

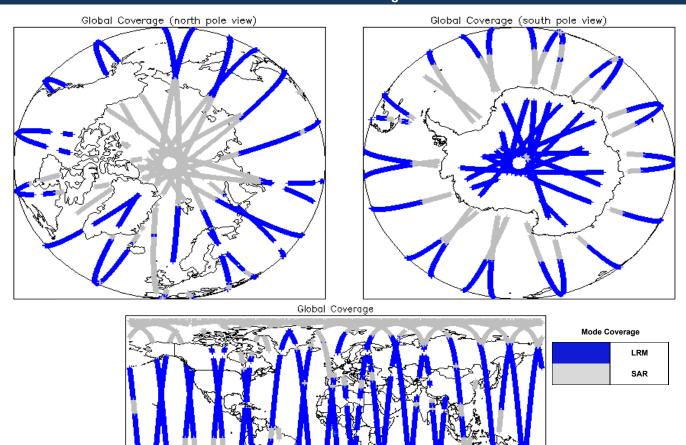
IDEAS+ Daily Report for IOP data:

<u>17/07/2014</u>



Report Production Date:	21-Jul-2014	Check	Status		
		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		
		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		
ission / Instrument News					
16-Jul-2014 None	None				
17-Jul-2014 None	None				
18-Jul-2014 SIRAL unavailab	SIRAL unavailability on 18-July-2014 from 11:47:08 to 12:44:29 due to a planned orbit manoeuvre.				

2. Global Coverage



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).

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-det Number of products with errors: 0	termined baseline and also to c	heck 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 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_20140717T222329_20140717T222508_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: 34					
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: 185					
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. 158

Number of products with errors: