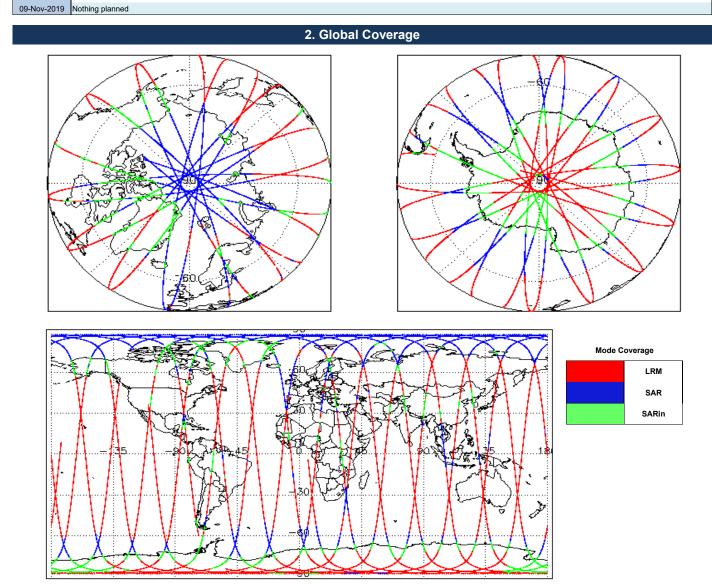


# IDEAS+ Daily Report for IOP data:

# <u>08/11/2019</u>

1. Overview							
Check L1 & L2 P2P							
Report Production:	11-Nov-2019	Server check: science-pds.cryosat.esa.int	Nominal	Nominal			
Dura a ser a la serie	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal			
Processor Used:		Product Software Check	Nominal	Nominal			
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal			
Data Useu.		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 / Instrument News 07-Nov-2019 08-Nov-2019 None None



# 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).

Number of products with errors:

0

For all products, a series of pre-defined checks are performed on the MPH ar	ad SPH in order to identify any inco	ncietancias and/or arrors raised by the ground-segment processing chain
DSARIn chains. A modification is required in the next release.	TB IOPR and IOPN products becau	se the I1b_processing_quality_hr field is not correctly configured in the OSAR and
lumber of products with errors: 0		
I.3 L1B Auxilary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a p	re-determined baseline and also to	check the validity of Auxiliary Data Files is correct.
lumber of products with errors: 0		
I.4 L1B Auxiliary Correction Error Check		
ryoSat L1B data includes a correction error flag for each measurement reco	ord. The bit value of this flag indicate	es any problems when set.
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
ryoSat L1B data includes a measurement confidence flag for each measure	ement record. The bit value of this fl	ag indicates any problems when set.
ttitude Correction Missing: This flag is currently set in error for IOPR prod	lucts due to a configuration issue. T	his is being investigated and will be updated in the next SW update.
umber of products with errors: 0		
.6 L1B Waveform Group Data Check		
•	rd. The bit velue of this flow indicate	
CryoSat L1B data includes a waveform data flag for each measurement reco	-	es any problems when set.
ryoSat L1B data includes a waveform data flag for each measurement reco oss of Echo Flag: This flag is currently set for products over land, but this i	-	es any problems when set.
ryoSat L1B data includes a waveform data flag for each measurement reco oss of Echo Flag: This flag is currently set for products over land, but this i umber of products with errors: 19	-	es any problems when set. Description
ryoSat L1B data includes a waveform data flag for each measurement reco oss of Echo Flag: This flag is currently set for products over land, but this i lumber of products with errors: 19 roduct	s to be expected.	
ryoSat L1B data includes a waveform data flag for each measurement reco oss of Echo Flag: This flag is currently set for products over land, but this i umber of products with errors: 19 roduct S_OFFL_SIR_IOPM1B_20191108T005634_20191108T010108_C001	s to be expected. Test Failed	Description
CryoSat L1B data includes a waveform data flag for each measurement reco coss of Echo Flag: This flag is currently set for products over land, but this i lumber of products with errors: 19 Product CS_OFFL_SIR_IOPM1B_20191108T005634_20191108T031611_C001 CS_OFFL_SIR_IOPM1B_20191108T030238_20191108T031611_C001	s to be expected. Test Failed Loss of Echo	Description           The tracking echo is missing for one or more records
CryoSat L1B data includes a waveform data flag for each measurement reconsest of Echo Flag: This flag is currently set for products over land, but this inclumber of products with errors:       19         Product       19         S_OFFL_SIR_IOPM1B_20191108T005634_20191108T010108_C001         SS_OFFL_SIR_IOPM1B_20191108T030238_20191108T031611_C001         SS_OFFL_SIR_IOPM1B_20191108T041120_20191108T042721_C001	s to be expected. Test Failed Loss of Echo Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
TryoSat L1B data includes a waveform data flag for each measurement reco oss of Echo Flag: This flag is currently set for products over land, but this i lumber of products with errors: 19 Troduct S_OFFL_SIR_IOPM1B_20191108T005634_20191108T010108_C001 S_OFFL_SIR_IOPM1B_20191108T030238_20191108T031611_C001 S_OFFL_SIR_IOPM1B_20191108T041120_20191108T042721_C001 S_OFFL_SIR_IOPM1B_20191108T041120_20191108T140319_C001	s to be expected.           Test Failed           Loss of Echo           Loss of Echo           Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
StryoSat L1B data includes a waveform data flag for each measurement records or so of Echo Flag: This flag is currently set for products over land, but this is the set of products with errors:           19           roduct           SOFFL_SIR_IOPM1B_20191108T005634_20191108T010108_C001           SS_OFFL_SIR_IOPM1B_20191108T003634_20191108T010108_C001           SS_OFFL_SIR_IOPM1B_20191108T030238_20191108T031611_C001           SS_OFFL_SIR_IOPM1B_20191108T01102_0191108T042721_C001           SS_OFFL_SIR_IOPM1B_20191108T103119_20191108T110319_C001           SS_OFFL_SIR_IOPM1B_20191108T161350_2001	s to be expected.           Test Failed           Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
Broduct         19           Broduct         19           Broduct         19           ScoperLSIR_IOPM1B_20191108T005634_20191108T010108_C001         15           ScoperLSIR_IOPM1B_20191108T002634_20191108T010108_C001         15           ScoperLSIR_IOPM1B_20191108T002634_20191108T010108_C001         15           ScoperLSIR_IOPM1B_20191108T002634_20191108T010108_C001         15           ScoperLSIR_IOPM1B_20191108T01020238_20191108T041120_20191108T041120_C001         15           ScoperLSIR_IOPM1B_20191108T041120_20191108T042721_C001         15           ScoperLSIR_IOPM1B_20191108T103119_20191108T110319_C001         15           ScoperLSIR_IOPM1B_20191108T161653_20191108T163350_C001         15           ScoperLSIR_IOPM1B_20191108T011220_20191108T011520_C001         15	s to be expected.  Test Failed Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
CryoSat L1B data includes a waveform data flag for each measurement reco           CryoSat L1B data includes a waveform data flag for each measurement reco           Cross of Echo Flag: This flag is currently set for products over land, but this is           Iumber of products with errors:         19           Product         19           ScOFFL_SIR_IOPM1B_20191108T005634_20191108T010108_C001           SS_OFFL_SIR_IOPM1B_20191108T030238_20191108T031611_C001           SS_OFFL_SIR_IOPM1B_20191108T041120_20191108T042721_C001           SS_OFFL_SIR_IOPM1B_20191108T03119_20191108T01319_C001           SS_OFFL_SIR_IOPM1B_20191108T161653_20191108T163350_C001           SS_OFFL_SIR_IOPM1B_20191108T011220_20191108T011520_C001           SS_OFFL_SIR_IOPM1B_20191108T011220_20191108T043333_C001	s to be expected.           Test Failed           Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
Bit Stress         Stress <thstress< th=""> <thstre< th="">         Stre<td>s to be expected.  Test Failed Loss of Echo Loss of Echo</td><td>Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records</td></thstre<></thstress<>	s to be expected.  Test Failed Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
Image: system in the	s to be expected.           Test Failed           Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
ryoSat L1B data includes a waveform data flag for each measurement recors of Echo Flag: This flag is currently set for products over land, but this is umber of products with errors: 19 roduct S_OFFL_SIR_IOPM1B_20191108T005634_20191108T010108_C001 S_OFFL_SIR_IOPM1B_20191108T030238_20191108T031611_C001 S_OFFL_SIR_IOPM1B_20191108T041120_20191108T04042721_C001 S_OFFL_SIR_IOPM1B_20191108T161653_20191108T163350_C001 S_OFFL_SIR_IOPM1B_20191108T011220_20191108T01520_C001 S_OFFL_SIR_IOPM1B_20191108T043117_20191108T043333_C001 S_OFFL_SIR_IOPM1B_20191108T043117_20191108T043333_C001 S_OFFL_SIR_IOPM1B_20191108T043311_20191108T043333_C001 S_OFFL_SIR_IOPM1B_20191108T043333_20191108T043333_2019 S_OFFL_SIR_IOPM1B_20191108T143233_20191108T143647_C001 S_OFFL_SIR_IOPN1B_20191108T152545_20191108T152717_C001	s to be expected.  Test Failed Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
ryoSat L1B data includes a waveform data flag for each measurement recoross of Echo Flag: This flag is currently set for products over land, but this is umber of products with errors: 19 roduct S_OFFL_SIR_IOPM1B_20191108T005634_20191108T010108_C001 S_OFFL_SIR_IOPM1B_20191108T030238_20191108T031611_C001 S_OFFL_SIR_IOPM1B_20191108T041120_20191108T042721_C001 S_OFFL_SIR_IOPM1B_20191108T161653_20191108T163350_C001 S_OFFL_SIR_IOPM1B_20191108T011220_20191108T01520_C001 S_OFFL_SIR_IOPM1B_20191108T043117_20191108T043333_C001 S_OFFL_SIR_IOPM1B_20191108T043117_20191108T043333_C001 S_OFFL_SIR_IOPM1B_20191108T043311_20191108T043333_C001 S_OFFL_SIR_IOPM1B_20191108T143233_20191108T143647_C001 S_OFFL_SIR_IOPN1B_20191108T1452545_20191108T152717_C001 S_OFFL_SIR_IOPN1B_20191108T161422_20191108T161653_C001	s to be expected.  Test Failed Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
Product         19           ScoFFL_SIR_IOPM1B_20191108T005634_20191108T031611_C001           ScoFFL_SIR_IOPM1B_20191108T0431120_20191108T043761_C001           ScoFFL_SIR_IOPM1B_20191108T043117_20191108T043333_C001           ScoFFL_SIR_IOPN1B_20191108T043117_20191108T043333_C001           ScoFFL_SIR_IOPN1B_20191108T043233_20191108T043333_C001           ScoFFL_SIR_IOPN1B_20191108T143233_20191108T143647_C001           ScoFFL_SIR_IOPN1B_20191108T1452545_20191108T143647_C001           ScoFFL_SIR_IOPN1B_20191108T1616422_20191108T161653_C001           ScoFFL_SIR_I	s to be expected.  Test Failed Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
CryoSat L1B data includes a waveform data flag for each measurement reconsess of Echo Flag: This flag is currently set for products over land, but this is lumber of products with errors:         19           Product         19           ScoFFL_SIR_IOPM1B_20191108T005634_20191108T010108_C001         55           ScoFFL_SIR_IOPM1B_20191108T0005634_20191108T010108_C001         55           ScoFFL_SIR_IOPM1B_20191108T000238_20191108T031611_C001         55           ScoFFL_SIR_IOPM1B_20191108T011120_20191108T042721_C001         55           ScoFFL_SIR_IOPM1B_20191108T161653_20191108T163350_C001         55           ScoFFL_SIR_IOPM1B_20191108T011220_20191108T011520_C001         55           ScoFFL_SIR_IOPM1B_20191108T043117_20191108T043333_C001         55           ScoFFL_SIR_IOPN1B_20191108T043117_20191108T043333_C001         55           ScoFFL_SIR_IOPN1B_20191108T043117_20191108T043333_C001         55           ScoFFL_SIR_IOPN1B_20191108T143233_20191108T143647_C001         55           ScoFFL_SIR_IOPN1B_20191108T161422_20191108T161653_C001         55           ScoFFL_SIR_IOPN1B_20191108T161422_20191108T161653_C001         55           ScoFFL_SIR_IOPN1B_20191108T161422_20191108T175309_C001         55           ScoFFL_SIR_IOPN1B_20191108T175048_20191108T175309_C001         55	s to be expected.  Test Failed Loss of Echo	Description           The tracking echo is missing for one or more records
CryoSat L1B data includes a waveform data flag for each measurement reco           CryoSat L1B data includes a waveform data flag for each measurement reco           Loss of Echo Flag: This flag is currently set for products over land, but this is           Number of products with errors:         19           Product         20           CS_OFFL_SIR_IOPM1B_20191108T005634_20191108T010108_C001         20           CS_OFFL_SIR_IOPM1B_20191108T003238_20191108T031611_C001         20           CS_OFFL_SIR_IOPM1B_20191108T013119_20191108T042721_C001         20           CS_OFFL_SIR_IOPM1B_20191108T013119_20191108T043712_C001         20           CS_OFFL_SIR_IOPM1B_20191108T011220_20191108T011520_C001         20           CS_OFFL_SIR_IOPN1B_20191108T0433117_20191108T043333_C001         20           CS_OFFL_SIR_IOPN1B_20191108T0433117_20191108T043333_C001         20           CS_OFFL_SIR_IOPN1B_20191108T143233_20191108T143647_C001         20           CS_OFFL_SIR_IOPN1B_20191108T1452545_20191108T145645_C001         20           CS_OFFL_SIR_IOPN1B_20191108T161422_20191108T175309_C001         20           CS_OFFL_SIR_IOPN1B_20191108T175048_20191108T175309_C001         20           CS_OFFL_SIR_IOPN1B_20191108T223120_20191108T012223_2001         22           CS_OFFL_SIR_IOPN1B_20191108T175048_20191108T012223_2001         22	s to be expected.  Test Failed Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo
4.6 L1B Waveform Group Data Check           CryoSat L1B data includes a waveform data flag for each measurement reco           Loss of Echo Flag: This flag is currently set for products over land, but this is           Number of products with errors:         19           Product         19           CS_OFFL_SIR_IOPM1B_20191108T005634_20191108T010108_C001         10           CS_OFFL_SIR_IOPM1B_20191108T003238_20191108T031611_C001         10           CS_OFFL_SIR_IOPM1B_20191108T01120_20191108T042721_C001         10           CS_OFFL_SIR_IOPM1B_20191108T041120_20191108T0432721_C001         10           CS_OFFL_SIR_IOPM1B_20191108T01202_0191108T043335_0_C001         10           CS_OFFL_SIR_IOPM1B_20191108T043117_20191108T043333_C001         10           CS_OFFL_SIR_IOPN1B_20191108T0433117_20191108T043333_C001         10           CS_OFFL_SIR_IOPN1B_20191108T0433117_20191108T043333_C001         10           CS_OFFL_SIR_IOPN1B_20191108T1632545_20191108T163653_C001         10           CS_OFFL_SIR_IOPN1B_20191108T1632545_20191108T163653_C001         10           CS_OFFL_SIR_IOPN1B_20191108T16323120_20191108T175309_C001         10           CS_OFFL_SIR_IOPN1B_20191108T01520_20191108T015223_2001         10           CS_OFFL_SIR_IOPN1B_20191108T01520_20191108T021223_C001         10           CS_OFFL_SIR_IOPN1B_20191108T01520_20191108T022323_001         10           CS_O	s to be expected.           Test Failed           Loss of Echo           <	Description           The tracking echo is missing for one or more records           The tracking echo

## 5. IOP Level 2 Data Quality Check

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

#### 5.1 L2 Product Format Check

CS\_OFFL\_SIR\_IOPR1B\_20191108T101333\_20191108T101629\_C001

CS\_OFFL\_SIR\_IOPR1B\_20191108T120536\_20191108T120925\_C001

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

Loss of Echo

Loss of Echo

## 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.

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20191108T002259_20191108T002618_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_20191108T003142_20191108T003306_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_20191108T011220_20191108T011520_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_IOPN_2_20191108T020958_20191108T021134_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_20191108T025319_20191108T025419_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_20191108T034732_20191108T034941_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_20191108T043117_20191108T043333_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_20191108T054741_20191108T054909_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_20191108T060754_20191108T061131_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_20191108T070716_20191108T070918_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_20191108T115556_20191108T115722_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_20191108T120232_20191108T120536_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_20191108T133619_20191108T133918_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_20191108T134134_20191108T134653_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_20191108T143233_20191108T143647_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), 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), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPN_2_20191108T151611_20191108T151846_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_20191108T161125_20191108T161239_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_IOPN_2_20191108T161422_20191108T161653_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20191108T165112_20191108T165709_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_20191108T175048_20191108T175309_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_IOPN_2_20191108T193026_20191108T193504_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_20191108T201305_20191108T201443_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_20191108T233229_20191108T233545_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_20191108T234057_20191108T234219_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_20191108T011520_20191108T012223_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_20191108T025419_20191108T030003_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_20191108T043333_20191108T044023_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)

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CS_OFFL_SIR_IOPR_2_20191108T060532_20191108T060754_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_20191108T061159_20191108T061721_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_20191108T075021_20191108T080023_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_20191108T092735_20191108T093510_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_20191108T110633_20191108T111326_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_20191108T111326_20191108T111620_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_20191108T124502_20191108T125224_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_20191108T125224_20191108T125444_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_20191108T142655_20191108T143118_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_20191108T143118_20191108T143233_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_20191108T160450_20191108T160946_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_20191108T160946_20191108T161125_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_20191108T174439_20191108T175048_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_20191108T192146_20191108T192428_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_20191108T192610_20191108T193026_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_20191108T210338_20191108T211109_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_20191108T224342_20191108T225153_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

#### 5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 0

#### 5.6 L2 Measurement Quality Flag Check

#### L2 Quality Flags (20Hz)

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

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20191107T235816_20191108T001943_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_20191108T002618_20191108T002729_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_20191108T002735_20191108T003142_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_20191108T003719_20191108T004646_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_20191108T004833_20191108T005435_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_20191108T005634_20191108T010108_C001	and Backscatter Quality, OCOG	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_20191108T012314_20191108T015824_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_20191108T020126_20191108T020627_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_20191108T021726_20191108T024852_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_20191108T025129_20191108T025319_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_20191108T030238_20191108T031611_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_20191108T031945_20191108T033807_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_20191108T034016_20191108T034525_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_20191108T034602_20191108T034732_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_20191108T035512_20191108T040540_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_20191108T041120_20191108T042721_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_20191108T045054_20191108T050111_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_20191108T050250_20191108T051630_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_20191108T051936_20191108T052436_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_20191108T053638_20191108T054741_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_20191108T054909_20191108T055458_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_20191108T055741_20191108T060532_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_20191108T062506_20191108T062516_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_20191108T063349_20191108T065508_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_20191108T070013_20191108T070352_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_20191108T070414_20191108T070716_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_20191108T071106_20191108T073854_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_20191108T081015_20191108T083433_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_20191108T083755_20191108T084306_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_20191108T085053_20191108T092340_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_20191108T094637_20191108T095609_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_20191108T100945_20191108T101333_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_20191108T101755_20191108T102339_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_20191108T103119_20191108T110319_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_20191108T111620_20191108T111725_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter 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_20191108T113121_20191108T113303_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_20191108T113448_20191108T115148_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_20191108T115722_20191108T120232_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_20191108T120925_20191108T123045_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_20191108T123128_20191108T124342_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_20191108T125444_20191108T125654_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_20191108T131235_20191108T133145_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_20191108T133918_20191108T134134_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_20191108T134904_20191108T142301_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_20191108T143722_20191108T145618_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_20191108T145649_20191108T150953_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_20191108T152217_20191108T152545_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_20191108T152808_20191108T154305_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_20191108T154507_20191108T155429_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_20191108T161239_20191108T161422_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_20191108T161653_20191108T163350_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_20191108T164154_20191108T164706_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_20191108T165709_20191108T170006_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_20191108T170014_20191108T170446_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_20191108T170739_20191108T172134_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_20191108T174113_20191108T174439_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_20191108T175716_20191108T175843_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_20191108T180006_20191108T180556_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_20191108T180943_20191108T183144_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_20191108T183517_20191108T184345_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_20191108T184711_20191108T191153_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_20191108T194312_20191108T201032_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_20191108T201729_20191108T202145_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_20191108T202638_20191108T205239_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_20191108T205242_20191108T205454_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_20191108T210136_20191108T210338_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_20191108T211801_20191108T214828_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_20191108T215641_20191108T220225_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_20191108T220556_20191108T221005_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_20191108T224126_20191108T224228_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_20191108T225539_20191108T232839_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_20191108T233545_20191108T234057_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_20191108T234634_20191109T000220_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_20191108T033837_20191108T034016_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_20191108T070716_20191108T070918_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_20191108T161125_20191108T161239_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_20191108T175843_20191108T180006_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_20191108T194106_20191108T194312_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_20191108T020627_20191108T020633_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_20191108T031611_20191108T031945_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_20191108T034538_20191108T034544_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_20191108T092735_20191108T093510_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_20191108T142655_20191108T143118_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_20191108T152717_20191108T152808_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_20191108T223032_20191108T223120_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_20191108T232839_20191108T233229_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

## L2 Quality Flags (20Hz PLRM)

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20191108T002259_20191108T002618_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_20191108T003142_20191108T003306_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_20191108T005435_20191108T005634_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20191108T015932_20191108T020126_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_20191108T034732_20191108T034941_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20191108T044859_20191108T045054_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one on more records.
CS_OFFL_SIR_IOPN_2_20191108T053454_20191108T053638_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_20191108T054741_20191108T054909_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20191108T060754_20191108T061131_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_20191108T062819_20191108T063211_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20191108T070716_20191108T070918_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_20191108T083619_20191108T083755_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20191108T101629_20191108T101755_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_20191108T102541_20191108T102655_C001	Ocean Attimeter 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_20191108T110319_20191108T110633_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20191108T113303_20191108T113448_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20191108T115556_20191108T115722_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_20191108T120232_20191108T120536_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_20191108T131152_20191108T131235_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20191108T133619_20191108T133918_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20191108T142559_20191108T142655_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_20191108T151611_20191108T151846_C001	Ocean Attimeter 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_20191108T152545_20191108T152717_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_20191108T155429_20191108T155803_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one on more records.

CS_OFFL_SIR_IOPN_2_20191108T161125_20191108T161239_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_20191108T161422_20191108T161653_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_20191108T163350_20191108T163831_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_20191108T165112_20191108T165709_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_20191108T170446_20191108T170630_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_20191108T175339_20191108T175527_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_20191108T183326_20191108T183517_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_20191108T191153_20191108T191531_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_20191108T192004_20191108T192127_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_20191108T193026_20191108T193504_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_20191108T193550_20191108T193712_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_20191108T202145_20191108T202436_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_20191108T221915_20191108T222249_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_20191108T222306_20191108T222444_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_20191108T223120_20191108T223323_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_20191108T223831_20191108T223945_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_20191108T225153_20191108T225317_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_20191108T233229_20191108T233545_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_20191108T234057_20191108T234219_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_20191108T003306_20191108T003719_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_20191108T011022_20191108T011220_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_20191108T011520_20191108T012223_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_20191108T021134_20191108T021337_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_20191108T021337_20191108T021726_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_20191108T025419_20191108T030003_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_20191108T030017_20191108T030129_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_20191108T034525_20191108T034532_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

C 30 - 04. 16 (109.1.2. 00111011102002.00111011102002.0011101110	CS_OFFL_SIR_IOPR_2_20191108T034941_20191108T035512_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.
CQUTL_BRUOK_2019110310032_0011     are between Guty FUR_00000     are between Guty FUR_000000000000000000000000000000000000	CS_OFFL_SIR_IOPR_2_20191108T040906_20191108T041120_C001		
DS_OPP_URP_OP_2 20191103100022 201911031000250 001         Does Almede Rags_SBM, SWH as Blackater Cally Figs.           DS_OPP_URP_OP_2 20191103100022 201911031000250 001         Does Almede Rags_SBM, SWH as Blackater Cally Figs.           DS_OPP_URP_OP_2 201911031000250 001         Does Almede Rags_SBM, SWH as Blackater Cally Figs.           DS_OPP_URP_OP_2 201911031000250 001         Does Almede Rags_SBM, SWH as Blackater Cally Figs.           DS_OPP_URP_OP_2 201911031000250 001         Does Almede Rags_SBM, SWH as Blackater Cally Figs.           DS_OPP_URP_OP_2 201911031000250 001         Does Almede Rags_SBM, SWH as Blackater Cally Figs.           DS_OPP_URP_OP_2 20191103100050 001         Does Almede Rags_SBM, SWH as Blackater Cally Figs.           DS_OPP_URP_OP_2 201911031100050 001         Does Almede Rags_SBM, SWH as Blackater Cally Figs.           DS_OPP_URP_OP_2 201911031100050 001         Does Almede Rags_SBM, SWH as Blackater Cally Figs.           DS_OPP_URP_OP_2 201911031100050 001         Does Almede Rags_SBM, SWH as Blackater Cally Figs.           DS_OPP_URP_OP_2 201911031100050 001         Does Almede Rags_SBM, SWH as Blackater Cally Figs.           DS_OPP_URP_OP_2 201911031100050 001         Does Almede Rags_SBM, SWH as Blackater Cally Figs.           DS_OPP_URP_OP_2 201911031100050 001         Does Almede Rags_SBM, SWH as Blackater Cally Figs.           DS_OPP_URP_OP_2 201911031100050 001         Does Almede Rags_SBM, SWH as Blackater Cally Figs.           DS_OPP_URP_OP_2 201911031100050 00	CS_OFFL_SIR_IOPR_2_20191108T043333_20191108T044023_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OS_DITSRUGRQ_2_01910611060302_0191101106060_0001         Desta Attracta Rago, SRA, River, Target SRA, River, Tar	CS_OFFL_SIR_IOPR_2_20191108T060532_20191108T060754_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OPH_SHUGHPL_2_0111101102702_011101110200_0001         CS_OPH_SHUGHPL_2_0111101102702_0111011102102_0001           CS_OPH_SHUGHPL_2_0111101102102_01110110200_0001         CSOO Almost Resp. SMA, SWA and Rescard Cally Figs Name Resp.           CS_OPH_SHUGHPL_2_011110110200_001100110200_0001         CSOO Almost Resp. SMA, SWA and Rescard Cally Figs Name Resp.           CS_OPH_SHUGHPL_2_011100110200_001100110200_0001         CSOO Almost Resp. SMA, SWA and Rescard Cally Figs Name Resp.           CS_OPH_SHUGHPL_2_011100110200_0011         CSOO Almost Resp. SMA, SWA and Rescard Cally Figs Name Resp.           CS_OPH_SHUGHPL_2_011100110200_0011         CSOO Almost Resp. SMA, SWA and Rescard Cally Figs Name Resp.           CS_OPH_SHUGHPL_2_011100110200_0011         CSOO Almost Resp. SMA, SWA and Rescard Cally Figs Name Resp.           CS_OPH_SHUGHPL_2_011100110200_0011         CSOO Almost Resp. SMA, SWA and Rescard Cally Figs Name Resp.           CS_OPH_SHUGHPL_2_011100110200_0011         CSOO Almost Resp. SMA, SWA and Rescard Cally Figs Name Resp.           CS_OPH_SHUGHPL_2_011100110200_001110211201_CO11         CSOO Almost Resp. SMA, SWA and Rescard Cally Figs Name Resp.           CS_OPH_SHUGHPL_2_011100110200_001110211201_CO11         CSOO Blackader Cally Figs Name Resp.           CS_OPH_SHUGHPL_2_011100110200_0011102112000_00	CS_OFFL_SIR_IOPR_2_20191108T084807_20191108T084927_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C2, OTTL_SIR_LOPR_2_20101103T10000_0011011011102_001     CODD Amendur Range Galling PR, Mr.     The OCCOR Respine and Reducator Calling PRage. Name Range Galling PR.       C3, OFTL_SIR_LOPR_2_20101103T10000_011011011102_0000     CodD Amendur Range Galling PR, Mr.     The OCCOR Respine and Reducator Calling PRage Name Science       C3, OFTL_SIR_LOPR_2_20101103T10000_0110111102_0000     CodD Amendur Range Galling PR, Mr.     The OCCOR Respine and Reducator Calling PRage Name Science       C3, OFTL_SIR_LOPR_2_20101103T10000_0110111102_0000     CodD Amendur Range Galling PR, Mr.     The OCCOR Respine and Reducator Calling Prage Name Science       C3, OFTL_SIR_LOPR_2_20101103T10000_011110200_0001     CodD Amendur Range Galling PR, Mr.     The OCCOR Respine and Reducator Calling Prage Name Science       C4, OFTL_SIR_LOPR_2_20101103T10000_0111001110200_0001     CodD Amendur Range Galling PR, Mr.     The OCCOR Respine and Reducator Calling Prage Name Science       C4, OFTL_SIR_LOPR_2_20101103T10000_0111001110200_0001     CodD Amender Range SBAR, Wr.     The OCCOR Respine Trange SBAR, Wr.       C5, OFTL_SIR_LOPR_2_20101103T10200_0001     CodD Amender Range SBAR, Wr.     The OCCOR Respine Trange SBAR, Wr.       C4, OFTL_SIR_LOPR_2_20101103T10200_0001     CodD Amender Range SBAR, Wr.     The OCCOR Respine Trange SBAR, Wr.       C5, OFTL_SIR_LOPR_2_20101103T10200_001     CodD Amender Range SBAR, Wr.     The OCCOR Respine and Backardine Calling Prag. Name Science Trange SBAR, Wr.       C6, OFTL_SIR_LOPR_2_20101103T103001_00111031110311001     CodD Amender Range SBAR, Wr.     The OCCOR Respine and	CS_OFFL_SIR_IOPR_2_20191108T092735_20191108T093510_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SR_UPR_2_00191007103052_00191007110319_C001         and 2 webCo20 Allines Regression Structure Description           CS_OFFL_SR_UPR_2_001910071103052_00191007111320_C001         Cocin American Regress Structure Description           CS_OFFL_SR_UPR_2_001910071103052_00191007111320_C001         Cocin American Regress Structure Description           CS_OFFL_SR_UPR_2_001910071110305_00191007112024_0001         Cocin American Regress Structure Description           CS_OFFL_SR_UPR_2_00191007110316_001071011024_0001         Cocin American Regress Structure Description           CS_OFFL_SR_UPR_2_00191007110316_001071011024_0001         Cocin American Regress Structure Description           CS_OFFL_SR_UPR_2_00191007110316_0010         Cocin American Regress Structure Description           CS_OFFL_SR_UPR_2_00191007110316_001007103102_0001         Cocin American Regress Structure Description           CS_OFFL_SR_UPR_2_00191007110316_001007103102_0001         Cocin American Regress Structure Descructure Description	CS_OFFL_SIR_IOPR_2_20191108T094558_20191108T094637_C001	OCOG Altimeter Range Quality PLRM,	5 , 5
CB, OFFL_SIR_LOPR_2_00191087110832_00191087111320_0001         Corean Alterator Range SSM, SWH and Backsontor Quality Flags have been after one or none records.           CB_OFFL_SIR_LOPR_2_001910871111820_0011         COCO Alterator Range SLM, SWH and Backsontor Quality Flags have been after one or none records.           CB_OFFL_SIR_LOPR_2_001910871111820_0011         COCO Alterator Range SLM, SWH and Backsontor Quality Flags have been after one or none records.           CB_OFFL_SIR_LOPR_2_00191087115146_00191115556_001         COCO Alterator Range SLM, SWH and Backsontor Quality Flags have been after one or none records.           CB_OFFL_SIR_LOPR_2_001910871120052_0011         Corean Alterator Range SLM, SWH and Backsontor Quality Flags have been after one or none records.           CB_OFFL_SIR_LOPR_2_00191087120052_00111087120052_0011         Corean Alterator Range SLM, SWH and Backsontor Quality Flags have been after one records.           CB_OFFL_SIR_LOPR_2_00191087120052_0011007120220_0011         Corean Alterator Range SLM, SWH and Backsontor Quality Flags have been after to one or none records.           CB_OFFL_SIR_LOPR_2_01911087120402_01911087120402_0011         COCO Alterator Range SLM, SWH and Backsontor Quality Flags have been after to one or none records.           CB_OFFL_SIR_LOPR_2_01911087120402_01011087120402_0011         COCO Alterator Range SLM, SWH and Backsontor Quality Flags have been after to one or none records.           CB_OFFL_SIR_LOPR_2_01911087120402_0011         COCO Alterator Range SLM, SWH and Backsontor Quality Flags have been after to one or none records.           CB_OFFL_SIR_LOPR_2_01911087120402_0011 <td>CS_OFFL_SIR_IOPR_2_20191108T102655_20191108T103119_C001</td> <td>and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality</td> <td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td>	CS_OFFL_SIR_IOPR_2_20191108T102655_20191108T103119_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Curre_BR_CORC_20011081111112_20001         OCOR Bascaster Cualty         more month.           C9_OFFSIR_JOPR_2_20191108111546_20191108111556_C001         Annotes Range SNA, SWA Annotes Range and Backscatter Cualty Flags have been set for ocor none month.         The Ocean Annotes Range, SNA, SWA and Backscatter Cualty Flags have been set for ocor none month.           C9_OFFSIR_JOPR_2_20191108112522_C001         Communities Range SNA, SWA Annotes Range and Backscatter Cualty Flags have been set for ocor none month.         The Ocean Annotes Range, SNA, SWA and Backscatter Cualty Flags have been and backscatter Cualty Flags have been efficience and have been and backscatter Cualty Flags have been efficience and backscatter Cualty Flags have been have been efficience and have been efficience and have been efficience and have backscatter Cualty Flags have been efficience and have backscatter Cualty Flags have been efficience and have backscatter Cualty Flags have been efficience and have backscatter Cualty Flags have been efficience and have backscatter Cualty Flags have been eff	CS_OFFL_SIR_IOPR_2_20191108T110633_20191108T111326_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GS_OFFL_SIR_JOPR_2_20191108T11548_20191108T15566_001         and Backstatter Cuality PLIM, COOG PLIM         The Ocean Altimeter Range, SSH, SWH PLIM           GS_OFFL_SIR_JOPR_2_20191108T126250_20191108T126252_C001         Common Range, SSH, SWH PLIM         The Ocean Altimeter Range, SSH, SWH and Backscatter Cuality PLIM, COOG Altimeter Range, and Backscatter Cuality Flags, have been the COOC Altimeter Range, SSH, SWH PLIM         The Ocean Altimeter Range, SSH, SWH and Backscatter Cuality Flags, have been and Backscatter Cuality Flags, have been and backscatter Cuality PLIM, COOG Altimeter Range, SSH, SWH PLIM         The Ocean Altimeter Range, SSH, SWH and Backscatter Cuality Flags, have been and backscatter Cuality Flags, have been and backscatter Cuality PLIM, COOG Autimeter Range, SSH, SWH PLIM         The Ocean Altimeter Range, SSH, SWH and Backscatter Cuality Flags, have been and backscatter Cuality PLIM, COOG Antimeter Range, SSH, SWH and Backscatter Cuality PLIM         The Ocean Altimeter Range, SS	CS_OFFL_SIR_IOPR_2_20191108T111829_20191108T112214_C001		
CS_OFFL_SIR_JOPR_2_201911081124028_0001         Intersection and package of the section of the	CS_OFFL_SIR_IOPR_2_20191108T115148_20191108T115556_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GS_OFFL_SIR_IOPR_2_20191106T124502_0191106T125224_C001       and Backscatter Quality PLRM, COCG       and Backscatter Quality PLRM, COCG         GS_OFFL_SIR_IOPR_2_20191106T125654_20191106T130421_C001       COCG Allmeter Range Duality PLRM, COCG       The OCGO Range and Backscatter Quality PLRM, The Dean Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG         GS_OFFL_SIR_IOPR_2_20191106T133462_20191106T133610_C001       Occan Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG       The OCGO Range and Backscatter Quality PLRM, COCG         GS_OFFL_SIR_IOPR_2_20191106T134632_20191106T134640_C001       Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG       The OCGO Range and Backscatter Quality PLRM, COCG         GS_OFFL_SIR_IOPR_2_20191106T134652_20191106T134602_C001       Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG       The OCGan Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG         GS_OFFL_SIR_IOPR_2_20191106T134652_20191106T1345161_C001       Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG       The OCGan Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG         GS_OFFL_SIR_IOPR_2_20191106T154507_C001       Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG       The OCGAN Allmeter Range, SSHA, SWH and Backscatter Quality FLRM, COCG         GS_OFFL_SIR_IOPR_2_20191106T164607_C001       Allmeter Range, SSHA, SWH and Backscatter Quality FLRM, COCG       The OCGAN Allmeter Range, SSHA, SWH and Backscatter Quality FLRM, COCG         GS_OFFL_SIR_IOPR_2_20191106T164601_C001       Allmeter Range, SSHA, SWH and Backscatter Quality FL	CS_OFFL_SIR_IOPR_2_20191108T120536_20191108T120925_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCCOR Backscatter Quality         more records.           CS_OFFL_SIR_JOPR_2_201911081133145_2019110811333619_C001         OCCOR Backscatter Quality FLM, OCCO Animeter Range, SSHA, SWH and Backscatter Quality FLM, OCCO Alimeter Range and Backscatter Quality FLM, OCCO Alimeter Range, SSHA, SWH and the OCCG Alimeter Range, SSHA, SWH and the OCCG Alimeter Range, SSHA, SWH and the OCCG Alimeter Range, SSHA, SWH and Backscatter Quality FLM, OCCO Alimeter Rang	CS_OFFL_SIR_IOPR_2_20191108T124502_20191108T125224_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_JOPR_2_20191108T134145_20191108T133619_C001       and Backscater Quality PLRM_OCOG       htte Ocean Attimuter Range and Backscater Quality Flags         CS_OFFL_SIR_JOPR_2_20191108T134653_20191108T134004_C001       Attimuter Range SSHA_SWH       and Backscatter Quality FLGM_OCOG         CS_OFFL_SIR_JOPR_2_20191108T134653_20191108T134004_C001       Attimuter Range, SSHA_SWH       and Backscatter Quality FLGM_OCOG         CS_OFFL_SIR_JOPR_2_20191108T134653_20191108T134004_C001       Attimuter Range, SSHA_SWH       and Backscatter Quality FLGM_OCOG         CS_OFFL_SIR_JOPR_2_20191108T134653_20191108T134011_C001       Coean Attimuter Range, SSHA_SWH       and Backscatter Quality FLGM_OCOG         CS_OFFL_SIR_JOPR_2_20191108T134053_20191108T151611_C001       Coean Attimuter Range, SSHA_SWH       and Backscatter Quality FLGM_OCOG         CS_OFFL_SIR_JOPR_2_20191108T154305_20191108T154507_C001       Coean Attimeter Range, SSHA_SWH       and Backscatter Quality FLGM_OCOG         CS_OFFL_SIR_JOPR_2_20191108T164305_20191108T164507_C001       Coean Attimeter Range, SSHA_SWH       and Backscatter Quality FLGM_OCOG         CS_OFFL_SIR_JOPR_2_20191108T16404_20191108T164507_C001       Coean Attimeter Range GSHA_SWH       and Backscatter Quality FLGM_OCOG         CS_OFFL_SIR_JOPR_2_20191108T164302_20191108T164507_C001       Coean Attimeter Range GSHA_SWH       and Backscatter Quality FLGM_OCOG         CS_OFFL_SIR_JOPR_2_20191108T164302_20191108T164507_C001       Coean Attimeter Range GSHA_SWH       and Backscatter Quality FLGM_OCOG <td>CS_OFFL_SIR_IOPR_2_20191108T125654_20191108T130421_C001</td> <td></td> <td></td>	CS_OFFL_SIR_IOPR_2_20191108T125654_20191108T130421_C001		
CS_OFFL_SIR_IOPR_2_20191108T134604_C001       All Backscatter Quality PLEM, OCG       Into DCGA Allmeter Range and Backscatter Quality PLEM, OCG         CS_OFFL_SIR_IOPR_2_20191108T142655_20191108T143118_C001       Occean Allmeter Range, SSHA, SWH and Backscatter Quality PLEM, OCG       Into DCGA Allmeter Range, SSHA, SWH and Backscatter Quality PLEM, OCG         CS_OFFL_SIR_IOPR_2_20191108T156953_20191108T151611_C001       Occean Allmeter Range, SSHA, SWH and Backscatter Quality PLEM, OCG       Into DCGA Allmeter Range, SSHA, SWH and Backscatter Quality PLEM, OCG         CS_OFFL_SIR_IOPR_2_20191108T156953_20191108T15695       Occean Allmeter Range, SSHA, SWH and Backscatter Quality PLEM, OCG       Into DCGA Allmeter Range, SSHA, SWH and Backscatter Quality PLEM, OCG         CS_OFFL_SIR_IOPR_2_20191108T15695_20191108T15695_20191108T15695_20191108T15695_20191108T16490_20191108T16996_C001       Occean Allmeter Range, SSHA, SWH and Backscatter Quality PLEM, OCG         CS_OFFL_SIR_IOPR_2_20191108T160450_20191108T160946_C001       Occean Allmeter Range, SSHA, SWH and Backscatter Quality PLEM, OCG         CS_OFFL_SIR_IOPR_2_20191108T164901_C001       OCCGA Allmeter Range Quality PLEM, OCG         CS_OFFL_SIR_IOPR_2_20191108T164901_C001       OCCGA Allmeter Range Quality PLEM, OCG         CS_OFFL_SIR_IOPR_2_20191108T172134_20191108T175048_C001       OCCGA Allmeter Range Quality PLEM, OCG         CS_OFFL_SIR_IOPR_2_20191108T172134_20191108T175048_C001       OCCGA Allmeter Range Quality PLEM, OCG         CS_OFFL_SIR_IOPR_2_20191108T175645_C001       OCCGA Allimeter Range ASHA, SWH and Backscatter Qual	CS_OFFL_SIR_IOPR_2_20191108T133145_20191108T133619_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20191108T142855_20191108T14218_C001       and Backscatter Quality PLRM, OCCG       Interest Range and Backscatter Quality PLRS         CS_OFFL_SIR_IOPR_2_20191108T150953_20191108T151611_C001       Ocean Altimeter Range, SSHA, SWH, MCCGG       The Ocean Altimeter Range and Backscatter Quality PLRS         CS_OFFL_SIR_IOPR_2_20191108T154305_20191108T154507_C001       Altimeter Range, SSHA, SWH, MCCGG       The Ocean Altimeter Range and Backscatter Quality PLRS         CS_OFFL_SIR_IOPR_2_20191108T164050_20191108T160946_C001       Altimeter Range, SSHA, SWH, MCCGG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T164040_20191108T160946_C001       Altimeter Range, and Backscatter Quality PLRM, OCCG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T164040_20191108T160946_C001       OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T164041_C001       OCCGA Altimeter Range Quality PLRM, OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T16404_20191108T173023_C001       OCCGA Altimeter Range Quality PLRM, OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T172134_20191108T175048_C001       OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OF	CS_OFFL_SIR_IOPR_2_20191108T134653_20191108T134904_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20191108T150953_20191108T151611_C001       and Backscatter Quality PLRM_COOG       Interfer Range and Backscatter Quality PLRM_COOG         CS_OFFL_SIR_IOPR_2_20191108T154305_20191108T154507_C001       and Backscatter Quality PLRM_COOG       The OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T164505_20191108T164507_C001       and Backscatter Quality PLRM_COOG       The OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T160450_20191108T160946_C001       Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T160450_20191108T160946_C001       OCGA Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T164804_20191108T164911_C001       OCGA Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T172134_20191108T175048_C001       OCGA Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T175527_20191108T175545_C001       OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T192446_20191108T192428_C001       OCGA Altimeter Range and Backscatter Quality Flags have been set for o	CS_OFFL_SIR_IOPR_2_20191108T142655_20191108T143118_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20191108T154305_20191108T154507_C001       and Backscatter Quality PLRM_OCOG Allimeter Range and Backscatter Quality PLRM_OCOG         CS_OFFL_SIR_IOPR_2_20191108T164804_20191108T164911_C001       OCOG Allimeter Range Quality PLRM, OCOG Backscatter 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_20191108T172134_20191108T173023_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_20191108T172134_20191108T175048_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_20191108T175527_20191108T175545_C001       OCOG Altimeter Range SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	CS_OFFL_SIR_IOPR_2_20191108T150953_20191108T151611_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20191108T160450_20191108T160946_C001       and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T164804_20191108T164911_C001       OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T175545_C001       OCOG Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM, OCOG Attimete	CS_OFFL_SIR_IOPR_2_20191108T154305_20191108T154507_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20191108116404_201911081164911_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_IOPR_2_20191108T172134_20191108T173023_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T175527_20191108T175545_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T175527_20191108T175545_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T192146_20191108T192428_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T192447_20191108T192544_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T192447_20191108T192544_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T192447_20191108T192544_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPR_2_20191108T160450_20191108T160946_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_201911061172134_201911061173023_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_IOPR_2_20191108T1774439_20191108T175048_C001       OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T175527_20191108T175545_C001       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_20191108T192146_20191108T192428_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20191108T192447_20191108T192544_C001       Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, or nor or more records.	CS_OFFL_SIR_IOPR_2_20191108T164804_20191108T164911_C001		
CS_OFFL_SIR_IOPR_2_201911081174439_201911081175048_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_IOPR_2_201911081175527_201911081175545_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags.         CS_OFFL_SIR_IOPR_2_201911081192146_201911081192428_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags.         CS_OFFL_SIR_IOPR_2_201911081192146_201911081192428_C001       Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM.         CS_OFFL_SIR_IOPR_2_201911081192447_201911081192544_C001       Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM.         CS_OFFL_SIR_IOPR_2_201911081192447_201911081192544_C001       Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, or one or more records.	CS_OFFL_SIR_IOPR_2_20191108T172134_20191108T173023_C001		
CS_OFFL_SIR_IOPR_2_20191108T175527_20191108T175545_C001       and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM       In Bocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality PLRM         CS_OFFL_SIR_IOPR_2_20191108T192146_20191108T192428_C001       and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM       The Ocean Altimeter Range, SSHA, SWH 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, SSHA, SWH 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, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPR_2_20191108T174439_20191108T175048_C001		
CS_OFFL_SIR_IOPR_2_20191108T192146_20191108T192428_C001       and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM       and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         CS_OFFL_SIR_IOPR_2_20191108T192447_20191108T192544_C001       and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPR_2_20191108T175527_20191108T175545_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20191108T192447_20191108T192544_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been as the for one or more records.	CS_OFFL_SIR_IOPR_2_20191108T192146_20191108T192428_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPR_2_20191108T192447_20191108T192544_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPR_2_20191108T192610_20191108T19302	26_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_20191108T201032_20191108T20130	)5_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.
L2 Quality Flags (1 Hz & 1Hz PLRM)			
Currently, there are several common flags raised in the Lev	el 2 products, whi	ch are summarised below.	
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are c	urrently set for prod	ucts over sea ice, which is to be expected.	
Number of products with errors: 184			
5.8 L2 Ocean Retracking Quality Check			
L2 Retracking Flags (20Hz)			
CryoSat L2 data includes an ocean retracking quality flag for ea	ch 20-Hz measuren	nent record. The bit value of this flag indica	ates any problems when set.
Ocean Retracking Quality Flag: This flag is currently set for particular terms of the set of the se	roducts over land ar	nd sea ice, but this is to be expected. The r	number of products with this error flag set is given below.
Number of products with errors: 64			
L2 Retracking Flags (20Hz, PLRM)			
CryoSat L2 data includes an ocean retracking quality flag for ea	ich 20-Hz PLRM me	asurement record. The bit value of this flag	g indicates any problems when set.
Ocean Retracking Quality Flag (PLRM): This flag is currently	set for products IOF	PR and IOPN products over sea ice, but thi	is is to be expected.
Number of products with errors: 140			
	6. <mark>IOP</mark> L2 P	ole-to-Pole Data Quality	Check
6.1 P2P Product Format Check			
Each product, retrieved and unpacked from the science server,	is checked to ensur	e it consists of both an XML header file (.F	IDR) and a NetCDF product file (.nc).
Number of products with errors: 0		,	
6.2 P2P Product Header Analysis			
For all products, a series of pre-defined checks are performed of	on the MPH and SPI	H in order to identify any inconsistencies a	nd/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-det	ermined baseline and also to check the val	lidity 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 Geophysica	I Group are checked	d for the default error value (32767).	
Currently, there are some common auxiliary correction error followed by a table highlighting any additional issues which			to surface type. All common flags are summarised in the list below,
			neric Corection, Wet Tropospheric Correction, Inverse Barometric Correction II be resolved in a future IPF update. The affected products are not reported
> Sea State Bias & Sea State Bias PLRM: The error value is of t	currently set for proc	lucts over sea ice, but this is to be expecte	ed.
> Mean Sea Surface: The error value is currently set for produc	cts over land and se	a ice, but this is to be expected.	
> Mean Dynamic Topography: The error value is currently set	for products over la	and and sea ice, but this is to be expected.	
> Altimetric Wind Speed Error: The error value is currently se	t for products over l	and and sea ice, but this is to be expected	L
Number of products with errors: 30			
Product		Test Failed	Description
CS_OFFL_SIR_IOP_220191107T233737_20191108T00271	2_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_220191108T002712_20191108T01165	0_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_220191108T011650_20191108T02062	.6_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_220191108T020626_20191108T02560	4_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_220191108T025604_20191108T03453	9_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_220191108T034539_20191108T04351	7_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_220191108T043517_20191108T05245	.3_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)

Topography (1)

CS\_OFFL\_SIR\_IOP\_2\_\_20191108T052453\_20191108T061431\_C001

CS\_OFFL\_SIR\_IOP\_2\_20191108T061431\_20191108T070407\_C001

CS\_OFFL\_SIR\_IOP\_2\_\_20191108T070407\_20191108T075345\_C001

CS\_OFFL\_SIR\_IOP\_2\_\_20191108T075345\_20191108T084320\_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)

Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography height (solution 1)

CS_OFFL_SIR_IOP_220191108T084320_20191108T093258_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_220191108T093258_20191108T102234_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_220191108T102234_20191108T111212_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_220191108T111212_20191108T120147_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_220191108T120147_20191108T125125_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_220191108T125125_20191108T134101_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_220191108T134101_20191108T143039_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_220191108T143039_20191108T152014_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_220191108T152014_20191108T160952_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_220191108T160952_20191108T165928_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_220191108T165928_20191108T174906_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_220191108T174906_20191108T183842_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_220191108T183842_20191108T192820_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_220191108T192820_20191108T201755_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_220191108T201755_20191108T210733_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_220191108T210733_20191108T215709_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_220191108T215709_20191108T224647_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_220191108T224647_20191108T233622_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_220191108T233622_20191109T002600_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:
 0

6.6 P2P Measurement	Quality	Flag	Check
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#### 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.

once the 121 addancy hags are copied une		33, please see decti-		t of products al	iecteu.	
Number of products with errors:	30					
P2P Quality Flags (20Hz PLRM)						
Since the P2P Quality Flags are copied dire	ctly from the L2 Quality Fla	gs, please see Secti	on 5.6 for the full list	t of products af	fected.	
Number of products with errors:	30					
P2P Quality Flags (1 Hz & 1Hz PLR	? <b>M</b> )					
Since the P2P Quality Flags are copied dire	ctly from the L2 Quality Fla	gs, please see Secti	on 5.6 for the full list	t of products af	fected.	
Number of products with errors:	30					

6.8 P2P Ocean Retracking Qu	ality Check
P2P Retracking Flags (20Hz) Cryosat P2P data includes an ocean retrack	ing 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): T	his flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.
Number of products with errors:	28
P2P Retracking Flags PLRM	
CryoSat L2 data includes an ocean retrackin	g 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): ⊺	his 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