

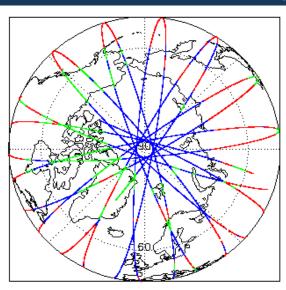
# 1. Overview

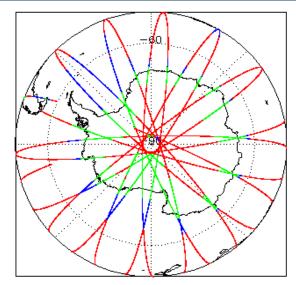
Report Production:	14-Apr-2020
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

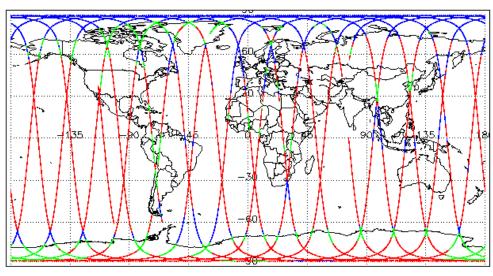
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary 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

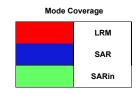
Mission / Instru	iment News
06-Apr-2020	None
07-Apr-2020	None
08-Apr-2020	Nothing planned

# 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:

### 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:

Ω

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:

Λ

#### 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:

14

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20200407T023427_20200407T024257_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20200407T204742_20200407T205713_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200407T085918_20200407T090028_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200407T112121_20200407T112311_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200407T140041_20200407T140511_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200407T151913_20200407T152108_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200407T152805_20200407T152903_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200407T202807_20200407T203041_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200407T220458_20200407T220923_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200407T035324_20200407T040117_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200407T170055_20200407T170400_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200407T170400_20200407T170827_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200407T220157_20200407T220412_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200407T234745_20200407T235626_C001	Loss of Echo	The tracking echo is missing for one or more records

### 5. IOP Level 2 Data Quality Check

### 5.1 L2 Product Format Check

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

Number of products with errors:

0

### 5.2 L2 Product Header Analysis

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

Number of products with errors:

0

#### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200406T235747_20200407T002632_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20200407T123058_20200407T123318_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200407T030435_20200407T030550_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200407T031329_20200407T031444_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_IOPN_2_20200407T044349_20200407T044512_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_IOPN_2_20200407T045021_20200407T045331_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_IOPN_2_20200407T062436_20200407T062721_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_IOPN_2_20200407T062924_20200407T063453_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_IOPN_2_20200407T072016_20200407T072242_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_IOPN_2_20200407T080357_20200407T080634_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_IOPN_2_20200407T085918_20200407T090028_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_IOPN_2_20200407T090143_20200407T090333_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200407T103836_20200407T104336_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_IOPN_2_20200407T112121_20200407T112311_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200407T113126_20200407T113349_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_IOPN_2_20200407T121840_20200407T122258_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200407T144055_20200407T144430_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_IOPN_2_20200407T162014_20200407T162334_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_IOPN_2_20200407T171100_20200407T171214_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_IOPN_2_20200407T180749_20200407T180858_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200407T194452_20200407T194642_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_IOPN_2_20200407T202807_20200407T203041_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_IOPN_2_20200407T225354_20200407T225638_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_IOPN_2_20200407T234357_20200407T234745_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_20200407T003758_20200407T004636_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_20200407T021536_20200407T022311_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_20200407T023229_20200407T023427_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_20200407T035324_20200407T040117_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_20200407T040117_20200407T040239_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_20200407T053332_20200407T054015_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_20200407T054015_20200407T054417_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_20200407T071448_20200407T071909_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)

		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200407T085242_20200407T085521_C001 Mean	1 Dynamic Topography (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) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200407T090333_20200407T090747_C001		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 OFFE SIR IOPR 2 202004071103215 202004071103836 C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 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 MSS height (solution 1) and the Mean Dynamic Topography height (solution 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 MSS height (solution 1) and the Mean Dynamic Topography height (solution 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 MSS height (solution 1) and the Mean Dynamic Topography height (solution 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 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:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200406T235747_20200407T002632_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_20200407T002635_20200407T002649_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_20200407T004810_20200407T004851_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_20200407T005832_20200407T012412_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_20200407T012551_20200407T013054_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_20200407T013101_20200407T013429_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_20200407T013753_20200407T021208_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_20200407T023427_20200407T024257_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_20200407T025739_20200407T030354_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_20200407T030550_20200407T031126_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

Dept. SRI (PPM 2 2005867T001052 (200040TT00105 C00)  SRIPL SRI (PPM 2 2005867T00105 (200040TT00105 C00)  SRIPL SRI (PPM 2 2005867T00105 (200040TT00105 C00)  COOR Afference Respond State (C00)  COOR Afference Re	CS_OFFL_SIR_IOPM_2_20200407T031710_20200407T035050_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.
DESIGNATION DE 20038007T04512 20038007T04502 C061  DESIGNATION DE 20038007T04512 20038007T04502 C061  DESIGNATION DE 20038007T04513 20038007T04502 C061  DESIGNATION DE 20038007T04513 20038007T04513 20038007T04502 C061  DESIGNATION DE 20038007T04513 20038007T04513 20038007T04502 C061  DESIGNATION DE 20038007T04513 20038007T04502 C061  DESIGNATION DE 20038007T04513 20038007T04503 C061  DESIGNATION DE 20038007T04503 20038007T04503 200381  DE 20038007T04503 20038007T04503 20038007T04503 200381	CS_OFFL_SIR_IOPM_2_20200407T040430_20200407T040529_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Resident Quality  CS_CPTL_SR_CPM_2_X00006710809_20000710000_001  CS_CPTL_SR_CPM_2_X00006710809_20000710000_001  CS_CPTL_SR_CPM_2_X00006710809_20000710000_001  CS_CPTL_SR_CPM_2_X00006710809_20000710000_001  CS_CPTL_SR_CPM_2_X000067100001_200000710000_001  CS_CPTL_SR_CPM_2_X000067100001_200000710000_001  CS_CPTL_SR_CPM_2_X000067100001_200000710000_001  CS_CPTL_SR_CPM_2_X000067100001_200000710000_001  CS_CPTL_SR_CPM_2_X000067100001_200000710000_001  CS_CPTL_SR_CPM_2_X000067100001_200000710000_001  CS_CPTL_SR_CPM_2_X000067100001_20000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20200407T042356_20200407T044311_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
co OPEL SRI (DPM 2 2000007189192 2000007189192 2001  CR OPPL SRI (DPM 2 2000007189192 2000007189192 2001  CR OPPL SRI (DPM 2 2000007189192 2000007189192 2001  CR OPPL SRI (DPM 2 2000007189192 2000007189391 2001  CR OPPL SRI (DPM 2 2000007189192 2000007189391 2001  CR OPPL SRI (DPM 2 2000007189391 20010007189391 2001  CR OPPL SRI (DPM 2 2000007189391 200100007189391 2001  CR OPPL SRI (DPM 2 2000007189391 2001000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20200407T044512_20200407T045021_C001		
Seg. OFFL_SRI_OFM_2_20206407180013_20200407100024_C001  Seg. DePFL_SRI_OFM_2_20206407180772_20200407100024_C001  Seg. DeFFL_SRI_OFM_2_20206407180772_20200407100021_C001  Coc. OFFL_SRI_OFM_2_20206407180202_20200407100021_C001  Seg. DeFFL_SRI_OFM_2_20206407180202_20200407100021_C001  Seg. DeFFL_SRI_OFM_2_20206407180202_20200407100022_C001  Seg. DeFFL_SRI_OFM_2_20206407180202_20200407100022_C001  Seg. DeFFL_SRI_OFM_2_20206407180202_20200407100022_C001  Seg. DeFFL_SRI_OFM_2_20206407180202_20200407100022_C0	CS_OFFL_SIR_IOPM_2_20200407T045618_20200407T053029_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Saccester Casilly Saccester Ca	CS_OFFL_SIR_IOPM_2_20200407T060013_20200407T061750_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFF_SR_OPM_2_2020407T00385_2020407T00385_CDD1  CS_OFF_SR_OPM_2_20204007T00385_2020407T00385_CDD1  CS_OFF_SR_OPM_2_20204007T00385_2020407T00385_CDD1  CS_OFF_SR_OPM_2_20204007T00385_2020407T00385_CDD1  CS_OFF_SR_OPM_2_20204007T00385_2020407T00385_CDD1  CS_OFF_SR_OPM_2_20204007T00385_2020407T00385_CDD1  CS_OFF_SR_OPM_2_20204007T00385_2020407T00385_CDD1  CS_OFF_SR_OPM_2_20204007T00385_2020407T00485_CDD1  CS_OFF_SR_OPM_2_20204007T00385_2020407T	CS_OFFL_SIR_IOPM_2_20200407T062721_20200407T062924_C001	0 7	
and Backscater Caulity, CODE Allmeter Range and Backscater Caulity, CODE Allmeter Range and Backscater Caulity Code Allmeter Range Caulity Code Allmete	CS_OFFL_SIR_IOPM_2_20200407T063628_20200407T065301_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and deadscater Quality Flags have been after Custom Range and Backscater Quality Flags have been set for one or more records.  CS_OFFL_SIR_JOPM_2_20200407107404_2000  CS_OFFL_SIR_JOPM_2_202004071074032_2000407107525_0001  CS_OFFL_SIR_JOPM_2_202004071076033_2000407108033_0001  CS_OFFL_SIR_JOPM_2_20200407108033_2000407108033_0001  CS_OFFL_SIR_JOPM_2_20200407108033_2000407108033_00004  CS_OFFL_SIR_JOPM_2_20200407108	CS_OFFL_SIR_IOPM_2_20200407T065340_20200407T065625_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sedecated roughly for one or more records.  CS_OFFL_SIR_JOPM_2_2020407T072528_2020407T075326_C001  Ocean Altimeter Range and Backscater Quality Flags have been set for one or more records.  CS_OFFL_SIR_JOPM_2_20200407T080834_20200407T080834_C001  OCOG Altimeter Range Quality, OCOG Backscater Quality, OCOG Backscater Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality, OCOG Backscater Quality Flags have been set for one or more records.  OCS_OFFL_SIR_JOPM_2_20200407T08128_20200407T083056_C001  Altimeter Range, SSHA_SIVH and Backscater Quality Flags have been set for one or more records.  OCS_OFFL_SIR_JOPM_2_20200407T08128_20200407T083056_C001  Altimeter Range, SSHA_SIVH and Backscater Quality Flags have been set for one or more records.  OCS_OFFL_SIR_JOPM_2_20200407T08128_20200407T083056_C001  Altimeter Range, SSHA_SIVH and Backscater Quality Flags have been set for one or more records.  OCS_OFFL_SIR_JOPM_2_20200407T083257_20200407T083436_C001  Altimeter Range, SSHA_SIVH and Backscater Quality Flags have been set for one or more records.  OCS_OFFL_SIR_JOPM_2_20200407T083257_20200407T084136_C001  Altimeter Range and Backscater Quality Flags have been set for one or more records.  OCS_OFFL_SIR_JOPM_2_20200407T08028_20200407T080138_C001  Altimeter Range and Backscater Quality Flags have been set for one or more records.  OCS_OFFL_SIR_JOPM_2_20200407T08028_20200407T090138_C001  Altimeter Range and Backscater Quality Flags have been set for one or more records.  OCS_OFFL_SIR_JOPM_2_20200407T09033_20200407T090138_C001  Altimeter Range and Backscater Quality Flags have been set for one or m	CS_OFFL_SIR_IOPM_2_20200407T065825_20200407T070536_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality Flags have been self to come or more records.  CS_OFFL_SIR_JOPM_2_2020407107423_2020497107423_00001  CS_OFFL_SIR_JOPM_2_2020407108084_2020407108034_C001  CS_OFFL_SIR_JOPM_2_2020407108084_2020407108035_C001  CS_OFFL_SIR_JOPM_2_20204071080945_2020407108035_C001  CS_OFFL_SIR_JOPM_2_20204071080945_2020407108035_C001  CS_OFFL_SIR_JOPM_2_20204071080945_2020407108035_C001  CS_OFFL_SIR_JOPM_2_20204071080945_2020407108035_C001  CS_OFFL_SIR_JOPM_2_20204071080945_2020407108035_C001  CS_OFFL_SIR_JOPM_2_20204071080945_2020407108035_C001  CS_OFFL_SIR_JOPM_2_20204071080945_2020407108095_C001  CS_OFFL_SIR_JOPM_2_20204071080945_2020407108095_C001  CS_OFFL_SIR_JOPM_2_20204071080945_2020407108095_C001  CS_OFFL_SIR_JOPM_2_2020407108095_2020407108095_C001  CS_OFFL_SIR_JOPM_2_2020407108095_2020407109095_2020407109095_C001  CS_OFFL_SIR_JOPM_2_2020407109095_2020407109095_1001  CS_OFFL_SIR_JOPM_2_2020407109095_2020407109095_1001  CCS_OFFL_SIR_JOPM_2_2020407109095_2020407109095_1001  CCS_OFFL_SIR_JOPM_2_2020407109095_2020407109095_1001  CCS_OFFL_SIR_JOPM_2_2020407109095_2020407109095_1001  CCS_OFFL_SIR_JOPM_2_2020407109095_2020407109095_1001  CCS_OFFL_SIR_JOPM_2_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_2020407109095_202040710909	CS_OFFL_SIR_IOPM_2_20200407T071047_20200407T071048_C001		
and Backscatter Quality, COG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_JOPM_2_20200407T080844_20200407T080844_C001  CS_OFFL_SIR_JOPM_2_20200407T080945_20200407T080385_C001  CS_OFFL_SIR_JOPM_2_20200407T080945_20200407T080385_C001  CS_OFFL_SIR_JOPM_2_20200407T080945_20200407T080385_C001  CS_OFFL_SIR_JOPM_2_20200407T080945_20200407T080395_C001  CS_OFFL_SIR_JOPM_2_20200407T080945_20200407T080395_C001  CS_OFFL_SIR_JOPM_2_20200407T080945_20200407T080945_C001  CS_OFFL_SIR_JOPM_2_20200407T080945_20200407T080945_C001  CS_OFFL_SIR_JOPM_2_20200407T080945_20200407T080945_C001  CS_OFFL_SIR_JOPM_2_20200407T080945_20200407T080945_C001  CS_OFFL_SIR_JOPM_2_20200407T080945_20200407T080945_C001  CS_OFFL_SIR_JOPM_2_20200407T080943_20200407T090143_C001  CS_OFFL_SIR_JOPM_2_20200407T080945_20200407T090143_C001  CS_OFFL_SIR_JOPM_2_20200407T080953_20200407T090143_C001  CS_OFFL_SIR_JOPM_2_20200407T080953_20200407T090143_C001  CS_OFFL_SIR_JOPM_2_20200407T080953_20200407T090143_C001  CS_OFFL_SIR_JOPM_2_20200407T080953_20200407T090143_C001  CS_OFFL_SIR_JOPM_2_20200407T080953_20200407T090143_C001  CS_OFFL_SIR_JOPM_2_20200407T080953_20200407T090143_C001  CS_OFFL_SIR_JOPM_2_20200407T080953_20200407T090143_C001  CS_OFFL_SIR_JOPM_2_20200407T080953_20200407T090149_C001  CS_OFFL_SIR_JOPM_2_20200407T080953_20200407T090149_C001  CS_OFFL_SIR_JOPM_2_20200407T080953_20200407T090953_C001  CS_OFFL_SIR_JOPM_2_20200407T080953_20200407T090953_C001  CS_OFFL_SIR_JOPM_2_20200407T080943_20200407T090953_C001  CS_OFFL_SIR_JOPM_2_20200407T080943_20200407T090953_C001  CS_OFFL_SIR_JOPM_2_20200407T080943_20200407T090953_C001  CS_OFFL_SIR_JOPM_2_20200407T080943_20200407T090953_C001  CS_OFFL_SIR_JOPM_2_20200407T080443_20200407T090953_C001  CS_OFFL_SIR_JOPM_2_20200407T080443_20200407T090953_C001  CS_OFFL_SIR_JOPM_2_20200407T080443_20200407T1090552_C001  CS_OFFL_SIR_JOPM_2_20200407T080443_20200407T1090555_C001  CS_OFFL_SIR_JOPM_2_20200407T1084443_20200407T1090555_C001  CS_OFFL_SIR_JOPM_2_20200407T1084443_20200407T1	CS_OFFL_SIR_IOPM_2_20200407T072528_20200407T074326_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20200407T080945_2020407T081336_C001  CS_OFFL_SIR_IOPM_2_20200407T081528_2020407T083055_C001  CS_OFFL_SIR_IOPM_2_20200407T081528_2020407T083055_C001  CS_OFFL_SIR_IOPM_2_20200407T083257_2020407T083436_C001  CS_OFFL_SIR_IOPM_2_20200407T083257_2020407T083436_C001  CS_OFFL_SIR_IOPM_2_20200407T083439_2020407T083436_C001  CS_OFFL_SIR_IOPM_2_20200407T0803439_2020407T080435_C001  CS_OFFL_SIR_IOPM_2_20200407T080353_2020407T080435_C001  CS_OFFL_SIR_IOPM_2_20200407T080353_20200407T080143_C001  CS_OFFL_SIR_IOPM_2_20200407T080953_20200407T080143_C001  CS_OFFL_SIR_IOPM_2_20200407T080953_20200407T080143_C001  CS_OFFL_SIR_IOPM_2_20200407T080953_20200407T080143_C001  CS_OFFL_SIR_IOPM_2_20200407T080953_20200407T080143_C001  CS_OFFL_SIR_IOPM_2_20200407T080953_20200407T080143_C001  CS_OFFL_SIR_IOPM_2_20200407T080953_20200407T0809143_C001  CS_OFFL_SIR_IOPM_2_20200407T080953_20200407T0809138_C001  CS_OFFL_SIR_IOPM_2_20200407T080953_20200407T0809138_C001  CS_OFFL_SIR_IOPM_2_20200407T080953_20200407T0809138_C001  CS_OFFL_SIR_IOPM_2_20200407T080953_20200407T0809138_C001  CS_OFFL_SIR_IOPM_2_20200407T080953_20200407T0809138_C001  CS_OFFL_SIR_IOPM_2_20200407T080953_20200407T0809138_C001  CS_OFFL_SIR_IOPM_2_20200407T080953_20200407T080901_C001  CS_OFFL_SIR_IOPM_2_20200407T080953_20200407T080901_C001  CS_OFFL_SIR_IOPM_2_20200407T080901_20200407T080901_C001  CS_OFFL_SIR_IOPM_2_20200407T080901_20200407T098193_C001  CS_OFFL_SIR_IOPM_2_20200407T080901_20200407T098193_C001  CS_OFFL_SIR_IOPM_2_20200407T090443_20200407T098527_C001  CS_OFFL_SIR_IOPM_2_20200407T094443_20200407T098527_C001  CS_OFFL_SIR_IOPM_2_20200407T094443_20200407T095535_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T1096555_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T1096555_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T1096555_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T1096555_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T1096555_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T1096555_C001  CS_OFFL_SIR_IOPM_2_20200	CS_OFFL_SIR_IOPM_2_20200407T074623_20200407T075825_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  Cs_OFFL_SIR_IOPM_2_20200407T081528_20200407T083055_C001  Cs_OFFL_SIR_IOPM_2_20200407T081528_20200407T083055_C001  Cs_OFFL_SIR_IOPM_2_20200407T08357_20200407T083436_C001  Cs_OFFL_SIR_IOPM_2_20200407T083439_20200407T084220_C001  Cs_OFFL_SIR_IOPM_2_20200407T083439_20200407T084220_C001  Cs_OFFL_SIR_IOPM_2_20200407T080339_20200407T084220_C001  Cs_OFFL_SIR_IOPM_2_20200407T080339_20200407T084220_C001  Cs_OFFL_SIR_IOPM_2_20200407T080339_20200407T084220_C001  Cs_OFFL_SIR_IOPM_2_20200407T090038_20200407T090143_C001  Cs_OFFL_SIR_IOPM_2_20200407T09003901_C001  Cs_OFFL_SIR_IOPM_2_20200407T09003901_C001  Cs_OFFL_SIR_IOPM_2_20200407T09003901_20200407T09000110_C001  Cs_OFFL_SIR_IOPM_2_20200407T0900010_20200407T09000110_C001  Cs_OFFL_SIR_IOPM_2_20200407T0900010_20200407T0900010_C001  Cs_OFFL_SIR_IOPM_2_20200407T0900010_20200407T0900010_C001  Cs_OFFL_SIR_IOPM_2_20200407T0900010_20200407T0900010_C001  Cs_OFFL_SIR_IOPM_2_20200407T0900010_20200407T0900010_C001  Cs_OFFL_SIR_IOPM_2_20200407T0900010_C001  Cs_OFFL_SIR_IOPM_2_20200407T0900010_C001  Cs_OFFL_SIR_IOPM_2_20200407T0900010_C001  Cs_OFFL_SIR_IOPM_2_20200407T0900010_C001  Cs_OFFL_SIR_IOPM_2_20200407T0900010_C001  Cs_OFFL_SIR_IOPM_2_20200407T0900010_C001  Cs_OFFL_SIR_IOPM_2_20200407T0900010_C001  Cs_OFFL_SIR_IOPM_2_20200407T0900010_C001  Cs_OFFL_SIR_IOPM_2_20200407T090001001001_C001  Cs_OFFL_SIR_IOPM_2_20200407T090001001001_C001  Cs_OFFL_SIR_I	CS_OFFL_SIR_IOPM_2_20200407T080634_20200407T080834_C001		
and Backscatter Quality, CCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, CCOG Altimeter Range, SSHA, SWH and Backscatter Quality, CCOG Altimeter Range, SSHA,	CS_OFFL_SIR_IOPM_2_20200407T080945_20200407T081336_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality plags have been Altimeter Range and Backscatter Quality plags have been Altimeter Range and Backscatter Quality per for one or more records.  CS_OFFL_SIR_IOPM_2_20200407T083439_20200407T084220_C001  CS_OFFL_SIR_IOPM_2_20200407T090028_20200407T090143_C001  CS_OFFL_SIR_IOPM_2_20200407T0900953_20200407T090143_C001  CS_OFFL_SIR_IOPM_2_20200407T090953_20200407T090143_C001  CS_OFFL_SIR_IOPM_2_20200407T090953_20200407T090143_C001  CS_OFFL_SIR_IOPM_2_20200407T090953_20200407T0909138_C001  CS_OFFL_SIR_IOPM_2_20200407T090953_20200407T0909138_C001  CS_OFFL_SIR_IOPM_2_20200407T090953_20200407T093901_C001  CS_OFFL_SIR_IOPM_2_20200407T093731_20200407T093901_C001  CS_OFFL_SIR_IOPM_2_20200407T093731_20200407T093901_C001  CS_OFFL_SIR_IOPM_2_20200407T093910_20200407T095237_C001  CS_OFFL_SIR_IOPM_2_20200407T094443_20200407T095237_C001  CS_OFFL_SIR_IOPM_2_20200407T094443_20200407T095237_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T101001_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T101001_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T101001_C001  CS_OFFL_SIR_IOPM_2_20200407T095549_20200407T101001_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T10105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T10105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T10105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T10105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T10105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T10105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T10105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105635	CS_OFFL_SIR_IOPM_2_20200407T081528_20200407T083055_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OCGG Altimeter Range and Backscatter Quality Flags have been altimeter Range. SHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200407T09028_20200407T090143_C001  CS_OFFL_SIR_IOPM_2_20200407T090953_20200407T092138_C001  CS_OFFL_SIR_IOPM_2_20200407T093731_20200407T092138_C001  CS_OFFL_SIR_IOPM_2_20200407T093731_20200407T093901_C001  CS_OFFL_SIR_IOPM_2_20200407T0939910_20200407T093901_C001  CS_OFFL_SIR_IOPM_2_20200407T0939910_20200407T095237_C001  CS_OFFL_SIR_IOPM_2_20200407T094443_20200407T095237_C001  CS_OFFL_SIR_IOPM_2_20200407T094443_20200407T095237_C001  CS_OFFL_SIR_IOPM_2_20200407T094443_20200407T101001_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T101001_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T101001_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T105635_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105635_C001  CS_OFFL_SIR_IOPM_2_20200407T0955449_20200407T101001_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T101001_C001  CS_OFFL_SIR_IOPM_2_20200407T1056552_C001  CS_OFFL_SIR_I	CS_OFFL_SIR_IOPM_2_20200407T083257_20200407T083436_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20200407T090953_20200407T092138_C001  Ocean 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 and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range 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, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range 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_20200407T093910_20200407T094119_C001  CS_OFFL_SIR_IOPM_2_20200407T094443_20200407T095237_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T095237_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T101001_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T101001_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105635_C00	CS_OFFL_SIR_IOPM_2_20200407T083439_20200407T084220_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_20200407T093731_20200407T093901_C001  CS_OFFL_SIR_IOPM_2_20200407T093731_20200407T093901_C001  CS_OFFL_SIR_IOPM_2_20200407T093910_20200407T094119_C001  CS_OFFL_SIR_IOPM_2_20200407T093910_20200407T095237_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T101001_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105652_20200407T10105652_20200407T10105652_20200407T10105652_20200407T10105652_20200407T10105652_20200407T10105652_20200407T10105652_20200407T10105652_20200407T10105652_20200407T10105652_20200407T10105652_20200407T10105652_20200407T10105652_20200407T10105652_20200407T10105652_20200407T10105652_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_20200407T10105655_2020	CS_OFFL_SIR_IOPM_2_20200407T090028_20200407T090143_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20200407T093910_20200407T094119_C001  CS_OFFL_SIR_IOPM_2_20200407T093910_20200407T094119_C001  CS_OFFL_SIR_IOPM_2_20200407T093910_20200407T095237_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T101001_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T101001_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105635_C001  CS_OFFL_SIR_IOPM_2_20200407T105652_20200407T10154_C001  CS_OFFL_SIR_IOPM_2_20200407T105652_20200407T10154_C001  Altimeter Range and Backscatter Quality, 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.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200407T090953_20200407T092138_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 Backscatter Quality  CS_OFFL_SIR_IOPM_2_20200407T094443_20200407T095237_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T101001_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T101001_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105635_C001  CS_OFFL_SIR_IOPM_2_20200407T105652_20200407T101054_C001  And Backscatter Quality, OCOG Backscatter Quality, O	CS_OFFL_SIR_IOPM_2_20200407T093731_20200407T093901_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T101001_C001  CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T101001_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105635_C001  CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105635_C001  CS_OFFL_SIR_IOPM_2_20200407T105652_20200407T101054_C001  Backscatter Quality  for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  Coean 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.  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200407T093910_20200407T094119_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T101001_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20200407T094443_20200407T095237_C001		
CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105635_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG  CS_OFFL_SIR_IOPM_2_20200407T105652_20200407T110154_C001  and Backscatter Quality, OCOG  CS_OFFL_SIR_IOPM_2_20200407T105652_20200407T110154_C001  and Backscatter Quality, OCOG  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Ran	CS_OFFL_SIR_IOPM_2_20200407T095449_20200407T101001_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200407T105652_20200407T110154_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20200407T104730_20200407T105635_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20200407T105652_20200407T110154_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPM_2_20200407T110157_20200407T112041_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_20200407T112311_20200407T112522_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_20200407T112543_20200407T113126_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_20200407T113416_20200407T115125_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_20200407T123321_20200407T125907_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_20200407T130233_20200407T130345_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_20200407T130520_20200407T130951_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_20200407T131259_20200407T133447_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_20200407T135014_20200407T135024_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_20200407T140511_20200407T143818_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_20200407T144430_20200407T145006_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_20200407T145138_20200407T145752_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_20200407T152903_20200407T153039_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_20200407T154350_20200407T161736_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_20200407T162334_20200407T162846_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_20200407T163058_20200407T165031_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_20200407T172216_20200407T174353_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_20200407T174502_20200407T175556_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_20200407T180044_20200407T180333_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_20200407T180339_20200407T180347_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_20200407T180350_20200407T180749_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_20200407T181024_20200407T183850_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_20200407T183905_20200407T184610_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_20200407T184756_20200407T185016_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_20200407T185842_20200407T185933_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_20200407T190525_20200407T191309_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_20200407T191750_20200407T193521_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_20200407T193713_20200407T194232_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_20200407T195327_20200407T200610_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_20200407T200823_20200407T202029_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_20200407T202254_20200407T202421_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_20200407T204742_20200407T205713_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_20200407T205948_20200407T211429_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_20200407T211637_20200407T212143_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_20200407T214950_20200407T215201_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_20200407T215324_20200407T220031_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_20200407T223634_20200407T225326_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_20200407T225638_20200407T230059_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_20200407T230720_20200407T233151_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_20200407T031329_20200407T031444_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_20200407T071416_20200407T071448_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_20200407T151708_20200407T151710_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_20200407T194452_20200407T194642_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_20200407T202807_20200407T203041_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_20200407T053332_20200407T054015_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_20200407T071448_20200407T071909_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_20200407T074326_20200407T074438_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_20200407T165843_20200407T165917_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_20200407T180347_20200407T180350_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_20200407T195317_20200407T195327_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_20200407T211429_20200407T211451_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)

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20200407T004756_20200407T004810_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_20200407T012419_20200407T012551_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_20200407T013429_20200407T013604_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_20200407T021208_20200407T021350_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_20200407T024445_20200407T024819_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_20200407T035131_20200407T035208_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_20200407T035300_20200407T035324_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_20200407T041050_20200407T041114_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_20200407T042247_20200407T042356_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_20200407T044349_20200407T044512_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_20200407T045021_20200407T045331_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_20200407T062436_20200407T062721_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_20200407T062924_20200407T063453_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_20200407T071416_20200407T071448_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_20200407T081336_20200407T081516_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_20200407T084220_20200407T084518_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_20200407T090143_20200407T090333_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_20200407T092138_20200407T092741_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_20200407T094119_20200407T094340_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_20200407T095237_20200407T095425_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_20200407T101929_20200407T102326_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_20200407T103836_20200407T104336_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_20200407T104344_20200407T104423_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_20200407T113126_20200407T113349_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_20200407T121325_20200407T121359_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_20200407T121840_20200407T122258_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_20200407T122340_20200407T122502_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_20200407T130053_20200407T130233_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_20200407T130345_20200407T130520_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_20200407T140041_20200407T140511_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_20200407T150722_20200407T150836_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_20200407T151913_20200407T152108_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_20200407T153939_20200407T154117_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_20200407T165031_20200407T165348_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_20200407T175726_20200407T180044_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_20200407T193531_20200407T193713_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_20200407T202807_20200407T203041_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_20200407T204402_20200407T204742_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_20200407T213137_20200407T213155_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_20200407T213659_20200407T214029_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_20200407T214154_20200407T214737_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_20200407T220035_20200407T220157_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_20200407T220458_20200407T220923_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_20200407T222550_20200407T222852_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_20200407T234155_20200407T234317_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_20200407T234357_20200407T234745_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_20200407T003758_20200407T004636_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_20200407T013604_20200407T013753_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_20200407T021357_20200407T021427_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_20200407T021536_20200407T022311_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_20200407T022337_20200407T022827_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_20200407T023229_20200407T023427_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_20200407T031444_20200407T031710_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_20200407T035050_20200407T035131_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_20200407T035324_20200407T040117_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_20200407T040117_20200407T040239_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_20200407T040643_20200407T041013_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_20200407T053332_20200407T054015_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_20200407T054015_20200407T054417_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_20200407T054442_20200407T055457_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_20200407T062114_20200407T062436_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_20200407T071254_20200407T071416_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_20200407T071448_20200407T071909_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_20200407T071909_20200407T072016_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_20200407T075825_20200407T080357_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_20200407T085242_20200407T085521_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_20200407T085522_20200407T085918_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_20200407T090333_20200407T090747_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_20200407T090818_20200407T090953_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_20200407T101134_20200407T101725_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_20200407T103215_20200407T103836_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_20200407T104423_20200407T104635_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_20200407T112041_20200407T112121_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_20200407T113349_20200407T113416_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_20200407T120952_20200407T121212_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_20200407T121228_20200407T121325_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_20200407T121359_20200407T121840_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_20200407T125907_20200407T130053_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_IOPR_2_20200407T134757_20200407T135014_C001		The OCOG 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:

194

### 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:

#### 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:

### 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:

0

### 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).

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.

Number of products with errors: 3

Product	Test Failed	Description
	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_220200407T004135_20200407T013112_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_220200407T013112_20200407T022049_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_220200407T022049_20200407T031026_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_220200407T031026_20200407T040002_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_220200407T040002_20200407T044939_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_220200407T044939_20200407T053916_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_220200407T053916_20200407T062853_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 OFFE SIR IOP 2 202004071062853 202004071071830 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_220200407T071830_20200407T080806_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_220200407T080806_20200407T085743_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_220200407T085743_20200407T094720_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_220200407T094720_20200407T103657_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_220200407T103657_20200407T112633_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_220200407T112633_20200407T121610_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_220200407T121610_20200407T130547_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_220200407T130547_20200407T135524_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_220200407T135524_20200407T144501_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_2_20200407T144501_20200407T153438_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_2_20200407T153438_20200407T162414_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_220200407T162414_20200407T171351_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_2_20200407T171351_20200407T180328_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_220200407T180328_20200407T185305_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_220200407T185305_20200407T194241_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_220200407T194241_20200407T203218_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_220200407T203218_20200407T212155_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_220200407T212155_20200407T221132_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_220200407T221132_20200407T230108_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_220200407T230108_20200407T235045_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

### 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: 2

### 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: 3

#### 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: 3

### 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.

0

# 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.

Number of products with errors:

30