

IDEAS+ Daily Report for IOP data:

16/10/2014



CRYOSAT	IDEAST Daily Report	<u>10/10P data:</u> 10	<u>/10/2014</u>
LKIUSAI		1. Overview	ų –
eport Production Date:	20-Oct-2014	Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
Data Used:	Intermediate Ocean Products (IOP) L1B and L2 Science Data	Server check: calval-pds.cryosat.esa.int	Nominal Nominal
	LTD and L2 Science Data	Product Software Check 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
sion / Instrument News			
5-Oct-2014 None			
6-Oct-2014 None 7-Oct-2014 Nothing planned	1		
7-Oct-2014 Notifiling planned	1		
		2. Global Coverage	
<u></u>	o (
Global	Coverage (north pole view)	Global Cove	erage (south pole view)
A star		Global Coverage	
			Mode Coverage LRM SAR
e SIRAL instrument configurati	3. I ion for the day of acquisition is provided below.	nstrument Configuration	
SIRAL instrument(s) in u	use: SIRAL - A		

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.

4.3 L1B Auxilary Data File Usage Che	ck					
Each product is checked for missing Data Set Descriptor	rs with repsect to a pre-det	ermined baseline and also to ch	eck the validity of Auxiliary Data Files is correct.			
Number of products with errors:	0					
4.4 L1B Auxiliary Correction Error Check						
Each product is checked to detect auxiliary corrections fi	lagged by the ground-station	on processing chain as missing c	or containing errors.			
Number of products with errors:	0					
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: 2						
Product		Test Failed	Description			
CS_OFFL_SIR_IOP_1B_20141016T030757_20141016	T031149_B001	Power scaling error	There has been an error in the scaling of the L1B waveform			
CS_OFFL_SIR_IOP_1B_20141016T125721_20141016	T131138_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: 48						
	5. IOP	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 Data	Check					
		rd. The bit value of this flag is a	n assessment of the measurement quality by the processing chains			
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 e	errors.			
Ocean Range Averaging Status Flag: This flag is curre						
Ice Range Averaging Status Flag: This flag is currently set for some products over land and continental ice.						
Number of products with errors: 214						
5.6 L2 SWH and Backscatter Measure	ment 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. 199

Number of products with errors: