

IDEAS+ Daily Report for IOP data:

02/09/2014



CENTRE AT	IDEAS+ Daily Repo	rt for IOP data:	<u>02/09/2014</u>	DEAD
CRYDSAT		1. Overview		
Report Production Date:	04-Sep-2014	Check	Status Nominal	
	Intermediate Ocean Products (IOP)	Server check: science-pds.cryosat.esa.int 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
lission / Instrument News				
01-Sep-2014 None				
02-Sep-2014 None				
03-Sep-2014 Nothing planned	d			
ŀ				
		2. Global Coverage		
Global	Coverage (north pole view)	Global C	Coverage (south pole view)	
		Global Coverage		
			Mode Cov	erage LRM SAR
		Instrument Configuration		
ne SIRAL instrument configurat	tion for the day of acquisition is provided below			
he SIRAL instrument configurat SIRAL instrument(s) in	tion for the day of acquisition is provided below			

## 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). Number of products with errors: 0

## 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 Descriptors with repsect to a pre-det Number of products with errors: 0	termined baseline and also to chec	k 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 Number of products with errors: 0	on processing chain as missing or o	containing errors.			
4.5 L1B Measurement Confidence Data Check					
CryoSat L1B data includes a measurement confidence flag (field 12) for each me	surement record. The bit value of the	his flag indicates any problems when set.			
Product	Test Failed	Description			
CS_OFFL_SIR_IOP_1B_20140902T174302_20140902T175420_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 r	ecord. The bit value of this flag ind	icates 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: 46	,				
5. IOP	Level 2 Data Quality	/ Check			
5.1 L2 Product Format Check	,				
5.1 L2 Floudet Format Glieck					
Each product, retrieved and unpacked from the science server, is checked to ensu Number of products with errors: 0	re it consists of both an XML heade	er file (.HDR) and a binary product file (.DBL)			
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 reco	ord. The bit value of this flag is an a	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 error	ors.			
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: 177					
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. 166

Number of products with errors: