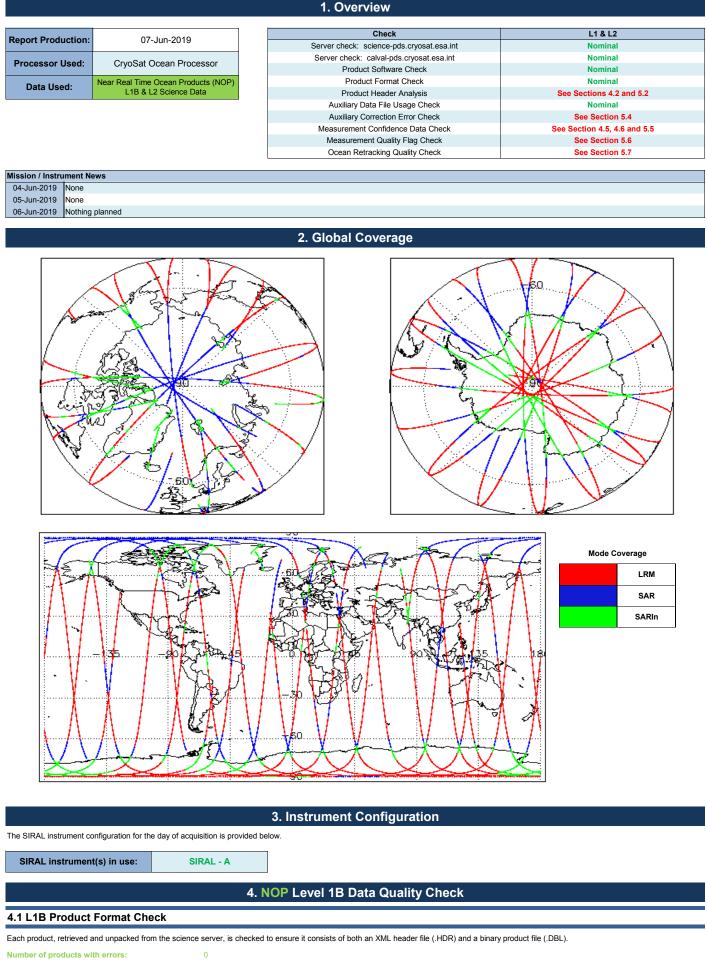


IDEAS+ Daily Report for NOP data:

05/06/2019





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:
7

Product	Test Failed
CS_OFFL_SIR_NOPM1B_20190605T161451_20190605T164344_C001	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_NOPM1B_20190605T160851_20190605T161345_C001	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_NOPM1B_20190605T160817_20190605T160827_C001	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_NOPR1B_20190605T160536_20190605T160816_C001	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_NOPN1B_20190605T160533_20190605T160536_C001	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_NOPN1B_20190605T161345_20190605T161451_C001	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_NOPN1B_20190605T160828_20190605T160850_C001	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).

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. 0

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.

4

Number of products with errors:

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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190605T134035_20190605T141330_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20190605T161451_20190605T164344_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20190605T180838_20190605T181454_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20190605T192717_20190605T192733_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:
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Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190605T071200_20190605T071921_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190605T220641_20190605T221404_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190605T221845_20190605T223311_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190605T001143_20190605T001717_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190605T060302_20190605T060359_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190605T091919_20190605T092137_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190605T192254_20190605T192348_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190605T192558_20190605T192717_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190605T042244_20190605T043023_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190605T231905_20190605T232407_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. 7

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_NOPM_2_20190605T161451_20190605T164344_C001	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_NOPM_2_20190605T160851_20190605T161345_C001	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_NOPM_2_20190605T160817_20190605T160827_C001	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_NOPR_2_20190605T160536_20190605T160816_C001	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_NOPN_2_20190605T160533_20190605T160536_C001	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_NOPN_2_20190605T161345_20190605T161451_C001	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_NOPN_2_20190605T160828_20190605T160850_C001	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).

