



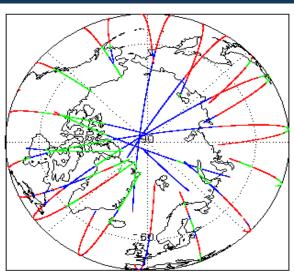
1. Overview

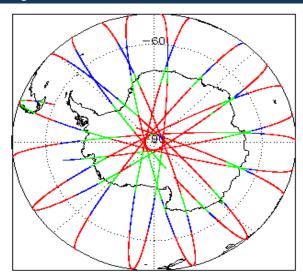
Report Production:	10-Jun-2019 CryoSat Ocean Processor	
Processor Used:		
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	

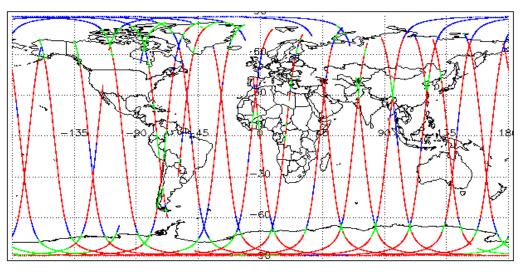
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Sections 4.2 and 5.2
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement Confidence Data Check	See Section 4.5, 4.6
Measurement Quality Flag Check	See Section 5.6
Ocean Retracking Quality Check	See Section 5.7

Mission / Instrument News		
05-Jun-2019	None	
06-Jun-2019	19 SIRAL unavailability on 06-Jun-2019 from 05:15:38 to 07:01:50 due to a planned orbit manoeuvre.	
07-Jun-2019	07-Jun-2019 Nothing planned	

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. 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:

0

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

4.3 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

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.

Number of products with errors:

0

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:

Ω

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.

Number of products with errors:

15

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190606T002923_20190606T004137_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190606T070357_20190606T073725_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190606T101851_20190606T103327_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190606T122007_20190606T123412_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190606T130907_20190606T131220_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190606T230130_20190606T231342_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190606T001937_20190606T002045_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190606T002148_20190606T002235_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190606T011257_20190606T011445_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190606T033222_20190606T033245_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190606T114841_20190606T115057_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190606T142342_20190606T142630_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190606T215423_20190606T215508_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190606T160523_20190606T160739_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190606T222633_20190606T223334_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:

0

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

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.
- > 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_20190605T235954_20190606T000235_C001		There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPM_2_20190606T002046_20190606T002147_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T010452_20190606T011257_C001	IECMWE Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T024332_20190606T024538_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T024609_20190606T025140_C001	IECMWE Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records

CS_OFFL_SIR_NOPM_2_20190606T042252_20190606T042356_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T042540_20190606T043025_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T043043_20190606T043138_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T074351_20190606T074905_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T091932_20190606T092351_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T092357_20190606T092404_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T092409_20190606T092804_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPM_2_20190606T105731_20190606T110249_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T110256_20190606T110302_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T110308_20190606T110505_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T120802_20190606T121828_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T123657_20190606T124200_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_20190606T124207_20190606T124218_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T124224_20190606T124339_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T141713_20190606T142116_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T142123_20190606T142131_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T142138_20190606T142342_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T151656_20190606T151755_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_NOPM_2_20190606T155503_20190606T160030_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T160037_20190606T160402_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T173505_20190606T174309_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T191440_20190606T191956_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T205606_20190606T205857_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T223609_20190606T223803_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T224024_20190606T224256_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPM_2_20190606T233001_20190606T233357_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more
CS_OFFL_SIR_NOPN_2_20190606T001937_20190606T002045_C001	ECMWF Meteo Corrections, Mean Sea Surface (1), Mean Dynamic Topography	records There is an error with the ECMWF Meteo Corrections, the Mean Sea Surface Height (solution 1) and the Mean Dynamic Topography (solution 1)
CC OFFI CID NORM 2 20400000T002440 20400000T00225 0004	(1)	for one or more records There is an error with the ECMWF Meteo Corrections for one or more
CS_OFFL_SIR_NOPN_2_20190606T002148_20190606T002235_C001	ECMWF Meteo Corrections ECMWF Meteo Corrections, Inverse	records
CS_OFFL_SIR_NOPN_2_20190606T005341_20190606T005720_C001	Barometric Correction, 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 Inverse Barometric Correction, the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_NOPN_2_20190606T010236_20190606T010452_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPN_2_20190606T011257_20190606T011445_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPN_2_20190606T015853_20190606T020447_C001	ECMWF Meteo Corrections, Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the ECMWF Meteo Corrections, the Mean Sea Surface Height (solution 1), the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20190606T024144_20190606T024331_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPN_2_20190606T024539_20190606T024609_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPN_2_20190606T025140_20190606T025406_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_20190606T033906_20190606T034310_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_NOPN_2_20190606T042110_20190606T042252_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_20190606T042356_20190606T042539_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPN_2_20190606T043026_20190606T043043_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPN_2_20190606T043139_20190606T043302_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPN_2_20190606T074030_20190606T074351_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_20190606T074905_20190606T075029_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_20190606T083057_20190606T083237_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_NOPN_2_20190606T091738_20190606T091932_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPN_2_20190606T092805_20190606T092914_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

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Cooperation of the Company of the Company of the Cooperation of the Co	CS_OFFL_SIR_NOPN_2_20190606T101035_20190606T101054_C001	ECMWF Meteo Corrections	
E. COPPLIER NORM 2 00100007110001 2010000711001 CODING CONTROLLED	CS_OFFL_SIR_NOPN_2_20190606T105553_20190606T105731_C001	ECMWF Meteo Corrections	
Co. CHILLER NOME 2 2010000710401 (2010000710404 CO.) CO. CHILLER NOME 2 2010000710400 (2010000710404	CS_OFFL_SIR_NOPN_2_20190606T110505_20190606T110701_C001	Surface (1), Mean Dynamic Topography	Surface Height (solution 1) and the Mean Dynamic Topography (solution 1)
Computer St. Computer Computer St.	CS_OFFL_SIR_NOPN_2_20190606T114841_20190606T115057_C001	Surface (1), Mean Dynamic Topography	Surface Height (solution 1) and the Mean Dynamic Topography (solution 1)
County	CS_OFFL_SIR_NOPN_2_20190606T123508_20190606T123656_C001	ECMWF Meteo Corrections	
Description Corrector, New York (1994) Security (1994) Securit	CS_OFFL_SIR_NOPN_2_20190606T124218_20190606T124224_C001	ECMWF Meteo Corrections	
Description (Control	CS_OFFL_SIR_NOPN_2_20190606T132423_20190606T132935_C001	Barometric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-	Barometric Correction, the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for
Log.OFFL_SR_NORPL_2.20186007142132 2100008714213 COID COMM More Consistons More Department of the Committee	CS_OFFL_SIR_NOPN_2_20190606T141414_20190606T141713_C001	-	
Column C	CS_OFFL_SIR_NOPN_2_20190606T142117_20190606T142123_C001	ECMWF Meteo Corrections	
Seg. OFFL_SIR, NOPH_2 201000001100002 201000001100000 201000001100000 201000001100000 20100001100000 2010000000 2010000001100000 2010000000 20100000000	CS_OFFL_SIR_NOPN_2_20190606T142132_20190606T142138_C001	ECMWF Meteo Corrections	
CS_OFFL_SR_NORW_2_20190000T193342_010000T193300_001 CS_OFFL_SR_NORW_2_20190000T193342_010000T193000_001 CS_OFFL_SR_NORW_2_20190000T193342_010000T193000T19	CS_OFFL_SIR_NOPN_2_20190606T142342_20190606T142630_C001		
CS. OFFL. SIR. NOPN 2, 2010000F190032, 2019000F190035, CODI CS. OFFL. SIR. NOPN 2, 2010000F190032, 2019000F190032, CODI CS. OFFL. SIR. NOPN 2, 2010000F190032, 2019000F190320, CODI CS. OFFL. SIR. NOPN 2, 2010000F190332, 2019000F190330, CODI CS. OFFL. SIR. NOPN 2, 2010000F120334, 2019000F190330, CODI CS. OFFL. SIR. NOPN 2, 2010000F120334, 2019000F120330, CODI CS. OFFL. SIR. NOPN 2, 2010000F1203334, 2019000F120330, CODI CS. OFFL. SIR. NOPN 2, 2010000F1203334, 2019000F120330, CODI CS. OFFL. SIR. NOPN 2, 2010000F1203334, 2019000F1203300, CODI CS. OFFL. SIR. NOPN 2, 2010000F1203334, 2019000F1203300, CODI CS. OFFL. SIR. NOPN 2, 2010000F1203335, 2019000F1203300, CODI CS. OFFL. SIR. NOPN 2, 2010000F1203335, 2019000F1203300, CODI CS. OFFL. SIR. NOPN 2, 2010000F1203335, 2019000F1203300, CODI CS. OFFL. SIR. NOPR 2, 2010000F1203357, 2019000F1203300, CODI CS. OFFL. SIR. NOPR 2, 2010000F1203357, 2019000F1203300, CODI CS. OFFL. SIR. NOPR 2, 2010000F17033357, 2019000F1203300, CODI CS	CS_OFFL_SIR_NOPN_2_20190606T150422_20190606T150757_C001	Mean Dynamic Topography (1)	
CS_OFFL_SR_NOPN_2_20190006T10340_20190006T10342_C001 CS_OFFL_SR_NOPN_2_20190006T10340_20190006T10344_C001 CS_OFFL_SR_NOPN_2_20190006T17344_C001 CS_OFFL_SR_NOPN_2_20190006T17344_C001 CS_OFFL_SR_NOPN_2_20190006T17344_C001 CS_OFFL_SR_NOPN_2_20190006T17344_C001 CS_OFFL_SR_NOPN_2_20190006T17344_C001 CS_OFFL_SR_NOPN_2_20190006T10430_C001 CS_OFFL_SR_NOPN_2_20190006T10440_C001 CS_OFFL_SR_NOPN_2_20190006T10440_C001 CS_OFFL_SR_NOPN_2_20190006T10440_C001 CS_OFFL_SR_NOPN_2_20190006T10440_C001 CS_OFFL_SR_NOPN_2_20190006T10440_C001 CS_OFFL_SR_NOPR_2_20190006T10440_C001 CS_OFFL_SR_NOPR_2_20190006T	CS_OFFL_SIR_NOPN_2_20190606T155349_20190606T155503_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more
ECO. PFL_SIR_NORN_2 201999991190422 20199991190422 20199991190422 2019999119042 2019999119042 2019999119042 2019999119042 2019999119042 2019999119042 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 20199991190400119040 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 20199991119040119040 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 2019999119040119040 201999911904040119040 201999911904040119040 2019999111904040119040 2019999111904040119040 2019999111904040119040 2019999111904040119040 2019999111904040119040 2019999111904040119040 20199991119040401190404011904040 201999911190404011904040 201999911190404011904040 20199991119040401190404040404040404040404	CS_OFFL_SIR_NOPN_2_20190606T160030_20190606T160036_C001	ECMWF Meteo Corrections	
ECMWF Meteo Corrections ECMWF Meteo Correctio	CS_OFFL_SIR_NOPN_2_20190606T160402_20190606T160522_C001	ECMWF Meteo Corrections	
ECMMY Meteo Corrections ECMMY	CS_OFFL_SIR_NOPN_2_20190606T173340_20190606T173454_C001	ECMWF Meteo Corrections	
ELMMF Meteo Corrections, Mean Sea Surface (1), Mean Dynamic Topography (colution 1) and the Mean Dynamic Topography (1) and the Mean Dynam	CS_OFFL_SIR_NOPN_2_20190606T174309_20190606T174421_C001	ECMWF Meteo Corrections	
Surface (1), Mean Dynamic Topography (action 1) and the Mean Dynamic Topography (action 2) action 2 action 2 ac	CS_OFFL_SIR_NOPN_2_20190606T191314_20190606T191439_C001	ECMWF Meteo Corrections	
Soffe (1), Mean Dynamic Topography (solution 1) after one or more records Surface (1), Mean Dynamic Topography (solution 1) after one or more records Surface (1), Mean Dynamic Topography (solution 1) after one or more records Surface (1), Mean Dynamic Topography (solution 1) after the Mean Dynamic Topography (solution 2) after the Mean Dynamic Topograp	CS_OFFL_SIR_NOPN_2_20190606T191957_20190606T192302_C001	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 (colution 1) and the Mean Dynamic Topography (solution 1) ECMWF Meteo Corrections, Mean Sea Surface (1), Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (solution 1) ECMWF Meteo Corrections ECMWF Meteo	CS_OFFL_SIR_NOPN_2_20190606T205259_20190606T205606_C001	Surface (1), Mean Dynamic Topography	Surface Height (solution 1) and the Mean Dynamic Topography (solution 1)
Surface (1), Mean Dynamic Topography (solution 1) or one or more records ECMWF Meteo Corrections ECMWF Meteo Correction	CS_OFFL_SIR_NOPN_2_20190606T205857_20190606T210239_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_20190606T224257_20190606T233000_C001 CS_OFFL_SIR_NOPN_2_20190606T232842_20190606T233000_C001 CS_OFFL_SIR_NOPN_2_20190606T2332842_20190606T233000_C001 CS_OFFL_SIR_NOPN_2_20190606T233557_20190606T233557_C001 CS_OFFL_SIR_NOPN_2_20190606T033557_20190606T03400_C001 CS_OFFL_SIR_NOPR_2_20190606T03357_20190606T03400_C001 CS_OFFL_SIR_NOPR_2_20190606T03357_20190606T03400_C001 CS_OFFL_SIR_NOPR_2_20190606T03357_20190606T03400_C001 CS_OFFL_SIR_NOPR_2_20190606T03357_20190606T03400_C001 CS_OFFL_SIR_NOPR_2_20190606T03357_20190606T03400_C001 CS_OFFL_SIR_NOPR_2_20190606T03357_20190606T03400_C001 CS_OFFL_SIR_NOPR_2_20190606T033200_C001 CS_OFFL_SIR_NOPR_2_20190606T03357_20190606T03400_C001 CS_OFFL_SIR_NOPR_2_20190606T03357_20190606T03400_C001 CS_OFFL_SIR_NOPR_2_20190606T03257_C001 CS_OFFL_SIR_NOPR_2_20190606T03257_C001 CS_OFFL_SIR_NOPR_2_20190606T03251_20190606T092457_C001 CS_OFFL_SIR_NOPR_2_20190606T092351_20190606T092400_C001 CS_OFFL_SIR_NOPR_2_20190606T092351_20190606T092400_C001 CS_OFFL_SIR_NOPR_2_20190606T092351_20190606T092400_C001 CS_OFFL_SIR_NOPR_2_20190606T092351_20190606T092400_C001 CS_OFFL_SIR_NOPR_2_20190606T092351_20190606T092400_C001 CS_OFFL_SIR_NOPR_2_20190606T092351_20190606T092400_C001 CS_OFFL_SIR_NOPR_2_20190606T092351_20190606T10851_C001 CS_OFFL_SIR_NOPR_2_20190606T092351_20190606T10851_C001 CS_OFFL_SIR_NOPR_2_20190606T10143_20190606T101851_C001 CS_OFFL_SIR_NOPR_2	CS_OFFL_SIR_NOPN_2_20190606T223334_20190606T223609_C001	Surface (1), Mean Dynamic Topography	Surface Height (solution 1) and the Mean Dynamic Topography (solution 1)
