

IDEAS+ Daily Report for IOP data:

<u>11/09/2014</u>



CRYDSAT	IDEAS+ Daily Report		11/09/2014	
ckroshi		1. Overview		
Report Production Date:	15-Sep-2014	Check	Status	
isport i roudelloir Dale.	-	Server check: science-pds.cryosat.esa.int	Nominal	
Data Used:	Intermediate Ocean Products (IOP)	Server check: calval-pds.cryosat.esa.int	Nominal	
	L1B and L2 Science Data	Product Software Check	Nominal	
		Product Format Check	Nominal Nominal	
		Product Header Analysis Auxiliary Data File Usage Check	Nominal	
		Auxiliary Correction Error Check	Nominal	
		Measurement Confidence Data Check See Section 4.5, 4.6, 5.5 and		
sion / Instrument News				
-Sep-2014 None				
I-Sep-2014 None				
2-Sep-2014 Nothing planned				
		2 Clobal Coverage		
		2. Global Coverage		
Global	Coverage (north pole view)	Global Co	overage (south pole view)	
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		nstrument Configuration		
SIRAL instrument configurati	on for the day of acquisition is provided below.			
SIRAL instrument(s) in u	JSE: SIRAL - A			
	4. IOP I	Level 1B Data Quality Check		
1 1D Droduct Com	at Chack			
L1B Product Forma	al Uneck			

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.

4.3 L1B Auxilary Data File Usage Check						
Each product is checked for missing Data Set Desc Number of products with errors:	riptors with repsect to a pre-de	etermined 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-station processing chain as missing or containing errors.						
Number of products with errors:	0					
4.5 L1B Measurement Confidence	Data Check					
CryoSat L1B data includes a measurement confider	nce flag (field 12) for each me	asurement record. The bit value of	of this flag indicates any problems when set.			
Number of products with errors:	2					
Product		Test Failed	Description			
CS_OFFL_SIR_IOP_1B_20140911T082419_20140	0911T082459_B001	Power scaling error	There has been an error in the scaling of the L1B waveform			
CS_OFFL_SIR_IOP_1B_20140911T193610_20140	0911T193748_B001	Power scaling error	There has been an error in the scaling of the L1B waveform			
4.6 L1B Waveform Group Data Che	eck					
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: 36						
	5. IOF	Level 2 Data Quali	ity 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 D	ata 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:	188					
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. 173

Number of products with errors: