

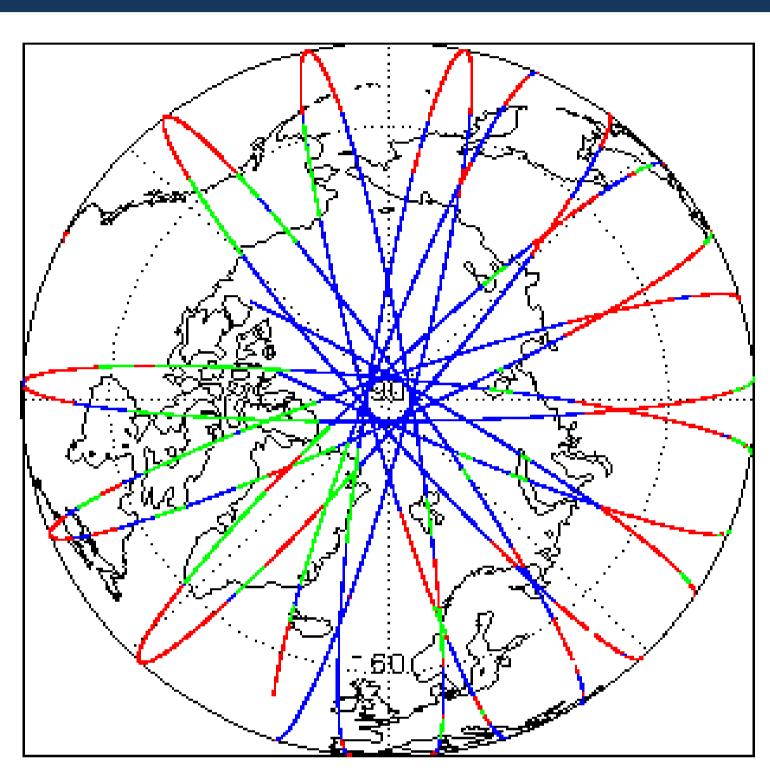
1. Overview

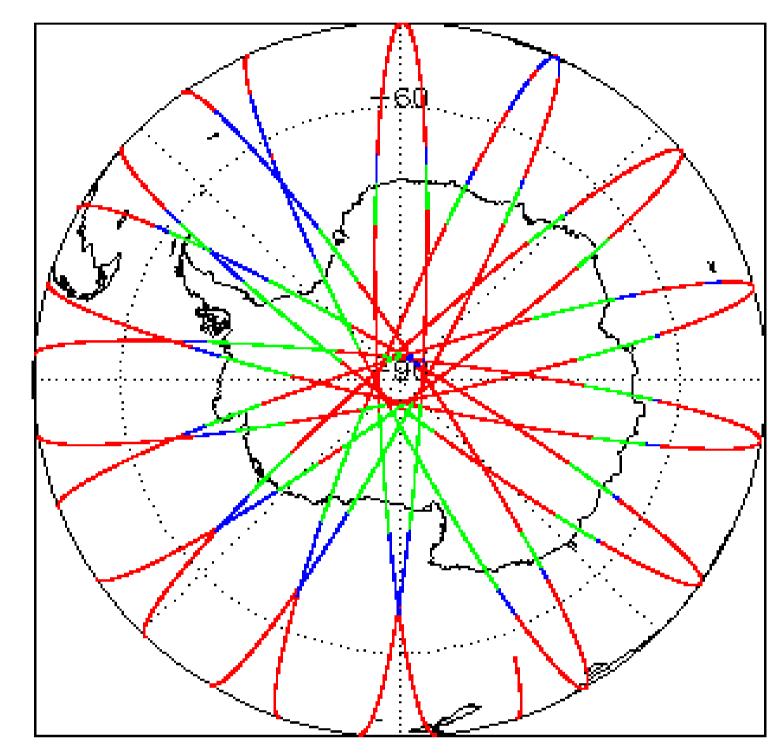
Report Production:	12-Apr-2021	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

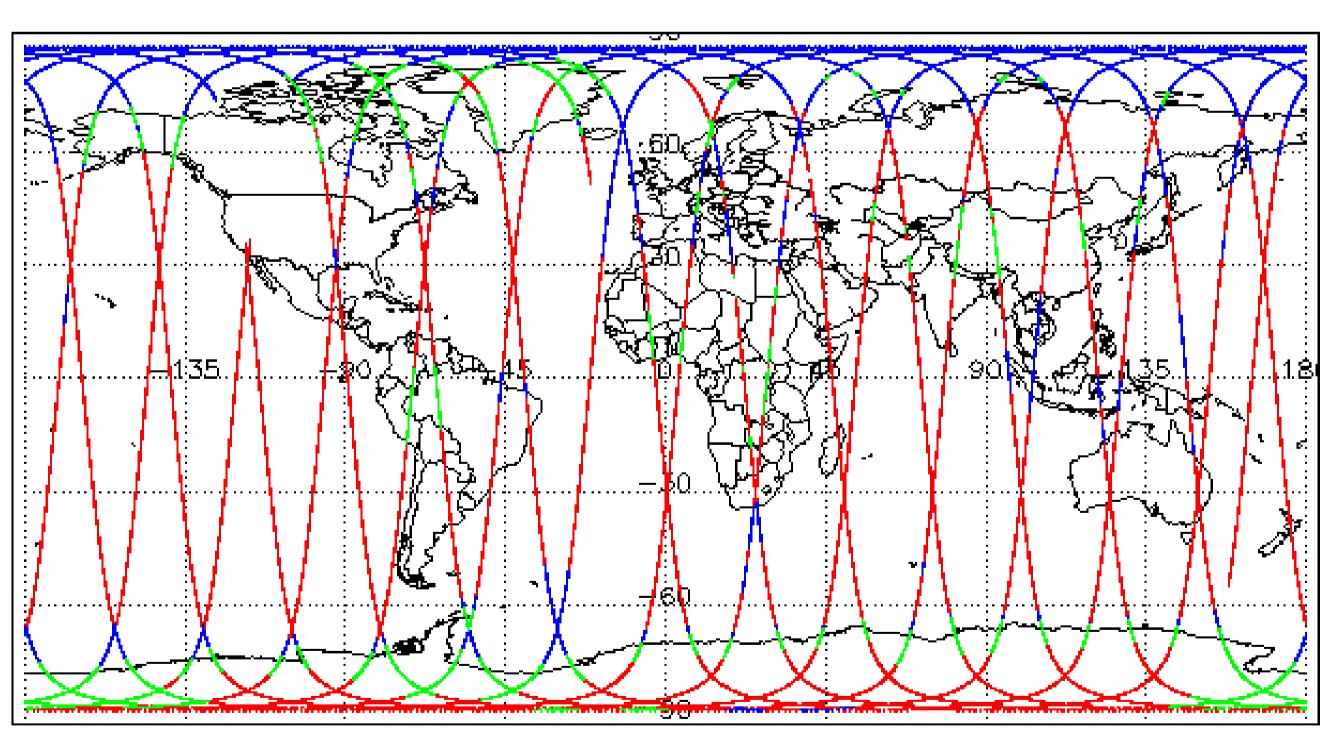
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1, 7.2

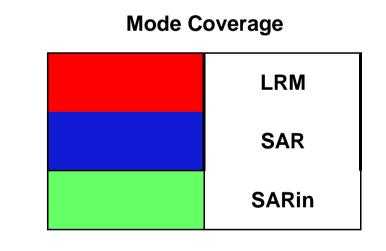
Mission / Instru	ment News
08-Apr-2021	None
09-Apr-2021	None
10-Apr-2021	Nothing planned

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. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

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.