ECMWF Meteo Corrections Surface (1), Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190606T233842_20190606T233521_CO11 ECMWF Meteo Corrections, Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1), and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1), and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1), and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1), and the Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) more records ECMWF Meteo Corrections ECMWF Meteo Corrections (Topography (1) more records) Mean Sea Surface (1), Mean Dynamic Topography (1) more records ECMWF Meteo Corrections (1), Mean Dynamic Topography (1) more records ECMWF Meteo Corrections, Mean Dynamic Topography (1) more records ECMWF Meteo Corrections, Mean Dynamic Topography (1) more records ECMWF Meteo Corrections, Mean Dynamic Topography (1) more records ECMWF Meteo Corrections, Mean Dynamic Topography (1) more records ECMWF Meteo Corrections, Mean Dynamic Topography (1) more records ECMWF Meteo Corrections, Mean Dynamic Topography (1) more records ECMWF Meteo Corrections, Mean Dynamic Topography (1) more is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) more is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) more is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) more is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) more is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) more is an error with the ECMWF Meteo Corrections is there is an error with the ECMWF Meteo Corrections for one or more records ECMWF Meteo Corrections ECMWF Meteo Co	CS_OFFL_SIR_NOPN_2_20190606T223804_20190606T223933_C001	ECMWF Meteo Corrections	
CS_OFFL_SIR_NOPN_2_20190606T233802_2010 CS_OFFL_SIR_NOPN_2_20190606T23357_20190606T233521_C001 CS_OFFL_SIR_NOPN_2_20190606T033357_20190606T0400_C001 CS_OFFL_SIR_NOPR_2_20190606T033412_20190606T0400_C001 CS_OFFL_SIR_NOPR_2_20190606T033412_20190606T033906_C001 CS_OFFL_SIR_NOPR_2_20190606T033412_20190606T033906_C001 CS_OFFL_SIR_NOPR_2_20190606T033412_20190606T033906_C001 CS_OFFL_SIR_NOPR_2_20190606T033412_20190606T034019_C001 CS_OFFL_SIR_NOPR_2_20190606T033237_20190606T04019_C001 CS_OFFL_SIR_NOPR_2_20190606T033237_20190606T04019_C001 CS_OFFL_SIR_NOPR_2_20190606T033237_20190606T084134_C001 CS_OFFL_SIR_NOPR_2_20190606T083237_20190606T084134_C001 CS_OFFL_SIR_NOPR_2_20190606T083237_20190606T084134_C001 CS_OFFL_SIR_NOPR_2_20190606T084102_20190606T084134_C001 CS_OFFL_SIR_NOPR_2_20190606T084102_20190606T084134_C001 CS_OFFL_SIR_NOPR_2_20190606T092351_20190606T092357_C001 CS_OFFL_SIR_NOPR_2_20190606T092351_20190606T092357_C001 CS_OFFL_SIR_NOPR_2_20190606T092405_20190606T092409_C001 CS_OFFL_SIR_NOPR_2_20190606T10143_20190606T101851_C001 CS_OFFL_SIR_NOPR_2_20190606T10143_20190606T101851_C001 CS_OFFL_SIR_NOPR_2_20190606T10143_20190606T101851_C001 CS_OFFL_SIR_NOPR_2_20190606T110249_20190606T110255_C001 CS_OFFL_SIR_NOPR_2_2	CS_OFFL_SIR_NOPN_2_20190606T224257_20190606T224429_C001	ECMWF Meteo Corrections	
CS_OFFL_SIR_NOPR_2_20190606T001252_20190606T001400_C001 Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 2) CS_OFFL_SIR_NOPR_2_20190606T083237_20190606T084019_C001 CS_OFFL_SIR_NOPR_2_20190606T083237_20190606T084019_C001 CS_OFFL_SIR_NOPR_2_20190606T084102_20190606T084134_C001 CS_OFFL_SIR_NOPR_2_20190606T084102_20190606T084134_C001 CS_OFFL_SIR_NOPR_2_20190606T084102_20190606T092357_C001 CS_OFFL_SIR_NOPR_2_20190606T092351_20190606T092357_C001 CS_OFFL_SIR_NOPR_2_20190606T092351_20190606T092409_C001 CS_OFFL_SIR_NOPR_2_20190606T092405_20190606T092409_C001 CS_OFFL_SIR_NOPR_2_20190606T092405_20190606T092409_C001 CS_OFFL_SIR_NOPR_2_20190606T092405_20190606T092405_C001 CS_OFFL_SIR_NOPR_2_20190606T101143_20190606T101851_C001 CS_OFFL_SIR_NOPR_2_20190606T110249_20190606T101255_C001 CS_OFFL_SIR_NOPR_2_20190606T110249_20190606T110282_C001 CS_OFFL_SIR_NOPR_2_20190606T110302_20190606T110308_C001 CS_OFFL_SIR_NOPR_2_20190606T110302_20190606T110308_C001 CS_OFFL_SIR_NOPR_2_20190606T110302_20190606T110308_C001 CS_OFFL_SIR_NOPR_2_20190606T110302_20190606T110308_C001 CS_OFFL_SIR_NOPR_2_20190606T110302_20190606T110308_C001 CS_OFFL_SIR_NOPR_2_20190606T110302_20190606T110308_C001 CS_OFFL_SIR_NOPR_2_20190606T110302_20190606T110308_C001 CS_OFFL_SIR_NOPR_2_20190606T110302_20190606T110308_C001 CS_OFFL_SIR_NOPR_	CS_OFFL_SIR_NOPN_2_20190606T232842_20190606T233000_C001	Surface (1), Mean Dynamic Topography	Surface Height (solution 1), the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPR_2_20190606T033412_20190606T05138_C001 CS_OFFL_SIR_NOPR_2_20190606T051109_20190606T05138_C001 CS_OFFL_SIR_NOPR_2_20190606T083237_20190606T084019_C001 CS_OFFL_SIR_NOPR_2_20190606T083237_20190606T084019_C001 CS_OFFL_SIR_NOPR_2_20190606T083237_20190606T084019_C001 CS_OFFL_SIR_NOPR_2_20190606T084102_20190606T084134_C001 CS_OFFL_SIR_NOPR_2_20190606T084102_20190606T084134_C001 CS_OFFL_SIR_NOPR_2_20190606T084102_20190606T084134_C001 CS_OFFL_SIR_NOPR_2_20190606T084102_20190606T084134_C001 CS_OFFL_SIR_NOPR_2_20190606T084102_20190606T084134_C001 CS_OFFL_SIR_NOPR_2_20190606T092351_20190606T092357_C001 CS_OFFL_SIR_NOPR_2_20190606T092351_20190606T092409_C001 CS_OFFL_SIR_NOPR_2_20190606T092405_20190606T092409_C001 CS_OFFL_SIR_NOPR_2_20190606T092405_20190606T092409_C001 CS_OFFL_SIR_NOPR_2_20190606T10143_20190606T101851_C001 CS_OFFL_SIR_NOPR_2_20190606T10143_20190606T110255_C001 CS_OFFL_SIR_NOPR_2_20190606T110249_20190606T110285_C001 CS_OFFL_SIR_NOPR_2_20190606T110249_20190606T110286_C001 CS_OFFL_SIR_NOPR_2_20190606T110249_C0010606T110286_C001	CS_OFFL_SIR_NOPN_2_20190606T233357_20190606T233521_C001	ECMWF Meteo Corrections	records
Topography (1) CS_OFFL_SIR_NOPR_2_20190606T051109_20190606T051538_C001 CS_OFFL_SIR_NOPR_2_20190606T083237_20190606T084019_C001 CS_OFFL_SIR_NOPR_2_20190606T083237_20190606T084019_C001 CS_OFFL_SIR_NOPR_2_20190606T084102_20190606T084014_C001 CS_OFFL_SIR_NOPR_2_20190606T084102_20190606T084134_C001 CS_OFFL_SIR_NOPR_2_20190606T084102_20190606T084134_C001 CS_OFFL_SIR_NOPR_2_20190606T084102_20190606T084134_C001 CS_OFFL_SIR_NOPR_2_20190606T092351_20190606T092357_C001 CS_OFFL_SIR_NOPR_2_20190606T092405_20190606T092409_C001 CS_OFFL_SIR_NOPR_2_20190606T10143_20190606T101851_C001 CS_OFFL_SIR_NOPR_2_20190606T10143_20190606T101851_C001 CS_OFFL_SIR_NOPR_2_20190606T10143_20190606T101851_C001 CS_OFFL_SIR_NOPR_2_20190606T10143_20190606T101851_C001 CS_OFFL_SIR_NOPR_2_20190606T10143_20190606T101851_C001 CS_OFFL_SIR_NOPR_2_20190606T10143_20190606T101851_C001 CS_OFFL_SIR_NOPR_2_20190606T10143_20190606T101851_C001 CS_OFFL_SIR_NOPR_2_20190606T10143_20190606T101851_C001 CS_OFFL_SIR_NOPR_2_20190606T110249_20190606T110255_C001 CS_OFFL_SIR_NOPR_2_20190606T110249_20190606T110250_C001 CS_OFFL_SIR_NOPR_2_20190606T110249_20190606T110250_C001 CS_OFFL_SIR_NOPR_2_20190606T110249_20190606T110250_C001 CS_OFFL_SIR_NOPR_2_20190606T110249_20190606T110250_C001 CS_OFFL_SIR_NOPR_2_20190606T110249_20190606T110250_C001 CS_OFFL_SIR_NOPR_2_20190606T110249_20190606T110250_C001 CS_OFFL_SIR_NOPR_2_20190606T110249_20190606T110240_C001040606T110240_C001040606T110240606T	CS_OFFL_SIR_NOPR_2_20190606T001252_20190606T001400_C001		more records
Topography (1) CS_OFFL_SIR_NOPR_2_20190606T083237_20190606T084019_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 2) ECMWF Meteo Corrections, Inverse Barometric Correction, Mean Dynamic Topography (1), Total Geocentric Ocean Tide (ECS), Non-Equilibrium Long Period Coean Tide Non-Equilibrium Long Period Coean Tide (ECS),	CS_OFFL_SIR_NOPR_2_20190606T033412_20190606T033906_C001	Topography (1)	Topography height (solution 2)
Topography (1) Topography (2) Topography (2) Topography (3) Topography (4) Topography (5) Topography (5) Topography (6) Topography (6) Topography (7) Topography (8) Topography (8) Topography (1) Topography height (solution 2) There is an error with the ECMWF Meteo Corrections, the Inverse Barometric Coreant in the Solution 1: GOT and solution 1: He Total Geocentric Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1	CS_OFFL_SIR_NOPR_2_20190606T051109_20190606T051538_C001		
Barometric Correction, Mean Dynamic Topography (1), Total Geocentric Ocean Tide (SOLT), Total Geocentric Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide Non-Equilibrium Long Period Ocean Tide Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide Non-Equilibrium Long Period Ocean Tide Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT 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 MSS height (Solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide Height (Solution 1: GOT) for one or more recor	CS_OFFL_SIR_NOPR_2_20190606T083237_20190606T084019_C001	Topography (1)	
CS_OFFL_SIR_NOPR_2_20190606T092405_20190606T092409_C001 ECMWF Meteo Corrections ECMWF Meteo Corrections There is an error with the ECMWF Meteo Corrections for one or more records CS_OFFL_SIR_NOPR_2_20190606T101143_20190606T101851_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) ECMWF Meteo Corrections There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 2) ECMWF Meteo Corrections ECMWF Meteo Corrections ECMWF Meteo Corrections 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 MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_NOPR_2_20190606T112628_20190606T112842_C001 CS_OFFL_SIR_NOPR_2_20190606T115057_20190606T115147_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1: GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1: GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1: GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1: 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 MSS height (solution 1) and the Mean Dynamic Topography height (solution 1: GOT) for one or more records	CS_OFFL_SIR_NOPR_2_20190606T084102_20190606T084134_C001	Barometric Correction, Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Barometric Correction, the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and
CS_OFFL_SIR_NOPR_2_20190606T101143_20190606T101851_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) CS_OFFL_SIR_NOPR_2_20190606T110249_20190606T110255_C001 CS_OFFL_SIR_NOPR_2_20190606T110302_20190606T110308_C001 ECMWF Meteo Corrections ECMWF Meteo Corrections 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 MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic Topography 1), Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic Mean Sea Surface (1), Mean Dynamic Topography height (solution 2) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1: GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1: GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1: GOT) for one or more records	CS_OFFL_SIR_NOPR_2_20190606T092351_20190606T092357_C001	ECMWF Meteo Corrections	
Topography (1) 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 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 MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide height (solution 1; and the Total Geocentric Ocean Tide height (solution 1; and the Total Geocentric Ocean Tide height (solution 1; and the MSS height (solution 1) and the Mean Dynamic Topography (1), Mean Dynamic Topography height (solution 1; and the Total Geocentric Ocean Tide height (solution 1; GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Mean Dynamic Topography height (solution 1; GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1), Mea	CS_OFFL_SIR_NOPR_2_20190606T092405_20190606T092409_C001	ECMWF Meteo Corrections	
CS_OFFL_SIR_NOPR_2_20190606T110302_20190606T110308_C001 ECMWF Meteo Corrections ECMWF Meteo Corrections Fecords There is an error with the ECMWF Meteo Corrections for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_NOPR_2_20190606T112628_20190606T112842_C001 CS_OFFL_SIR_NOPR_2_20190606T115057_20190606T115147_C001 ECMWF Meteo Corrections Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records There is an error with the MSS height (solution 2) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records	CS_OFFL_SIR_NOPR_2_20190606T101143_20190606T101851_C001		
CS_OFFL_SIR_NOPR_2_201906061110302_201906061110308_C001 ECMWF Meteo Corrections Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide height (solution 2) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_NOPR_2_20190606T110249_20190606T110255_C001	ECMWF Meteo Corrections	
Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_NOPR_2_20190606T112628_20190606T112842_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic Topography height (solution 2) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_NOPR_2_20190606T110302_20190606T110308_C001	ECMWF Meteo Corrections	
CS_OFFL_SIR_NOPR_2_20190606T115057_20190606T115147_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_NOPR_2_20190606T112628_20190606T112842_C001	Topography (1), Total Geocentric Ocean	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 2) and the Total Geocentric Ocean Tide height
	CS_OFFL_SIR_NOPR_2_20190606T115057_20190606T115147_C001	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic

CS_OFFL_SIR_NOPR_2_20190606T115147_20190606T115806_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_20190606T124200_20190606T124206_C001	ECMWF Meteo Corrections	There is an error with the ECMWF Meteo Corrections for one or more records
CS_OFFL_SIR_NOPR_2_20190606T132935_20190606T133550_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_20190606T150757_20190606T151045_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_20190606T201627_20190606T202011_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height 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:

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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190605T235954_20190606T000235_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_20190606T002923_20190606T004137_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_20190606T004745_20190606T005340_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_20190606T005721_20190606T010004_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_20190606T010452_20190606T011257_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_20190606T011537_20190606T013023_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_20190606T024609_20190606T025140_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_20190606T025536_20190606T031926_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_20190606T035137_20190606T040238_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_20190606T040816_20190606T041854_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_20190606T043043_20190606T043138_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_20190606T043415_20190606T050231_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_20190606T070357_20190606T073725_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_20190606T074351_20190606T074905_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_20190606T075310_20190606T081045_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_20190606T084135_20190606T091545_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_20190606T091932_20190606T092351_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_20190606T092409_20190606T092804_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_20190606T093249_20190606T100619_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_20190606T101851_20190606T103327_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_20190606T103809_20190606T105522_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_20190606T105731_20190606T110249_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_20190606T111323_20190606T112628_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_20190606T112842_20190606T114213_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_20190606T114306_20190606T114526_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_20190606T120802_20190606T121828_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_20190606T122007_20190606T123412_C001	Ocean Backscatter Quality 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_20190606T123657_20190606T124200_C001	Ocean Backscatter Quality 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_20190606T124224_20190606T124339_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_20190606T125033_20190606T125131_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_20190606T125814_20190606T130238_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_20190606T130907_20190606T131220_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_20190606T131343_20190606T132052_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_20190606T135229_20190606T141250_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_20190606T141713_20190606T142116_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_20190606T142123_20190606T142131_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_20190606T142814_20190606T145421_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_20190606T152927_20190606T155225_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_20190606T155503_20190606T160030_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_20190606T160037_20190606T160402_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_20190606T160739_20190606T161831_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_20190606T162409_20190606T163954_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_20190606T170344_20190606T172429_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_20190606T172654_20190606T173151_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_20190606T173505_20190606T174309_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_20190606T174733_20190606T182024_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_20190606T183343_20190606T183443_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_20190606T185514_20190606T190317_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_20190606T190331_20190606T191042_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_20190606T191440_20190606T191956_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_20190606T192644_20190606T194809_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_20190606T195054_20190606T200114_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_20190606T201144_20190606T201627_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_20190606T203113_20190606T203659_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_20190606T203847_20190606T204914_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_20190606T205606_20190606T205857_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_20190606T210615_20190606T214230_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_20190606T215508_20190606T220158_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_20190606T220212_20190606T222632_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_20190606T223609_20190606T223803_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_20190606T224529_20190606T230127_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_20190606T230130_20190606T231342_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.
	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_20190606T233521_20190606T235106_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_20190606T033222_20190606T033245_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190606T233357_20190606T233521_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_20190606T100620_20190606T100646_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)

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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20190606T001937_20190606T002045_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_20190606T010236_20190606T010452_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_20190606T015853_20190606T020447_C001	OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality PLRM, Ocean	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_20190606T025140_20190606T025406_C001	SWH Quality Ocean Backscatter 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_20190606T033222_20190606T033245_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_20190606T033906_20190606T034310_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_20190606T043026_20190606T043043_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_20190606T074905_20190606T075029_C001	OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality Ocean Rankeratter Ocean Altimeter Range Quality PLRM,	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_20190606T083057_20190606T083237_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_20190606T092805_20190606T092914_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_20190606T105553_20190606T105731_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_20190606T110505_20190606T110701_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_20190606T114841_20190606T115057_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_20190606T125137_20190606T125235_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter 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_20190606T132423_20190606T132935_C001	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_20190606T141414_20190606T141713_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_20190606T142342_20190606T142630_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_20190606T173340_20190606T173454_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_20190606T191314_20190606T191439_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_20190606T191957_20190606T192302_C001	OCOG Altimeter Range Quality 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_20190606T205259_20190606T205606_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_20190606T210313_20190606T210343_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_20190606T214345_20190606T214403_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter 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_20190606T215003_20190606T215334_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter 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_20190606T223334_20190606T223609_C001	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_NOPR_2_20190606T011445_20190606T011537_C001 CS OFFL SIR NOPR 2 20190606T020447 20190606T020711 C001 CS_OFFL_SIR_NOPR_2_20190606T033006_20190606T033222_C001 CS OFFL SIR NOPR 2 20190606T033412 20190606T033906 C001 CS OFFL SIR NOPR 2 20190606T051109 20190606T051538 C001 CS OFFL SIR NOPR 2 20190606T073725 20190606T074029 C001 CS_OFFL_SIR_NOPR_2_20190606T075029_20190606T075310_C001 CS OFFL SIR NOPR 2 20190606T081903 20190606T081932 C001 CS OFFL SIR NOPR 2 20190606T083237 20190606T084019 C001 CS_OFFL_SIR_NOPR_2_20190606T091545_20190606T091738_C001 CS OFFL SIR NOPR 2 20190606T101143 20190606T101851 C001 CS OFFL SIR NOPR 2 20190606T110701 20190606T111323 C001 CS OFFL SIR NOPR 2 20190606T114526 20190606T114840 C001 CS_OFFL_SIR_NOPR_2_20190606T132214_20190606T132423_C001 CS_OFFL_SIR_NOPR_2_20190606T132935_20190606T133550_C001 CS OFFL SIR NOPR 2 20190606T150757 20190606T151045 C001 CS_OFFL_SIR_NOPR_2_20190606T160523_20190606T160739_C001 CS OFFL SIR NOPR 2 20190606T161832 20190606T162408 C001 CS OFFL SIR NOPR 2 20190606T174421 20190606T174733 C001 CS OFFL SIR NOPR 2 20190606T210343 20190606T210614 C001 CS OFFL SIR NOPR 2 20190606T222633 20190606T223334 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 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

The Ocean Altimeter Range, SSHA, SWH 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.

The Ocean Altimeter Range, SSHA, SWH 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.

The Ocean Altimeter Range, SSHA, SWH 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.

The Ocean Altimeter Range, SSHA, SWH 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.

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

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The Ocean Altimeter Range, SSHA, SWH 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.

The Ocean Altimeter Range, SSHA, SWH 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.

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

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

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.

Number of products with errors:

5.7 L2 Ocean Retracking Quality Check

L2 Quality Flags (20Hz)

CryoSat L2 data includes an ocean retracking 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 is currently set for products falling at ocean/ land boundaries, but this is expected.

Number of products with errors: 51

L2 Quality Flags (20Hz, PLRM)

CryoSat L2 data includes an ocean retracking 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:

12