

IDEAS+ Daily Report for IOP data:

19/04/2015



CRYDSAT	IDLAS' Daily Reput	<u>10/10/ dutu.</u>	04/2013
LRYUSAT		1. Overview	4 -
ment Dreduction Det	22 Apr 2015	Check	Status
port Production Date:	23-Apr-2015	Server check: science-pds.cryosat.esa.int	Nominal
Data Used: Intermediate Ocean Products (IOP)	Server check: calval-pds.cryosat.esa.int	Nominal	
Data Oseu.	L1B and L2 Science Data	Product Software Check	Nominal
		Product Format Check	Nominal
		Product Header Analysis	Nominal
		Auxiliary Data File Usage Check	Nominal Nominal
		Auxiliary Correction Error Check Measurement Confidence Data Check	See Section 4.5, 4.6, 5.4, 5.5 and 5.6
		Measurement connuclice bata check	See Section 4.5, 4.6, 5.4, 5.5 and 5.5
ion / Instrument News			
Apr-2015 None			
Apr-2015 None			
Apr-2015 Nothing planned			
		2. Global Coverage	
Global	Coverage (north pole view)	Global Cover	rage (south pole view)
	And the second s	Global Coverage	
			Mode Coverage LRM SAR

3. Instrument Configuration

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

SIRAL instrument(s) in use:

4. IOP Level 1B Data Quality Check

4.1 L1B 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). 0

Number of products with errors:

4.2 L1B Product Header Analysis

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

SIRAL - A

4.3 L1B Auxilary Data File Usage Check					
Each product is checked for missing Data Set Descriptors with repsect to a pre- Number of products with errors: 0	determined baseline and also to che	ck the validity of Auxiliary Data Files is correct.			
4.4 L1B Auxiliary Correction Error Check					
Each product is checked to detect auxiliary corrections flagged by the ground-st Number of products with errors: 0	ation processing chain as missing or	containing errors.			
4.5 L1B Measurement Confidence Data Check					
CryoSat L1B data includes a measurement confidence flag (field 12) for each m	easurement record. The bit value of	this flag indicates any problems when set.			
Number of products with errors: 2					
Product	Test Failed	Description			
CS_OFFL_SIR_IOP_1B_20150419T053108_20150419T054814_B001	Power scaling error	There has been an error in the scaling of the L1B waveform			
CS_OFFL_SIR_IOP_1B_20150419T083521_20150419T083626_B001	Power scaling error	There has been an error in the scaling of the L1B waveform			
4.6 L1B Waveform Group Data Check					
CryoSat L1B data includes a waveform data flag (field 65) for each measurement record. The bit value of this flag indicates any problems when set.					
Loss of Echo Flag: This flag is currently set for a large number of products over land, indicating that the tracking echo is missing.					
Number of products with errors: 39					
5.10	Level 2 Data Qualit	v Check			
5. IOP Level 2 Data Quality Check					
5.1 L2 Product Format Check					
Each product, retrieved and unpacked from the science server, is checked to en Number of products with errors: 0	nsure it consists of both an XML head	ler file (.HDR) and a binary product file (.DBL)			
5212 Product Hoador Analysis					
5.2 L2 Product Header Analysis					
For all products, a series of pre-defined checks are performed 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: 0					
5.3 L2 Auxiliary Data File Usage Check					
Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.					
Number of products with errors: 0					
5.4 L2 Measurement Confidence Data Check					
CryoSat L2 data includes a quality flag (field 14) for each 20-Hz measurement record. The bit value of this flag is an assessment of the measurement quality by the processing chains.					
Number of products with errors: 1					
Product	Test Failed	Description			
CS_OFFL_SIR_IOP_220150419T053108_20150419T054814_B001	Power scaling error	There has been an error in the scaling of the L1B waveform			
5.5 L2 Range Measurement Check					
Each product is checked to detect range measurements flagged by the processing chain as missing or containing errors.					
Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.					
Ice Range Averaging Status Flag: This flag is currently set for some products over land and continental ice.					
Number of products with errors: 237					
5.6 L2 SWH and Backscatter Measurement Check					
Each product is checked to detect parameters related to SWH and sigma0 that are flagged by the processing chain as missing or containing errors.					
SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.					

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for some products over land and continental ice.

Number of products with errors:

214