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 CS_OFFL_SIR_NOPM_2_20190605T001717_20190605T001946_C001	Test Failed ECMWF Meteo Corrections	Description There is an error with the Mean Sea Surface (solution 1), Mean Dynamic There with the mean Table 2 ware Table (2027) half the Dynamic
CS OFFL SIR NOPM 2 20190605T002012 20190605T002437 C001	ECMWF Meteo Corrections	Topography, and Total Geocentric Ocean Tide (GOT) height There is an error with the ECMWF Meteo Corrections for one or more
CS OFFL SIR NOPM 2 20190605T015500 20190605T020350 C001	ECMWF Meteo Corrections	records There is an error with the ECMWF Meteo Corrections for one or more executed to the text of tex of text of text of text of text of text of text of
CS_OFFL_SIR_NOPM_2_20190605T033427_20190605T033608_C001	ECMWF Meteo Corrections	records There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190605T033714_20190605T034140_C001	ECMWF Meteo Corrections	records There is an error with the ECMWF Meteo Corrections for one or more
CS OFFL SIR NOPM 2 20190605T051629 20190605T052219 C001	ECMWF Meteo Corrections	records There is an error with the ECMWF Meteo Corrections for one or more events
CS_OFFL_SIR_NOPM_2_20190605T065535_20190605T070049_C001	ECMWF Meteo Corrections	records 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
CS OFFL SIR NOPM 2 20190605T083543 20190605T083951 C001	ECMWF Meteo Corrections	records There is an error with the ECMWF Meteo Corrections for one or more
CS_OFFL_SIR_NOPM_2_20190605T100907_20190605T101434_C001	ECMWF Meteo Corrections	records There is an error with the ECMWF Meteo Corrections for one or more executions exec
CS_OFFL_SIR_NOPM_2_20190605T101440_20190605T101446_C001	ECMWF Meteo Corrections	records There is an error with the ECMWF Meteo Corrections for one or more
CS_OFFL_SIR_NOPM_2_20190605T101453_20190605T101727_C001	ECMWF Meteo Corrections	records There is an error with the ECMWF Meteo Corrections for one or more executions execution
CS_0FFL_SIR_NOPM_2_20190605T105713_20190605T105856_C001	ECMWF Meteo Corrections	records There is an error with the ECMWF Meteo Corrections for one or more
CS_OFFL_SIR_NOPM_2_20190605T105927_20190605T110129_C001	ECMWF Meteo Corrections	records There is an error with the ECMWF Meteo Corrections for one or more executions exec
		records There is an error with the ECMWF Meteo Corrections for one or more
CS_OFFL_SIR_NOPM_2_20190605T114832_20190605T115330_C001	ECMWF Meteo Corrections	records
CS_OFFL_SIR_NOPM_2_20190605T115338_20190605T115345_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190605T115351_20190605T115402_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190605T115410_20190605T115532_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190605T120241_20190605T121047_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190605T132751_20190605T133242_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190605T133249_20190605T133301_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190605T133307_20190605T133316_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190605T133323_20190605T133432_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190605T164613_20190605T165112_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190605T165119_20190605T165447_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190605T182611_20190605T183143_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190605T200530_20190605T201039_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190605T214746_20190605T214942_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190605T232650_20190605T232853_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190605T232955_20190605T233355_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPN_2_20190605T001143_20190605T001717_C001	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
CS_OFFL_SIR_NOPN_2_20190605T001947_20190605T002012_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPN_2_20190605T002437_20190605T002617_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPN_2_20190605T011041_20190605T011250_C001	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
CS_OFFL_SIR_NOPN_2_20190605T011353_20190605T011557_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20190605T015324_20190605T015500_C001	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
CS_OFFL_SIR_NOPN_2_20190605T020351_20190605T020555_C001	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
CS_OFFL_SIR_NOPN_2_20190605T024954_20190605T025439_C001	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
CS_OFFL_SIR_NOPN_2_20190605T033259_20190605T033427_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPN_2_20190605T033609_20190605T033713_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPN_2_20190605T034141_20190605T034407_C001	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
CS_OFFL_SIR_NOPM_2_20190605T232955_20190605T233355_C001 CS_OFFL_SIR_NOPN_2_20190605T001143_20190605T001717_C001 CS_OFFL_SIR_NOPN_2_20190605T001947_20190605T002012_C001 CS_OFFL_SIR_NOPN_2_20190605T002437_20190605T002617_C001 CS_OFFL_SIR_NOPN_2_20190605T011041_20190605T011250_C001 CS_OFFL_SIR_NOPN_2_20190605T011353_20190605T011557_C001 CS_OFFL_SIR_NOPN_2_20190605T015324_20190605T015500_C001 CS_OFFL_SIR_NOPN_2_20190605T02351_20190605T02555_C001 CS_OFFL_SIR_NOPN_2_20190605T024954_20190605T025439_C001 CS_OFFL_SIR_NOPN_2_20190605T033259_20190605T033427_C001 CS_OFFL_SIR_NOPN_2_20190605T033259_20190605T033427_C001	ECMWF Meteo Corrections ECMWF Meteo Corrections, Mean Sea Surface (1), Mean Dynamic Topography (1) ECMWF Meteo Corrections ECMWF Meteo Corrections ECMWF Meteo Corrections, Mean Sea Surface (1), Mean Dynamic Topography (1) Total Geocentric Ocean Tide (GOT) ECMWF Meteo Corrections, Mean Dynamic Topography (1) ECMWF Meteo Corrections, Mean Dynamic Topography (1) ECMWF Meteo Corrections, Mean Surface (1), Mean Dynamic Topography (1) ECMWF Meteo Corrections ECMWF Meteo Corrections, Mean Sea Surface (1), Mean Dynamic Topography (1) ECMWF Meteo Corrections ECMWF Meteo Corrections	records There is an error with the ECMWF Meteo Corrections for one or me records There is an error with the ECMWF Meteo Corrections, the Mean Si Surface Height (solution 1) and the Mean Dynamic Topography (so for one or more records There is an error with the ECMWF Meteo Corrections for one or me records There is an error with the ECMWF Meteo Corrections for one or me records There is an error with the ECMWF Meteo Corrections, the Mean Si Surface Height (solution 1) and the Mean Dynamic Topography (so for one or more records There is an error with the ECMWF Meteo Corrections, the Mean Si Surface Height (solution 1) and the Mean Dynamic Topography (so for one or more records There is an error with the Total Geocentric Ocean Tide height (solut GOT) for one or more records There is an error with the ECMWF Meteo Corrections and the Mean Surface Height (solution 1) for one or more records There is an error with the ECMWF Meteo Corrections, the Mean Si Surface Height (solution 1) for one or more records There is an error with the ECMWF Meteo Corrections, the Mean Si Surface Height (solution 1) and the Mean Dynamic Topography (so for one or more records There is an error with the ECMWF Meteo Corrections for one or me records There is an error with the ECMWF Meteo Corrections for one or me records There is an error with the ECMWF Meteo Corrections for one or me records There is an error with the ECMWF Meteo Corrections for one or me records There is an error with the ECMWF Meteo Corrections for one or me records There is an error with the ECMWF Meteo Corrections for one or me records There is an error with the ECMWF Meteo Corrections for one or me records There is an error with the ECMWF Meteo Corrections for one or me records There is an error with the ECMWF Meteo Corrections for one or me records There is an error with the ECMWF Meteo Corrections, the Mean Si Surface Height (solution 1) and the Mean Dynamic Topography (so Surface Height (solution 1) and the Mean Dynamic To

