

IDEAS+ Daily Report for IOP data:

<u>14/10/2016</u>



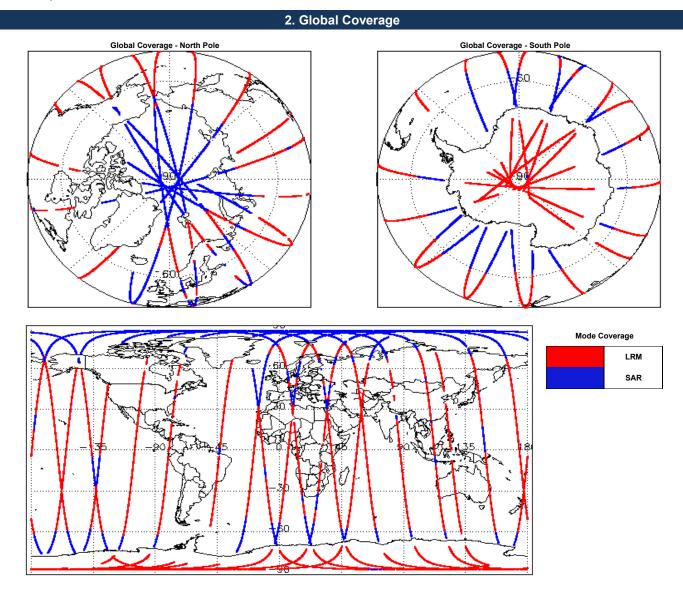
1. Overview						
Demont Develoption Deter	20-Oct-2016	Check	Status			
Report Production Date:		Server check: science-pds.cryosat.esa.int	Nominal			
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal			
		Product Software Check	Nominal			
Data Used:	Intermediate Ocean Products (IOP) L1B and L2 Science Data	Product Format Check	Nominal			
Data Oseu.		Product Header Analysis	Nominal			
		Auxiliary Data File Usage Check	Nominal			
		Auxiliary Correction Error Check	See Section 5.4			
		Measurement Confidence Data Check	See Section 4.6, 5.6, 5.7 and 5.8			

Mission / Instrument News

 13-Oct-2016
 IOP data missing from 0000 - 1200 due to missing Auxiliary files at the time of processing

 14-Oct-2016
 L0 data missing on 14-Oct-2016 from 09:03:11 to 15:44:16; and from 23:05:24 to 00:07:11 (SAR & SARIn only) due to an unplanned ground segment anomaly

 15-Oct-2016
 Nothing planned



3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use:

SIRAL - A

0

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.

4.3 L1B Auxilary 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						
.4 L1B Auxiliary Correction Error Check						
CryoSat L1B data includes a correction error flag (field 60) for each measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 0						
						.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: 0						
I.6 L1B Waveform Group Data Check						
cryoSat L1B data includes a waveform data flag (field 65) for each measurem	-	ny problems when set.				
oss of Echo Flag: This flag is currently set for products over land, but this is umber of products with errors: 7	to be expected.					
roduct	Test Failed	Description				
oduct S_OFFL_SIR_IOP_1B_20161014T022834_20161014T023618_B001	Loss of Echo	The tracking echo is missing for one or more records				
S_OFFL_SIR_IOP_1B_20161014T041114_20161014T041648_B001	Loss of Echo	The tracking echo is missing for one or more records				
S_OFFL_SIR_IOP_1B_20161014T054750_20161014T054928_B001	Loss of Echo	The tracking echo is missing for one or more records				
S_OFFL_SIR_IOP_1B_20161014T082737_20161014T083149_B001	Loss of Echo	The tracking echo is missing for one or more records				
S_OFFL_SIR_IOP_1B_20161014T182545_20161014T190011_B001	Loss of Echo	The tracking echo is missing for one or more records				
S_OFFL_SIR_IOP_1B_20161014T214347_20161014T220028_B001	Loss of Echo	The tracking echo is missing for one or more records				
S_OFFL_SIR_IOP_1B_20161014T220509_20161014T221803_B001	Loss of Echo	The tracking echo is missing for one or more records				
5. <mark>IC</mark>	P Level 2 Data Quality Che	eck				
.1 L2 Product Format Check						
5.1 L2 Product Format Check						
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	ensure it consists of both an XML header file (.h	IDR) and a binary product file (.DBL).				
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5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag (field 14) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set. 0 Number of products with errors:

5.6 L2 Range Measurement Check

CryoSat L2 data includes an Ocean (field 25) and Ice (field 30) Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

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 products over land, but this is to be expected. 17

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220161014T000342_20161014T000609_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T000636_20161014T001101_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T005256_20161014T005706_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T014125_20161014T015014_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T032050_20161014T032232_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T032337_20161014T032804_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T050252_20161014T050842_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T064158_20161014T064713_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T082035_20161014T082159_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T082206_20161014T082614_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T163236_20161014T163735_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T163743_20161014T164111_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T181234_20161014T181807_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T195154_20161014T195702_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T213408_20161014T213606_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T231314_20161014T231516_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T231619_20161014T232018_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

5.7 L2 SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH Averaging Status flag (field 49) and an Ocean (field 55) and Ice (field 61) Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

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 products over land, but this is to be expected. 14

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220161014T000342_20161014T000609_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T000636_20161014T001101_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T014125_20161014T015014_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T032050_20161014T032232_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T032337_20161014T032804_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T082035_20161014T082159_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T082206_20161014T082614_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T163236_20161014T163735_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T163743_20161014T164111_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T181234_20161014T181807_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T195154_20161014T195702_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T213408_20161014T213606_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T231314_20161014T231516_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220161014T231619_20161014T232018_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. Number of products with errors: 104