

IDEAS Daily Report for IOP data:

<u>15/05/2014</u>

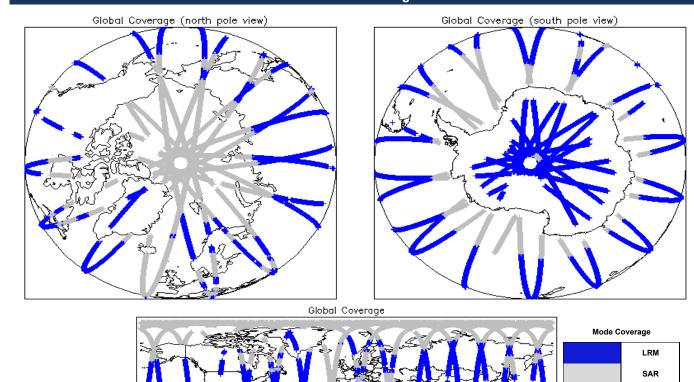


an art Draduation Data	20-May-2014	Check	Status
Report Production Date:		Server check: science-pds.cryosat.esa.int	Nominal
Data Used:	Intermediate Ocean Products (IOP)	Server check: calval-pds.cryosat.esa.int	Nominal
	L1B and L2 Science Data	Product Software Check	Nominal
		Product Format Check	Nominal
		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

Mission / Instrument News				
14-May-2014	None			
15-May-2014	None			
16 May 2014	SIDAL unavailability on 16 May 2014 from 09:06:14 to 10:02:22 due to a planned arbit manageura			

16-May-2014 SIRAL unavailability on 16-May-2014 from 08:06:14 to 10:03:32 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.

Number of products with errors:

0

SIRAL - A

4.3 L1B Auxilary Data File Usage Check								
Each product is checked for missing Data Set Descriptors wit	th repsect to a pre-dete	ermined baseline and also to cl	heck 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 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 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_20140515T011519_20140515T011	708_B001	Power scaling error	There has been an error in the scaling of the L1B wa	veform				
CS_OFFL_SIR_IOP_1B_20140515T231521_20140515T232	e645_B001	Power scaling error	There has been an error in the scaling of the L1B wa	veform				
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 numb	ber of products over la	nd, indicating that the tracking	echo is missing.					
Number of products with errors: 39								
	5. IOP	Level 2 Data Qual	lity Check					
5.1 L2 Product Format Check								
	ar is checked to onsur	a it consists of both an XML be	order file (HDP) and a bigan product file (DPI)					
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 Ch	eck							
CryoSat L2 data includes a quality flag (field 14) for each 20-h	Hz measurement reco	rd. The bit value of this flag is a	an assessment of the measurement quality by the processing cha	ins.				
Number of products with errors: 0								
5.5 L2 Range Measurement Check								
Each product is checked to detect range measurements flagg	ged by the processing	chain as missing or containing	errors.					
Ocean Range Averaging Status Flag: This flag is currently	set for products over I	and and sea ice, but this is to b	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: 221								
5.6 L2 SWH and Backscatter Measuremen	nt 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 pro-	oducts over land and s	sea ice, but this is to be expect	ted.					
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. 196

Number of products with errors: