CRYDSAT	<u>IDE</u>	EAS Daily Report for NRT data:		<u>03-Jul-2013</u>	IDEAS Y
			1. ()verview	
				Check	Status
		Se	rver check: science-pds.cryosat.esa.int	Nominal	
			S	erver check: calval-pds.cryosat.esa.int	Nominal
				Product Software Check	Nominal
Report Production Date:		e: 04-Jul-2013		Product Format Check	Nominal
				Product Header Analysis	Nominal
Data Used:		L1 and L2 Fast Delivery Marine Mode (FDM), and CAL Data		Auxiliary Data File Usage	Nominal
				Correction Error Flags	Nominal
· · · ·				Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8
Mission / Instrume	ent News				
02-Jul-2013	None				
03-Jul-2013	None				
04-Jul-2013	Nothing planne	t			





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

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 Usage Check	(
Each product is checked for missing Data Set Descriptors wrt a p	pre-determined baseline an	d also to check the validity of Auxiliary I	ata 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	e flag word (field 11) for eac	ch measurement record. The bit value of	this flag indicates any problems when set.
Number of products with errors: 0			
	5. Level 1B FD	M Data Quality Check	
5.1 L1B FDM Product Format Check			
Each product retrieved and uppacked from the science server in	is checked to ensure it cons	iets of both an XML beader file (HDR) :	ind a binary product file (DRI)
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 of	n the MPH and SPH in orde	er to identify any inconsistencies and/or	errors raised by the ground-segment processing chain.
Number of products with errors: 0			
5.3 L1B FDM Auxilary Data File Usage Chec	sk		
Each product is checked for missing Data Set Descriptors wrt a p	pre-determined baseline an	d also to check the validity of Auxiliary I	bata Files is correct.
Number of products with errors: 0			
5.4 L1B Correction Error Flags			
Each product is checked to detect auxiliary corrections flagged b	y the ground-station proce	ssing chain as missing or containing erro	NrS.
Number of products with errors: 0			
5.5.1.1B EDM Measurement Confidence Flag	as		
CryoSat I 1B data includes a measurement confidence flag word	(field 14) for each measur	ement record. The hit value of this flag in	ndicates any problems when set
Number of products with errors: 5			
Product		Test Failed	Description
CS_OFFL_SIR_FDM_1B_20130703T010115_20130703T01093	37_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_1B_20130703T142622_20130703T14262	24_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130703T160236_20130703T16024	40_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130703T173910_20130703T17403	39_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130703T205550_20130703T21031	12_B001	Attitude correction missing	The attitude has not been corrected
	6. Level 2 FD	M Data Quality Check	
6.1 L2 FDM Product Format Check			
Each product, retrieved and unpacked from the science server, is	s checked to ensure it cons	ists of both an XML header file (.HDR) a	and a binary product file (.DBL)
Number of products with errors: 0			
6.2 L2 FDM Product Header Analysis			
For all products, a spring of the defined shocks are carried out of	n the MPH and SPH in orde	ar to identify any inconsistencies and/or	errors raised by the processing chain
Currently there is a high number of processing error flags set with	thin the Level 2 EDM produ	et to identify any inconsistencies and/or	errors raised by the processing chain.
field #29) and also within the L2 Product files (MPH field #35 and percentage of Data Set Records free of processing errors is belo	3 SPH field #33). They are sow the minimum acceptable	set by the FDM processor when an error threshold set within the processor (curr	is detected during the L2 processing and also when the ently set to 5%).
This issue is under investigation.			
Number of products with errors: 0			
6.3 L2 FDM Auxiliary Data File Usage Check	ĸ		
Each product is checked for missing Data Set Descriptors wrt a	pre-determined baseline an	d also to check the validity of Auxiliary I	Pata Files is correct.
Number of products with errors: 0			
6.4 L2 FDM Correction Error Flags			
Each product is checked to detect auxiliary corrections flagged b	by the ground-station proces	ssing chain as missing or containing erro	ors.

Number of products with errors: 0

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_220130703T010115_20130703T010937_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130703T142622_20130703T142624_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130703T160236_20130703T160240_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130703T173910_20130703T174039_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130703T205550_20130703T210312_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. 5

5

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130703T013846_20130703T020022_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_220130703T075959_20130703T080150_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_220130703T130503_20130703T132010_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_220130703T205550_20130703T210312_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_220130703T222510_20130703T224234_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. 6

0

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130703T013846_20130703T020022_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_220130703T075959_20130703T080150_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_220130703T112524_20130703T113844_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_220130703T130503_20130703T132010_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_220130703T205550_20130703T210312_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_220130703T222510_20130703T224234_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.

SIR_FDM_1B 138 137 129 8	Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
	SIR_FDM_1B	138	137	129	8	0
SIR_FDM_2 138 109 0 109	SIR_FDM_2	138	109	0	109	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_20130702T234523_20130703T000606_B001
CS_OFFL_SIR_FDM_220130702T234523_20130703T000606_B001
CS_OFFL_SIR_FDM_220130703T192530_20130703T192601_B001
CS_OFFL_SIR_FDM_220130703T193830_20130703T201236_B001
CS_OFFL_SIR_FDM_220130703T201826_20130703T202037_B001
CS_OFFL_SIR_FDM_220130703T202044_20130703T202456_B001
CS_OFFL_SIR_FDM_220130703T202938_20130703T205534_B001
CS_OFFL_SIR_FDM_220130703T205550_20130703T210312_B001
CS_OFFL_SIR_FDM_220130703T210312_20130703T210325_B001
CS_OFFL_SIR_FDM_220130703T210545_20130703T210718_B001
CS_OFFL_SIR_FDM_220130703T211553_20130703T212313_B001
CS_OFFL_SIR_FDM_220130703T212702_20130703T213016_B001
CS_OFFL_SIR_FDM_220130703T213457_20130703T215202_B001
CS_OFFL_SIR_FDM_220130703T215417_20130703T215936_B001
CS_OFFL_SIR_FDM_220130703T215942_20130703T215948_B001
CS_OFFL_SIR_FDM_220130703T215955_20130703T220219_B001

31