L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B IOPR and IOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

0

4.4 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 IOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

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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:

18

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20210409T021653_20210409T023225_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20210409T052544_20210409T054636_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20210409T191909_20210409T194713_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20210409T230545_20210409T230717_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210409T000336_20210409T000414_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210409T000455_20210409T000737_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210409T014717_20210409T014820_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210409T060136_20210409T060318_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210409T091734_20210409T092049_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210409T100848_20210409T100947_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210409T150536_20210409T150642_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210409T152757_20210409T153320_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210409T164450_20210409T165036_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210409T173726_20210409T173851_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210409T231606_20210409T231841_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210409T084140_20210409T084328_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210409T151445_20210409T151606_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210409T231044_20210409T231606_C001	Loss of Echo	The tracking echo is missing for one or more records

5. OP Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

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:

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0

0

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. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > 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.

	Description
Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
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 1)
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 1)
Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
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 1)
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 1)
Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
	There is an error with the Mean Dynamic Topography height for one or more records
· · ·	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
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 1)
Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
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 1)
Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
	There is an error with the Mean Dynamic Topography height for one or more records
Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
Topography (1), Total Geocentric Ocean	Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more
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 1)
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 1)
	Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1),

CS_OFFL_SIR_IOPR_2_20210409T024346_20210409T024615_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20210409T031701_20210409T031804_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 1)
CS_OFFL_SIR_IOPR_2_20210409T032721_20210409T033419_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 1)
CS_OFFL_SIR_IOPR_2_20210409T034759_20210409T035615_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20210409T050544_20210409T051053_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 1)
CS_OFFL_SIR_IOPR_2_20210409T064308_20210409T065116_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 1)
CS_OFFL_SIR_IOPR_2_20210409T082153_20210409T082925_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 1)
CS_OFFL_SIR_IOPR_2_20210409T083251_20210409T083501_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20210409T083838_20210409T084026_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20210409T095701_20210409T100723_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 1)
CS_OFFL_SIR_IOPR_2_20210409T100723_20210409T100848_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 1)
CS_OFFL_SIR_IOPR_2_20210409T113921_20210409T114622_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 1)
CS_OFFL_SIR_IOPR_2_20210409T114622_20210409T115050_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 1)
CS_OFFL_SIR_IOPR_2_20210409T131903_20210409T132512_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 1)
CS_OFFL_SIR_IOPR_2_20210409T132512_20210409T132623_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 1)
CS_OFFL_SIR_IOPR_2_20210409T140746_20210409T140918_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20210409T145852_20210409T150050_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20210409T150059_20210409T150316_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 1)
CS_OFFL_SIR_IOPR_2_20210409T150316_20210409T150536_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 1)
CS_OFFL_SIR_IOPR_2_20210409T163913_20210409T164450_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 1)
CS_OFFL_SIR_IOPR_2_20210409T182005_20210409T182509_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 1)
CS_OFFL_SIR_IOPR_2_20210409T195656_20210409T200711_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 1)
CS_OFFL_SIR_IOPR_2_20210409T213757_20210409T214607_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 1)
CS_OFFL_SIR_IOPR_2_20210409T230717_20210409T231044_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20210409T231841_20210409T232626_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 1)

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:

83

0

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20210408T235836_20210409T000250_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CO 01. 60 OH 2 JOSPH (1997) CO 1997	CS_OFFL_SIR_IOPM_2_20210409T002107_20210409T002454_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Residues of Castley 10: 0.000 A little Residue of Based and Based condition by Page Face bears and buselesses along the Company of Castley 10: 0.000 A little Residue of Based and Based condition by Page Face bears and buselesses along the Company of Castley 10: 0.000 A little Residue of Castley Page Face bears and buselesses along the Castley Page Face bears and buselesses and and busel	CS_OFFL_SIR_IOPM_2_20210409T002633_20210409T005307_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Description	CS_OFFL_SIR_IOPM_2_20210409T005454_20210409T010020_C001		
Compared to Comp	CS_OFFL_SIR_IOPM_2_20210409T010026_20210409T010032_C001		
December Stage Country (CC) COFTL, SR (DOPM 2, 2020) 97010212 (2) COMPTIONISE COUNTRY (CC) COFTL, SR (DOPM 2, 2020) 97010212 (2) COMPTIONISE COUNTRY (CC) COFTL, SR (DOPM 2, 2020) 97010212 (2) COMPTIONISE COUNTRY (CC) COFTL, SR (DOPM 2, 2020) 97010212 (2) COMPTIONISE COUNTRY (CC) COFTL, SR (DOPM 2, 2020) 97010212 (2) COMPTIONISE COUNTRY (CC) COFTL, SR (DOPM 2, 2020) 97010212 (2) COMPTIONISE COUNTRY (CC) COFTL, SR (DOPM 2, 2020) 97010212 (2) COMPTIONISE COUNTRY (CC) COFTL, SR (DOPM 2, 2020) 97010211 (2) COMPTIONISE COUNTRY (CC) CO	CS_OFFL_SIR_IOPM_2_20210409T010039_20210409T010303_C001		, ,
CS OFFL SIR OPM 2 2021-0031103619 2015400710419 CDC CS OFFL SIR OPM 2 2021-0031103619 CDC AND	CS_OFFL_SIR_IOPM_2_20210409T011123_20210409T012351_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFT_SRI_OFM_2_002**0**07002502_002**0**07002542_002**0**07002503_002**07002503_002**07002	CS_OFFL_SIR_IOPM_2_20210409T012440_20210409T014138_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DOOR Alternate Range and Backscarler Quality COOR Alternate Range and Backscarler Quality Plage have been set for or or none words. CS OFFIL SIR JOPA 2 20194097102955 0031409710039 COOR Alternate Range Quality, OCOS Alternate Range and Backscarler Quality Flage have been set for or or none words. CS OFFIL SIR JOPA 2 20194097102955 0031409710030 COOR Alternate Range Quality, OCOS Alternate Range and Backscarler Quality Flage have been set for or or none words. CS OFFIL SIR JOPA 2 20194097102955 0031409710030 COOR Alternate Range Quality, OCOS Alternate Range and Backscarler Quality Flage have been set for or or none words. CS OFFIL SIR JOPA 2 20194097102951 2019409710030 COOR Alternate Range Quality, OCOS Alternate Range and Backscarler Quality Flage have been set for or or none words. CS OFFIL SIR JOPA 2 20194097102951 2019409710030 COOR Alternate Range County Flage have been set for or or none words. CS OFFIL SIR JOPA 2 20194097100510 20194097101951 COOR Alternate Range County Flage have been set for or or none words. CS OFFIL SIR JOPA 2 20194097100510 20194097101951 COOR Alternate Range County Flage have been set for or or none words. CS OFFIL SIR JOPA 2 20194097100510 20194097101951 COOR Alternate Range County Flage have been set for or or none words. CS OFFIL SIR JOPA 2 20194097100510 20194097101951 COOR Alternate Range County Flage have been set for or or none words. CS OFFIL SIR JOPA 2 20194097100510 201940970101951 COOR Alternate Range County Flage have been set for or or none words. CS OFFIL SIR JOPA 2 20194097100500 20194097010510 COOR Alternate Range County Flage have been set for or or none words. CS OFFIL SIR JOPA 2 20194097100500 20194097010510 COOR Alternate Range County Flage have been set for or or none words. CS OFFIL SIR JOPA 2 20194097100500 2019409700500 COOR Alternate Range County Flage have been set for or or none words. CS OFFIL SIR JOPA 2 20194097100500 2019409700500 COOR Alternate Range County Flage have been set for or or none words. CS OFFIL SIR JOPA 2 20194097100500 20	CS_OFFL_SIR_IOPM_2_20210409T020520_20210409T021449_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Specialities Capity CS_OFFL_SR_JOPY_2_202*04/30T02988_2011448(70/4116_C010) Specialities Capity CS_OFFL_SR_JOPY_2_202*04/30T02988_2011448(70/4116_C010) Specialities Capity CS_OFFL_SR_JOPY_2_202*04/30T02981_202*1040(70/3002_C010) Altrinder Range, SSHA_SWH and Backscatter Capity Flags and 3 to CODO Antimer Range and Backscatter Ca	CS_OFFL_SIR_IOPM_2_20210409T021653_20210409T023225_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Reconstruct Coulty CS_OPFL_SR_IOPM_2_202**0000102454_202**00001030008_CD01 CS_OPFL_SR_IOPM_2_202**0000102454_202**00001031030_CD01 CS_OPFL_SR_IOPM_2_202**0000103454_202**00001031031701_CD01 CS_OPFL_SR_IOPM_2_202**0000103555_202**00001031701_CD01 CS_OPFL_SR_IOPM_2_202**00001031701_CD01 CS_OPFL_SR_IOPM_2_202**00001031701_CD01 CS_OPFL_SR_IOPM_2_202**00001031701_CD01 CS_OPFL_SR_IOPM_2_202**00001031701_CD01 CS_OPFL_SR_IOPM_2_202**00001031701_CD01 CS_OPFL_SR_IOPM_2_202**00001031701_CD01 CS_OPFL_SR_IOPM_2_202**0000100047_20_201000010047_CD01 CS_OPFL_SR_IOPM_2_202**0000100047_20_201000010047_CD01 CS_OPFL_SR_IOPM_2_202**0000100047_20_201000010047_CD01 CS_OPFL_SR_IOPM_2_202**0000100047_20_2010000100047_CD01 CS_OPFL_SR_IOPM_2_202**0000100047_20_2010000100047_CD01 CS_OPFL_SR_IOPM_2_202**0000100047_20_2010000100047_CD01 CS_OPFL_SR_IOPM_2_202**0000100047_20_2010000100047_CD01 CS_OPFL_SR_IOPM_2_202**00001000402_2010000100047_CD01 CS_OPFL_SR_IOPM_2_202**00001000402_2010000100047_CD01 CS_OPFL_SR_IOPM_2_202**00001000402_2010000100047_CD01 CS_OPFL_SR_IOPM_2_202**00001000402_2010000100047_CD01 CS_OPFL_SR_IOPM_2_202**00001000402_2010000100047_CD01 CS_OPFL_SR_IOPM_2_202**00001000402_2010000100047_CD01 CS_OPFL_SR_IOPM_2_202**00001000402_2010000100047_CD01 CS_OPFL_SR_IOPM_2_202**00001000402_20100001000402_20100000402_2010000402_2010000402_2010000402_2010000402_201000402_2010000402_2010000402_201	CS_OFFL_SIR_IOPM_2_20210409T023422_20210409T023918_C001		
and flackscatter Quality, Flags have been and flackscatter Quality, Flags have been and flackscatter Quality Flags have	CS_OFFL_SIR_IOPM_2_20210409T023956_20210409T024116_C001		
and Baskscaster Quality COG Altrineter Range and Baskscaster Quality Fags have been altrineter Range and Baskscaster Quality Fags have been and Cog Office Street (Cog Office Street Page 20210409T03615	CS_OFFL_SIR_IOPM_2_20210409T024814_20210409T030038_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality. Plags have been att for one or more records. CS_OFFL_SIR_IOPM_2_20210409T041360_20210409T041832_CO01 CS_OFFL_SIR_IOPM_2_20210409T042446_20210409T041749_CO01 CS_OFFL_SIR_IOPM_2_20210409T042446_20210409T045151_CO01 CS_OFFL_SIR_IOPM_2_20210409T042446_20210409T045151_CO01 CS_OFFL_SIR_IOPM_2_20210409T052544_20210409T055047_CO01 CS_OFFL_SIR_IOPM_2_20210409T055400_20210409T055747_CO01 CS_OFFL_SIR_IOPM_2_20210409T055810_20210409T055747_CO01 CS_OFFL_SIR_IOPM_2_20210409T056400_20210409T060136_CO01 CS_OFFL_SIR_IOPM_2_20210409T056400_20210409T065777_CO01 CS_OFFL_SIR_IOPM_2_20210409T056400_20210409T065777_CO01 CS_OFFL_SIR_IOPM_2_20210409T056400_20210409T065777_CO01 CS_OFFL_SIR_IOPM_2_20210409T056400_20210409T065777_CO01 CS_OFFL_SIR_IOPM_2_20210409T056400_20210409T065777_CO01 CS_OFFL_SIR_IOPM_2_20210409T056400_20210409T065777_CO01 CCS_OFFL_SIR_IOPM_2_20210409T056400_20210409T065777_CO01 CCS_OFFL_SIR_IOPM_2_20210409T056400_20210409T065777_CO01 CCS_OFFL_SIR_IOPM_2_20210409T056400_20210409T065777_CO01 CCS_OFFL_SIR_IOPM_2_20210409T056400_20210409T065777_CO01 CCS_OFFL_SIR_IOPM_2_20210409T056400_20210409T065777_CO01 CCS_OFFL_SIR_IOPM_2_20210409T056400_20210409T065777_CO01 CCS_OFFL_SIR_IOPM_2_20210409T056400_20210409T065777_CO01 CCS_OFFL_SIR_IOPM_2_20210409T056400_20210409T065777_CO01 CCS_OFFL_SIR_IOPM_2_20210409T066400_20210409T065777_CO01 CCS_OFFL_SIR_IOPM_2_20210409T066400_20210409T065770_CO01 CCS_OFFL_SIR_IOPM_2_20210409T066400_20210409T065770_CO01 CCS_OFFL_SIR_IOPM_2_20210409T066400_20210409T065320_CO01 CCS_OFFL_SIR_IOPM_2_20210409T066400_20210409T065320_CO01 CCS_OFFL_SIR_IOPM_2_20210409T066400_20210409T0656400_CO01 Alternate Range and Backscatter Quality Flags have been set for one or more records. CCS_OFFL_SIR_IOPM_2_20210409T066400_20210409T063230_CO01 CCS_OFFL_SIR_IOPM_2_20210409T066400_20210409T063230_CO01 CCS_OFFL_SIR_IOPM_2_20210409T066400_20210409T063230_CO01 CCS_OFFL_SIR_IOPM_2_20210409T070400_20210409T063240_CO01 CCS_OFFL_SIR_IOPM_2_20210409T070400_20210409T0	CS_OFFL_SIR_IOPM_2_20210409T030518_20210409T031701_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_JOPM_2_20210409T042446_20210409T044749_C001 CS_OFFL_SIR_JOPM_2_20210409T042446_20210409T045151_C001 CS_OFFL_SIR_JOPM_2_20210409T04246_20210409T045151_C001 CS_OFFL_SIR_JOPM_2_20210409T042752_20210409T045151_C001 CS_OFFL_SIR_JOPM_2_20210409T045152_20210409T045151_C001 CS_OFFL_SIR_JOPM_2_20210409T052544_20210409T054536_C001 CS_OFFL_SIR_JOPM_2_20210409T052544_20210409T055047_C001 CS_OFFL_SIR_JOPM_2_20210409T055540_20210409T055047_C001 CS_OFFL_SIR_JOPM_2_20210409T05540_20210409T055747_C001 CS_OFFL_SIR_JOPM_2_20210409T05540_20210409T055747_C001 CS_OFFL_SIR_JOPM_2_20210409T05540_20210409T055042_C0010409T055747_C001 CS_OFFL_SIR_JOPM_2_20210409T05540_20210409T05303_C001 CS_OFFL_SIR_JOPM_2_20210409T054004_20210409T05303_C001 CS_OFFL_SIR_JOPM_2_20210409T054004_20210409T05303_C001 CS_OFFL_SIR_JOPM_2_20210409T054004_20210409T05303_C001 CS_OFFL_SIR_JOPM_2_20210409T054004_20210409T05303_C001 CS_OFFL_SIR_JOPM_2_20210409T054004_20210409T05303_C001 CS_OFFL_SIR_JOPM_2_20210409T07302_C001 CS_OFFL_SIR_JOPM_2_20210409T073032_C001 CCG_Altimeter Range_CSHA_SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20210409T073032_C001 CCG_Altimeter Range_CSHA_SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20210409T07432_20210409T073032_C001 CCG_Altimeter Range_CSHA_SWH and Backscatter Quality Flags h	CS_OFFL_SIR_IOPM_2_20210409T035615_20210409T041117_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been a strict Range and Backscatter Quality Flags have been a strict Range and Backscatter Quality Flags have been strict Range and Backscatter Quality Flags have been strict Range and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210409T054726_20210409T055047_C001 CS_OFFL_SIR_IOPM_2_20210409T055409_20210409T055047_C001 CS_OFFL_SIR_IOPM_2_20210409T055409_20210409T055747_C001 CS_OFFL_SIR_IOPM_2_20210409T055409_20210409T055747_C001 CS_OFFL_SIR_IOPM_2_20210409T055810_20210409T055747_C001 CS_OFFL_SIR_IOPM_2_20210409T055810_20210409T060138_C001 CS_OFFL_SIR_IOPM_2_20210409T055810_20210409T060138_C001 CS_OFFL_SIR_IOPM_2_20210409T060404_20210409T060138_C001 CS_OFFL_SIR_IOPM_2_20210409T060404_20210409T0602333_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C	CS_OFFL_SIR_IOPM_2_20210409T041350_20210409T041832_C001		
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records. CS_OFFL_SIR_IOPM_2_20210409T055409_20210409T055747_C001 CS_OFFL_SIR_IOPM_2_20210409T055409_20210409T055747_C001 CS_OFFL_SIR_IOPM_2_20210409T055409_20210409T053233_C001 CS_OFFL_SIR_IOPM_2_20210409T050404_20210409T063233_C001 CS_OFFL_SIR_IOPM_2_20210409T060404_20210409T063233_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073032_C001 CS_OF	CS_OFFL_SIR_IOPM_2_20210409T042446_20210409T044749_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210409T052544_20210409T055047_C001 CS_OFFL_SIR_IOPM_2_20210409T054726_20210409T055047_C001 CS_OFFL_SIR_IOPM_2_20210409T055409_20210409T055747_C001 CS_OFFL_SIR_IOPM_2_20210409T055409_20210409T055747_C001 CS_OFFL_SIR_IOPM_2_20210409T055810_20210409T060136_C001 CS_OFFL_SIR_IOPM_2_20210409T050404_20210409T060136_C001 CS_OFFL_SIR_IOPM_2_20210409T060404_20210409T060136_C001 CS_OFFL_SIR_IOPM_2_20210409T060404_20210409T0603233_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T073400_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073702	CS_OFFL_SIR_IOPM_2_20210409T044752_20210409T045151_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210409T055409_20210409T055747_C001 CS_OFFL_SIR_IOPM_2_20210409T055409_20210409T060136_C001 CS_OFFL_SIR_IOPM_2_20210409T055810_20210409T060136_C001 CS_OFFL_SIR_IOPM_2_20210409T060404_20210409T060136_C001 CS_OFFL_SIR_IOPM_2_20210409T060404_20210409T063233_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070409_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070409_20210409T073002_C001 CS_OFFL_SIR_IOPM_2_20210409T070400_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T0738426_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CC_OCA_Altimeter Range_Quality, OCOG_Altimeter Range and Backscatter Quality Flags have been set for one or more records. CC_OCA_Altimeter Range_ALTIMETER Range_ALTIM	CS_OFFL_SIR_IOPM_2_20210409T052544_20210409T054636_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20210409T055810_20210409T060136_C001 CS_OFFL_SIR_IOPM_2_20210409T060404_20210409T063233_C001 CS_OFFL_SIR_IOPM_2_20210409T060404_20210409T063233_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T0781842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20210409T054726_20210409T055047_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20210409T060404_20210409T063233_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T073400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T084328_20210409T084456_C001 CS_OFFL_SIR_IOPM_2_20210409T084328_20210409T084456_C001 CS_OFFL_SIR_IOPM_2_20210409T084328_20210409T084328_20210409T084356_C001 CCG_OFFL_SIR_IOPM_2_20210409T084328_20210409T084356_C001 CCG_OFFL_SIR_IOPM_2_20210409T084328_20210409T084356_C001 CCG_OFFL_SIR_IOPM_2_20210409T084328_20210409T084356_C001 CCG_OFFL_SIR_IOPM_2_20210409T084328_20210409T084356_C001 CCG_OFFL_SIR_IOPM_2_20210409T084338_20210409T084356_C001 CCG_OFFL_SIR_IOPM_2_20210409T084338_20210409T084356_C001 CCG_OFFL_SIR_IOPM_2_20210409T084338_20210409T084356_C001 CCG_OFFL_SIR_IOPM_2_20210409T084338_20210409T084356_C001 CCG_OF	CS_OFFL_SIR_IOPM_2_20210409T055409_20210409T055747_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T084328_20210409T084356_C001 CS_OFFL_SIR_IOPM_2_20210409T084328_20210409T084456_C001	CS_OFFL_SIR_IOPM_2_20210409T055810_20210409T060136_C001		, ,
CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073702_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 CS_OFFL_SIR_IOPM_2_20210409T084338_20210409T084456_C001 CS_OFFL_SIR_IOPM_2_20210409T084338_20210409T084456_C001 CS_OFFL_SIR_IOPM_2_20210409T084338_20210409T084456_C001 CS_OFFL_SIR_IOPM_2_20210409T084338_20210409T084456_C001	CS_OFFL_SIR_IOPM_2_20210409T060404_20210409T063233_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range Quality Flags have DCOG Altimeter Range Range Plantage Plantage Planta	CS_OFFL_SIR_IOPM_2_20210409T070432_20210409T073032_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range	CS_OFFL_SIR_IOPM_2_20210409T073207_20210409T073702_C001		
U.S. OFFI, SIR TOPM / 202104091084328 202104091084456 C001	CS_OFFL_SIR_IOPM_2_20210409T074400_20210409T081842_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20210409T084328_20210409T084456_C001		

CO OFF. 58 COM 3 APPROVINCE (COMPOSITION COMPOSITION C	CS_OFFL_SIR_IOPM_2_20210409T090354_20210409T090516_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
### Reduction Control (1997) Service of the control (1997)	CS_OFFL_SIR_IOPM_2_20210409T090716_20210409T091010_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CRI. CPPL_SRI_OPPL_2_DELONGET_CET_SAL_OCCUSTOMERS (CRITICATION). CRI. CPPL_SRI_OPPL_2_DELONGET_CET_SAL_OCCUSTOMERS. CRITICATION . CRI. CPPL_SRI_OPPL_2_DELONGET_CET_SAL_OCCUSTOMERS. CRITICATION . CRI. CPPL_SRI_OPPL_2_DELONGET_CET_SAL_OCCUSTOMERS. CRITICATION . CRITICATION	CS_OFFL_SIR_IOPM_2_20210409T091206_20210409T091734_C001	_	
See Service Code of the case of single-code code of the case of the ca	CS_OFFL_SIR_IOPM_2_20210409T092323_20210409T095701_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DO CHT _SRIJOPH _ 02210-03110012_CC 00011-0692_CCC CS_OFT _SRIJOPH _ 02210-03110012_CCC 00011-0692_CCC CS_OFT _SRIJOPH _ 02210-03110012_CCC 00011-0692_CCC CS_OFT _SRIJOPH _ 02210-031100012_CCC 00011-0692_CCC CS_OFT _SRIJOPH _ 02210-031100012_CCC 00011-0692_CCC CS_OFT _SRIJOPH _ 02210-031100012_CCC 00011-0692_CCC CS_OFT _SRIJOPH _ 02210-0311000012_CCC 00011-0692_CCC CS_OFT _SRIJOPH _ 02210-0311000012_C	CS_OFFL_SIR_IOPM_2_20210409T101027_20210409T101207_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Description Color	CS_OFFL_SIR_IOPM_2_20210409T102946_20210409T104917_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFF_SR_OPY_2_202104697132042_20154697132052_0001 All refer fromgs and Substance Coulty from the second coulty from the second and substance Coulty from the second and substance Coulty from the second coulty from the second and substance Coulty from the second and substance Coulty from the second coulty from the second and substance Coulty	CS_OFFL_SIR_IOPM_2_20210409T105128_20210409T105632_C001		
CS_OFF_SIR_JOPM_2_2011406T12014_201509T14082_0000 CS_OFF_SIR_JOPM_2_2011406T12014_2015059T14082_0000 CS_OFF_SIR_JOPM_2_2011406T12042_2015059T14082_0000 CS_OFF_SIR_JOPM_2_2011406T12042_2015059T14082_00000 CS_OFF_SIR_JOPM_2_2011406T14042_2015059T14082_00000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20210409T110227_20210409T113555_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Bucksorter Quality CS_OFFI_SIR_IOPM_2_0010124017124292_200144081124495_C001 All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All near Harge and Backsorter Quality Flags in Becksorter Quality All Near Harge and Backsorter Quality Flags in the Benefit All Near Harge A	CS_OFFL_SIR_IOPM_2_20210409T120113_20210409T122409_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and desclosation Quality. COCO Altimeter Range and Backscatier Quality Plags have been after Range and Selection Quality. Plags and	CS_OFFL_SIR_IOPM_2_20210409T123345_20210409T123537_C001		
and flandscatter Quality, CODG Allmeter Range and Backscatter Quality Flags rave been adherent Range and Backscatter Quality Flags are been adherent Range and Backscatter Quality Flags have been adherent Range and Backscatter Quality Flags have been set for a proper part of the COGA Allmeter Range and Backscatter Quality Flags have been set for one or more records. CS OFFL SIR JOPM 2 202104091142182 202104091144181 (2001) CS OFFL SIR JOPM 2 202104091142182 202104091144218 (2010) CS OFFL SIR JOPM 2 202104091142182 20210409114220 (2010) CS OFFL SIR JOPM 2 202104091142182 20210409114220 (2010) CS OFFL SIR JOPM 2 202104091142182 20210409114220 (2010) CS OFFL SIR JOPM 2 202104091163320 202104091150364 (2010) CO OGA Allmeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS OFFL SIR JOPM 2 202104091163320 202104091150364 (2010) CS OFFL SIR JOPM 2 202104091163320 202104091550364 (2011) CS OFFL SIR JO	CS_OFFL_SIR_IOPM_2_20210409T124242_20210409T125425_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210409T130438_20210409T134855_CO01 CS_OFFL_SIR_IOPM_2_20210409T133204_20210409T134855_CO01 CS_OFFL_SIR_IOPM_2_20210409T133204_20210409T134855_CO01 CS_OFFL_SIR_IOPM_2_20210409T135066_20210409T134522_CO01 CS_OFFL_SIR_IOPM_2_20210409T135066_20210409T134525_CO01 CS_OFFL_SIR_IOPM_2_20210409T135066_20210409T134525_CO01 CS_OFFL_SIR_IOPM_2_20210409T135066_20210409T134525_CO01 CS_OFFL_SIR_IOPM_2_20210409T135066_20210409T135066_20210409T135066_20210409T135066_20210409T135066_20210409T135066_20210409T135066_20210409T135066_20210409T135066_20210409T135066_20210409T135066_20210409T135066_20210409T135066_20210409T13506_20210409T135066_20210409T135066_20210409T135066_20210409T13506_20210409T13506_20210409T13506_20210409T13506_20210409T13506_20210409T13506_20210409T13506_20210409T13506_20210409T13506_20210409T1350732_CO01 CS_OFFL_SIR_IOPM_2_20210409T135064_20210409T1350732_CO01 CS_OFFL_SIR_IOPM_2_20210409T135064_20210409T1350732_CO01 CS_OFFL_SIR_IOPM_2_20210409T135064_20210409T1350732_CO01 CS_OFFL_SIR_IOPM_2_20210409T135064_20210409T1350732_CO01 CS_OFFL_SIR_IOPM_2_20210409T135064_20210409T1350732_CO01 CS_OFFL_SIR_IOPM_2_20210409T135064_20210409T1350732_CO01 CS_OFFL_SIR_IOPM_2_20210409T135064_20210409T1350732_CO01 CS_OFFL_SIR_IOPM_2_20210409T135064_20210409T1350732_CO01 CS_OFFL_SIR_IOPM_2_20210409T13506_20210409T1350732_CO01 CS_OFFL_SIR_IOPM_2_20210409T135064_20210409T1350732_CO01 CS_OFFL_SIR_IOPM_2_20210409T135064_20210409T135074_CO01 CO03 Alterneter Range and Backscatter Qua	CS_OFFL_SIR_IOPM_2_20210409T125808_20210409T125957_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and backscatter Quality, OCOG Altimoter Range and Backscatter Quality Flags have been and the OCOG Altimoter Range and Backscatter Quality Flags have been and the OCOG Altimoter Range and Backscatter Quality Flags have been and the OCOG Altimoter Range and Backscatter Quality Flags have been and the OCOG Altimoter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210409T141242_20210409T141449_C001 CS_OFFL_SIR_IOPM_2_20210409T141242_20210409T141951_C001 CS_OFFL_SIR_IOPM_2_20210409T141242_20210409T141951_C001 CS_OFFL_SIR_IOPM_2_20210409T141242_20210409T141951_C001 CS_OFFL_SIR_IOPM_2_20210409T14238_20210409T143425_C001 CS_OFFL_SIR_IOPM_2_20210409T14238_20210409T14488_C001 CS_OFFL_SIR_IOPM_2_20210409T142304_20210409T14488_C001 CS_OFFL_SIR_IOPM_2_20210409T143042_20210409T14488_C001 CS_OFFL_SIR_IOPM_2_20210409T150642_20210409T150732_C001 CS_OFFL_SIR_IOPM_2_20210409T150642_20210409T150764_C001 CS_OFFL_SIR_IOPM_2_20210409T150642_20210409T150764_C001 CS_OFFL_SIR_IOPM_2_20210409T150642_20210409T150764_C001 CS_OFFL_SIR_IOPM_2_20210409T150642_20210409T150764_C001 CS_OFF	CS_OFFL_SIR_IOPM_2_20210409T130438_20210409T131316_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been at the coco Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20210409T141242_20210409T141449_C001 CS_OFFL_SIR_JOPM_2_20210409T141542_20210409T1414851_C001 CS_OFFL_SIR_JOPM_2_20210409T141542_20210409T141851_C001 CS_OFFL_SIR_JOPM_2_20210409T141542_20210409T141851_C001 CS_OFFL_SIR_JOPM_2_20210409T141542_20210409T141851_C001 CS_OFFL_SIR_JOPM_2_20210409T143425_C001 CS_OFFL_SIR_JOPM_2_20210409T143904_20210409T144826_C001 CS_OFFL_SIR_JOPM_2_20210409T150642_20210409T150732_C001 CS_OFFL_SIR_JOPM_2_20210409T150642_20210409T150732_C001 CS_OFFL_SIR_JOPM_2_20210409T150642_20210409T150732_C001 CS_OFFL_SIR_JOPM_2_20210409T150642_20210409T150732_C001 CS_OFFL_SIR_JOPM_2_20210409T150642_20210409T150732_C001 CS_OFFL_SIR_JOPM_2_20210409T150642_20210409T156864_C001 CS_OFFL_SIR_JOPM_2_20210409T150642_20210409T156864_C001 CS_OFFL_SIR_JOPM_2_20210409T150642_20210409T156864_C001 CS_OFFL_SIR_JOPM_2_20210409T150642_20210409T156864_C001 CS_OFFL_SIR_JOPM_2_20210409T150642_20210409T156864_C001 CS_OFFL_SIR_JOPM_2_20210409T150642_20210409T156864_C001 CS_OFFL_SIR_JOPM_2_20210409T150642_20210409T156864_C001 CS_OFFL_SIR_JOPM_2_20210409T156042_20210409T156864_C001 CS_OFFL_SIR_JOPM_2_20210409T16013_20210409T165864_C001 