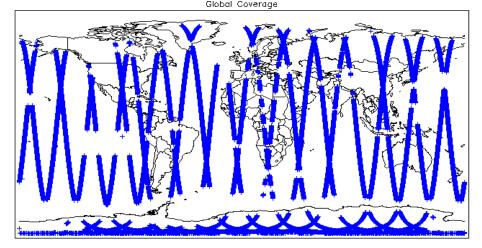
CRYDSAT	IDEAS Daily Report for N	<u>RT data:</u>	<u>29-Jul-2013</u>	IDEAS STA
		1. Ove	erview	
			Check	Status
		Server	check: science-pds.cryosat.esa.int	Nominal
		Server	check: calval-pds.cryosat.esa.int	Nominal
			Product Software Check	Nominal
Report Production	Date: 31-Jul-2013		Product Format Check	Nominal
Report Production i	Date. 31-Jui-2013		Product Header Analysis	Nominal
Data Used:	L1 and L2 Fast Delivery Marine		Auxiliary Data File Usage	Nominal
Data Useu.	Mode (FDM), and CAL Data		Correction Error Flags	Nominal
		Me	easurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8
Mission / Instrument New	ws			
28-Jul-2013 None				
29-Jul-2013 None				
30-Jul-2013 Nothing	l planned			

2. Global Coverage				
Global Coverage (north pole view)	Global Coverage (south pole view)			
And a second sec				
Globa	ni. 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

Each product is checked for missing Data Set Descri			
	ptors wrt a pre-determined ba	aseline and also to check the validity of Aux	iliary Data Files is correct.
lumber of products with errors:	0		
4.4 L1 CAL Measurement Confidence	ce Flags		
CryoSat Cal1 and Cal2 data includes a measuremen	t confidence flag word (field ?	1) for each measurement record. The bit v	alue of this flag indicates any problems when set.
Number of products with errors:	0	,	·····
	5 000	1B FDM Data Quality Che	a ck
5.1 L1B FDM Product Format Check	(		
Each product, retrieved and unpacked from the scien		ure it consists of both an XML header file (.h	HDR) and a binary product file (.DBL).
Number of products with errors:	0		
5.2 L1B FDM Product Header Analy	sis		
For all products, a series of pre-defined checks are c	arried out on the MPH and Si	PH in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain.
Number of products with errors:	0		and or errors raised by the ground segment processing shain.
	na Chaole		
5.3 L1B FDM Auxilary Data File Usa	-		
Each product is checked for missing Data Set Descri		aseline and also to check the validity of Aux	iliary Data Files is correct.
tamber or products with errors:	0		
5.4 L1B Correction Error Flags			
Each product is checked to detect auxiliary correction	is flagged by the ground-stat	ion processing chain as missing or containin	ng errors.
Number of products with errors:	0		
5.5 L1B FDM Measurement Confide	nce Flags		
CryoSat L1B data includes a measurement confidence	e flag word (field 14) for eac	h measurement record. The bit value of this	flag indicates any problems when set.
lumber of products with errors:	8		
Product		Test Failed	Description
CS_OFFL_SIR_FDM_1B_20130729T040950_20130	729T041629_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20130729T064237_20130	729T070726_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20130729T134625_20130		Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130729T134631_20130		Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130729T152902_20130	-	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130729T170835_20130		Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130729T203210_20130		Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130729T204345_20130	729T205334_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
	6. Level	2 FDM Data Quality Che	ck
6.1 L2 FDM Product Format Check			
Each product, retrieved and unpacked from the scier	ce server, is checked to ensu	ure it consists of both an XML header file (.h	HDR) and a binary product file (.DBL)
Number of products with errors:	0		
6.2 L2 FDM Product Header Analysi	S		
	-		
For all products, a series of pre-defined checks are c	arried out on the MPH and SI	PH in order to identify any inconsistencies a	and/or errors raised by the processing chain.
	ield #35 and SPH field #33).	They are set by the FDM processor when a	ag). These flags are set within L2 Header files (MPH field #19 and SPI in error is detected during the L2 processing and also when the or (currently set to 5%).
This issue is under investigation.	0		
This issue is under investigation. Number of products with errors:			
This issue is under investigation. Number of products with errors: 6.3 L2 FDM Auxiliary Data File Usag	je Check	aseline and also to check the validity of Διιχ	iliary Data Files is correct.
This issue is under investigation. Number of products with errors:	je Check	aseline and also to check the validity of Aux	illiary Data Files is correct.

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: 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_220130729T040950_20130729T041629_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130729T064237_20130729T070726_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130729T134631_20130729T135302_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130729T152902_20130729T153002_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130729T170835_20130729T170857_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130729T203210_20130729T203405_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130729T204345_20130729T205334_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

7

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130729T064237_20130729T070726_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_220130729T163838_20130729T164005_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_220130729T205929_20130729T212003_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: 0

# 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

3

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130729T021430_20130729T021506_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_220130729T064237_20130729T070726_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_220130729T132203_20130729T134505_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_220130729T163838_20130729T164005_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_220130729T204345_20130729T205334_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_220130729T205929_20130729T212003_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	137	137	90	47	0
SIR_FDM_2	136	135	0	135	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\_20130728T235809\_20130729T000016\_B001 CS\_OFFL\_SIR\_FDM\_2\_\_20130728T235809\_20130729T000016\_B001 CS\_OFFL\_SIR\_FDM\_2\_\_20130729T203210\_20130729T203405\_B001