ECMWF Meteo Corrections, Inverse Surface (1), Meteo Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T051236_20190605T051628_C001 CS_OFFL_SIR_NOPN_2_20190605T052219_20190605T055940_C001 Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T050221_20190605T065940_C001 Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T065221_20190605T065534_C001 Surface (1), Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T065221_20190605T065534_C001 Surface (1), Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T065221_20190605T070201_C001 DYNAMIC Topography (1) CS_OFFL_SIR_NOPN_2_20190605T063294_20190605T08340_C001 CS_OFFL_SIR_NOPN_2_20190605T083952_20190605T08340_C001 CS_OFFL_SIR_NOPN_2_20190605T083952_20190605T0814113_C001 Surface (1), Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T107128_0190605T109157_C001 CCMWF Meteo Corrections, Mean S Surface (1), Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T105152_0190605T109157_C001 CS_OFFL_SIR_NOPN_2_20190605T105152_0190605T109157_C001 CS_OFFL_SIR_NOPN_2_20190605T110585_0190605T105172_C001 CS_OFFL_SIR_NOPN_2_20190605T110555_0190605T10527_C001 CS_OFFL_SIR_NOPN_2_20190605T110555_20190605T115409_C001 <th>T), Ion- hy</th>	T), Ion- hy
CS_OFFL_SIR_NOPN_2_20190605T052219_20190605T052344_C001 ECMWF Meteo Corrections CS_OFFL_SIR_NOPN_2_20190605T060032_20190605T0600359_C001 Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T060032_20190605T0600359_C001 Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T065021_20190605T070201_C001 ECMWF Meteo Corrections, Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T082049_20190605T083409_C001 ECMWF Meteo Corrections, Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T083952_20190605T083109_C001 ECMWF Meteo Corrections, Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T083952_20190605T092137_C001 ECMWF Meteo Corrections, Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T001919_20190605T092137_C001 ECMWF Meteo Corrections, Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T10745_20190605T10915_C001 ECMWF Meteo Corrections, Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T10551_20190605T10592_C001 ECMWF Meteo Corrections, Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T110586_20190605T10592_C001 ECMWF Meteo Corrections, Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T115622_20190605T116592_C001 ECMWF Meteo Corrections CS_OFFL_SIR_NOPN_2_20190605T115632_20190605T116592_C001 ECMWF Meteo Corrections CS_OFFL_SIR_NOPN_2_20190605T115324_20190605T1123839_C001<	a hy
CS_OFFL_SIR_NOPN_2_20190605T055818_20190605T055940_C001 Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T060302_20190605T060359_C001 Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T065032_20190605T065534_C001 ECMWF Meteo Corrections, Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T065034_001 ECMWF Meteo Corrections, Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T082449_20190605T083409_C001 ECMWF Meteo Corrections, Mean Surface (1), Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T083952_20190605T084113_C001 ECMWF Meteo Corrections, Mean Surface (1), Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T083952_20190605T092137_C001 ECMWF Meteo Corrections, Mean Surface (1), Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190605T10745_20190605T10915_C001 ECMWF Meteo Corrections CS_OFFL_SIR_NOPN_2_20190605T105551_20190605T105927_C001 ECMWF Meteo Corrections CS_OFFL_SIR_NOPN_2_20190605T110552_0190605T1105927_C001 ECMWF Meteo Corrections CS_OFFL_SIR_NOPN_2_20190605T115532_0190605T1105927_C001 ECMWF Meteo Corrections CS_OFFL_SIR_NOPN_2_20190605T115403_20190605T11552_C001 ECMWF Meteo Corrections CS_OFFL_SIR_NOPN_2_20190605T115403_20190605T11555_C001 ECMWF Meteo Corrections CS_OFFL_SIR_NOPN_2_20190605T112324_20190605T1132330_C001 ECMWF Meteo Corrections <	a hy
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CS_OFFL_SIR_NOPN_2_20190605T200413_20190605T200530_C001 ECMWF Meteo Corrections, Mean S Surface (1), Mean Dynamic Topogra	
(1) ECMWF Meteo Corrections, Inverse Barometric Correction, Mean Sea Surface (1), Mean Dynamic Topogra (1), Total Geocentric Ocean Tide (GC Total Geocentric Ocean Tide (FES), Equilibrium Long Period Ocean Tide	T), on-
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CS_OFFL_SIR_NOPN_2_20190605T224031_20190605T224232_C001 ECMWF Meteo Corrections, Mean S Surface (1), Mean Dynamic Topogra (1)	hy
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CS_OFFL_SIR_NOPN_2_20190605T233355_20190605T233533_C001 ECMWF Meteo Corrections	hy a hy a
CS_OFFL_SIR_NOPR_2_20190605T042034_20190605T042214_C001 Mean Dynamic Topography (1)	hy a hy a
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ohy DT),	Surface Height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
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	records There is an error with the Mean Dynamic Topography height for one or
	more records
	There is an error with the Mean Dynamic Topography height for one or more records
ea	There is an error with the ECMWF Meteo Corrections, the Mean Sea Surface Height (solution 1) and the Mean Dynamic Topography (solution 1)
ohy	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
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	for one or more records
ea ohy	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 Total
	Geocentric Ocean Tide height (GOT) 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 and the Mean Sea Surface Height (solution 1) for one or more records
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ohy DT)	Surface Height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
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	records There is an error with the ECMWF Meteo Corrections for one or more
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ic	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 2)
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	records 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 Surface Height (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
ea	There is an error with the ECMWF Meteo Corrections, the Mean Sea
ohy	Surface Height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records
ohy	There is an error with the ECMWF Meteo Corrections, the Mean Sea
DT), Non-	Surface Height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
ea ohy	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
ea ohy	There is an error with the ECMWF Meteo Corrections, the Mean Sea Surface Height (solution 1) and the Mean Dynamic Topography (solution 1)
ea	for one or more records There is an error with the ECMWF Meteo Corrections, the Mean Sea
ohy	Surface Height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records
ea	There is an error with the ECMWF Meteo Corrections, the Mean Sea
ohy	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 Mean Dynamic Topography height for one or
ic	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 Mean Dynamic Topography height for one or more records
	There is an error with the Mean Dynamic Topography height for one or

There is an error with the Mean Dynamic Topography height for one or more records

CS_OFFL_SIR_NOPR_2_20190605T060359_20190605T061148_C001	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)
CS_OFFL_SIR_NOPR_2_20190605T074205_20190605T075239_C001	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)
CS_OFFL_SIR_NOPR_2_20190605T083536_20190605T083542_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPR_2_20190605T092327_20190605T093123_C001	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)
CS_OFFL_SIR_NOPR_2_20190605T101434_20190605T101440_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPR_2_20190605T101447_20190605T101453_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPR_2_20190605T110224_20190605T110802_C001	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)
CS_OFFL_SIR_NOPR_2_20190605T115331_20190605T115338_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPR_2_20190605T115345_20190605T115351_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPR_2_20190605T123129_20190605T123227_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20190605T124136_20190605T124835_C001	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)
CS_OFFL_SIR_NOPR_2_20190605T133243_20190605T133249_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPR_2_20190605T141959_20190605T142512_C001	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)
CS_OFFL_SIR_NOPR_2_20190605T175241_20190605T175437_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20190605T231905_20190605T232407_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) 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: 4

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190605T134035_20190605T141330_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20190605T161451_20190605T164344_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20190605T180838_20190605T181454_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20190605T192717_20190605T192733_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

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_20190605T000204_20190605T001102_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_20190605T002012_20190605T002437_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_20190605T002726_20190605T004122_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_20190605T004302_20190605T004857_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_20190605T012312_20190605T012659_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_20190605T012823_20190605T015140_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_20190605T015500_20190605T020350_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_20190605T020647_20190605T022818_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_20190605T025659_20190605T033047_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_20190605T033714_20190605T034140_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_20190605T034605_20190605T041255_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_20190605T042234_20190605T042244_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_20190605T043852_20190605T045328_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_20190605T045905_20190605T050920_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_20190605T051629_20190605T052219_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_20190605T052447_20190605T054824_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_20190605T054827_20190605T054934_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_20190605T060125_20190605T060234_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_20190605T061452_20190605T064828_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_20190605T065535_20190605T070049_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_20190605T070734_20190605T071054_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_20190605T071200_20190605T071920_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_20190605T073804_20190605T074204_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_20190605T075239_20190605T080337_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_20190605T080623_20190605T082736_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_20190605T083410_20190605T083535_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_20190605T083543_20190605T083951_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_20190605T084415_20190605T085458_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_20190605T085646_20190605T090403_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_20190605T090458_20190605T090917_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_20190605T093123_20190605T093439_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_20190605T093442_20190605T100638_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_20190605T100907_20190605T101434_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_20190605T101453_20190605T101727_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range Quality, Ocean	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190605T102537_20190605T103806_C001	SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality, Ocean	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190605T103828_20190605T105536_C001	SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality, Ocean	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190605T111715_20190605T112856_C001	SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality, Ocean	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190605T113100_20190605T114546_C001	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_20190605T114832_20190605T115330_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range Quality, Ocean	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190605T120241_20190605T121047_C001	SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality, Ocean	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190605T121932_20190605T123128_C001	SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality, Ocean	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190605T131024_20190605T132452_C001	SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality OCOG Altimeter Range Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190605T132751_20190605T133242_C001	Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190605T133323_20190605T133432_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range Quality, Ocean	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_NOPM_2_20190605T134035_20190605T141330_C001	SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality, Ocean	have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_NOPM_2_20190605T161451_20190605T164344_C001	SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality OCOG Altimeter Range Quality, OCOG	have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set
CS_OFFL_SIR_NOPM_2_20190605T164613_20190605T165112_C001	Backscatter Quality OCOG Altimeter Range Quality, OCOG	for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set
CS_OFFL_SIR_NOPM_2_20190605T165119_20190605T165447_C001	Backscatter Quality Ocean Altimeter Range Quality, Ocean	for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_NOPM_2_20190605T165850_20190605T170924_C001	SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality, Ocean	have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_NOPM_2_20190605T171500_20190605T173243_C001	SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	have been set for one or more records.

CS_OFFL_SIR_NOPM_2_20190605T174549_20190605T175130_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_20190605T181759_20190605T182238_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_20190605T182611_20190605T183143_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_20190605T183839_20190605T191333_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_20190605T194407_20190605T200106_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_20190605T200530_20190605T201039_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_20190605T201709_20190605T205311_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_20190605T212032_20190605T213811_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_20190605T214746_20190605T214942_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_20190605T215715_20190605T220638_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_20190605T220641_20190605T221404_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_20190605T221845_20190605T223311_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_20190605T224558_20190605T230321_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_20190605T230458_20190605T231904_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_20190605T232650_20190605T232853_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_20190605T232955_20190605T233355_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_20190605T233602_20190605T235111_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_20190605T235313_20190605T235951_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_NOPN_2_20190605T052219_20190605T052344_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_NOPN_2_20190605T091742_20190605T091831_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_NOPR_2_20190605T004122_20190605T004301_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_NOPR_2_20190605T034407_20190605T034604_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.

L2 Quality Flags (20Hz PLRM)

Number of products with errors:

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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Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20190605T001143_20190605T001717_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_20190605T011041_20190605T011250_C001	OCCA Altimeter Range Quality FLRW, OCCG Altimeter Range Quality FLRM, Occan 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_20190605T024954_20190605T025439_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Autmeter 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_20190605T034141_20190605T034407_C001	OCCAIT Alumeter Range Quality PLRM, OCCG Altimeter Range Quality PLRM, Occan SSHA Quality PLRM, Occan SWH Quality Occan 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_20190605T082949_20190605T083409_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_20190605T083952_20190605T084113_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_20190605T101728_20190605T101915_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_20190605T115532_20190605T115755_C001	OCCG Altimeter Range Quality PLRM, OCCG 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_20190605T123546_20190605T123839_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_20190605T123924_20190605T124135_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_20190605T132538_20190605T132750_C001 CS OFFL SIR NOPN 2 20190605T141607 20190605T141958 C001 CS OFFL SIR NOPN 2 20190605T164443 20190605T164612 C001 CS OFFL SIR NOPN 2 20190605T192254 20190605T192348 C001 CS_OFFL_SIR_NOPN_2_20190605T200413_20190605T200530_C001 CS_OFFL_SIR_NOPN_2_20190605T201039_20190605T201352_C001 CS_OFFL_SIR_NOPN_2_20190605T211948_20190605T212031_C001 CS_OFFL_SIR_NOPN_2_20190605T214511_20190605T214745_C001 CS OFFL SIR NOPN 2 20190605T214943 20190605T215518 C001 CS_OFFL_SIR_NOPN_2_20190605T233355_20190605T233533_C001 CS OFFL SIR NOPR 2 20190605T010442 20190605T010545 C001 CS OFFL SIR NOPR 2 20190605T011250 20190605T011353 C001 CS_OFFL_SIR_NOPR_2_20190605T015141_20190605T015323_C001 CS_OFFL_SIR_NOPR_2_20190605T033048_20190605T033259_C001 CS_OFFL_SIR_NOPR_2_20190605T042244_20190605T043023_C001 CS_OFFL_SIR_NOPR_2_20190605T050921_20190605T051236_C001 CS_OFFL_SIR_NOPR_2_20190605T060359_20190605T061148_C001 CS_OFFL_SIR_NOPR_2_20190605T064829_20190605T065221_C001 CS OFFL SIR NOPR 2 20190605T074205 20190605T075239 C001 CS_OFFL_SIR_NOPR_2_20190605T082737_20190605T082949_C001 CS OFFL SIR NOPR 2 20190605T092327 20190605T093123 C001 CS_OFFL_SIR_NOPR_2_20190605T101916_20190605T102536_C001 CS_OFFL_SIR_NOPR_2_20190605T110224_20190605T110802_C001 CS_OFFL_SIR_NOPR_2_20190605T112856_20190605T113059_C001 CS_OFFL_SIR_NOPR_2_20190605T115756_20190605T120121_C001 CS_OFFL_SIR_NOPR_2_20190605T123840_20190605T123924_C001 CS OFFL SIR NOPR 2 20190605T124136 20190605T124835 C001 CS OFFL SIR NOPR 2 20190605T141959 20190605T142512 C001 CS_OFFL_SIR_NOPR_2_20190605T165625_20190605T165850_C001 CS_OFFL_SIR_NOPR_2_20190605T183502_20190605T183838_C001 CS_OFFL_SIR_NOPR_2_20190605T192348_20190605T192431_C001 CS_OFFL_SIR_NOPR_2_20190605T200107_20190605T200413_C001 CS_OFFL_SIR_NOPR_2_20190605T201352_20190605T201709_C001 CS_OFFL_SIR_NOPR_2_20190605T213811_20190605T214510_C001 CS OFFL SIR NOPR 2 20190605T231905 20190605T232407 C001

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

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

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

Number of products with errors:

5.7 L2 Ocean Retracking Qu	ality Check	
L2 Quality Flags (20Hz)		
CryoSat L2 data includes an ocean retracl	xing quality flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.	
Ocean Retracking Quality Flag: This flag	g is currently set for products falling at ocean/ land boundaries, but this is expected.	
Number of products with errors:	61	
L2 Quality Flags (20Hz, PLRM)		
CryoSat L2 data includes an ocean retracl	xing quality flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.	
Ocean Retracking Quality Flag (PLRM):	This flag is currently set for products NOPR and NOPN products over sea ice, but this is to be expected.	
Number of products with errors:	124	