CS_OFFL_SIR_JOPM_2_20210409T165040_20210409T165864_C001 CS_OFFL_SIR_JOPM_2_20210409T165040_20210409T165864_C001	CS_OFFL_SIR_IOPM_2_20210409T133204_20210409T134855_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Sign for one or more records. CS_OFFL_SIR_IOPM_2_20210409T141542_20210409T141951_C001 CS_OFFL_SIR_IOPM_2_20210409T141542_20210409T143425_C001 CS_OFFL_SIR_IOPM_2_20210409T142138_20210409T143425_C001 CS_OFFL_SIR_IOPM_2_20210409T143904_20210409T143425_C001 CS_OFFL_SIR_IOPM_2_20210409T143904_20210409T14826_C001 CS_OFFL_SIR_IOPM_2_20210409T143904_20210409T150732_C001 CS_OFFL_SIR_IOPM_2_20210409T150642_20210409T150732_C001 CS_OFFL_SIR_IOPM_2_20210409T150642_20210409T150732_C001 CS_OFFL_SIR_IOPM_2_20210409T150642_20210409T150732_C001 CS_OFFL_SIR_IOPM_2_20210409T150642_20210409T1577_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T160179_C001 CS_OFFL_SIR_IOPM_2_20210409T160	CS_OFFL_SIR_IOPM_2_20210409T135056_20210409T140522_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS OFFL SIR IOPM 2 20210409T142138 20210409T143425 C001 CS OFFL SIR IOPM 2 20210409T142138 20210409T143425 C001 CS OFFL SIR IOPM 2 20210409T143094 20210409T14326 C001 CS OFFL SIR IOPM 2 20210409T150642 20210409T150732 C001 CS OFFL SIR IOPM 2 20210409T150740 C0010409T150743 C001 CS OFFL SIR IOPM 2 20210409T150740 C0010409T150743 C001 CS OFFL SIR IOPM 2 20210409T150740 C0010409T150743 C001 CS OFFL SIR IOPM 2 20210409T160713 20210409T16779 C001 CS OFFL SIR IOPM 2 20210409T160713 20210409T16779 C001 CS OFFL SIR IOPM 2 20210409T160713 20210409T16779 C001 CS OFFL SIR IOPM 2 20210409T160713 20210409T162540 C001 CS OFFL SIR IOPM 2 20210409T160713 20210409T162540 C001 CS OFFL SIR IOPM 2 20210409T160713 20210409T162540 C001 CS OFFL SIR IOPM 2 20210409T162022 20210409T162540 C001 CS OFFL SIR IOPM 2 20210409T162032 20210409T162540 C001 CS OFFL SIR IOPM 2 20210409T162032 20210409T162540 C001 CS OFFL SIR IOPM 2 20210409T162032 20210409T162540 C001 CS OFFL SIR IOPM 2 20210409T160713 202104	CS_OFFL_SIR_IOPM_2_20210409T141242_20210409T141449_C001		
S_OFFL_SIR_IOPM_2_20210409T142138_20210409T143425_C001 and Backscatter Quality, COOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210409T143904_20210409T14826_C001 CS_OFFL_SIR_IOPM_2_20210409T150642_20210409T150732_C001 CS_OFFL_SIR_IOPM_2_20210409T150642_20210409T150732_C001 CS_OFFL_SIR_IOPM_2_20210409T150642_20210409T150732_C001 CS_OFFL_SIR_IOPM_2_20210409T151606_20210409T152757_C001 CS_OFFL_SIR_IOPM_2_20210409T153320_20210409T152757_C001 CS_OFFL_SIR_IOPM_2_20210409T153320_20210409T152757_C001 CS_OFFL_SIR_IOPM_2_20210409T153320_20210409T154743_C001 CS_OFFL_SIR_IOPM_2_20210409T155040_20210409T155854_C001 CS_OFFL_SIR_IOPM_2_20210409T155040_20210409T155854_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T16719_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T16540_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T16540_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T165540_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T165540_C00	CS_OFFL_SIR_IOPM_2_20210409T141542_20210409T141951_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality CS_OFFL_SIR_IOPM_2_20210409T150642_20210409T150732_C001 CS_OFFL_SIR_IOPM_2_20210409T151608_20210409T152757_C001 CS_OFFL_SIR_IOPM_2_20210409T151608_20210409T152757_C001 CS_OFFL_SIR_IOPM_2_20210409T151608_20210409T152757_C001 CS_OFFL_SIR_IOPM_2_20210409T153320_20210409T154743_C001 CS_OFFL_SIR_IOPM_2_20210409T153320_20210409T154743_C001 CS_OFFL_SIR_IOPM_2_20210409T155040_20210409T155854_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T16719_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T16719_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T160113_20210409T162540_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T162540_C001 CS_OFFL_SIR_IOPM_2_20210409T160109T162540_C001 CS_OFFL_SIR_IOPM_2_20210409T160109T162540_C001 CC	CS_OFFL_SIR_IOPM_2_20210409T142138_20210409T143425_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20210409T151606_20210409T152757_C001 Backscatter Quality CS_OFFL_SIR_IOPM_2_20210409T151606_20210409T152757_C001 CS_OFFL_SIR_IOPM_2_20210409T153320_20210409T154743_C001 CS_OFFL_SIR_IOPM_2_20210409T153320_20210409T155854_C001 CS_OFFL_SIR_IOPM_2_20210409T15040_20210409T155854_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T16719_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T162540_C001 Backscatter Quality CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T162540_C001 Backscatter Quality CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T162540_C001 Backscatter Quality CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T162540_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T162540_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T162540_C001 CS_OFFL_SIR_IOPM_2_20210409T160102_20210409T162540_C001 CS_OFFL_SIR_IOPM_2_20210409T160102_20210409T162540_C001 CS_OFFL_SIR_IOPM_2_20210409T160102_20210409T162540_C001 CS_OFFL_SIR_IOPM_2_20210409T160102_20210409T162540_C001 CS_OFFL_SIR_IOPM_2_20210409T160102_20210409T162540_C001 CS_OFFL_SIR_IOPM_2_20210409T160102_20210409T160102_20010409T16	CS_OFFL_SIR_IOPM_2_20210409T143904_20210409T144826_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20210409T153320_20210409T154743_C001 CS_OFFL_SIR_IOPM_2_20210409T153320_20210409T155854_C001 CS_OFFL_SIR_IOPM_2_20210409T155040_20210409T155854_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T16719_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T16719_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T162540_C001 CS_OFFL_SIR_IOPM_2_20210409T162022_20210409T162540_C001 CS_OFFL_SIR_IOPM_2_20210409T165300_20210409T165906_C001 CS_OFFL_SIR_IOPM_2_20210409T165300 20210409T165906_C001 CS_OFFL_SIR_IOPM_2_20210409T165300 20210409T165906_C001 CS_OFFL_SIR_IOPM_2_20210409T165300 20210409T165906	CS_OFFL_SIR_IOPM_2_20210409T150642_20210409T150732_C001		
CS_OFFL_SIR_IOPM_2_20210409T153320_20210409T154743_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210409T155040_20210409T155854_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T161719_C001 CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T161719_C001 CS_OFFL_SIR_IOPM_2_20210409T162022_20210409T162540_C001 CS_OFFL_SIR_IOPM_2_20210409T162022_20210409T162540_C001 CS_OFFL_SIR_IOPM_2_20210409T162022_20210409T162540_C001 CS_OFFL_SIR_IOPM_2_20210409T165300_20210409T165306_C001 CS_OFFL_SIR_IOPM_2_20210409T165300_20210409T16530	CS_OFFL_SIR_IOPM_2_20210409T151606_20210409T152757_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20210409T153040_20210409T161719_C001 Backscatter Quality CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T161719_C001 CS_OFFL_SIR_IOPM_2_20210409T162022_20210409T162540_C001 CS_OFFL_SIR_IOPM_2_20210409T162022_20210409T162540_C001 Backscatter Quality Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210409T165300_20210409T165906_C001 CS_OFFL_SIR_IOPM_2_20210409T165300_20210409T165906_C001 CS_OFFL_SIR_IOPM_2_20210409T165300_20210409T165906_C001 CS_OFFL_SIR_IOPM_2_20210409T165300_20210409T165906_C001 CS_OFFL_SIR_IOPM_2_20210409T165300_20210409T165906_C001	CS_OFFL_SIR_IOPM_2_20210409T153320_20210409T154743_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T161719_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20210409T155040_20210409T155854_C001		
CS_OFFL_SIR_IOPM_2_20210409T162022_20210409T162540_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range and Backscatter Quality Flags have been set occurred by the ocog Altimeter Range	CS_OFFL_SIR_IOPM_2_20210409T160113_20210409T161719_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
US OFFI SIR 10PM / 202104091165300 202104091165906 C001	CS_OFFL_SIR_IOPM_2_20210409T162022_20210409T162540_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20210409T165300_20210409T165906_C001		, ,

CS_OFFL_SIR_IOPM_2_20210409T165953_20210409T170307_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210409T170310_20210409T172655_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210409T173213_20210409T173726_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_IOPM_2_20210409T174015_20210409T180520_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210409T183720_20210409T190530_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210409T191139_20210409T191743_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_IOPM_2_20210409T191909_20210409T194713_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210409T194716_20210409T194809_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_IOPM_2_20210409T195542_20210409T195656_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210409T201051_20210409T204436_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210409T205049_20210409T205615_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_IOPM_2_20210409T205754_20210409T210406_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210409T213449_20210409T213757_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210409T215013_20210409T215853_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210409T220137_20210409T222401_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210409T223057_20210409T223506_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_IOPM_2_20210409T223707_20210409T225641_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210409T232840_20210410T000213_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T023949_20210409T023956_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_IOPN_2_20210409T042024_20210409T042401_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T084903_20210409T085030_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_IOPN_2_20210409T140615_20210409T140746_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T140918_20210409T141242_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_IOPN_2_20210409T180808_20210409T180836_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_IOPN_2_20210409T222628_20210409T222948_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_IOPR_2_20210409T015910_20210409T015922_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_IOPR_2_20210409T034759_20210409T035615_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T145852_20210409T150050_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T182005_20210409T182509_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T222401_20210409T222628_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range 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.

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Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20210409T000455_20210409T000737_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_IOPN_2_20210409T000746_20210409T000912_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T010303_20210409T010450_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T014145_20210409T014551_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_IOPN_2_20210409T015345_20210409T015437_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T020138_20210409T020322_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_IOPN_2_20210409T024116_20210409T024345_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T024615_20210409T024737_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T030157_20210409T030518_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_IOPN_2_20210409T031813_20210409T031936_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_IOPN_2_20210409T032146_20210409T032458_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_IOPN_2_20210409T041133_20210409T041350_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T052308_20210409T052544_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_IOPN_2_20210409T055139_20210409T055409_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T060136_20210409T060318_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T065116_20210409T065138_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T065938_20210409T070044_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_IOPN_2_20210409T073040_20210409T073207_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T074038_20210409T074218_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_IOPN_2_20210409T085058_20210409T085308_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_IOPN_2_20210409T085317_20210409T085415_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_IOPN_2_20210409T091734_20210409T092049_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T102715_20210409T102946_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_IOPN_2_20210409T123107_20210409T123345_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_IOPN_2_20210409T123537_20210409T124133_C001	Tand Backscatter Challty PLRIVE CLCC.	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T132623_20210409T132744_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_IOPN_2_20210409T140615_20210409T140746_C001	TAITIMETER RANGE AND BACKSCATTER CHAITIVE	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T141449_20210409T141542_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_IOPN_2_20210409T141951_20210409T142127_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T144826_20210409T145033_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_IOPN_2_20210409T150732_20210409T150827_C001	TAITIMETER RANGE AND BACKSCATTER CHAILTY	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T152757_20210409T153320_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_IOPN_2_20210409T154840_20210409T155040_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T162540_20210409T162928_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_IOPN_2_20210409T163009_20210409T163047_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_IOPN_2_20210409T164450_20210409T165036_C001	Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T173726_20210409T173851_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_IOPN_2_20210409T180520_20210409T180621_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_IOPN_2_20210409T181807_20210409T181838_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_IOPN_2_20210409T191743_20210409T191909_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T200711_20210409T201051_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_IOPN_2_20210409T204724_20210409T205049_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T212919_20210409T212930_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_IOPN_2_20210409T222628_20210409T222948_C001	PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210409T223506_20210409T223629_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

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

CS_OFFL_SIR_IOPR_2_20210409T113555_20210409T113755_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_IOPR_2_20210409T113921_20210409T114622_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T114622_20210409T115050_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T115055_20210409T120113_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T124133_20210409T124242_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T132512_20210409T132623_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T134855_20210409T135056_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_IOPR_2_20210409T140746_20210409T140918_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T143703_20210409T143904_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_IOPR_2_20210409T145852_20210409T150050_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_IOPR_2_20210409T150827_20210409T151013_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T151119_20210409T151307_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_IOPR_2_20210409T151445_20210409T151606_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_IOPR_2_20210409T163913_20210409T164450_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T165036_20210409T165300_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T181600_20210409T181807_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T182005_20210409T182509_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T195353_20210409T195542_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_IOPR_2_20210409T195656_20210409T200711_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T204436_20210409T204724_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T213046_20210409T213332_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_IOPR_2_20210409T213757_20210409T214607_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T215853_20210409T220137_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T222401_20210409T222628_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210409T230717_20210409T231044_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_IOPR_2_20210409T231044_20210409T231606_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

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

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and 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: 196

5.8 L2 Ocean Retracking Quality Check

L2 Retracking 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 over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors: 62

L2 Retracking 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 IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors: 151

6. IOP L2 Pole-to-Pole Data Quality Check

6.1 P2P 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 NetCDF product file (.nc).

Number of products with errors:

6.2 P2P 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:

6.3 P2P 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: 0

6.4 P2P Auxiliary Correction Error Check

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

0

0

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. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > 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.

Product		Description
CS_OFFL_SIR_IOP_220210408T232100_20210409T001036_C002	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220210409T001036_20210409T010014_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 1)
CS_OFFL_SIR_IOP_220210409T010014_20210409T014951_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 1)
CS_OFFL_SIR_IOP_220210409T014951_20210409T023929_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 1)
CS_OFFL_SIR_IOP_220210409T023929_20210409T032906_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220210409T032906_20210409T041844_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 1)
CS_OFFL_SIR_IOP_220210409T041844_20210409T050820_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 1)
CS_OFFL_SIR_IOP_220210409T050820_20210409T055758_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 1)
CS_OFFL_SIR_IOP_220210409T055758_20210409T064735_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 1)
CS_OFFL_SIR_IOP_220210409T073713_20210409T082650_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 1)
CS_OFFL_SIR_IOP_220210409T082650_20210409T091628_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 1)

	I	I
CS_OFFL_SIR_IOP_220210409T091628_20210409T100604_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 1)
CS_OFFL_SIR_IOP_220210409T100604_20210409T105542_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 1)
CS_OFFL_SIR_IOP_220210409T105542_20210409T114519_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220210409T114519_20210409T123457_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 1)
CS_OFFL_SIR_IOP_220210409T123457_20210409T132434_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 1)
CS_OFFL_SIR_IOP_220210409T132434_20210409T141412_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220210409T141412_20210409T150348_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 1)
CS_OFFL_SIR_IOP_220210409T150348_20210409T155326_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 1)
CS_OFFL_SIR_IOP_220210409T155326_20210409T164303_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 1)
CS_OFFL_SIR_IOP_220210409T164303_20210409T173241_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220210409T173241_20210409T182218_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 1)
CS_OFFL_SIR_IOP_220210409T182218_20210409T191156_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220210409T191156_20210409T200133_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 1)
CS_OFFL_SIR_IOP_220210409T200133_20210409T205110_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 1)
CS_OFFL_SIR_IOP_220210409T205110_20210409T214047_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 1)
CS_OFFL_SIR_IOP_220210409T214047_20210409T223025_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 1)
CS_OFFL_SIR_IOP_220210409T223025_20210409T232002_C001		Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOP_220210409T232002_20210410T000940_C002	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 1)

6.5 P2P Measurement Confidence Data Check

CryoSat P2P 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:

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

CryoSat P2P data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors: 29

P2P Quality Flags (20Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors: 28

P2P Quality Flags (1 Hz & 1Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors: 2

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors: 28

P2P Retracking Flags 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 IOPR and IOPN products over sea ice, but this is to be expected.

29

7. IOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	188	188	5	183	0
SIR_IOPR1B	128	99	1	98	0
SIR_IOPN1B	99	128	0	128	0
SIR_IOPM_2	188	188	133	55	0
SIR_IOPR_2	128	99	38	61	0
SIR_IOPN_2	99	128	37	87	4
SIR_IOP_P2P	28	28	0	27	1

7.1 QCC Errors

Number of QCC reports with errors:

13

		_		_	_
Total	number	of occ	urrences	s of ea	ch error

Product Type	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_IOPR_2	4	1	4	4	1	4					
-			•				,				•
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-

Test Description Key:					
Abbreviation	Test name	Details			
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7			
RL	RangeLatitude_6	Latitude should be between -90E6 and 90E6			
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7			
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7			
RL	RangeLongitude_6	Longitude should be between -180E6 and 180E6			
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7			

7.2 QCC Warnings

Number of QCC reports with warnings

1987

Total number of occurrences of each warming								
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	
SIR_IOPM1B	183	0	0	0	0	0	0	
SIR_IOPM_2	0	0	41	37	0	41	0	
SIR_IOPN1B	95	0	0	0	0	0	0	
SIR_IOPN_2	0	0	9	28	7	26	24	
SIR_IOPR1B	124	0	0	0	0	0	0	
SIR IOPR 2	0	4	31	50	0	32	29	

Product Type	RBSZOPOEPNCDF	RDTCONCDF	RIBCONCDF	RMSSGHOPONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	38	0	0	1	0	35	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	16	1	1	0	0	0	0
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	18	0	0	0	1	0	50

Product Type	RPEPOPFDP	LRMSINNCD RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	0	0	0	28	0	0	8
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	20	0	26	0	0	22	14
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	59	0	0	52	0	6

Product Type	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF
SIR_IOPM1B	0	0	0	0	0	0	1
SIR_IOPM_2	28	0	5	36	0	6	1
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	35	51	25	25	26	11	0
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	67	31	9	35	49	5	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_IOP_2_	16	28	28	6	28	17	28
				•			
Product Type	RDTCONCDF	RIBCONCDF	RMSSGHOPONCDF	RNELPOTONCDF	RPEPOPFDPLRMSINNC	DIRPEPOPFDSINNCDF	RPEPOPSINNCDF
015 105 0	4	4	4	4	4.4	00	47

Product Type	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF
SIR_IOP_2_	15	28	18	21	28	18	16
Product Type	SPHLPQWNCDF	-	-	-	-	-	-
SIR IOP 2	28						

Test Description Key:						
Abbreviation	Test name	Details				
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter				
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)				
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only				
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RDTCONCDF	RangeDryTroposphericCorrectionOceanNetCDF	The Dry tropospheric correction should be between -2500mm and -1900mm (or missing) for surface type = ocean - NetCDF				
RIBCONCDF	RangeInverseBarometricCorrectionOceanNetCDF	The Inverse barometric correction should be between -2000mm and 2000mm (or missing) for surface type = ocean - NetCDF				

RMSSGHOPONCDF	RangeMSSGeoidHeightOPOceanNetCDF	The MSS/geoid height should be between -106000mm and 88000mm (or missing) for surface type = ocean - NetCDF
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)

7.3 Missing QCC Reports

Number of products with missing QCC reports:

Product name

No IOPX reports missing

Product name

CS_OFFL_SIR_IOP_2__20210409T232002_20210410T000940_C002