

IDEAS+ Daily Report for IOP data:

18/02/2015



CRYDSAT	IDEAS+ Daily Report	tor IOP data: <u>1</u>	8/02/2015
		1. Overview	ų –
		Check	Status
Report Production Date:	23-Feb-2015	Server check: science-pds.cryosat.esa.int	Nominal
D / 11 1	Intermediate Ocean Products (IOP)	Server check: calval-pds.cryosat.esa.int	Nominal
Data Used:	L1B and L2 Science Data	Product Software Check	Nominal
		Product Format Check	Nominal
		Product Header Analysis	Nominal
		Auxiliary Data File Usage Check	Nominal
		Auxiliary Correction Error Check	Nominal
		Measurement Confidence Data Check	See Section 4.5, 4.6, 5.5 and 5.6
r-Feb-2015 None			
8-Feb-2015 None			
9-Feb-2015 Nothing planned			
		2. Global Coverage	
Global	Coverage (north pole view)	Global Co	verage (south pole view)
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	<u>3. I</u>	nstrument Configuration	
SIRAL instrument configuration	on 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.

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4.3 L1B Auxilary Data File Usage Check					
Each product is checked for missing Data Set Descriptors with repsect to a pre-dete Number of products with errors: 0	ermined baseline and also to ch	neck 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-static Number of products with errors: 0	on 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 measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 1					
Product	Test Failed	Description			
CS_OFFL_SIR_IOP_1B_20150218T182006_20150218T183539_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: 52					
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 ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL) Number of products with errors: 0					
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: 0					
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: 258					
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. 223

Number of products with errors: