

IDEAS+ Daily Report for NOP data:

<u>02/06/2019</u>



		1. Overview	
Demonstration of the	07 1 0010	Check	L1 & L2
Report Production:	07-Jun-2019	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal
	Near Real Time Ocean Products (NOP)	Product Software Check Product Format Check	Nominal Nominal
Data Used:	L1B & L2 Science Data	Product Header Analysis	See Sections 4.2 and 5.2
		Auxiliary Data File Usage Check	Nominal
		Auxiliary Correction Error Check	See Section 5.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5
		Measurement Quality Flag Check Ocean Retracking Quality Check	See Section 5.6 See Section 5.7
Mission / Instrument N	ews		
01-Jun-2019 None			
02-Jun-2019 None			
03-Jun-2019 Nothing	g planned		
		2. Global Coverage	
		2. Clobal Colorago	

3. Instrument Configuration

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

SIRAL instrument(s) in use:

s) in use: SIRAL - A

0

4. NOP 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

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.

Dynamic Atmospheric Correction: The DAC is missing in all products because the auxiliary files required are not available in time for processing. This known and expected behaviour.

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set.

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4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.

> Attitude Correction Missing: This flag is currently set in error for NOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

 Number of products with errors:
 1

Product Test Failed Description CS_OFFL_SIR_NOPM1B_20190602T032827_20190602T033322_C001 Power scaling error There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag 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 products over land, but this is to be expected.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190602T113336_20190602T114638_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190602T183956_20190602T184025_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190602T002430_20190602T002539_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190602T024634_20190602T024823_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190602T033723_20190602T033740_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190602T133004_20190602T133433_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190602T184751_20190602T184911_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190602T184918_20190602T184958_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190602T064353_20190602T064429_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190602T111154_20190602T111833_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190602T174916_20190602T175143_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190602T215719_20190602T215901_C001	Loss of Echo	The tracking echo is missing for one or more records

5. NOP 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:

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:

5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

Currently, there are some common auxiliary correction errors 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.

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update.

> Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.

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> Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.

> Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190602T002540_20190602T002652_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190602T010952_20190602T011749_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190602T024824_20190602T025033_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190602T025057_20190602T025637_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190602T035606_20190602T040731_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPM_2_20190602T042745_20190602T042855_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records

CS_OFFL_SIR_NOPM_2_20190602T043032_20190602T043506_C001 CS_OFFL_SIR_NOPM_2_20190602T043616_20190602T043626_C001 CS_OFFL_SIR_NOPM_2_20190602T060942_20190602T061516_C001 CS_OFFL_SIR_NOPM_2_20190602T074845_20190602T075358_C001 CS OFFL SIR NOPM 2 20190602T092535 20190602T092844 C001 CS_OFFL_SIR_NOPM_2_20190602T092851_20190602T092858_C001 CS OFFL SIR NOPM 2 20190602T092902 20190602T093300 C001 CS OFFL SIR NOPM 2 20190602T101257 20190602T101528 C001 CS_OFFL_SIR_NOPM_2_20190602T110224_20190602T110743_C001 CS_OFFL_SIR_NOPM_2_20190602T110749_20190602T110756_C001 CS OFFL SIR NOPM 2 20190602T110802 20190602T111002 C001 CS_OFFL_SIR_NOPM_2_20190602T121254_20190602T122321_C001 CS OFFL SIR NOPM 2 20190602T124149 20190602T124654 C001 CS_OFFL_SIR_NOPM_2_20190602T124700_20190602T124711_C001 CS_OFFL_SIR_NOPM_2_20190602T124718_20190602T124833_C001 CS_OFFL_SIR_NOPM_2_20190602T142154_20190602T142610_C001 CS OFFL SIR NOPM 2 20190602T142617 20190602T142625 C001 CS_OFFL_SIR_NOPM_2_20190602T142632_20190602T142816_C001 CS OFFL SIR NOPM_2_20190602T160001_20190602T160524_C001 CS_OFFL_SIR_NOPM_2_20190602T160531_20190602T160855_C001 CS_OFFL_SIR_NOPM_2_20190602T173953_20190602T174802_C001 CS OFFL SIR NOPM 2 20190602T191931 20190602T192450 C001 CS_OFFL_SIR_NOPM_2_20190602T210041_20190602T210350_C001 CS OFFL SIR NOPM 2 20190602T224103 20190602T224256 C001 CS OFFL SIR NOPM 2 20190602T224533 20190602T224739 C001 CS OFFL SIR NOPM 2 20190602T233456 20190602T233904 C001 CS_OFFL_SIR_NOPN_2_20190602T002430_20190602T002539_C001 CS_OFFL_SIR_NOPN_2_20190602T002652_20190602T002832_C001 CS OFFL SIR NOPN 2 20190602T010634 20190602T010952 C001 CS_OFFL_SIR_NOPN_2_20190602T011750_20190602T011937_C001 CS_OFFL_SIR_NOPN_2_20190602T020348_20190602T020609_C001 CS_OFFL_SIR_NOPN_2_20190602T024634_20190602T024823_C001 CS OFFL SIR NOPN 2 20190602T025034 20190602T025057 C001 CS OFFL SIR NOPN 2 20190602T025637 20190602T025900 C001 CS OFFL SIR NOPN 2 20190602T034356 20190602T034808 C001

CS OFFL SIR NOPN 2 20190602T042604 20190602T042745 C001 CS OFFL SIR NOPN 2 20190602T042855 20190602T043032 C001 CS_OFFL_SIR_NOPN_2_20190602T043507_20190602T043616_C001 CS_OFFL_SIR_NOPN_2_20190602T043626_20190602T043749_C001 CS_OFFL_SIR_NOPN_2_20190602T052554_20190602T053018_C001 CS OFFL SIR NOPN 2 20190602T060608 20190602T060942 C001 CS OFFL SIR NOPN 2 20190602T061517 20190602T061632 C001 CS_OFFL_SIR_NOPN_2_20190602T074525_20190602T074845_C001 CS_OFFL_SIR_NOPN_2_20190602T075359_20190602T075523_C001 CS_OFFL_SIR_NOPN_2_20190602T083610_20190602T083727_C001 CS OFFL SIR NOPN 2 20190602T092237 20190602T092534 C001 CS_OFFL_SIR_NOPN_2_20190602T093301_20190602T093409_C001

ECMWF Meteo Corrections Mean Dynamic Topography (1) ECMWF Meteo Corrections ECMWE Meteo Corrections ECMWF Meteo Corrections ECMWF Meteo Corrections ECMWF Meteo Corrections, Mean Sea Surface (1), Mean Dynamic Topography (1)ECMWF Meteo Corrections ECMWF Meteo Corrections ECMWF Meteo Corrections ECMWF Meteo Corrections, Mean Sea Surface (1), Mean Dynamic Topography (1)ECMWF Meteo Corrections. Mean Dynamic Topography (1) **ECMWF Meteo Corrections** ECMWF Meteo Corrections. Mean Sea Surface (1), Mean Dynamic Topography (1) ECMWF Meteo Corrections, Inverse Barometric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide ECMWF Meteo Corrections ECMWF Meteo Corrections ECMWF Meteo Corrections ECMWF Meteo Corrections Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT) ECMWF Meteo Corrections, Mean Sea Surface (1), Mean Dynamic Topography (1) ECMWF Meteo Corrections ECMWF Meteo Corrections. Mean Sea Surface (1), Mean Dynamic Topography (1) ECMWF Meteo Corrections, Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) ECMWF Meteo Corrections ECMWF Meteo Corrections, Mean Dynamic Topography (1) Surface Height (solution 1) for one or more records

There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more ecords There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections, the Mean Sea Surface Height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more ecords There is an error with the ECMWF Meteo Corrections, the Mean Sea Surface Height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records There is an error with the ECMWF Meteo Corrections and the Mean Sea Surface Height (solution 1) for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections, the Mean Sea Surface Height (solution 1) and the Mean Dynamic Topography (solution 1) or one or more records There is an error with the ECMWF Meteo Corrections, the Mean Sea Surface Height (solution 1) and the Mean Dynamic Topography (solution 1) and some tidal corections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the Mean Sea Surface (solution 1) and the Total Geocentric Ocean Tide (GOT) height for one or more records There is an error with the ECMWF Meteo Corrections, the Mean Sea Surface Height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records There is an error with the ECMWF Meteo Corrections for one or more ecords There is an error with the ECMWF Meteo Corrections, the Mean Sea Surface Height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records There is an error with the ECMWF Meteo Corrections and the Mean Sea Surface Height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 2) There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the ECMWF Meteo Corrections and the Mean Sea

CS_OFFL_SIR_NOPN_2_20190602T101528_20190602T101540_C001
CS_OFFL_SIR_NOPN_2_20190602T110044_20190602T110224_C001
CS_OFFL_SIR_NOPN_2_20190602T111003_20190602T111154_C001
CS_OFFL_SIR_NOPN_2_20190602T115328_20190602T115552_C001
CS_OFFL_SIR_NOPN_2_20190602T124712_20190602T124718_C001
CS_OFFL_SIR_NOPN_2_20190602T133004_20190602T133433_C001
CS_OFFL_SIR_NOPN_2_20190602T141905_20190602T142039_C001
CS_OFFL_SIR_NOPN_2_20190602T142039_20190602T142153_C001
CS_OFFL_SIR_NOPN_2_20190602T142611_20190602T142616_C001
CS_OFFL_SIR_NOPN_2_20190602T142626_20190602T142631_C001
CS_OFFL_SIR_NOPN_2_20190602T142817_20190602T143121_C001
CS_OFFL_SIR_NOPN_2_20190602T150910_20190602T151255_C001

CS_OFFL_SIR_NOPN_2_20190602T160524_20190602T160530_C001 CS_OFFL_SIR_NOPN_2_20190602T160856_20190602T161014_C001 CS_OFFL_SIR_NOPN_2_20190602T165903_20190602T170034_C001 CS_OFFL_SIR_NOPN_2_20190602T173830_20190602T173953_C001 CS_OFFL_SIR_NOPN_2_20190602T174803_20190602T174915_C001 CS_OFFL_SIR_NOPN_2_20190602T191806_20190602T191931_C001 CS_OFFL_SIR_NOPN_2_20190602T192451_20190602T192757_C001 CS_OFFL_SIR_NOPN_2_20190602T205750_20190602T210041_C001 CS_OFFL_SIR_NOPN_2_20190602T210351_20190602T210611_C001 CS_OFFL_SIR_NOPN_2_20190602T223828_20190602T224102_C001 CS_OFFL_SIR_NOPN_2_20190602T224257_20190602T224533_C001 CS_OFFL_SIR_NOPN_2_20190602T224739_20190602T224921_C001 CS_OFFL_SIR_NOPN_2_20190602T233336_20190602T233455_C001 CS_OFFL_SIR_NOPN_2_20190602T233905_20190602T234020_C001 CS_OFFL_SIR_NOPR_2_20190602T001754_20190602T002029_C001 CS_OFFL_SIR_NOPR_2_20190602T033910_20190602T034355_C001 CS_OFFL_SIR_NOPR_2_20190602T051551_20190602T052553_C001 CS_OFFL_SIR_NOPR_2_20190602T065655_20190602T070450_C001 CS_OFFL_SIR_NOPR_2_20190602T083727_20190602T084517_C001 CS_OFFL_SIR_NOPR_2_20190602T092845_20190602T092851_C001 CS_OFFL_SIR_NOPR_2_20190602T092859_20190602T092902_C001 CS_OFFL_SIR_NOPR_2_20190602T101639_20190602T102352_C001 CS_OFFL_SIR_NOPR_2_20190602T110743_20190602T110749_C001 CS_OFFL_SIR_NOPR_2_20190602T110756_20190602T110802_C001 CS_OFFL_SIR_NOPR_2_20190602T113122_20190602T113333_C001 CS_OFFL_SIR_NOPR_2_20190602T115553_20190602T120302_C001 CS_OFFL_SIR_NOPR_2_20190602T124654_20190602T124700_C001 CS_OFFL_SIR_NOPR_2_20190602T133433_20190602T134033_C001 CS_OFFL_SIR_NOPR_2_20190602T134041_20190602T134146_C001

FCN/W/F Mater Corrections	There is an error with the ECMWF Meteo Corrections for one or more
ECMWF Meteo Corrections ECMWF Meteo Corrections, Mean	records There is an error with the ECMWF Meteo Corrections and the Mean Sea
Dynamic Topography (1)	Surface Height (solution 1) for one or more records
ECMWF Meteo Corrections, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the ECMWF Meteo Corrections, the Mean Sea Surface Height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records
ECMWF Meteo Corrections, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the ECMWF Meteo Corrections, the Mean Sea Surface Height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records
ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
ECMWF Meteo Corrections, Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the ECMWF Meteo Corrections, the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (GOT) height for one or more records
ECMWF Meteo Corrections, Mean Dynamic Topography (1)	There is an error with the ECMWF Meteo Corrections and the Mean Sea Surface Height (solution 1) for one or more records
ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
ECMWF Meteo Corrections, Inverse	
Barometric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	There is an error with the ECMWF Meteo Corrections, the Mean Sea Surface Height (solution 1) and the Mean Dynamic Topography (solution 1) and some tidal corections for one or more records
ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
ECMWF Meteo Corrections, Mean Sea	There is an error with the ECMWF Meteo Corrections, the Mean Sea
Surface (1), Mean Dynamic Topography (1)	Surface Height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records
ECMWF Meteo Corrections, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the ECMWF Meteo Corrections, the Mean Sea Surface Height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records
ECMWF Meteo Corrections, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the ECMWF Meteo Corrections, the Mean Sea Surface Height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records
ECMWF Meteo Corrections, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the ECMWF Meteo Corrections, the Mean Sea Surface Height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records
ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
ECMWF Meteo Corrections, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the ECMWF Meteo Corrections, the Mean Sea Surface Height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records
ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
Topography (1) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 2) There is an error with the MSS height (solution 1) and the Mean Dynamic
Topography (1) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 2) There is an error with the MSS height (solution 1) and the Mean Dynamic
Topography (1) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 2) There is an error with the MSS height (solution 1) and the Mean Dynamic
Topography (1)	Topography height (solution 2) There is an error with the ECMWF Meteo Corrections for one or more
ECMWF Meteo Corrections	records There is an error with the ECMWF Meteo Corrections for one or more
ECMWF Meteo Corrections Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
Topography (1)	Topography height (solution 2) There is an error with the ECMVF Meteo Corrections for one or more
ECMWF Meteo Corrections	records
ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography height and the Total Geocentric Ocean Tide (GOT) for one or more records
Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 2)
ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 2)
Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography height and the Total Geocentric Ocean Tide (GOT) for one or more records
/	

5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

1

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

CryoSat L2 data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

> Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags: These flags are currently set for some records over ocean.

> OCOG Altimeter Range and Backscatter Quality Flags: These flags are currently set for some records over continental ice.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190601T235808_20190602T000731_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T002540_20190602T002652_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T003359_20190602T004650_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T010239_20190602T010556_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T010952_20190602T011749_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T012025_20190602T013512_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T022211_20190602T024519_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T025057_20190602T025637_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T030010_20190602T032431_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T035606_20190602T040731_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T041307_20190602T042404_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T043032_20190602T043506_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T051513_20190602T051551_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T053018_20190602T060256_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T060942_20190602T061516_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T061736_20190602T062303_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T070910_20190602T074231_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T074845_20190602T075358_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T075700_20190602T081542_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T084724_20190602T092054_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T092902_20190602T093300_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T093717_20190602T100403_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T100419_20190602T101121_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T101257_20190602T101528_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T102731_20190602T103820_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T104301_20190602T104452_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T104455_20190602T110028_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T110224_20190602T110743_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T111833_20190602T113121_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T113335_20190602T114638_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T114808_20190602T115022_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPM_2_20190602T121254_20190602T122321_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality,	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T122500_20190602T123913_C001	Ocean Backscatter Quality Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T124149_20190602T124654_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T124700_20190602T124711_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T124718_20190602T124833_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T125526_20190602T125623_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T130502_20190602T130711_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T131249_20190602T131713_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T131835_20190602T132537_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T135715_20190602T135933_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T140135_20190602T141800_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T142154_20190602T142610_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T143248_20190602T145710_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T153254_20190602T155752_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T160001_20190602T160524_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T161226_20190602T162325_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T162902_20190602T164423_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T170753_20190602T173108_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T173143_20190602T173733_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T173953_20190602T174802_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T175143_20190602T182531_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T183844_20190602T183941_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T190350_20190602T190811_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T190902_20190602T191621_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T191931_20190602T192450_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T193128_20190602T195302_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T195548_20190602T200459_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T201702_20190602T202120_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T203709_20190602T204152_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T204340_20190602T205454_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T211047_20190602T211547_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T211550_20190602T214351_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T215902_20190602T215924_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T220008_20190602T220706_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190602T220724_20190602T223127_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPM_2_20190602T224959_20190602T230619_C001 SSHA Quality, Ocean SWH Quality, Ocean SWH Quality, have been set for one or more records.	and Backscatter Quality Flags
CS_OFFL_SIR_NOPM_2_20190602T230857_20190602T231848_C001 Ocean Altimeter Range Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean Altimeter Range, SSHA, SWH a have been set for one or more records.	and Backscatter Quality Flags
CS_OFFL_SIR_NOPM_2_20190602T233456_20190602T233904_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Backscatter Quality for one or more records.	er Quality Flags have been set
CS_OFFL_SIR_NOPM_2_20190602T234027_20190602T235600_C001 Ocean Altimeter Range Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean Backscatter Quality Ocean Backscatter Quality Ocean Altimeter Range, SSHA, SWH a	and Backscatter Quality Flags
CS_OFFL_SIR_NOPN_2_20190602T020348_20190602T020609_C001 Ocean Altimeter Range Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean Backscatter Quality we been set for one or more records.	and Backscatter Quality Flags
CS_OFFL_SIR_NOPN_2_20190602T164424_20190602T164947_C001 Ocean Altimeter Range Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean Backscatter Quality Ocean Backscatter Quality Ocean Altimeter Range, SSHA, SWH a have been set for one or more records.	and Backscatter Quality Flags
CS_OFFL_SIR_NOPN_2_20190602T182746_20190602T182918_C001 Ocean Altimeter Range Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean Backscatter Quality we been set for one or more records.	and Backscatter Quality Flags
CS_OFFL_SIR_NOPR_2_20190602T024520_20190602T024634_C001 Ocean Altimeter Range Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean Backscatter Quality Ocean Backscatter Quality	and Backscatter Quality Flags
CS_OFFL_SIR_NOPR_2_20190602T033740_20190602T033836_C001 Ocean Altimeter Range Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean Backscatter Quality	and Backscatter Quality Flags
CS_OFFL_SIR_NOPR_2_20190602T051551_20190602T052553_C001 Ocean Altimeter Range Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean Backscatter Quality we been set for one or more records.	and Backscatter Quality Flags
CS_OFFL_SIR_NOPR_2_20190602T075523_20190602T075700_C001 Ocean Altimeter Range Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean Backscatter Quality we been set for one or more records.	and Backscatter Quality Flags
CS_OFFL_SIR_NOPR_2_20190602T132709_20190602T132922_C001 Ocean Altimeter Range Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean Backscatter Quality Ocean Backscatter Quality Description of the open set for one or more records.	and Backscatter Quality Flags
CS_OFFL_SIR_NOPR_2_20190602T135933_20190602T140135_C001 Ocean Altimeter Range Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean Backscatter Quality Ocean Backscatter Quality	and Backscatter Quality Flags
CS_OFFL_SIR_NOPR_2_20190602T174916_20190602T175143_C001 Ocean Altimeter Range Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean Backscatter Quality	and Backscatter Quality Flags
CS_OFFL_SIR_NOPR_2_20190602T201645_20190602T201702_C001 Ocean Altimeter Range Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean Backscatter Quality	and Backscatter Quality Flags
CS_OFFL_SIR_NOPR_2_20190602T220707_20190602T220724_C001 Ocean Altimeter Range Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean Backscatter Quality	and Backscatter Quality Flags
CS_OFFL_SIR_NOPR_2_20190602T224922_20190602T224959_C001 Ocean Altimeter Range Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean Backscatter Quality Ocean Backscatter Quality Ocean Altimeter Range, SSHA, SWH a have been set for one or more records.	and Backscatter Quality Flags

L2 Quality Flags (20Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

> Ocean Altimeter Range, SSHA, SWH and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over sea ice.

> OCOG Altimeter Range and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over continental ice.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20190602T000731_20190602T001024_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190602T002430_20190602T002539_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190602T024634_20190602T024823_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190602T025637_20190602T025900_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190602T060608_20190602T060942_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190602T074525_20190602T074845_C001	Ocean Aumeter Range Quanty PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality Ocean Backscatter	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190602T092237_20190602T092534_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190602T093301_20190602T093409_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Autimeter Range Quality PLRM,	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190602T111003_20190602T111154_C001	OCGA Altimeter Range Quality PLRM, OCGA Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality Ocean Backscatter	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190602T115328_20190602T115552_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190602T120920_20190602T121254_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190602T132547_20190602T132709_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190602T141905_20190602T142039_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190602T142817_20190602T143121_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190602T150910_20190602T151255_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPN_2_20190602T160856_20190602T161014_C001
CS_OFFL_SIR_NOPN_2_20190602T164424_20190602T164947_C001
CS_OFFL_SIR_NOPN_2_20190602T165903_20190602T170034_C001
CS_OFFL_SIR_NOPN_2_20190602T174803_20190602T174915_C001
CS_OFFL_SIR_NOPN_2_20190602T183942_20190602T183956_C001
CS_OFFL_SIR_NOPN_2_20190602T184751_20190602T184911_C001
CS_OFFL_SIR_NOPN_2_20190602T191806_20190602T191931_C001
CS_OFFL_SIR_NOPN_2_20190602T205750_20190602T210041_C001
CS_OFFL_SIR_NOPN_2_20190602T223828_20190602T224102_C001
CS_OFFL_SIR_NOPN_2_20190602T224257_20190602T224533_C001
CS_OFFL_SIR_NOPR_2_20190602T001754_20190602T002029_C001
CS_OFFL_SIR_NOPR_2_20190602T033504_20190602T033722_C001
CS_OFFL_SIR_NOPR_2_20190602T033910_20190602T034355_C001
CS_OFFL_SIR_NOPR_2_20190602T042405_20190602T042604_C001
CS_OFFL_SIR_NOPR_2_20190602T051551_20190602T052553_C001
CS_OFFL_SIR_NOPR_2_20190602T060257_20190602T060607_C001
CS_OFFL_SIR_NOPR_2_20190602T065655_20190602T070450_C001
CS_OFFL_SIR_NOPR_2_20190602T074232_20190602T074525_C001
CS_OFFL_SIR_NOPR_2_20190602T075523_20190602T075700_C001
CS_OFFL_SIR_NOPR_2_20190602T083352_20190602T083610_C001
CS_OFFL_SIR_NOPR_2_20190602T083727_20190602T084517_C001
CS_OFFL_SIR_NOPR_2_20190602T092055_20190602T092236_C001
CS_OFFL_SIR_NOPR_2_20190602T101639_20190602T102352_C001
CS_OFFL_SIR_NOPR_2_20190602T111154_20190602T111833_C001
CS_OFFL_SIR_NOPR_2_20190602T115553_20190602T120302_C001
CS_OFFL_SIR_NOPR_2_20190602T132709_20190602T132922_C001
CS_OFFL_SIR_NOPR_2_20190602T133433_20190602T134033_C001
CS_OFFL_SIR_NOPR_2_20190602T143122_20190602T143248_C001
CS_OFFL_SIR_NOPR_2_20190602T174916_20190602T175143_C001
CS_OFFL_SIR_NOPR_2_20190602T192758_20190602T193128_C001
CS_OFFL_SIR_NOPR_2_20190602T204153_20190602T204340_C001
CS_OFFL_SIR_NOPR_2_20190602T210727_20190602T211047_C001
CS_OFFL_SIR_NOPR_2_20190602T220707_20190602T220724_C001
CS_OFFL_SIR_NOPR_2_20190602T223127_20190602T223827_C001

OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality

OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

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Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM. Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM. Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality

The OCOG Range and Backscatter Quality Flags have been set for one or more records.

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.

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L2 Quality Flags (1 Hz & 1Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below.

> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected.