

# 1. Overview

Report Production:	19-Dec-2022	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

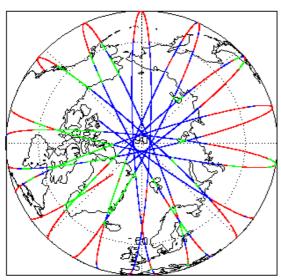
#### We would love to hear from you!

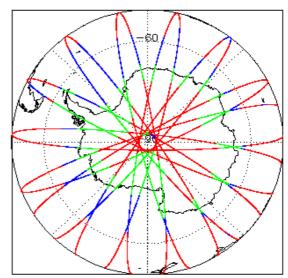
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2\_qc\_team@telespazio.com

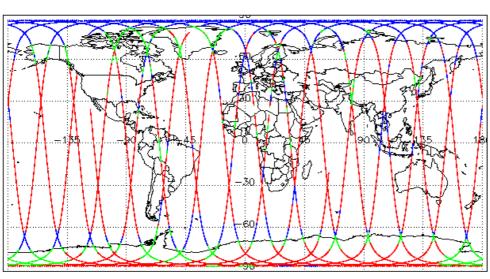
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

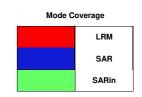
M	ission / Instru	ment News
	14-Dec-2022	None
	15-Dec-2022	None
	16-Dec-2022	Nothing planned

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. IOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

#### 4.2 L1B Product Header Analysis

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

Number of products with errors:

(

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

0

#### 4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

0

#### 4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.

> Attitude Correction Missing: This flag is currently set in error for IOPR products due to a configuration issue. The attitude correction is actually not missing. This will be resolved in the next SW undate.

Number of products with errors:

0

# 4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected. The table provides the full list of products flagged

Number of products with errors:

21

Test Failed Description  CS_OFFL_SIR_IOPN1B_20221215T011049_202221215T011125_C001  Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T060824_20221215T061210_C001  Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T070135_20221215T070257_C001  Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T070355_20221215T070257_C001  Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T0703540_20221215T070257_C001  Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T110601_20221215T111046_C001  Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T141920_20221215T141995_C001  Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T141920_20221215T141995_C001  Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T16453_20221215T165002_C001  Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T173512_20221215T1973751_C001  Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T19737_20221215T191840_C001  Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T205299_20221215T205290_20221215T205290_20221215T025290_20221215T02529_20221215T02529_20221215T02529_20221215T02529_20221215T02529_20221215T02529_20221215T02529_20221215T02529_20221215T02529_20221215T02529_20221215T02529_20221215T02529_20221215T02529_20221215T02529_20221215T02529_20221215T02529_20221215T0252150425001  Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T044215_C001  Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T064457_20221215T044215_C001  Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SI			la
CS_OFFL_SIR_IOPNIB_20221215T061722_20221215T062232_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T060824_20221215T070257_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T092640_20221215T092853_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T1092640_20221215T1092853_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T110601_20221215T111046_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T141920_20221215T1106002_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T14959_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T165453_20221215T165002_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T19737_20221215T191840_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T205209_20221215T205526_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T205529_20221215T205740_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T042106_20221215T042811_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T042106_20221215T042811_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T042106_20221215T042113_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T042106_20221215T051139_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T0605742_20221215T061139_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T085722_20221215T085001_C001  Los		Test Failed	Description
CS_OFFL_SIR_IOPN1B_20221215T060824_20221215T0601210_C001  Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T070257_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T092640_20221215T092853_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T110601_20221215T111046_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T141920_20221215T141959_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T164543_20221215T165002_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T173512_20221215T191840_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T191737_20221215T191840_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T205209_20221215T205526_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T205529_20221215T205540_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T215045_202011 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T042106_20221215T042811_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T044149_20221215T042811_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T064479_20221215T065200_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T064457_20221215T065200_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T064457_20221215T068501_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T064457_20221215T085901_C001 Loss of Echo The tracking echo is missing for one	CS_OFFL_SIR_IOPN1B_20221215T011049_20221215T011125_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPNIB_20221215T070135_20221215T092853_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T1110601_20221215T111046_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T141920_20221215T141959_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T141920_20221215T141959_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T16503_20201  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T19737_20221215T191840_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T19737_20221215T191840_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T205209_20221215T205526_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T205209_20221215T205526_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T205452_0201215T005740_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T044149_20221215T042811_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T044149_20221215T044215_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T064457_20221215T014215_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T064457_20221215T014215_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T064457_20221215T08500_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T085722_20221215T08500_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T085722_20221215T085901_C001  Loss of E	CS_OFFL_SIR_IOPN1B_20221215T051722_20221215T052232_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221215T092640_20221215T11046_C001  CS_OFFL_SIR_IOPN1B_20221215T1110601_20221215T111046_C001  CS_OFFL_SIR_IOPN1B_20221215T1110601_20221215T111046_C001  CS_OFFL_SIR_IOPN1B_20221215T141920_20221215T141959_C001  CS_OFFL_SIR_IOPN1B_20221215T141920_20221215T165002_C001  CS_OFFL_SIR_IOPN1B_20221215T164543_20221215T165002_C001  CS_OFFL_SIR_IOPN1B_20221215T173512_20221215T173751_C001  CS_OFFL_SIR_IOPN1B_20221215T173512_20221215T191840_C001  CS_OFFL_SIR_IOPN1B_20221215T191737_20221215T191840_C001  CS_OFFL_SIR_IOPN1B_20221215T205209_20221215T205526_C001  CS_OFFL_SIR_IOPN1B_20221215T205209_20221215T205526_C001  CS_OFFL_SIR_IOPN1B_20221215T205529_20221215T205740_C001  CS_OFFL_SIR_IOPN1B_20221215T205406_20221215T215420_C001  CS_OFFL_SIR_IOPN1B_20221215T042106_20221215T042106_20221215T042101  CS_OFFL_SIR_IOPN1B_20221215T042106_20221215T042106_20221215T044149_20221215T044149_20221215T044149_20221215T044149_20221215T044149_5001  CS_OFFL_SIR_IOPN1B_20221215T050742_20221215T051139_C001  CS_OFFL_SIR_IOPN1B_20221215T064457_20221215T065200_C001  CS_OFFL_SIR_IOPN1B_20221215T064457_20221215T065200_C001  CS_OFFL_SIR_IOPN1B_20221215T064457_20221215T065200_C001  CS_OFFL_SIR_IOPN1B_20221215T064457_20221215T065200_C001  CS_OFFL_SIR_IOPN1B_20221215T064457_20221215T08501_C001  CS_OFFL_SIR_IOPN1B_20221215T085722_20221215T085901_C001  CS_OFFL_SIR_IOPN1B_20221215T085722_20221215T085901_C001  CS_OFFL_SIR_IOPN1B_20221215T141335_20221215T141422_C001  CS_OFFL_SIR_IOPN1B_20221215T141335_20221215T141422_C001  CS_OFFL_SIR_IOPN1B_20221215T141335_00221215T141422_C001  CS_OFFL_SIR_IOPN1B_20221215T141335_00221215T141422_C001  CS_OFFL_SIR_IOPN1B_20221215T141335_00221215T141422_C001  CS_OFFL_SIR_IOPN1B_20221215T141335_00221215T141422_C001  CS_OFFL_SIR_IOPN1B_20221215T141335_00221215T141422_C001  CS_OFFL_SIR_IOPN1B_20221215T141335_00221215T141422_C001  CS_OFFL_SIR_IOPN1B_20221215T141335_00221215T141422_C001  CS_OFFL_SIR_IOPN1B_20221215T04141935_00221215T141422_C001  CS_OFFL_SIR_IOPN1B_20221215T141335_00221215T141422_C001  CS_OFFL_SIR_IOP	CS_OFFL_SIR_IOPN1B_20221215T060824_20221215T061210_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221215T110601_20221215T111046_C001  Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T141920_20221215T14195_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T165434_20221215T165002_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T173512_20221215T173751_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T191737_20221215T191840_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T205529_20221215T205526_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T205529_20221215T20540_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T045205221215T2420_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T042106_20221215T042811_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T044149_20221215T044215_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T064457_20221215T065200_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T064457_20221215T062500_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T085722_20221215T085901_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T085722_20221215T085901_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T085722_20221215T085901_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T04114325_C0211 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPN1B_20221215T070135_20221215T070257_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221215T141920_20221215T141959_C001  Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T16543_20221215T173751_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T173512_20221215T191840_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T191737_20221215T191840_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T205209_20221215T205526_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T205529_20221215T205740_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T04529_20221215T205740_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T04520221215T0420_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T044149_20221215T044215_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T044149_20221215T051139_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T065209_20221215T085201_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T08529_20221215T085901_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T085722_20221215T085901_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T141335_20221215T085901_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T141335_20221215T141422_C001 Loss of Echo 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 re	CS_OFFL_SIR_IOPN1B_20221215T092640_20221215T092853_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221215T164543_20221215T165002_C001  Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPN1B_20221215T173512_20221215T191840_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPN1B_20221215T205209_20221215T205526_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPN1B_20221215T205209_20221215T205740_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPN1B_20221215T205529_20221215T205740_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPN1B_20221215T215045_20221215T215420_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20221215T042106_20221215T042811_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20221215T044149_20221215T044215_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20221215T050742_20221215T04215_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20221215T064457_20221215T065200_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20221215T082529_20221215T082601_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20221215T082529_20221215T082601_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20221215T082529_20221215T082601_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20221215T082529_20221215T085901_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20221215T085722_20221215T085901_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20221215T141335_20221215T141422_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPN1B_20221215T110601_20221215T111046_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221215T173512_20221215T191840_C001  CS_OFFL_SIR_IOPN1B_20221215T191737_20221215T191840_C001  CS_OFFL_SIR_IOPN1B_20221215T205209_20221215T205526_C001  CS_OFFL_SIR_IOPN1B_20221215T205209_20221215T205740_C001  CS_OFFL_SIR_IOPN1B_20221215T205529_20221215T205740_C001  CS_OFFL_SIR_IOPN1B_20221215T215045_20221215T215420_C001  CS_OFFL_SIR_IOPN1B_20221215T215045_20221215T215420_C001  CS_OFFL_SIR_IOPN1B_20221215T042106_20221215T215420_C001  CS_OFFL_SIR_IOPN1B_20221215T042106_20221215T042811_C001  CS_OFFL_SIR_IOPN1B_20221215T042106_20221215T042811_C001  CS_OFFL_SIR_IOPN1B_20221215T044149_20221215T044215_C001  CS_OFFL_SIR_IOPN1B_20221215T044149_20221215T044215_C001  CS_OFFL_SIR_IOPN1B_20221215T050742_20221215T051139_C001  CS_OFFL_SIR_IOPN1B_20221215T064457_20221215T065200_C001  CS_OFFL_SIR_IOPN1B_20221215T064457_20221215T065200_C001  CS_OFFL_SIR_IOPN1B_20221215T085722_20221215T085901_C001  CS_OFFL_SIR_IOPN1B_20221215T085722_20221215T085901_C001  CS_OFFL_SIR_IOPN1B_20221215T141335_20221215T141422_C001  CS_OFFL_SIR_IOPN1B_20221215T141422_C001  CS_OFFL_SI	CS_OFFL_SIR_IOPN1B_20221215T141920_20221215T141959_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPNIB_20221215T191737_20221215T191840_C001  Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T205529_20221215T205526_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T205529_20221215T205740_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPNIB_20221215T215045_20221215T215420_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPRIB_20221215T042106_20221215T042811_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPRIB_20221215T044149_20221215T044215_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPRIB_20221215T050742_20221215T051139_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPRIB_20221215T06445T_20221215T065200_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPRIB_20221215T08457_20221215T082601_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPRIB_20221215T085722_20221215T085901_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPRIB_20221215T141335_20221215T141422_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPRIB_20221215T141335_20221215T141422_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPN1B_20221215T164543_20221215T165002_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221215T205209_20221215T205526_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T205529_20221215T205740_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T215045_20221215T215420_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T0421106_20221215T042811_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T044149_20221215T044215_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T050742_20221215T044215_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T06445T_20221215T065200_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T08457_20221215T082601_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T085722_20221215T085901_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T085722_20221215T085901_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T141335_20221215T141422_C001  Loss of Echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T141335_20221215T141422_C001  Loss of Echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPN1B_20221215T173512_20221215T173751_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221215T205529_20221215T205740_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPN1B_20221215T215045_20221215T215420_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T042110_20221215T042811_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T044149_20221215T044215_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T050742_20221215T044215_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T050742_20221215T065200_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T08457_20221215T085200_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T085722_20221215T085901_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T085722_20221215T085901_C001  Loss of Echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T141335_20221215T141422_C001  Loss of Echo  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	CS_OFFL_SIR_IOPN1B_20221215T191737_20221215T191840_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221215T215045_20221215T042811_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T042106_20221215T042811_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T044149_20221215T044215_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T050742_20221215T051139_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T064457_20221215T065200_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T082529_20221215T082601_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T085722_20221215T085901_C001 Loss of Echo The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T141335_20221215T141422_C001 Loss of Echo The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T141335_20221215T141422_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPN1B_20221215T205209_20221215T205526_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221215T042106_20221215T042811_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T044149_20221215T044215_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T050742_20221215T051139_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T064457_20221215T065200_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T082529_20221215T082601_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T085722_20221215T085901_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T141335_20221215T141422_C001  Loss of Echo  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	CS_OFFL_SIR_IOPN1B_20221215T205529_20221215T205740_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221215T044149_20221215T044215_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T050742_20221215T051139_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T064457_20221215T065200_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T082529_20221215T082601_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T085722_20221215T085901_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T141335_20221215T141422_C001  Loss of Echo  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	CS_OFFL_SIR_IOPN1B_20221215T215045_20221215T215420_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221215T050742_20221215T051139_C001  CS_OFFL_SIR_IOPR1B_20221215T064457_20221215T065200_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T082529_20221215T082601_C001  Loss of Echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T085722_20221215T085901_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T141335_20221215T141422_C001  Loss of Echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20221215T042106_20221215T042811_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221215T064457_20221215T065200_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T082529_20221215T082601_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T085722_20221215T085901_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T141335_20221215T141422_C001  Loss of Echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20221215T044149_20221215T044215_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221215T082529_20221215T082601_C001  CS_OFFL_SIR_IOPR1B_20221215T085722_20221215T085901_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T141335_20221215T141422_C001  Loss of Echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20221215T050742_20221215T051139_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221215T085722_20221215T085901_C001  Loss of Echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_IOPR1B_20221215T141335_20221215T141422_C001  Loss of Echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20221215T064457_20221215T065200_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221215T141335_20221215T141422_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20221215T082529_20221215T082601_C001	Loss of Echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_IOPR1B_20221215T085722_20221215T085901_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221215T183507_20221215T184145_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20221215T141335_20221215T141422_C001	Loss of Echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_IOPR1B_20221215T183507_20221215T184145_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. IOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

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

Number of products with errors:

## 5.2 L2 Product Header Analysis

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

Number of products with errors:

## 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

#### 5.4 L2 Auxiliary Correction Error Check

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

Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20221215T105716_20221215T105752_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221215T005842_20221215T010306_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20221215T015207_20221215T015332_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221215T020129_20221215T020242_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221215T024043_20221215T024232_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221215T033139_20221215T033305_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221215T033820_20221215T034122_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_20221215T051139_20221215T051445_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_20221215T051722_20221215T052232_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_20221215T060824_20221215T061210_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221215T065200_20221215T065434_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_20221215T075053_20221215T075327_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_20221215T082659_20221215T083309_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_20221215T092640_20221215T092853_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_20221215T100922_20221215T101102_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221215T110601_20221215T111046_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_20221215T115740_20221215T120018_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_20221215T132843_20221215T133233_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_20221215T142941_20221215T143107_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20221215T150825_20221215T151139_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_20221215T155924_20221215T155946_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221215T165558_20221215T165713_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_20221215T173808_20221215T173932_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_20221215T191208_20221215T191619_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_20221215T191737_20221215T191840_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_20221215T201136_20221215T201407_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_20221215T205209_20221215T205526_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_20221215T205529_20221215T205740_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_20221215T215045_20221215T215420_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_20221215T223212_20221215T223603_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_20221215T233156_20221215T233339_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221215T010306_20221215T011049_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_20221215T024233_20221215T024911_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_20221215T024911_20221215T025204_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_20221215T042106_20221215T042811_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_20221215T042811_20221215T043004_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_20221215T060232_20221215T060707_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_20221215T060707_20221215T060824_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_20221215T074035_20221215T074544_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_20221215T074544_20221215T074709_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_20221215T092220_20221215T092640_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_20221215T105752_20221215T105810_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221215T105810_20221215T110139_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221215T110147_20221215T110601_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_20221215T123631_20221215T124639_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_20221215T140855_20221215T141005_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221215T142000_20221215T142748_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_20221215T155946_20221215T161012_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_20221215T173932_20221215T174645_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_20221215T191841_20221215T192404_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_20221215T201407_20221215T201631_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221215T204733_20221215T204815_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_IOPR_2_20221215T205741_20221215T210435_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_20221215T211906_20221215T212504_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221215T223604_20221215T224111_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.

# 5.6 L2 Measurement Quality Flag Check

# L2 Quality Flags (20 Hz)

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

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

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

Number of products with errors:

Product	Total Falled	Description
Product  CS_OFFL_SIR_IOPM_2_20221214T234631_20221215T001112_C001	Test Failed  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	Description The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS OFFL SIR IOPM 2 20221215T001330 20221215T001851 C001	OCOG Altimeter Range Quality, OCOG	set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set
	Backscatter Quality  Ocean Altimeter Range, SSHA, SWH	for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPM_2_20221215T002620_20221215T005842_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPM_2_20221215T012231_20221215T014152_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221215T014522_20221215T015005_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_20221215T015332_20221215T020129_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_20221215T020605_20221215T023836_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_20221215T031950_20221215T032823_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_20221215T033305_20221215T033819_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_20221215T034450_20221215T040631_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_20221215T040916_20221215T041853_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_20221215T043005_20221215T043109_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_20221215T043204_20221215T043356_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_20221215T044322_20221215T044720_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_20221215T044920_20221215T045525_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_20221215T045713_20221215T050742_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_20221215T052418_20221215T055411_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_20221215T055503_20221215T055731_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_20221215T061310_20221215T064457_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_20221215T065435_20221215T065630_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_20221215T070329_20221215T070707_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_20221215T070733_20221215T072028_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_20221215T072031_20221215T073152_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_20221215T075327_20221215T080935_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_20221215T083310_20221215T083550_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_20221215T083608_20221215T084036_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_20221215T084302_20221215T085722_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_20221215T085901_20221215T090144_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_20221215T094425_20221215T100806_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_20221215T101102_20221215T101946_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_20221215T102210_20221215T104656_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_20221215T111902_20221215T114635_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_20221215T115318_20221215T115740_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_20221215T120129_20221215T122730_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_20221215T125427_20221215T132510_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_20221215T133233_20221215T133820_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_20221215T134105_20221215T134604_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_20221215T134921_20221215T135646_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_20221215T141725_20221215T141817_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_20221215T143107_20221215T150455_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_20221215T151139_20221215T151652_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_20221215T152123_20221215T152139_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_20221215T152255_20221215T153757_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_20221215T155409_20221215T155537_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_20221215T161012_20221215T161946_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_20221215T162231_20221215T164403_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_20221215T170039_20221215T172009_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_20221215T172052_20221215T172523_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_20221215T172741_20221215T173318_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_20221215T175108_20221215T175513_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_20221215T175617_20221215T180713_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_20221215T180716_20221215T182321_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_20221215T182515_20221215T183040_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_20221215T183059_20221215T183321_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_20221215T184145_20221215T185412_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_20221215T185509_20221215T191208_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_20221215T193546_20221215T194509_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_20221215T194712_20221215T200218_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_20221215T200443_20221215T200938_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_20221215T200945_20221215T200952_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_20221215T201832_20221215T203059_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_20221215T203540_20221215T204733_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_20221215T204815_20221215T204834_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_20221215T212634_20221215T214134_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_20221215T214412_20221215T214853_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_20221215T214915_20221215T214924_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_20221215T215542_20221215T222213_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_20221215T222331_20221215T222951_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_20221215T225556_20221215T231638_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_20221215T232427_20221215T232808_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_20221215T232830_20221215T233156_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_20221215T233504_20221216T000248_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_20221215T025447_20221215T025610_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_20221215T033139_20221215T033305_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_20221215T083550_20221215T083608_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_20221215T104657_20221215T104930_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_20221215T205529_20221215T205740_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_20221215T214924_20221215T214931_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_20221215T225058_20221215T225231_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_20221215T232158_20221215T232427_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_20221215T034122_20221215T034450_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221215T040632_20221215T040916_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_20221215T045526_20221215T045713_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_20221215T142913_20221215T142915_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_20221215T151809_20221215T152123_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_20221215T222213_20221215T222331_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

# L2 Quality Flags (20 Hz 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.

101

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20221215T005842_20221215T010306_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_20221215T020129_20221215T020242_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_20221215T024043_20221215T024232_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_20221215T025447_20221215T025610_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_20221215T030018_20221215T030028_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_20221215T030845_20221215T031029_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_20221215T033820_20221215T034122_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_20221215T051139_20221215T051445_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_20221215T051722_20221215T052232_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_20221215T060824_20221215T061210_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_20221215T070135_20221215T070257_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_20221215T073152_20221215T073420_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_20221215T075053_20221215T075327_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_20221215T082659_20221215T083309_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_20221215T084036_20221215T084217_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_20221215T092640_20221215T092853_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_20221215T092945_20221215T093212_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_20221215T101946_20221215T102140_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_20221215T104657_20221215T104930_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_20221215T105020_20221215T105142_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_20221215T110601_20221215T111046_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_20221215T114900_20221215T115032_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_20221215T115205_20221215T115318_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_20221215T132843_20221215T133233_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_20221215T135646_20221215T135841_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_20221215T140337_20221215T140443_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_20221215T141422_20221215T141544_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_20221215T141647_20221215T141725_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_20221215T142941_20221215T143107_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_20221215T150825_20221215T151139_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_20221215T151652_20221215T151809_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_20221215T153758_20221215T153919_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_20221215T164543_20221215T165002_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_20221215T173512_20221215T173751_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_20221215T173808_20221215T173932_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_20221215T183321_20221215T183507_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_20221215T191737_20221215T191840_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_20221215T200300_20221215T200442_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

CO_OFF_SR_IOPN_2_982915780910_982919700990_0000  CO_OFF_SR_IOPN_2_982915780910_982919700990_0000  CO_OFF_SR_IOPN_2_982915780910_982919700990_0000  CO_OFF_SR_IOPN_2_982915780910_98291970100900_0000  CO_OFF_SR_IOPN_2_982915780910_9829197010090_0000  CO_OFF_SR_IOPN_2_982915780910_9829197010090_0000  CO_OFF_SR_IOPN_2_982915780910_98291970100000  CO_OFF_SR_IOPN_2_982915780910_982919701000000000000000000000000000000000			
CO. OFFL. SRI. JOPN 2. 2021/215/12022 2222/215/12020. CDI 10000 Allimore Regina Dubly PLIAN. CDI 10000 Allimore Regina Dubli Balanciani Dubly PLIAN. CDI 10000 Allimore Regina Dubli Balanciani Dubli PLIAN. CDI 10000 Allimore Re	CS_OFFL_SIR_IOPN_2_20221215T201631_20221215T201756_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
ODO Relacionation Causty ODO Relacionation Cau	CS_OFFL_SIR_IOPN_2_20221215T203100_20221215T203256_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
Column   C	CS_OFFL_SIR_IOPN_2_20221215T203256_20221215T203540_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
Set OFFL SRI IOPN 2 20221215T02095 2022121T02000 C001  C00 OFFL SRI IOPN 2 20221215T02095 2022121T02000 C001  C01 OFFL SRI IOPN 2 20221215T02095 2022121T02000 C001  C02 OFFL SRI IOPN 2 20221215T02010 2022121T02000 C001  C03 OFFL SRI IOPN 2 2022121T02010 2022121T02000 C001  C03 OFFL SRI IOPN 2 2022121T02010 2022121T02000 C001  C04 OFFL SRI IOPN 2 2022121T02010 2022121T02000 C001  C05 OFFL SRI IOPN 2 2022121T02000 2022121T010000 C001  C05 OFFL SRI IOPN 2 2022121T01000 2022121T00000 C001  C05 OFFL SRI IOPN 2 2022121T01000 2022121T00000 C001  C05 OFFL SRI IOPN 2 2022121T01000 2022121T00000 C001  C05 OFFL SRI IOPN 2 2022121T00000 C001  C05 OFFL SRI IOPN 2 2022121T00000 C02	CS_OFFL_SIR_IOPN_2_20221215T205209_20221215T205526_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
COCO Backscatter Causily Four serverseds  CS_OFFL_SIR_LOPN_2_20221215T02014_20221215T02045_0001  CS_OFFL_SIR_LOPN_2_20221215T02015_20221215T02045_0001  CS_OFFL_SIR_LOPN_2_20221215T02015_20221215T02045_0001  CS_OFFL_SIR_LOPN_2_20221215T02015_20221215T02045_0001  CS_OFFL_SIR_LOPN_2_20221215T02015_20221215T02045_0001  CS_OFFL_SIR_LOPN_2_20221215T02015_20221215T02045_0001  CS_OFFL_SIR_LOPN_2_20221215T02015_20221215T02045_0001  CS_OFFL_SIR_LOPN_2_20221215T02015_20221215T02045_0001  CS_OFFL_SIR_LOPN_2_20221215T02016_20221215T02045_0001  CS_OFFL_SIR_LOPN_2_20221215T02016_20221215T02045_0001  CS_OFFL_SIR_LOPN_2_20221215T02016_20221215T00150_0001  CS_OFFL_SIR_LOPN_2_20221215T01006_20221215T00150_0001  CS_OFFL_SIR_LOPN_2_20221215T01006_20221215T01006_0001  CS_OFFL_SIR_LOPN_2_20221215T01006_0001  CS_OFFL_SIR_LOPN_2_20221215T01006_000000000000000000000000000000000	CS_OFFL_SIR_IOPN_2_20221215T215045_20221215T215420_C001	and Backscatter Quality PLRM, 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
S. OFFL. SIR. OPPL 2. 20221215T022312 20221215T023316_20221215	CS_OFFL_SIR_IOPN_2_20221215T222955_20221215T223118_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
and Backscarter Coulty FLEN. COCA Alternate Planys and Stackboard Country Flen. Plan. Coca Alternate Planys and Stackboard Country Alternate Planys and Stackboa	CS_OFFL_SIR_IOPN_2_20221215T223212_20221215T223603_C001	and Backscatter Quality PLRM, 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
GS_OFFL_SIR_IOPRL_2_20221215T002346_20221215T002302_C001  All read Partners Flarge, and Selection Coality Flags have been set for one or none records  CS_OFFL_SIR_IOPRL_2_20221215T002346_20221215T002302_C001  CS_OFFL_SIR_IOPRL_2_20221215T010306_20221215T01049_C001  All read Partners Flarge, SSHA, SWH and Selectation Coality Flags have been set for one or none records  CS_OFFL_SIR_IOPRL_2_20221215T011034_C001  CS_OFFL_SIR_IOPRL_2_20221215T011034_C001  CS_OFFL_SIR_IOPRL_2_20221215T011034_C001  CS_OFFL_SIR_IOPRL_2_20221215T011126_20221215T011030_C001  CS_OFFL_SIR_IOPRL_2_20221215T011326_20221215T011320_C001  CS_OFFL_SIR_IOPRL_2_20221215T011326_20221215T011320_C001  CS_OFFL_SIR_IOPRL_2_20221215T011326_20221215T01500_C001  CS_OFFL_SIR_IOPRL_2_20221215T013004C_25221215T020004_C001  CS_OFFL_SIR_IOPRL_2_20221215T010406_25221215T020004_C001  CS_OFFL_SIR_IOPRL_2_20221215T00406_25221215T020004_C001  CS_OFFL_SIR_IOPRL_2_20221215T00406_25221215T020004_C001  CS_OFFL_SIR_IOPRL_2_20221215T00406_25221215T020004_C001  CS_OFFL_SIR_IOPRL_2_20221215T00406_25221215T020004_C001  CS_OFFL_SIR_IOPRL_2_20221215T00406_252221215T020004_C001  CS_OFFL_SIR_IOPRL_2_20221215T00406_252221215T020004_C001  CS_OFFL_SIR_IOPRL_2_20221215T00406_252221215T020004_C001  CS_OFFL_SIR_IOPRL_2_20221215T00406_252221215T020004_C001  CS_OFFL_SIR_IOPRL_2_20221215T00406_25221215T020004_C001  CS_OFFL_SIR_IOPRL_2_20221215T00406_252221215T020004_C001  CS_OFFL_SIR_IOPRL_2_20221215T00406_252221215T020004_C001  CS_OFFL_SIR_IOPRL_2_20221215T00406_252221215T020004_C001  CS_OFFL_SIR_IOPRL_2_20221215T00406_252221215T004004_C001  CS_OFFL_SIR_IOPRL_2_20221215T00406_252221215T004004_C001  CS_OFFL_SIR_IOPRL_2_20221215T00406_252221215T004004_C001  CS_OFFL_SIR_IOPRL_2_20221215T004004_C001  CS_OFFL_SIR_IOPRL_2_20221215T004004_C001  CS_OFFL_SIR_IOPRL_2_20221215T004004_C001  CS_OFFL_SIR_IOPRL_2_20221215T004004_C001  CS_OFFL_SIR_IOPRL_2_20221215T004004_C001  CS_OFFL_SIR_IOPRL_2_20221215T004004_C001  CS_OFFL_SIR_IOPRL_2_20221215T004004_C001  CS_OFFL_SIR_IOPRL_2_20221215T004004_C001	CS_OFFL_SIR_IOPN_2_20221215T232158_20221215T232427_C001	and Backscatter Quality PLRM, 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
and Baskscatter Coality FIRM. OCCO All Co. OFFL_SIR_JOPR_2_20221215T010306_20221215T01040P_C001  CS_OFFL_SIR_JOPR_2_20221215T010306_20221215T01130P_C001  CS_OFFL_SIR_JOPR_2_20221215T011306_2021215T01130P_C001  CS_OFFL_SIR_JOPR_2_20221215T01130P_C001  CS_OFFL_SIR_JOPR_2_20221215T01130P_C001  CS_OFFL_SIR_JOPR_2_20221215T01130P_C001  CS_OFFL_SIR_JOPR_2_20221215T01130P_C001  CS_OFFL_SIR_JOPR_2_20221215T01130P_C001  CS_OFFL_SIR_JOPR_2_20221215T01130P_C001  CS_OFFL_SIR_JOPR_2_20221215T01130P_C001  CS_OFFL_SIR_JOPR_2_20221215T01130P_C001  CS_OFFL_SIR_JOPR_2_20221215T01000P_C001  CS_OFFL_SIR_JOPR_2_20221215T01000P_C001  CS_OFFL_SIR_JOPR_2_20221215T0000P_C001  CS_OFFL_SIR_JOPR_2_2022121	CS_OFFL_SIR_IOPN_2_20221215T233156_20221215T233339_C001	and Backscatter Quality PLRM, 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
and Backscatter (Quality PLEM, COCO) Alternet Flarage and Backscatter (Quality PLEM, COCO) Alternet Flarage and Backscatter (Quality PLEM, COCO) Alternet Flarage and Backscatter (Quality Flags have been set for one or more records  CS_OFFL_SIR_JOPR_2_20221215T011328_20221215T011320_CO01  CS_OFFL_SIR_JOPR_2_20221215T011348_20221215T011332_CO01  CS_OFFL_SIR_JOPR_2_20221215T011348_20221215T011332_CO01  CS_OFFL_SIR_JOPR_2_20221215T011348_20221215T011332_CO01  CS_OFFL_SIR_JOPR_2_20221215T01348_20221215T011332_CO01  CS_OFFL_SIR_JOPR_2_20221215T01348_20221215T01332_CO01  CS_OFFL_SIR_JOPR_2_20221215T01348_20221215T01332_CO01  CS_OFFL_SIR_JOPR_2_20221215T00505_20221215T013507_CO01  Alternet Flarage and Backscatter (Quality PLEM, COCO) Alternet Flara	CS_OFFL_SIR_IOPR_2_20221215T002346_20221215T002620_C001	and Backscatter Quality PLRM, 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_20221215T011348_20221215T01333_C001  OS_OFFL_SIR_IOPR_2_20221215T011348_20221215T01533_C001  OS_OFFL_SIR_IOPR_2_20221215T010505_20221215T01533_C001  OS_OFFL_SIR_IOPR_2_20221215T010505_20221215T01533_C001  OS_OFFL_SIR_IOPR_2_20221215T02042_20221215T01533_C001  OS_OFFL_SIR_IOPR_2_20221215T02042_20221215T020604_C001  CS_OFFL_SIR_IOPR_2_20221215T02042_20221215T020604_C001  OS_OFFL_SIR_IOPR_2_20221215T02042_20221215T020604_C001  OS_OFFL_SIR_IOPR_2_20221215T020242_20221215T020604_C001  OS_OFFL_SIR_IOPR_2_20221215T024931_20221215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T02423_20221215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T02423_20221215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T02403_20221215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T02403_20221215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20221215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20221215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20221215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20221215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20221215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20221215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20221215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20221215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20021215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20021215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20021215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20021215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20021215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20021215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20021215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20021215T02504_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20021215T025040_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20021215T025040_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_20021215T025040_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_C001  OS_OFFL_SIR_IOPR_2_20221215T025040_C001  OS_OFFL_SIR_IOPR_2_20221215T0250400	CS_OFFL_SIR_IOPR_2_20221215T010306_20221215T011049_C001	and Backscatter Quality PLRM, 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
OCOG Backscatter Quality PLRM, OCOG Alterneter Range, SSHA, SWH and Backscatter Quality PLRM,	CS_OFFL_SIR_IOPR_2_20221215T011125_20221215T011320_C001	and Backscatter Quality PLRM, 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
Ambieter Range and Backscatter Ouality PLRM, COCG Altimeter Range and Backscatter Ouality Plans (Cocan Altimeter Range and Backscatter Ouality Plans and Backscatter Ouality Plans (Cocan Altimeter Range and Backscatter Ouality Plans and Backscatter Ouality Plans (Cocan Altimeter Range	CS_OFFL_SIR_IOPR_2_20221215T011348_20221215T011533_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality PLRM, COS Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_IOPR_2_20221215T024911_20221215T024911_C001  Altimeter Range and Backscatter Quality PLRM, COS Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_IOPR_2_20221215T024911_20221215T025204_C001  CS_OFFL_SIR_IOPR_2_20221215T024911_20221215T025204_C001  CS_OFFL_SIR_IOPR_2_20221215T024911_20221215T025204_C001  CS_OFFL_SIR_IOPR_2_20221215T024911_20221215T025743_C001  CS_OFFL_SIR_IOPR_2_20221215T024912_20221215T025743_C001  CS_OFFL_SIR_IOPR_2_20221215T024912_20221215T025743_C001  CS_OFFL_SIR_IOPR_2_20221215T032823_20221215T033139_C001  CS_OFFL_SIR_IOPR_2_20221215T034122_20221215T034450_C001  CS_OFFL_SIR_IOPR_2_20221215T034122_20221215T034450_C001  CS_OFFL_SIR_IOPR_2_20221215T042811_2021  CS_OFFL_SIR_IOPR_2_20221215T042811_2021215T042811_C001  CS_OFFL_SIR_IOPR_2_20221215T042811_20221215T042801_C001  CS_OFFL_SIR_IOPR_2_20221215T042811_20221215T044005_C001  CS_OFFL_SIR_IOPR_2_20221215T043356_20221215T044005_C001  CS_OFFL_SIR_IOPR_2_20221215T044005_C001  CS_OFFL_SIR_IOPR_2_20221215T044005_C001  CS_OFFL_SIR_IOPR_2_20221215T044005_C001  CS_OFFL_SIR_IOPR_2_20221215T044005_C001  CS_OFFL_SIR_IOPR_2_20221215T044005_C001  CS_OFFL_	CS_OFFL_SIR_IOPR_2_20221215T015005_20221215T015207_C001	and Backscatter Quality PLRM, 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_20221215T024233_20221215T024911_C001  All meter Range and Backscatter Quality PLRM. OCOG All meter Range and Backscatter Quality Plank	CS_OFFL_SIR_IOPR_2_20221215T020242_20221215T020604_C001	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_20221215T024911_20221215T025204_C001  Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_IOPR_2_20221215T025610_20221215T025743_C001  CS_OFFL_SIR_IOPR_2_20221215T032823_20221215T033139_C001  CS_OFFL_SIR_IOPR_2_20221215T032823_20221215T033139_C001  CS_OFFL_SIR_IOPR_2_20221215T034122_20221215T034450_C001  CS_OFFL_SIR_IOPR_2_20221215T034122_20221215T042811_C001  CS_OFFL_SIR_IOPR_2_20221215T042106_20221215T042811_C001  CS_OFFL_SIR_IOPR_2_20221215T042811_20221215T042804_C001  CS_OFFL_SIR_IOPR_2_20221215T042811_20221215T04004_C001  CS_OFFL_SIR_IOPR_2_20221215T042811_20221215T04004_C001  CS_OFFL_SIR_IOPR_2_20221215T043056_20221215T044005_C001  CS_OFFL_SIR_IOPR_2_20221215T055802_20221215T055807_C001  CS_OFFL_SIR_IOPR_2_20221215T060232_20221215T060707_C001  CS_OFFL_SIR_IOPR_2_20221215T060232_20221215T060707_C001  Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_IOPR_2_20221215T043056_20221215T044005_C001  CS_OFFL_SIR_IOPR_2_20221215T060232_20221215T065807_C001  CS_OFFL_SIR_IOPR_2_20221215T060232_20221215T060707_C001  CS_OFFL_SIR_IOPR_2_20221215T060232_20221215T060707_C001  CS_OFFL_SIR_IOPR_2_20221215T060232_20221215T060707_C001  CS_OFFL_SIR_IOPR_2_20221215T060232_20221215T060707_C001  CS_OFFL_SIR_IOPR_2_20221215T	CS_OFFL_SIR_IOPR_2_20221215T024233_20221215T024911_C001	and Backscatter Quality PLRM, 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_20221215T032823_20221215T033139_C001  CS_OFFL_SIR_IOPR_2_20221215T032823_20221215T033139_C001  CS_OFFL_SIR_IOPR_2_20221215T032823_20221215T033139_C001  CS_OFFL_SIR_IOPR_2_20221215T032823_20221215T033139_C001  CS_OFFL_SIR_IOPR_2_20221215T034122_20221215T034450_C001  CS_OFFL_SIR_IOPR_2_20221215T042106_20221215T042811_C001  CS_OFFL_SIR_IOPR_2_20221215T042106_20221215T042811_C001  CS_OFFL_SIR_IOPR_2_20221215T042106_20221215T042811_C001  CS_OFFL_SIR_IOPR_2_20221215T042811_20221215T043004_C001  CS_OFFL_SIR_IOPR_2_20221215T043356_20221215T044005_C001  CS_OFFL_SIR_IOPR_2_20221215T043356_20221215T044005_C001  CS_OFFL_SIR_IOPR_2_20221215T043356_20221215T055807_C001  CS_OFFL_SIR_IOPR_2_20221215T060232_20221215T060707_C001  CS_OFFL_SIR_IOPR_2_20221215T060232_20221215T060707_C001  CS_OFFL_SIR_IOPR_2_20221215T060232_20221215T060707_C001  CCG an Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one more records  CS_OFFL_SIR_IOPR_2_20221215T055802_20221215T055807_C001  CS_OFFL_SIR_IOPR_2_20221215T060232_20221215T060707_C001  CCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one more records  CCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one more records  CCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one more records	CS_OFFL_SIR_IOPR_2_20221215T024911_20221215T025204_C001	and Backscatter Quality PLRM, 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
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range and Backscatter Quality Plags have been set for one more records	CS_OFFL_SIR_IOPR_2_20221215T025610_20221215T025743_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_IOPR_2_20221215T042106_20221215T042811_C001  CS_OFFL_SIR_IOPR_2_20221215T042106_20221215T042811_C001  CS_OFFL_SIR_IOPR_2_20221215T042811_20221215T042811_C001  CS_OFFL_SIR_IOPR_2_20221215T042811_20221215T043004_C001  CS_OFFL_SIR_IOPR_2_20221215T043356_20221215T043004_C001  CS_OFFL_SIR_IOPR_2_20221215T043356_20221215T044005_C001  CS_OFFL_SIR_IOPR_2_20221215T055802_20221215T055807_C001  CS_OFFL_SIR_IOPR_2_20221215T060232_20221215T060707_C001  CS_OFFL_SIR_IOPR_2_20221215T060232_20221215T060707_C001  Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG 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	CS_OFFL_SIR_IOPR_2_20221215T032823_20221215T033139_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM 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 PLRM, OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  CS_OFFL_SIR_IOPR_2_20221215T043356_20221215T044005_C001  CS_OFFL_SIR_IOPR_2_20221215T055802_20221215T055807_C001  CS_OFFL_SIR_IOPR_2_20221215T060232_20221215T060707_C001  Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one more records  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one more records  The OCOG Range and Backscatter Quality Flags have been set for one more records  The OCOG Range and Backscatter Quality Flags have been set for one more records  The OCOG Range and Backscatter Quality Flags have been set for one more records  The OCOG Range and Backscatter Quality Flags have been set for one more records  The OCOG Range and Backscatter Quality Flags have been set for one more records  The OCOG Range and Backscatter Quality Flags have been set for one more records  The OCOG Range and Backscatter Quality Flags have been set for one more records  The OCOG Range and Backscatter Quality Flags have been set for one more records	CS_OFFL_SIR_IOPR_2_20221215T034122_20221215T034450_C001	and Backscatter Quality PLRM, 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
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_IOPR_2_20221215T043356_20221215T044005_C001  CS_OFFL_SIR_IOPR_2_20221215T055802_20221215T055807_C001  CS_OFFL_SIR_IOPR_2_20221215T060232_20221215T060707_C001  Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPR_2_20221215T042106_20221215T042811_C001	and Backscatter Quality PLRM, 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_20221215T043356_20221215T044005_C001  CS_OFFL_SIR_IOPR_2_20221215T055802_20221215T055807_C001  CS_OFFL_SIR_IOPR_2_20221215T060232_20221215T060707_C001	CS_OFFL_SIR_IOPR_2_20221215T042811_20221215T043004_C001	and Backscatter Quality PLRM, 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
OCOG Backscatter Quality  OCOG Backscatter Quality  OCOG Backscatter Quality  OCOG Backscatter Quality  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags have been controlled by the OCOG Altimeter Range and Backscatter Quality Flags	CS_OFFL_SIR_IOPR_2_20221215T043356_20221215T044005_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by the OCOGA Altimeter Range and Backscatter Quality Flags have been seen to provide the provided by t	CS_OFFL_SIR_IOPR_2_20221215T055802_20221215T055807_C001	OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
	CS_OFFL_SIR_IOPR_2_20221215T060232_20221215T060707_C001	and Backscatter Quality PLRM, 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_20221215T064457_20221215T065200_C001	and Backscatter Quality PLRM, 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

Supplier Land Confug P. P.D. CODD  Code Planta Frag. SEA. No. 2011  Code Planta Frag. SEA. No. 2011			
Cell, CPRIL CRITICATION CONTRIBUTION CONTRIB	CS_OFFL_SIR_IOPR_2_20221215T074035_20221215T074544_C001	Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CQ_CPT_2RI_DPT_2A22125T09212_2221215T09210_CDD  CQ_CPT_2RI_DPT_2A22125T09212_2221215T09210_CDD  CQ_CPT_2RI_DPT_2A22125T0922_2221215T09210_CDD  CQ_CPT_2RI_DPT_2A22125T0922_2221215T0922_CDD  CQ_CPT_2RI_DPT_2A22125T1920_CDD_CDD  CQ_CPT_2RI_DPT_2A22125T1920_CDD_CDD  CQ_CPT_2RI_DPT_2A22125T1920_CDD_CDD  CQ_CPT_2RI_DPT_2A22125T1920_CDD_CDD_CDD_CDD  CQ_CPT_2RI_DPT_2A22125T1920_CDD_CDD_CDD_CDD_CDD_CDD_CDD_CDD_CDD_CD	CS_OFFL_SIR_IOPR_2_20221215T074544_20221215T074709_C001	and Backscatter Quality PLRM, 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_OPT_SRI_DOT_2_202215T106921_2000  CS_OPT_SRI_DOT_2_202215T106923_200015T108931_0000  CS_OPT_SRI_DOT_2_202215T106933_200015T108931_0000  CS_OPT_SRI_DOT_2_202215T106933_200015T108936_0000  CS_OPT_SRI_DOT_2_202215T106933_200015T108936_0000  CS_OPT_SRI_DOT_2_202215T106933_200015T108936_0000  CS_OPT_SRI_DOT_2_202215T106933_200015T108936_0000  CS_OPT_SRI_DOT_2_202215T106933_200015T108936_0000  CS_OPT_SRI_DOT_2_202215T106936_200015T108936_0000  CS_OPT_SRI_DOT_2_202215T106936_200015T108936_0000  CS_OPT_SRI_DOT_2_202215T106936_200015T108936_0000  CS_OPT_SRI_DOT_2_202215T106936_200015T108936_0000  CS_OPT_SRI_DOT_2_202215T106936_200015T108936_0000  CS_OPT_SRI_DOT_2_202215T106936_200015T108936_0000  CS_OPT_SRI_DOT_2_202215T106936_200015T108936_0000  CS_OPT_SRI_DOT_2_202215T106936_200015T108936_0000  CS_OPT_SRI_DOT_2_202215T106936_200015T108936_0000  CS_OPT_SRI_DOT_2_202215T106936_200015T10993_0000015T10993_0000	CS_OFFL_SIR_IOPR_2_20221215T080935_20221215T081148_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
20. OFFL_SRI_OFFL_2.002105T109019_2021215T100019_C001   20. OFFL_SRI_OFFL_2.002105T109019_2021215T100019_C001   20. OFFL_SRI_OFFL_2.002105T100019_2021215T100019_C001   20. OFFL_SRI_OFFL_2.002105T1	CS_OFFL_SIR_IOPR_2_20221215T084217_20221215T084302_C001	and Backscatter Quality PLRM, 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
Company   Comp	CS_OFFL_SIR_IOPR_2_20221215T090144_20221215T090531_C001	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_OFF_SIR_IOPR_2_9221215109953_9221215109954_O01  And ebostantic Cashly P.H.M. COCK Allerance Recognition State State Country P.M. COCK Allerance Recognition State S	CS_OFFL_SIR_IOPR_2_20221215T092032_20221215T092156_C001	and Backscatter Quality PLRM, 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
05_0FFL_SIR_IOPR_2_20221215T09091_20221215T09046_COU  Annuel Farge of Backscatter Caulity PLBN, OCOO Annuel Farge of Backscatter Caulity Fage have been set for one recross.  CS_0FFL_SIR_IOPR_2_20221215T108907_20221215T109902.0001  CS_0FFL_SIR_IOPR_2_20221215T109907_20221215T109902.0001  CS_0FFL_SIR_IOPR_2_20221215T109091_2021215T110991_COUI  CS_0FFL_SIR_IOPR_2_20221215T109091_20221215T110991_COUI  CS_0FFL_SIR_IOPR_2_20221215T109091_20221215T110991_COUI  CS_0FFL_SIR_IOPR_2_20221215T109091_20221215T110991_COUI  CS_0FFL_SIR_IOPR_2_20221215T109091_20221215T10998_COUI  CS_0FFL_SIR_IOPR_2_2022121	CS_OFFL_SIR_IOPR_2_20221215T092220_20221215T092640_C001	and Backscatter Quality PLRM, 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
OCCE Allementer Plange, SSHA, SWH and Backscatter Quality Flags have been set for one concern. Control Plant Contr	CS_OFFL_SIR_IOPR_2_20221215T092853_20221215T092944_C001	and Backscatter Quality PLRM, 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_20221215T10987_20221215T10982_COID  CS_OFFL_SIR_IOPR_2_20221215T10987_20221215T10982_COID  CS_OFFL_SIR_IOPR_2_20221215T15986_20221215T15982_COID  CS_OFFL_SIR_IOPR_2_20221215T15986_20221215T15982_COID  CS_OFFL_SIR_IOPR_2_20221215T15986_20221215T15982_COID  CS_OFFL_SIR_IOPR_2_20221215T15986_20221215T15982_COID  CS_OFFL_SIR_IOPR_2_20221215T15986_20221215T15982_COID  CS_OFFL_SIR_IOPR_2_20221215T15986_20221215T15982_COID  CS_OFFL_SIR_IOPR_2_20221215T15986_20221215T15982_COID  CS_OFFL_SIR_IOPR_2_20221215T15986_20221215T17098_COID  CS_OFFL_SIR_IOPR_2_20221215T17098_COID  CS_OFFL_SIR_IOPR_2_20221215T17098_20221215T17098_COID  CS_OFFL_SIR_IOPR_2_2022121	CS_OFFL_SIR_IOPR_2_20221215T093212_20221215T093428_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
and Baskecatter Coally FLBM, COCG SeptSIR_JOPR_2_20221215T100810_20221215T10108_CO1  CS_OFFL_SIR_JOPR_2_20221215T100810_20221215T10108_CO1  CS_OFFL_SIR_JOPR_2_20221215T100810_20221215T1008_CO1  CS_OFFL_SIR_JOPR_2_20221215T100810_20221215T1008_CO1  CS_OFFL_SIR_JOPR_2_20221215T100810_20221215T1008_CO1  CS_OFFL_SIR_JOPR_2_20221215T100810_20221215T1008_CO1  CS_OFFL_SIR_JOPR_2_20221215T100810_20221215T1008_CO1  CS_OFFL_SIR_JOPR_2_20221215T100810_20221215T1008_CO1  CS_OFFL_SIR_JOPR_2_20221215T120080_20221215T120080_CO1  CS_OFFL_SIR_JOPR_2_20221215T120080_20221215T120080_CO1  CS_OFFL_SIR_JOPR_2_20221215T120090_20221215T120080_CO1  CS_OFFL_SIR_JOPR_2_20221215T120090_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T130840_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T130840_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T130840_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T130840_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T130840_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T130840_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T130840_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T130840_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T130840_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T10084_CO1  CS_OFFL_SIR_JOPR_2_20221215T170082_20221215T170084_CO1  CS_OFFL_SIR_JOPR_2_20221215T170082_20221215T170084_CO1  CS_OFFL_SIR_JOPR_2_20221215T170082_20221215T170084_CO1  CS_OFFL_SIR_JOPR_2_20221215T170082_20221215T170084_CO1  CS_OFFL_SIR_JOPR_2_20221215T170082_20221215T170084_CO1  CS_OFFL_SIR_JOPR_2_20221215T170084_CO1  CS_OFFL_SIR_JOPR_2_20221215T170084_CO1  CS_OFFL_SIR_JOPR_2_20221215T170084_CO1  CS_OFFL_SIR_JOPR_2_20221215T170084_CO1  CS_OFFL_SIR_JOPR_2_20221215T170084_CO1  CS_OFFL_SIR_JOPR_2_20221215T170	CS_OFFL_SIR_IOPR_2_20221215T093551_20221215T093635_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
and Backscater Coasily PLFM, COCK All PLFM, COCK Al	CS_OFFL_SIR_IOPR_2_20221215T100807_20221215T100921_C001	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
GS_OFFL_SIR_JOPR_2_20221215T10147_20221215T10681_C001  Altereter Range and Backscatter Outlay Flam, OCOC Altereter Range, SSHA, SWH and Backscatter Outlay	CS_OFFL_SIR_IOPR_2_20221215T105810_20221215T110139_C001	and Backscatter Quality PLRM, 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_20221215T12018_20221215T12083_C001  All meter Pange and Backscatter Quality PLRM. OCOG All meter Pange and Backscatter Quality Plags have bee after one of more ocords. Share and backscatter Quality Plags have bee after Ocog Plags and Plags Share Plags	CS_OFFL_SIR_IOPR_2_20221215T110147_20221215T110601_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscater Quality PLRM, COCG Altimeter Range and Backscater Quality PLRM CS_OFFL_SIR_IOPR_2_20221215T132810_20221215T132842_C001  CS_OFFL_SIR_IOPR_2_20221215T142000_20221215T142748_C001  CS_OFFL_SIR_IOPR_2_20221215T142000_20221215T142748_C001  CS_OFFL_SIR_IOPR_2_20221215T142000_20221215T142748_C001  CS_OFFL_SIR_IOPR_2_20221215T150456_20221215T150824_C001  CS_OFFL_SIR_IOPR_2_20221215T150466_20221215T150824_C001  CS_OFFL_SIR_IOPR_2_20221215T150466_20221215T150824_C001  CS_OFFL_SIR_IOPR_2_20221215T150466_20221215T150824_C001  CS_OFFL_SIR_IOPR_2_20221215T150466_20221215T150824_C001  CS_OFFL_SIR_IOPR_2_20221215T150466_20221215T150824_C001  CS_OFFL_SIR_IOPR_2_20221215T150466_20221215T150824_C001  CS_OFFL_SIR_IOPR_2_20221215T150466_20221215T150824_C001  CS_OFFL_SIR_IOPR_2_20221215T150466_20221215T150824_C001  CS_OFFL_SIR_IOPR_2_20221215T150466_20221215T150824_C001  CS_OFFL_SIR_IOPR_2_20221215T150466_20221215T16012_C001  CS_OFFL_SIR_IOPR_2_20221215T150466_20221215T16012_C001  CS_OFFL_SIR_IOPR_2_20221215T150466_20221215T16012_C001  CS_OFFL_SIR_IOPR_2_20221215T150466_20221215T16012_C001  CS_OFFL_SIR_IOPR_2_20221215T150466_20221215T16012_C001  CS_OFFL_SIR_IOPR_2_20221215T170038_C001  CS_OFFL_SIR_IOPR_2_20221215T1	CS_OFFL_SIR_IOPR_2_20221215T120018_20221215T120128_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality PLRM, COCA Altimeter Range and Backscatter Quality PLRM, COCA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_IOPR_2_20221215T142000_20221215T142748_CO01  Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, COCA Altimeter Range and Backscatter Quality PLRM, COCA Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, COCA Altimeter Range and Backscatter Quality PLRM,	CS_OFFL_SIR_IOPR_2_20221215T123631_20221215T124639_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_IOPR_2_20221215T150456_20221215T150824_C001  CS_OFFL_SIR_IOPR_2_20221215T155946_20221215T16012_C001  CS_OFFL_SIR_IOPR_2_20221215T155946_20221215T16012_C001  CS_OFFL_SIR_IOPR_2_20221215T165713_20221215T160012_C001  CS_OFFL_SIR_IOPR_2_20221215T165713_20221215T170038_C001  CS_OFFL_SIR_IOPR_2_20221215T173434_20221215T170038_C001  CS_OFFL_SIR_IOPR_2_20221215T173434_20221215T170038_C001  CS_OFFL_SIR_IOPR_2_20221215T173434_20221215T173512_C001  CS_OFFL_SIR_IOPR_2_20221215T173434_20221215T175017_C001  CS_OFFL_SIR_IOPR_2_20221215T173392_20221215T175017_C001  CS_OFFL_SIR_IOPR_2_20221215T173392_20221215T175017_C001  CS_OFFL_SIR_IOPR_2_20221215T173392_20221215T184145_C001  CS_OFFL_SIR_IOPR_2_20221215T1735507_20221215T185509_C001  CS_OFFL_SIR_IOPR_2_20221215T185416_20221215T185509_C001  CS_OFFL_SIR_IOPR_2_20221215T185416_20221215T185509_C001  CS_OFFL_SIR_IOPR_2_20221215T191841_20221215T19509_C001  CS_OFFL_SIR_IOPR_2_20221215T191841_20221215T19509_C00	CS_OFFL_SIR_IOPR_2_20221215T132510_20221215T132842_C001	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_20221215T150456_20221215T150824_C001  Allimeter Range and Backscatter Quality PLRM, OCOG Allimeter Range, SSHA, SWH and Backscatter Quality PLRM  CS_OFFL_SIR_IOPR_2_20221215T165946_20221215T161012_C001  CS_OFFL_SIR_IOPR_2_20221215T165713_20221215T170038_C001  CS_OFFL_SIR_IOPR_2_20221215T165713_20221215T170038_C001  CS_OFFL_SIR_IOPR_2_20221215T173434_20221215T170038_C001  CS_OFFL_SIR_IOPR_2_20221215T173434_20221215T173512_C001  CS_OFFL_SIR_IOPR_2_20221215T173434_20221215T173512_C001  CS_OFFL_SIR_IOPR_2_20221215T173434_20221215T173512_C001  CS_OFFL_SIR_IOPR_2_20221215T173434_20221215T173512_C001  CS_OFFL_SIR_IOPR_2_20221215T173434_20221215T173512_C001  CS_OFFL_SIR_IOPR_2_20221215T1734829_20221215T174645_C001  CS_OFFL_SIR_IOPR_2_20221215T174629_20221215T175017_C001  CS_OFFL_SIR_IOPR_2_20221215T174629_20221215T184145_C001  CS_OFFL_SIR_IOPR_2_20221215T185509_2021  CS_OFFL_SIR_IOPR_2_20221215T185416_20221215T185509_C001  CS_OFFL_SIR_IOPR_2_20221215T184416_20221215T192404_C001  CS_OFFL_SIR_IOPR_2_20221215T198411_20221215T192404_C001  CS_OFFL_SIR_IOPR_2_20221215T198411_20221215T192404_C001  Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_IOPR_2_20221215T185416_20221215T185509_C001  CS_OFFL_SIR_IOPR_2_20221215T185416_20221215T192404_C001  CS_OFFL_SIR_IOPR_2_20221215T198411_20221215T192404_C001  CS_OFFL_SIR_IOPR_2_20221215T198411_20221215T192404_C001	CS_OFFL_SIR_IOPR_2_20221215T142000_20221215T142748_C001	and Backscatter Quality PLRM, 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
and Backscatter Quality PLRM, COGG Altimeter Range and Backscatter Quality PLRM, COGG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20221215T165713_20221215T170038_C001  CS_OFFL_SIR_IOPR_2_20221215T165713_20221215T170038_C001  CS_OFFL_SIR_IOPR_2_20221215T173434_20221215T173512_C001  CS_OFFL_SIR_IOPR_2_20221215T173434_20221215T173512_C001  CS_OFFL_SIR_IOPR_2_20221215T173434_20221215T173512_C001  CS_OFFL_SIR_IOPR_2_20221215T173434_20221215T174645_C001  CS_OFFL_SIR_IOPR_2_20221215T173932_20221215T174645_C001  CS_OFFL_SIR_IOPR_2_20221215T174829_20221215T175017_C001  CS_OFFL_SIR_IOPR_2_20221215T174829_20221215T175017_C001  CS_OFFL_SIR_IOPR_2_20221215T183507_20221215T184145_C001  CS_OFFL_SIR_IOPR_2_20221215T185416_20221215T185509_C001  CS_OFFL_SIR_IOPR_2_20221215T185416_20221215T185509_C001  CS_OFFL_SIR_IOPR_2_20221215T198414_20221215T192404_C001  CS_OFFL_SIR_IOPR_2_20221215T19841_20221215T192404_C001  CS_OFFL_SIR_IOPR_2_20221215T19841_20221215T192404_C001  CS_OFFL_SIR_IOPR_2_20221215T19841_20221215T192404_C001  CS_OFFL_SIR_IOPR_2_20221215T19841_20221215T192404_C001  CS_OFFL_SIR_IOPR_2_20221215T19841_20221215T192404_C001  CC_OCA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CC_OCA Altimeter Range Cuality PLRM, COCA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for o	CS_OFFL_SIR_IOPR_2_20221215T150456_20221215T150824_C001	and Backscatter Quality PLRM, 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
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Ran	CS_OFFL_SIR_IOPR_2_20221215T155946_20221215T161012_C001	and Backscatter Quality PLRM, 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
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 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, SSHA, SWH 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, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG	CS_OFFL_SIR_IOPR_2_20221215T165713_20221215T170038_C001	and Backscatter Quality PLRM, 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
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_IOPR_2_20221215T174829_20221215T175017_C001  CS_OFFL_SIR_IOPR_2_20221215T183507_20221215T184145_C001  CS_OFFL_SIR_IOPR_2_20221215T185416_20221215T18509_C001  CS_OFFL_SIR_IOPR_2_20221215T185416_20221215T192404_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one more records  The OCGA Range and Backscatter Quality Flags have been set for one more records  The OCGA Range and Backscatter Quality Flags have been set for one more records  The OCGA Range and Backscatter Quality Flags have been set for one more records  The OCGA Range and Backscatter Quality Flags have been set for one more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPR_2_20221215T173434_20221215T173512_C001	and Backscatter Quality PLRM, 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
OCOG Backscatter Quality  OCOG Backscatter Quality  OCOG Backscatter Quality  OCOG 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  OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  OCOG Backscatter Quality PLRM, OCOG Backscatter Quality  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG 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_20221215T173932_20221215T174645_C001	and Backscatter Quality PLRM, 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
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_IOPR_2_20221215T185416_20221215T185509_C001  CS_OFFL_SIR_IOPR_2_20221215T191841_20221215T192404_C001  and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one more records  The OCGA Range and Backscatter Quality Flags have been set for one more records  The OCGA Range and Backscatter Quality Flags have been set for one more records  The OCGA Range and Backscatter Quality Flags have been set for one more records  The OCGA Range and Backscatter Quality Flags have been set for one more records  The OCGA Range and Backscatter Quality Flags have been set for one more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPR_2_20221215T174829_20221215T175017_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
OCOG Backscatter Quality  OCOG Backscatter Quality  OCOG Backscatter Quality  OCOG Backscatter Quality  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPR_2_20221215T183507_20221215T184145_C001	and Backscatter Quality PLRM, 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
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPR_2_20221215T185416_20221215T185509_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
	CS_OFFL_SIR_IOPR_2_20221215T191841_20221215T192404_C001	and Backscatter Quality PLRM, 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_20221215T192935_20221215T192938_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_20221215T192951_20221215T192959_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_20221215T193346_20221215T193546_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_20221215T200938_20221215T200945_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_20221215T201407_20221215T201631_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_20221215T205741_20221215T210435_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_20221215T210947_20221215T210951_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_20221215T211906_20221215T212504_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_20221215T222213_20221215T222331_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_20221215T223604_20221215T224111_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_20221215T233339_20221215T233504_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 & 1 Hz PLRM)

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

> 1 Hz and 1 Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected. The number of products with this error flag set is given below.

Number of products with errors: 1

#### 5.8 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20 Hz)

CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz measurement record. The bit value of this flag indicates any problems when set.

> Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

#### L2 Retracking Flags (20 Hz PLRM)

CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz PLRM measurement record. The bit value of this flag indicates any problems when set.

> Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors: 152

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

#### 6.1 P2P Product Format Check

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

Number of products with errors:

#### 6.2 P2P Product Header Analysis

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

Number of products with errors:

# 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

#### 6.4 P2P Auxiliary Correction Error Check

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

Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this check.

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20221215T001858_20221215T010834_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_2_20221215T010834_20221215T015813_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T015813_20221215T024749_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T024749_20221215T033728_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T033728_20221215T042703_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T042703_20221215T051642_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T051642_20221215T060618_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T060618_20221215T065557_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T065557_20221215T074533_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T074533_20221215T083511_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_2_20221215T083511_20221215T092447_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T092447_20221215T101426_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T101426_20221215T110402_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T110402_20221215T115341_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T115341_20221215T124317_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T124317_20221215T133256_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_2_20221215T133256_20221215T142231_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T142231_20221215T151210_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_2_20221215T151210_20221215T160146_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T160146_20221215T165125_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_220221215T165125_20221215T174101_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_2_20221215T174101_20221215T183040_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T183040_20221215T192015_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_2_20221215T192015_20221215T200954_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T200954_20221215T205930_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_2_20221215T205930_20221215T214909_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T214909_20221215T223845_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_220221215T223845_20221215T232824_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221215T232824_20221216T001759_C002	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

#### 6.6 P2P Measurement Quality Flag Check

#### P2P Quality Flags (20 Hz)

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. The number of P2P products affected is given

Number of products with errors:

#### P2P Quality Flags (20 Hz PLRM)

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

Number of products with errors:

#### P2P Quality Flags (1 Hz & 1 Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the number of L2 products affected. The number of P2P products affected is given below

Number of products with errors:

#### 6.8 P2P Ocean Retracking Quality Check

#### P2P Retracking Flags (20 Hz)

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

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

28

30

Number of products with errors:

#### P2P Retracking Flags PLRM

CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz PLRM measurement record. The bit value of this flag indicates any problems when set.

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

Number of products with errors:

# 7. IOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors	
SIR_IOPM1B	181	181	3	178	0	
SIR_IOPR1B	148	104	1	103	0	
SIR_IOPN1B	104	148	0	148	0	
SIR_IOPM_2	183	183	131	52	0	
SIR_IOPR_2	148	104	37	67	0	
SIR_IOPN_2	104	148	62	86	0	
SIR IOP P2P	29	29	0	29	0	

#### 7.1 QCC Errors

Number of QCC reports with errors:	0		
0			

# 7.2 QCC Warnings

Number of QCC reports with warnings

2239

Total number of occurrences of each warning

	Total number of occurrences of cush warning							
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF	
SIR_IOPM1B	178	0	0	0	0	0	0	
SIR_IOPM_2	0	35	33	0	46	0	34	
SIR_IOPN1B	102	0	0	0	0	0	0	
SIR_IOPN_2	0	9	35	7	27	29	20	
SIR_IOPR1B	143	0	0	0	0	0	0	
SIR IOPR 2	0	30	51	1	29	19	11	

Product Type	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	0	30	0	0	0	0	24
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	1	0	0	26	0	35	0
SIR_IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	2	0	50	0	55	0	0

	Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
Ī	SIR_IOPM1B	0	0	0	0	0	0	0
	SIR_IOPM_2	0	0	8	27	0	6	29
	SIR_IOPN1B	0	0	0	0	0	0	0
	SIR_IOPN_2	0	31	19	48	55	34	25
	SIR_IOPR1B	0	0	0	0	0	0	0
	SIR IOPR 2	50	0	6	66	35	10	33

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-	-
SIR_IOPM1B	0	0	0	0	0		
SIR_IOPM_2	0	2	0	0	0		
SIR_IOPN1B	0	0	0	49	0		
SIR_IOPN_2	27	10	1	0	0		
SIR_IOPR1B	0	0	0	148	8		
SIR_IOPR_2	50	4	1	0	0		

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCE	RBSZOPOEPNCDF
SIR_IOP_2_	10	29	29	7	29	14	28
							•

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_IOP_2_	3	16	28	25	19	29	17

	Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	•
	SIR_IOP_2_	26	28	16	13	29		
Ī								
	Product Type	•	•	-	-	-	-	•
	SIR IOP 2							

Test Description Key:								
Abbreviation	Test name	Details						
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter						
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees						
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees						
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only						
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean						
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean						
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean						
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean						
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean						
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample						
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter						
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter						

# 7.3 Missing QCC Reports

Number of products with missing QCC reports: