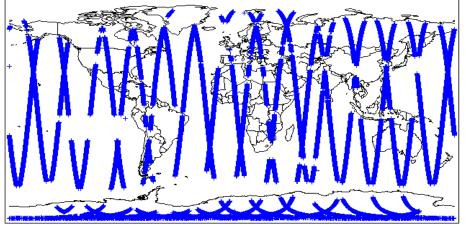
CRYDSAT	IDEAS Daily Report for N	IRT data:	<u>30-Aug-2013</u>	IDEAS Y
		1. 0	verview	
			Check	Status
		Serv	er check: science-pds.cryosat.esa.int	Nominal
		Ser	ver check: calval-pds.cryosat.esa.int	Nominal
			Product Software Check	Nominal
Report Production	Date: 02-Sep-2013		Product Format Check	Nominal
Report Production	1 Date. 02-Sep-2013		Product Header Analysis	Nominal
Data Used:	L1 and L2 Fast Delivery Marine		Auxiliary Data File Usage	Nominal
Dala Useu.	Mode (FDM), and CAL Data		Correction Error Flags	Nominal
			Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8
		lener and the second se		
Mission / Instrument No	ews			
29-Aug-2013 None				
30-Aug-2013 None				
31-Aug-2013 Nothin	ng planned			





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:

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 Usage Check		
Each product is checked for missing Data Set Descriptors wrt a pre-determined base	line and also to check the validity of Aux	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 confidence flag word (field 11)	for each measurement record. The bit va	lue of this flag indicates any problems when set.
Number of products with errors: 0		
5. Level 1E	3 FDM Data Quality Che	ck
5.1 L1B 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 (.F	IDR) and a binary product file (.DBL).
Number of products with errors: 0		
5.2 L1B 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 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 Descriptors wrt a pre-determined base	line and also to check the validity of Aux	liary Data Files is correct.
Number of products with errors: 0		
5.4 L1B Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-station	processing chain as missing or containin	ig errors.
Number of products with errors: 0		
5.5 L1B FDM Measurement Confidence Flags		
CryoSat L1B data includes a measurement confidence flag word (field 14) for each n	neasurement record. The bit value of this	flag indicates any problems when set.
Number of products with errors: 6		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20130830T113535_20130830T113606_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130830T115148_20130830T115524_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw
CS_OFFL_SIR_FDM_1B_20130830T131219_20130830T131224_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130830T144854_20130830T145026_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130830T180534_20130830T181306_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130830T212009_20130830T212721_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw
6. Level 2	FDM Data Quality Cheo	:k

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

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.

0

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_220130830T113535_20130830T113606_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130830T115148_20130830T115524_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130830T131219_20130830T131224_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130830T144854_20130830T145026_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130830T180534_20130830T181306_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130830T212009_20130830T212721_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.

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. 3

6

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130830T002433_20130830T004340_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.
CS_OFFL_SIR_FDM_220130830T101104_20130830T101321_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.
CS_OFFL_SIR_FDM_220130830T220359_20130830T221927_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.

1

Number of products with errors: 5		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130830T002433_20130830T004340_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_220130830T020114_20130830T021235_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_220130830T033309_20130830T033814_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_220130830T083105_20130830T084826_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_220130830T212844_20130830T213120_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.

_	-		
_	\sim	\mathbf{c}	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	131	136	97	38	1
SIR_FDM_2	128	136	0	136	0

7.1 QCC Errors

Number of QCC reports with errors:

Product Type	Product Start Time	Product Start Time		
SIR_FDM_1B	CS_OPER_AUX_REP_QC_20	CS_OPER_AUX_REP_QC_20130830T072329_SIR_FDM_1B20130830T033309.EEF		
Test Description Kev:				
	T 4	D - 4-11-		
Abbreviation	Test name	Details		
RRTAISSOB	RangeRecordTAIStartStopOrBlank The time value should be between the record TAI start/stop times of the SPH			

7.2 Missing QCC Reports

Number of products with missing QCC reports: