

## IDEAS+ Daily Report for IOP data:

## <u>18/02/2016</u>

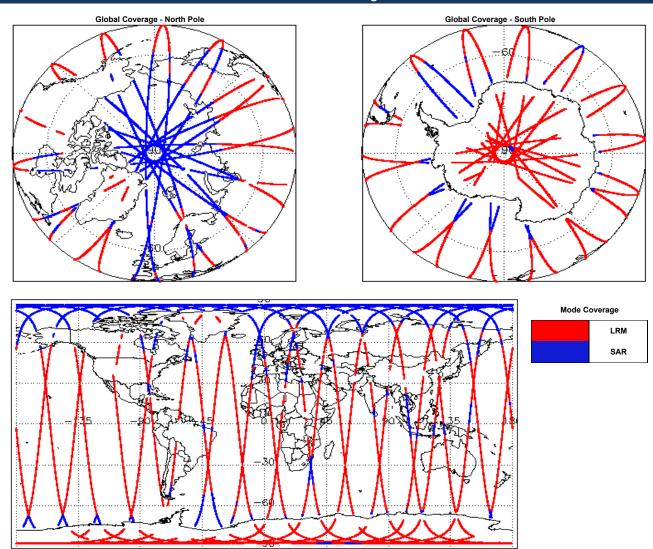


	Chack	Status
22-Feb-2016	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used: CrvoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal
OSat Ocean Processor	Product Software Check	Nominal
Data Used: Intermediate Ocean Products (IOP) L1B and L2 Science Data	Product Format Check	Nominal
	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
	voSat Ocean Processor ediate Ocean Products (IOP)	Server check:         science-pds.cryosat.esa.int           voSat Ocean Processor         Server check:         calval-pds.cryosat.esa.int           ediate Ocean Products (IOP)         Product Format Check         Product Format Check           B and L2 Science Data         Product Header Analysis         Auxiliary Data File Usage Check

# Mission / Instrument News 17-Feb-2016 None 18-Feb-2016 None

19-Feb-2016 SIRAL unavailability on 19-Feb-2016 from 04:56:06 to 06:05:00 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:

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).

# 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.

0

Each product is checked for missing Data Set Descriptors with respect to a pr	e-determined baseline and also to check the va	lidity of Auxiliary Data Files is correct.
lumber of products with errors: 0		
.4 L1B Auxiliary Correction Error Check		
ryoSat L1B data includes a correction error flag (field 60) for each measuren	nent record. The bit value of this flag indicates a	iny problems when set.
umber of products with errors: 0		
.5 L1B Measurement Confidence Data Check		
ryoSat L1B data includes a measurement confidence flag (field 12) for each umber of products with errors: 0	measurement record. The bit value of this flag i	ndicates any problems when set.
.6 L1B Waveform Group Data Check		
ryoSat L1B data includes a waveform data flag (field 65) for each measurem	nent record. The bit value of this flag indicates a	ny problems when set.
oss of Echo Flag: This flag is currently set for products over land, but this is	s to be expected.	
umber of products with errors: 10		
oduct	Test Failed	Description
S_OFFL_SIR_IOP_1B_20160218T010057_20160218T011214_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20160218T013200_20160218T013220_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20160218T114328_20160218T114614_B001 S_OFFL_SIR_IOP_1B_20160218T121229_20160218T121332_B001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_201602181121229_201602181121332_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20160218T162447_20160218T163535_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20160218T182005_20160218T185446_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20160218T193905_20160218T194459_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20160218T215655_20160218T221213_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20160218T233546_20160218T235112_B001	Loss of Echo	The tracking echo is missing for one or more records
5. <mark>I</mark> (	<b>DP</b> Level 2 Data Quality Che	eck
ach product, retrieved and unpacked from the science server, is checked to	ensure it consists of both an XML header file (.H	IDR) and a binary product file (.DBL).
lumber of products with errors: 0		
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2 L2 Product Header Analysis	d SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH an	d SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
.2 L2 Product Header Analysis         or all products, a series of pre-defined checks are performed on the MPH an umber of products with errors:         0	d SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
2.2 L2 Product Header Analysis         or all products, a series of pre-defined checks are performed on the MPH an         umber of products with errors:       0         3.3 L2 Auxiliary Data File Usage Check		
2 L2 Product Header Analysis     or all products, a series of pre-defined checks are performed on the MPH an     umber of products with errors:         0     3 L2 Auxiliary Data File Usage Check     ach product is checked for missing Data Set Descriptors with respect to a pr		
2 L2 Product Header Analysis     or all products, a series of pre-defined checks are performed on the MPH an     umber of products with errors:         0     3 L2 Auxiliary Data File Usage Check     ach product is checked for missing Data Set Descriptors with respect to a pr     find Model File Usage: This file is currently not included in all L2 products.		
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.2 L2 Product Header Analysis         or all products, a series of pre-defined checks are performed on the MPH an umber of products with errors:         0         .3 L2 Auxiliary Data File Usage Check         ach product is checked for missing Data Set Descriptors with respect to a pr         find Model File Usage: This file is currently not included in all L2 products.         umber of products with errors:       0         .4 L2 Auxiliary Correction Error Check         or all products, the auxiliary corrections within the Geophysical Group are ch         urrently, there are two common auxiliary correction errors raised in the	e-determined baseline and also to check the va ecked for the default error value (32767). e Level 2 products which are expected due to	lidity of Auxiliary Data Files is correct.
.2 L2 Product Header Analysis         or all products, a series of pre-defined checks are performed on the MPH an umber of products with errors:         0         .3 L2 Auxiliary Data File Usage Check         ach product is checked for missing Data Set Descriptors with respect to a pr         find Model File Usage: This file is currently not included in all L2 products.         umber of products with errors:       0         .4 L2 Auxiliary Correction Error Check         or all products, the auxiliary corrections within the Geophysical Group are ch         urrently, there are two common auxiliary correction errors raised in the illowed by a table highlighting any additional issues which may arise for	e-determined baseline and also to check the va ecked for the default error value (32767). e Level 2 products which are expected due to om this test.	lidity of Auxiliary Data Files is correct.
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Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide more records CS\_OFFL\_SIR\_IOP\_2\_\_20160218T224241\_20160218T224423\_B001

CS\_OFFL\_SIR\_IOP\_2\_20160218T154859\_20160218T161625\_B001

more records Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide more records more records

CS_OFFL_SIR_IOP_220160218T232403_20160218T233343_B001	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220160218T233343_20160218T233545_B001	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records

### 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.

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. 34

0

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220160218T004905_20160218T004917_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160218T004938_20160218T005041_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T022436_20160218T022815_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160218T022836_20160218T023140_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T040218_20160218T040728_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T040735_20160218T041103_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T054217_20160218T054802_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T054826_20160218T055003_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T072144_20160218T072655_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T090341_20160218T090557_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T104308_20160218T104505_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T104638_20160218T105007_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T113704_20160218T113845_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T122131_20160218T122429_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T122436_20160218T122908_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T135940_20160218T140807_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T153905_20160218T154028_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T154152_20160218T154608_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T172103_20160218T172647_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T180646_20160218T180748_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T190007_20160218T190519_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T203806_20160218T204007_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T204007_20160218T204013_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T204013_20160218T204428_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T212536_20160218T212645_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T221345_20160218T221905_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T221906_20160218T221911_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T221911_20160218T221918_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T221918_20160218T221924_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T221924_20160218T222134_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T235310_20160218T235805_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T235809_20160218T235816_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T235823_20160218T235834_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T235840_20160218T235958_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

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. 27

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220160218T004938_20160218T005041_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T022436_20160218T022815_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T022836_20160218T023140_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T040218_20160218T040728_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T040735_20160218T041103_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T054217_20160218T054802_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T054826_20160218T055003_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T072144_20160218T072655_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T090341_20160218T090557_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T104308_20160218T104505_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T104638_20160218T105007_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T122131_20160218T122429_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T122436_20160218T122908_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T135940_20160218T140807_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T153905_20160218T154028_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T154152_20160218T154608_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T172103_20160218T172647_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T180646_20160218T180748_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T190007_20160218T190519_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T203806_20160218T204007_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T204007_20160218T204013_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T204013_20160218T204428_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T212536_20160218T212645_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T221345_20160218T221905_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T221911_20160218T221918_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T221924_20160218T222134_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160218T235823_20160218T235834_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.

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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: