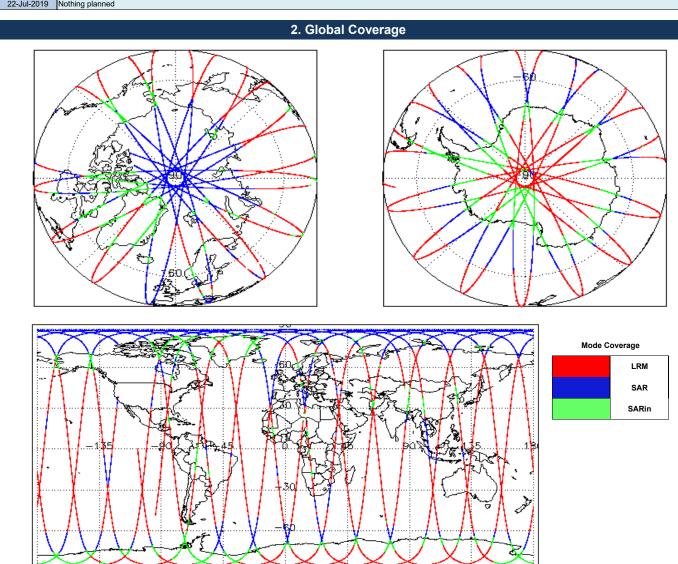


## IDEAS+ Daily Report for IOP data:

## <u>21/07/2019</u>

1. Overview				
	24-Jul-2019	Check	L1 & L2	P2P
Report Production:	24-Jui-2019	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Usea:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Dete Head	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
Data Used:		Data Used: L1B, L2 & P2P Science Data	Product Header Analysis	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 and 5.5	See Section 6.5
		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

wission / instrument news			
20-Jul-2019	None		
21-Jul-2019	None		
22 101 2010	Nothing planned		



### 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

0

4. IOP Level 1B Data Quality Check

#### 4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis				
For all products, a series of pre-defined checks are performed on the MPH an	d SPH in order to identify any inconsi	stencies and/or errors raised by the ground-segment processing chain.		
L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1 OSARIn chains. A modification is required in the next release.	B IOPR and IOPN products because	the I1b_processing_quality_hr field is not correctly configured in the OSAR and		
Number of products with errors: 0				
4.3 L1B Auxilary Data File Usage Check				
Each product is checked for missing Data Set Descriptors with respect to a pro-	e-determined baseline and also to ch	eck 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 recor	d. 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 measurem	nent record. The bit value of this flag	indicates any problems when set.		
Attitude Correction Missing: This flag is currently set in error for IOPR produ	-			
Number of products with errors: 3				
Product	Test Failed	Description		
CS_OFFL_SIR_IOPM1B_20190721T000047_20190721T000702_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records		
CS_OFFL_SIR_IOPM1B_20190721T031244_20190721T031724_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records		
CS_OFFL_SIR_IOPM1B_20190721T094401_20190721T095922_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records		
		IEWIUS		
4.6 L1B Waveform Group Data Check				
CryoSat L1B data includes a waveform data flag for each measurement record	d. The bit value of this flag indicates a	any problems when set.		
Loss of Echo Flag: This flag is currently set for products over land, but this is	to be expected.			
Number of products with errors: 9				
Product	Test Failed	Description		
CS_OFFL_SIR_IOPM1B_20190721T032413_20190721T032540_C001 CS_OFFL_SIR_IOPM1B_20190721T065546_20190721T073055_C001	Loss of Echo 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_IOPM1B_20190721T083415_20190721T085518_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPM1B_20190721T085530_20190721T091033_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20190721T191416_20190721T191937_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20190721T200510_20190721T200933_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20190721T214406_20190721T214519_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20190721T045419_20190721T045800_C001 CS_OFFL_SIR_IOPR1B_20190721T150821_20190721T150921_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
5. 10	DP Level 2 Data Quali	ty 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 hea	ader file (.HDR) and a binary product file (.DBL).		
Number of products with errors: 0				
5.2 L2 Product Header Analysis				
For all products, a series of pre-defined checks are performed on the MPH an	d SPH in order to identify any inconsi	stencies and/or errors raised by the ground-segment processing chain.		
Number of products with errors: 0				
5.3 L2 Auxiliary Data File Usage Check				
Each product is checked for missing Data Set Descriptors with respect to a pri	e-determined baseline and also to ch	eck 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 ch	ecked for the default error value (327	67).		
	ne Level 2 products which are expe	ected due to surface type. All common flags are summarised in the list below,		
		y Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction P-3) and will be resolved in a future IPF update. The affected products are not reported		
<ul> <li>&gt; Sea State Bias &amp; Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.</li> <li>&gt; Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.</li> </ul>				
> Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.				
> Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.				
Number of products with errors: 52				

Number of products with errors:	
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Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190721T032413_20190721T032540_C001	Iviean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

CS_OFFL_SIR_IOPM_2_20190721T133247_20190721T133417_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190721T001419_20190721T001910_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_20190721T023704_20190721T023824_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190721T023844_20190721T024101_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_20190721T041655_20190721T042008_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_20190721T042527_20190721T042645_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190721T055538_20190721T055857_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_20190721T060423_20190721T060548_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190721T064449_20190721T064656_C001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOPN_2_20190721T064726_20190721T064800_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_20190721T074228_20190721T074407_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_20190721T082107_20190721T082233_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190721T082600_20190721T082658_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_20190721T092011_20190721T092223_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_20190721T100358_20190721T100612_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_20190721T105031_20190721T105217_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190721T105901_20190721T110506_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_20190721T114040_20190721T114436_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190721T124006_20190721T124203_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190721T172838_20190721T173003_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_20190721T173513_20190721T173819_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_20190721T191416_20190721T191937_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_20190721T200510_20190721T200933_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_20190721T204851_20190721T205126_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_20190721T214406_20190721T214519_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_20190721T222554_20190721T222944_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190721T232327_20190721T232435_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_20190721T232608_20190721T232752_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20190721T000750_20190721T001419_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_20190721T001939_20190721T002152_C001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOPR_2_20190721T014928_20190721T015443_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_20190721T031725_20190721T031930_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20190721T032831_20190721T033631_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_20190721T050659_20190721T051552_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_20190721T064800_20190721T065546_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_20190721T082658_20190721T083241_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_20190721T100612_20190721T101306_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_20190721T114436_20190721T114958_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_20190721T132257_20190721T133247_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_20190721T150019_20190721T150757_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_20190721T151824_20190721T151918_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20190721T163917_20190721T164606_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_20190721T164606_20190721T164735_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_20190721T181751_20190721T182504_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_20190721T182504_20190721T182732_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_20190721T195937_20190721T200357_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_20190721T200357_20190721T200510_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_20190721T213725_20190721T214222_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_20190721T214222_20190721T214406_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_20190721T225448_20190721T230304_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20190721T231717_20190721T232327_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

#### 5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 3

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190721T000047_20190721T000702_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20190721T031244_20190721T031724_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20190721T094401_20190721T095922_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

#### 5.6 L2 Measurement Quality Flag Check

#### L2 Quality Flags (20Hz)

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

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

<ul> <li>&gt; Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags: These flags are currently set for some records over ocean.</li> <li>&gt; OCOG Altimeter Range and Backscatter Quality Flags: These flags are currently set for some records over continental ice.</li> </ul>				
Number of products with errors: 86				
Product	Test Failed	Description		
CS_OFFL_SIR_IOPM_2_20190721T002901_20190721T005521_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_IOPM_2_20190721T005856_20190721T010049_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_20190721T010142_20190721T010625_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_20190721T011232_20190721T013537_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_20190721T014323_20190721T014626_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_20190721T020808_20190721T021803_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.		

CS_OFFL_SIR_IOPM_2_20190721T022341_20190721T023333_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_20190721T024101_20190721T024656_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_0FFL_SIR_IOPM_2_20190721T024945_20190721T031241_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_0FFL_SIR_IOPM_2_20190721T032544_20190721T032720_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_0FFL_SIR_IOPM_2_20190721T033938_20190721T041242_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_20190721T042008_20190721T042527_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_0FFL_SIR_IOPM_2_20190721T042907_20190721T043006_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_20190721T043203_20190721T043326_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_20190721T050305_20190721T050659_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_20190721T051847_20190721T052811_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_20190721T053057_20190721T055210_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_20190721T060017_20190721T060423_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_20190721T060932_20190721T061927_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_20190721T062115_20190721T062723_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_20190721T062907_20190721T063349_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_20190721T065546_20190721T073055_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_20190721T073402_20190721T073908_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_20190721T073928_20190721T074228_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_20190721T075007_20190721T082107_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_20190721T082436_20190721T082600_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_20190721T083415_20190721T085518_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_20190721T085530_20190721T091033_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_20190721T091300_20190721T091806_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_20190721T092742_20190721T093742_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_20190721T093848_20190721T094141_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_20190721T094401_20190721T095922_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_20190721T101306_20190721T103352_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_20190721T103532_20190721T104912_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_20190721T105217_20190721T105716_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_20190721T105758_20190721T105901_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_20190721T110522_20190721T112456_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_20190721T112502_20190721T112738_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_20190721T112901_20190721T113718_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_20190721T120637_20190721T122733_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_20190721T123257_20190721T123633_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_20190721T123655_20190721T124006_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_20190721T124344_20190721T130138_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_20190721T134242_20190721T140738_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_20190721T141039_20190721T141547_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_20190721T142326_20190721T143350_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_20190721T143928_20190721T145635_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_20190721T150921_20190721T151603_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_20190721T151919_20190721T152657_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_20190721T154229_20190721T154653_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_20190721T155038_20190721T155619_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_20190721T160343_20190721T163608_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_20190721T163906_20190721T163916_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_20190721T164836_20190721T165010_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_20190721T170851_20190721T172505_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_20190721T174206_20190721T181751_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_20190721T182732_20190721T182934_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_20190721T183949_20190721T184426_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_20190721T184506_20190721T190244_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_20190721T192147_20190721T195747_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_20190721T200946_20190721T202844_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_20190721T202931_20190721T204252_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_20190721T205126_20190721T205324_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_20190721T210047_20190721T211545_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_20190721T211747_20190721T212709_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_20190721T214519_20190721T214650_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_20190721T214915_20190721T220631_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_20190721T222242_20190721T222354_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_20190721T222945_20190721T223727_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_20190721T224023_20190721T225448_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_20190721T233248_20190722T000429_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_20190721T023704_20190721T023824_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_20190721T044743_20190721T044927_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_20190721T091119_20190721T091300_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_20190721T123633_20190721T123640_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_20190721T134123_20190721T134242_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_20190721T190909_20190721T191204_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_20190721T195842_20190721T195937_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_20190721T223251_20190721T223253_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_20190721T230651_20190721T230724_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_20190721T061928_20190721T062115_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_20190721T083257_20190721T083415_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_20190721T091819_20190721T091825_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_20190721T154653_20190721T154919_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_20190721T165120_20190721T165449_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_20190721T200933_20190721T200946_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20190721T001419_20190721T001910_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_20190721T010049_20190721T010142_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190721T010626_20190721T010840_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_20190721T013858_20190721T013958_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190721T014626_20190721T014734_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190721T023844_20190721T024101_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190721T024656_20190721T024824_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190721T033805_20190721T033938_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190721T041655_20190721T042008_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190721T042527_20190721T042645_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190721T044432_20190721T044527_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190721T044743_20190721T044927_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190721T051555_20190721T051633_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_20190721T051645_20190721T051726_C001	Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190721T062723_20190721T062833_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190721T064220_20190721T064305_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190721T064449_20190721T064656_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190721T073214_20190721T073330_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_20190721T082107_20190721T082233_C001	Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190721T083241_20190721T083257_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_20190721T092011_20190721T092223_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_20190721T095949_20190721T100250_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190721T100358_20190721T100612_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190721T105901_20190721T110506_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_20190721T114958_20190721T115032_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_20190721T115935_20190721T120028_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_20190721T120107_20190721T120450_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_20190721T123024_20190721T123257_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_20190721T124006_20190721T124203_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_20190721T140905_20190721T141039_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_20190721T141921_20190721T142050_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_20190721T150757_20190721T150821_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_20190721T172838_20190721T173003_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_20190721T190909_20190721T191204_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_20190721T191416_20190721T191937_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_20190721T200510_20190721T200933_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_20190721T204851_20190721T205126_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_20190721T212709_20190721T213029_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_20190721T220631_20190721T221157_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_20190721T222554_20190721T222944_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_20190721T223727_20190721T223912_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_20190721T230651_20190721T230724_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_20190721T232608_20190721T232752_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_20190721T233125_20190721T233248_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_20190721T000702_20190721T000750_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_20190721T002649_20190721T002901_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_20190721T010840_20190721T011119_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_20190721T023333_20190721T023703_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_20190721T032255_20190721T032413_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_20190721T041243_20190721T041654_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_20190721T042645_20190721T042907_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.

COUNT CALL         Description         Description           CB0FFL_SFL_COPE_2_DESCRIPTIONSEL_CONT         Description         Descr		OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
eg. CPTL_SPL_UPE_20190721103532(_0019721103532(_0019721103532(_001) CPTL_SPL_UPE_20190721103542(_0019721103532(_001) CPTL_SPL_UPE_20190721103542(_0019721103532(_001) CPTL_SPL_UPE_20190721103542(_0019721103532(_001) CPTL_SPL_UPE_20190721103542(_0019721103542(_001) CPTL_SPL_UPE_20190721103542(_0019721103542(_001) CPTL_SPL_UPE_20190721103542(_0019721103542(_001) CPTL_SPL_UPE_20190721103542(_0019721103542(_001) CPTL_SPL_UPE_20190721103542(_0019721103542(_001) CPTL_SPL_UPE_20190721103542(_0019721103542(_001) CPTL_SPL_UPE_20190721103542(_001) CPTL_SPL_UPE_20190721103542(_001) CPTL_SPL_UPE_20190721103542(_001) CPTL_SPL_UPE_20190721103542(_001) CPTL_SPL_UPE_20190721103542(_001) CPTL_SPL_UPE_20190721103542(_001) CPTL_SPL_UPE_20190721103542(_001) CPTL_SPL_UPE_20190721103542(_001) CPTL_SPL_UPE_20190721103542(_001) CPTL_SPL_UPE_20190721103542(_001) CPTL_SPL_UPE_20190721103542(_001) CPTL_SPL_UPE_20190721103542(_001) CPTL_SPL_UPE_20190721103542(_001) CPTL_SPL_UPE_20190721103542(_001) CPTL_SPL_UPE_20190721103542(_001) CPTL_SPL_UPE_20190721103542(_0019721103542(_001)) CPTL_SPL_UPE_20190721103542(_0019721103542(_001)) CPTL_SPL_UPE_20190721103542(_0019721103542(_001)) CPTL_SPL_UPE_20190721103542(_0019721103542(_001)) CPTL_SPL_UPE_20190721103542(_0019721103542(_0010721103542(_001))) CPTL_SPL_UPE_20190721103542(_0019721103542(_0019721103542(_001072110354	CS_OFFL_SIR_IOPR_Z_201907211045419_201907211045800_C001	OCOG Backscatter Quality	more records.
CB. 0FTL_SR_10PR_2_20190721T06668_20190221T05669_000     Implementation of the second se	CS_OFFL_SIR_IOPR_2_20190721T055210_20190721T055538_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.
CB_OFTL_SIR_COPT_2_20100721T05460_20100721T05460_00107     Immediate Caship FLAL COCG     Immediate Caship FLAL COCG     Immediate Caship FLAL COCG       CB_OFTL_SIR_COPT_2_0100721T074400_0100721T070107_COD1     COCGA Almoster Regs, SBAB, With and Elaborater Caship FLAL COCG     Immediate Caship FLAL COCG       CB_OFTL_SIR_COPT_2_0100721T074400_0100721T070107_COD1     COCGA Almoster Regs, SBAB, With and Elaborater Caship FLAL COCG     Immediate Caship FLAL COCG       CB_OFTL_SIR_COPT_2_0100721T05400_20100721T05500_0000     COCGA Almoster Regs, SBAB, With and Elaborater Caship FLAL COCG     Immediate Caship FLAL COCG       CB_OFTL_SIR_COPT_2_0100721T05500_20100721T05500_0000     COCGA Almoster Regs, SBAB, With and Elaborater Caship FLAL COCG     Immediate Caship FLAL COCG       CB_OFTL_SIR_COPT_2_0100721T05500_20100721T05500_0000     COCGA Almoster Regs, SBAB, With and Elaborater Caship FLAL COCG     Immediate Caship FLAL COCG       CB_OFTL_SIR_COPT_2_0100721T05500_20100721T05500_0000     COCGA Almoster Regs, SBAB, With and Elaborater Caship FLAL COCG     Immediate Caship FLAL COCG       CB_OFTL_SIR_COPT_2_0100721T05500_20100721T055074_COCI     COCGA Almoster Regs, SBAB, With and Elaborater Caship FLAL COCG     Immediater Caship FLAL COCGA       CB_OFTL_SIR_COPT_2_0100721T05507_0000     COCGA Almoster Regs, SBAB, With and Elaborater Caship FLAL COCGA     Immediater Caship FLAL COCGA       CB_OFTL_SIR_COPT_2_0100721T05507_0000     COCGA Almoster Regs, SBAB, With and Elaborater Caship FLAL COCGA     Immediater Caship FLAL COCGA       CB_OFTL_SIR_COPT_2_0100721T05507_0000     COCGA Almost	CS_OFFL_SIR_IOPR_2_20190721T060548_20190721T060932_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.
CB_OFFL_SR_UPFL_2/0107211104402_0100721110400_0001 CB_OFFL_SR_UPFL_2/0107211104002_010972110600_0001 CB_OFFL_SR_UPFL_2/0107211108002_0109721108004_0001 CB_OFFL_SR_UPFL_2/0107211108004_0001 CB_OFFL_SR_UPFL_2/01077211108004_0001 CB_OFFL_SR_UPFL_2/01077211108	CS_OFFL_SIR_IOPR_2_20190721T064800_20190721T065546_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.
GB_OFFL_SR_UPFL2_0100721100064_0001         Interdemonstrate Transport         The description of the second and th	CS_OFFL_SIR_IOPR_2_20190721T074408_20190721T075007_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.
C3_OFFL_SIR_UOPR_2_00190721T083415_001 American Advances	CS_OFFL_SIR_IOPR_2_20190721T082658_20190721T083241_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_JOPR_2_20160721T06134_0010721T061742_0001       and Backscater Quality PLINK_OCOG       The Occean Alterioter Range, SSHA, SWH and Backscater Quality PLINK_OCOG         CS_OFFL_SIR_JOPR_2_20160721T062723_0010721T060742_0001       CCCG Alterioter Range, SSHA, SWH and Backscater Quality PLINK_OCOG       The Occean Alterioter Range, SSHA, SWH and Backscater Quality PLINK_OCOG         CS_OFFL_SIR_JOPR_2_20160721T062723_0010721T060742_0001       CCCG Alterioter Range, SSHA, SWH and Backscater Quality PLINK_OCOG       The Occean Alterioter Range, SSHA, SWH and Backscater Quality PLINK_OCOG         CS_OFFL_SIR_JOPR_2_20160721T06612_0100721T106000_00100721T106000_0000       CCCG Alterioter Range, SSHA, SWH and Backscater Quality PLINK_OCOG       The Occean Alterioter Range, SSHA, SWH and Backscatter Quality PLINK_OCOG         CS_OFFL_SIR_JOPR_2_20160721T106000_20100721T106000_0000       CCCG Alterioter Range, SSHA, SWH and Backscatter Quality PLINK_OCOG       The Occean Alterioter Range, SSHA, SWH and Backscatter Quality PLINK_OCOG         CS_OFFL_SIR_JOPR_2_20160721T106000_20100721T106000_0000       CCCG Alterioter Range Quality PLINK_OCOG       The Occean Alterioter Range, SSHA, SWH and Backscatter Quality PLINK_OCOG         CS_OFFL_SIR_JOPR_2_20160721T106000_20100721T106000_0000       CCCG Alterioter Range Quality PLINK_OCOG       The Occean Alterioter Range, SSHA, SWH and Backscatter Quality Flags have been set for ore race and the OCCG Alterioter Range Quality PLINK_OCOG         CS_OFFL_SIR_JOPR_2_20160721T102057_C001       CCCG Alterioter Range Quality PLINK_OCOG       The OCCGR Range and Backscatter Quality Flags have been set for ore race and the OC	CS_OFFL_SIR_IOPR_2_20190721T083257_20190721T083415_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_JOPR_2_20190721T022742_0001         and Backscatter Quality PLRM, QCOG Alimater Range and Backscatter Quality Flags have been set for roor errors records.           CS_OFFL_SIR_JOPR_2_20190721T0012_0100721T10100_C001         CCCC0 Altrester Range Quality PLRM, CCC0 Altrester Range Quality PLRM, QCOG Altrester Range Altrester Quality Flags have been set for rore records.           CS_OFFL_SIR_JOPR_2_20190721T113718_20190721T114018_C001         OCCG Altrester Range Quality PLRM, QCOG Altrester Range Altrester Quality Flags have been set for rore records.           CS_OFFL_SIR_JOPR_2_20190721T132507_	CS_OFFL_SIR_IOPR_2_20190721T091034_20190721T091119_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.
Open Control         Open Control         Open Control         Open Control           CS_OFFL_SIR_IOPR_2_20190721T100612_20190721T101306_C001         Chain Altimater Range, SSHA, SWH and Backscatter Quality Flags have been set for control more records.         The Open Altimater Range, SSHA, SWH and Backscatter Quality Flags have been set for control more records.           CS_OFFL_SIR_IOPR_2_20190721T105090_20190721T105090_C001         Altimater Range Quality PLRM. OCCO         The Open Altimater Range, SSHA, SWH and Backscatter Quality Flags have been set for core records.           CS_OFFL_SIR_IOPR_2_20190721T105090_20190721T106097_C001         OCCOA Altimeter Range Quality PLRM. OCCOC Range and Backscatter Quality Flags have been set for core records.           CS_OFFL_SIR_IOPR_2_20190721T1020637_C001         OCCOA Altimeter Range Quality PLRM. The OCOO Range and Backscatter Quality Flags have been set for core face secords.           CS_OFFL_SIR_IOPR_2_20190721T142057_20190721T1420637_C001         OCCOA Altimeter Range Quality PLRM. The OCOO Range and Backscatter Quality Flags have been set for core face secords.           CS_OFFL_SIR_IOPR_2_20190721T142057_20190721T142130_C001         Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for core face secords.           CS_OFFL_SIR_IOPR_2_20190721T142051_20190721T142130_C001         OCCOA Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for core face secords.           CS_OFFL_SIR_IOPR_2_20190721T142051_20190721T142130_C001         OCCOA Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for core or more records.           CS_OFFL_SI	CS_OFFL_SIR_IOPR_2_20190721T092223_20190721T092742_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_JOPR_2_20190721T100912_0109721T10500_C001       and Backscatter Quality PLRM. COCO Allmeter Range Quality PLRM. Coco Backscatter Quality Flags have been set for nore records.         CS_OFFL_SIR_JOPR_2_20190721T105000_C001       OCCO Allmeter Range Quality PLRM. Coco Backscatter Quality PLRM. Coco Allmeter Range, SSHA, SWH and Backscatter Quality Flags have aff or oor more records.         CS_OFFL_SIR_JOPR_2_20190721T142051_20190721T142052_C001       Ocean Allmeter Range, SSHA, SWH and Backscatter Quality Flags have aff or oor more records.       The Ocean Allmeter Range, SSHA, SWH and Backscatter Quality Flags have aff or oor more records.         CS_OFFL_SIR_JOPR_2_20	CS_OFFL_SIR_IOPR_2_20190721T094148_20190721T094401_C001	OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
GS_OFFL_SIR_IOPR_2_20190721T105030_0001         and Backscatter Quality PLRM_OCOG         and Backscatter Quality PLRM_OCOG           CS_OFFL_SIR_IOPR_2_20190721T1120450_20190721T1120637_0001         OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for more records.           CS_OFFL_SIR_IOPR_2_20190721T142051_20190721T142130_C001         OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.           CS_OFFL_SIR_IOPR_2_20190721T156936_20190721T156936_20190721T156936_20190721T156936_20190721T156936_20190721T160735_0001	CS_OFFL_SIR_IOPR_2_20190721T100612_20190721T101306_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_20190721113016_201907211120637_C001         OCOG Backscatter Quality         more records.           CS_OFFL_SIR_IOPR_2_201907211120450_201907211132267_201907211132267_201907211132267_201907211132267_201907211132267_201907211132267_201907211132267_201907211132267_201907211132267_201907211142130_C001         OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality         The OCOG Range and Backscatter Quality Flags have been set for more records.           CS_OFFL_SIR_IOPR_2_201907211132267_201907211142130_C001         OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality         The OCOG Range and Backscatter Quality         The OCOG Altimeter Range, SHA, SWH and the OCOG Altimeter Range and Backscatter Qual	CS_OFFL_SIR_IOPR_2_20190721T105009_20190721T105030_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_20190721112053_0001         OCCG Backscatter Quality         more records.           CS_OFFL_SIR_IOPR_2_201907211132257_201907211132247_C001         OCCG Altimeter Range Quality PLRM.         The OCCG Range and Backscatter Quality Flags have been set for more records.           CS_OFFL_SIR_IOPR_2_201907211142051_201907211142051_201907211142051_201907211142051_201907211142051_201907211142051_201907211142051_201907211142051_201907211142051_201907211142051_201907211142051_201907211142051_201907211142051_201907211142051_201907211142051_201907211143928_C001         The Occan Altimeter Range and Backscatter Quality PLRM. OCCOC Altimeter Range and Backscatter Quality PLRM.           CS_OFFL_SIR_IOPR_2_201907211143351_201907211143928_C001         Occan Altimeter Range and Backscatter Quality PLRM. OCCOC Altimeter Range and Backscatter Quality PLRM. OCCOL Altimeter Range and Backscatter Quality PLRM. OCCOL Altimeter Range and Backscatter Quality PLRM.           CS_OFFL_SIR_IOPR_2_201907211150019_201907211150757_C001         Occan Altimeter Range and Backscatter Quality PLRM. OCCOL And Backscatter Quality PLRM. OCCOL Altimeter Range and Backscatter Quality PLRM. OCCOL And Backscatter Quality PLRM. OCCOL Altimeter Range and Backscatter Quality PLRM. OCCOL And Backscatter Quality PLRM. OCCOL And Backscatter Quality PLRM. OCCOL Cocan Altimeter Range and Backscatter Quality PLRM. OCCOL Altimeter Range and Backscatter Quality PLRM. OCCOL Altimeter Range and Backscatter Quality PLRM. OCCOL Cocan Altimeter Range and Backscatter Quality PLRM. OCCOL Altimeter Range and Backscatter Quality PLRM. OCCOL Cocan Altimeter Range and Backscatter Quality PLRM. OCCOL Cocan Altimeter Range and Backscatter Quality PLRM. OCCOL Cocan Altimeter Range and Backscatter Quality PLRM. OCCOC Cocan Altimeter Range and Backscatter Quality PLRM. OC	CS_OFFL_SIR_IOPR_2_20190721T113718_20190721T114018_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190721T142051_20190721T142130_C001       OCCG Backscatter Quality       more records.         CS_OFFL_SIR_IOPR_2_20190721T142051_20190721T142130_C001       Ocean Altimeter Range and Backscatter Quality PLRM.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have bernorms.         CS_OFFL_SIR_IOPR_2_20190721T143351_20190721T143928_C001       Altimeter Range, SSHA, SWH and Backscatter Quality Flags have bernorms.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have bernorms.         CS_OFFL_SIR_IOPR_2_20190721T150019_20190721T150757_C001       Altimeter Range, SSHA, SWH and Backscatter Quality Flags have bernorms.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have bernorms.         CS_OFFL_SIR_IOPR_2_20190721T156019_20190721T150757_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have bernorms.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have bernorms.         CS_OFFL_SIR_IOPR_2_20190721T156936_20190721T156919_C001       Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have bernorms.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have bernorms.         CS_OFFL_SIR_IOPR_2_20190721T156936_20190721T160343_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have bern records.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have bern records.         CS_OFFL_SIR_IOPR_2_20190721T164735_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have bern records.       The OCean	CS_OFFL_SIR_IOPR_2_20190721T120450_20190721T120637_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190721T142051_20190721T142130_C001       and Backscatter Quality PLRM_OCOG         Attimeter Range and Backscatter Quality       PLRM         CS_OFFL_SIR_IOPR_2_20190721T143351_20190721T143928_C001       Cean Attimeter Range and Backscatter Quality         CS_OFFL_SIR_IOPR_2_20190721T143351_20190721T143928_C001       The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_IOPR_2_20190721T150019_20190721T150757_C001       Cean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_IOPR_2_20190721T154653_20190721T154915_C001       Cean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_IOPR_2_20190721T154653_20190721T154915_C001       Cean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_IOPR_2_20190721T154953_C0190721T164735_C001       Cean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_IOPR_2_20190721T164735_C001       Cean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_IOPR_2_20190721T164735_C001       Cean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_IOPR_2_20190721T164735_C001       Cean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_IOPR_2_20190721T164735_C001       Cean Attimeter Range, SSHA, SWH and Backscatter Qual	CS_OFFL_SIR_IOPR_2_20190721T132257_20190721T133247_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190721T143351_20190721T143928_C001       and Backscatter Quality PLRM, OCOG Altimeter Range and Ba	CS_OFFL_SIR_IOPR_2_20190721T142051_20190721T142130_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_20190721T150019_20190721T150757_C001       and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_IOPR_2_20190721T154653_20190721T154919_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, and Backscatter Quality PLRM         CS_OFFL_SIR_IOPR_2_20190721T155936_20190721T160343_C001       Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM         CS_OFFL_SIR_IOPR_2_20190721T164606_20190721T164735_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM         CS_OFFL_SIR_IOPR_2_20190721T166735_20190721T170055_C001       OCCGA Backscatter Quality PLRM       The OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality PLRM         CS_OFFL_SIR_IOPR_2_20190721T172505_20190721T172838_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM       The OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality PLRM         CS_OFFL_SIR_IOPR_2_20190721T172819_20190721T174205_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM         CS_OFFL_SIR_IOPR_2_20190721T173819_20190721T174205_C001       Ocean Altimeter Range and Backscatter Quality PLRM       Th	CS_OFFL_SIR_IOPR_2_20190721T143351_20190721T143928_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_20190721T154653_20190721T154919_C001       and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Qua	CS_OFFL_SIR_IOPR_2_20190721T150019_20190721T150757_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_20190721T155936_20190721T160343_C001       and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190721T172505_20190721T172505_20190721T172838_C001       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 Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190721T172505_20190721T172838_C001       Ocean 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 Flags have set for one or more records.         CS_OFFL_SIR_IOPR_2_20190721T173819_20190721T174205_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.	CS_OFFL_SIR_IOPR_2_20190721T154653_20190721T154919_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_20190721T164606_20190721T164735_C001       and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM       In B Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_IOPR_2_20190721T165735_20190721T170055_C001       OCOG Altimeter Range, SSHA, SWH OCOG Backscatter Quality       The OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_IOPR_2_20190721T172505_20190721T172055_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190721T172505_20190721T172838_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_IOPR_2_20190721T173819_20190721T174205_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.	CS_OFFL_SIR_IOPR_2_20190721T155936_20190721T160343_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_20190721T17305_20190721T174205_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_IOPR_2_20190721T172505_20190721T172838_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_IOPR_2_20190721T173819_20190721T174205_C001       Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.	CS_OFFL_SIR_IOPR_2_20190721T164606_20190721T164735_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_20190721T172505_20190721T172838_C001       and Backscatter Quality PLRM, OCOG       Altimeter Range and Backscatter Quality PLRM, OCOG         Altimeter Range and Backscatter Quality PLRM       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have         CS_OFFL_SIR_IOPR_2_20190721T173819_20190721T174205_C001       and Backscatter Quality PLRM, OCOG	CS_OFFL_SIR_IOPR_2_20190721T165735_20190721T170055_C001	OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190721T173819_20190721T174205_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Pland the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records	CS_OFFL_SIR_IOPR_2_20190721T172505_20190721T172838_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_20190721T173819_20190721T174205_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_20190721T182504_20190721T182732_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have Altimeter Range and Backscatter Quality Flags have PLRM	CS_OFFL_SIR_IOPR_2_20190721T182504_20190721T182732_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_20190721T190244_20190721T190908_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_20190721T195748_20190721T195842_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality COG Backscatter QUA	CS_OFFL_SIR_IOPR_2_20190721T195748_20190721T195842_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPR_2_20190721T202844_201	190721T202931_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_20190721T204252_201	90721T204851_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_20190721T213725_201	190721T214222_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_20190721T225448_201	190721T230304_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_20190721T231717_201	190721T232327_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_20190721T232551_201	90721T232608_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_20190721T232752_201	190721T232856_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_20190721T232907_201	190721T233124_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
L2 Quality Flags (1 Hz & 1Hz PLRM)			
Currently, there are several common flags rais	and in the Level O muchuster with	ich are commerciand below	
•	• •		
> 1Hz and 1Hz Ocean SSHA Quality Flags: The		ducts over sea ice, which is to be expected.	
Number of products with errors:	186		
5 9 1 2 Oppon Botrocking Ovelity			
5.8 L2 Ocean Retracking Quality (	Check		
L2 Retracking Flags (20Hz)	Check		
		ement record. The bit value of this flag indic:	ates any problems when set.
L2 Retracking Flags (20Hz) CryoSat L2 data includes an ocean retracking qua	ality flag for each 20-Hz measure	-	ates any problems when set. number of products with this error flag set is given below.
L2 Retracking Flags (20Hz) CryoSat L2 data includes an ocean retracking qua	ality flag for each 20-Hz measure	-	
L2 Retracking Flags (20Hz) CryoSat L2 data includes an ocean retracking qua Ocean Retracking Quality Flag: This flag is curre Number of products with errors:	ality flag for each 20-Hz measure ently set for products over land a	-	
L2 Retracking Flags (20Hz) CryoSat L2 data includes an ocean retracking qua Ocean Retracking Quality Flag: This flag is curre Number of products with errors: L2 Retracking Flags (20Hz, PLRM)	ality flag for each 20-Hz measure rently set for products over land a 54	and sea ice, but this is to be expected. The i	number of products with this error flag set is given below.
L2 Retracking Flags (20Hz) CryoSat L2 data includes an ocean retracking qua Ocean Retracking Quality Flag: This flag is curre Number of products with errors: L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking qua	ality flag for each 20-Hz measure ently set for products over land a 54 ality flag for each 20-Hz PLRM m	and sea ice, but this is to be expected. The interview of the seasurement record. The bit value of this flat	number of products with this error flag set is given below. g indicates any problems when set.
L2 Retracking Flags (20Hz) CryoSat L2 data includes an ocean retracking qua Ocean Retracking Quality Flag: This flag is curre Number of products with errors: L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking qua Ocean Retracking Quality Flag (PLRM): This flag	ality flag for each 20-Hz measure rently set for products over land a 54 ality flag for each 20-Hz PLRM m ag is currently set for products IC	and sea ice, but this is to be expected. The interview of the seasurement record. The bit value of this flat	number of products with this error flag set is given below. g indicates any problems when set.
L2 Retracking Flags (20Hz) CryoSat L2 data includes an ocean retracking qua Ocean Retracking Quality Flag: This flag is curre Number of products with errors: L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking qua	ality flag for each 20-Hz measure rently set for products over land a 54 ality flag for each 20-Hz PLRM m ag is currently set for products IC 147	and sea ice, but this is to be expected. The interest of the seasurement record. The bit value of this fla	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected.
L2 Retracking Flags (20Hz) CryoSat L2 data includes an ocean retracking qua Ocean Retracking Quality Flag: This flag is curre Number of products with errors: L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking qua Ocean Retracking Quality Flag (PLRM): This flag	ality flag for each 20-Hz measure rently set for products over land a 54 ality flag for each 20-Hz PLRM m ag is currently set for products IC 147	and sea ice, but this is to be expected. The interview of the seasurement record. The bit value of this flat	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected.
L2 Retracking Flags (20Hz) CryoSat L2 data includes an ocean retracking qua Ocean Retracking Quality Flag: This flag is curre Number of products with errors: L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking qua Ocean Retracking Quality Flag (PLRM): This flag	ality flag for each 20-Hz measure rently set for products over land a 54 ality flag for each 20-Hz PLRM m ag is currently set for products IC 147	and sea ice, but this is to be expected. The interest of the seasurement record. The bit value of this fla	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected.
L2 Retracking Flags (20Hz) CryoSat L2 data includes an ocean retracking qua Ocean Retracking Quality Flag: This flag is curre Number of products with errors: L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking qua Ocean Retracking Quality Flag (PLRM): This fla Number of products with errors:	ality flag for each 20-Hz measure rently set for products over land a 54 ality flag for each 20-Hz PLRM m ag is currently set for products IC 147 <b>6. IOP L2 I</b>	and sea ice, but this is to be expected. The intersurement record. The bit value of this flat oPR and IOPN products over sea ice, but the <b>Pole-to-Pole Data Quality</b>	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected.
L2 Retracking Flags (20Hz)         CryoSat L2 data includes an ocean retracking qua         Ocean Retracking Quality Flag: This flag is curre         Number of products with errors:         L2 Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking qua         Ocean Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking qua         Ocean Retracking Quality Flag (PLRM): This flag         Number of products with errors:         6.1 P2P Product Format Check	ality flag for each 20-Hz measure rently set for products over land a 54 ality flag for each 20-Hz PLRM m ag is currently set for products IC 147 <b>6. IOP L2 I</b>	and sea ice, but this is to be expected. The intersurement record. The bit value of this flat oPR and IOPN products over sea ice, but the <b>Pole-to-Pole Data Quality</b>	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected.
L2 Retracking Flags (20Hz)         CryoSat L2 data includes an ocean retracking qua         Ocean Retracking Quality Flag: This flag is current         Number of products with errors:         L2 Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking qua         Ocean Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking qua         Ocean Retracking Quality Flag (PLRM): This flag         Number of products with errors:         6.1 P2P Product Format Check         Each product, retrieved and unpacked from the so	ality flag for each 20-Hz measure rently set for products over land a 54 ality flag for each 20-Hz PLRM m ag is currently set for products IC 147 <b>6. IOP L2 I</b> cience server, is checked to ensu	and sea ice, but this is to be expected. The intersurement record. The bit value of this flat oPR and IOPN products over sea ice, but the <b>Pole-to-Pole Data Quality</b>	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected.
L2 Retracking Flags (20Hz)         CryoSat L2 data includes an ocean retracking qua         Ocean Retracking Quality Flag: This flag is current         Number of products with errors:         L2 Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking qua         Ocean Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking qua         Ocean Retracking Quality Flag (PLRM): This flag         Number of products with errors:         6.1 P2P Product Format Check         Each product, retrieved and unpacked from the soc         Number of products with errors:         6.2 P2P Product Header Analysis	ality flag for each 20-Hz measure rently set for products over land a 54 ality flag for each 20-Hz PLRM m ag is currently set for products IC 147 <b>6. IOP L2 I</b> cience server, is checked to ensu	and sea ice, but this is to be expected. The interasting the seasurement record. The bit value of this flater and IOPN products over sea ice, but the <b>Pole-to-Pole Data Quality</b> ure it consists of both an XML header file (.H	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected.
L2 Retracking Flags (20Hz)         CryoSat L2 data includes an ocean retracking qua         Ocean Retracking Quality Flag: This flag is current         Number of products with errors:         L2 Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking qua         Ocean Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking qua         Ocean Retracking Quality Flag (PLRM): This flag         Number of products with errors:         6.1 P2P Product Format Check         Each product, retrieved and unpacked from the soc         Number of products with errors:         6.2 P2P Product Header Analysis	ality flag for each 20-Hz measure rently set for products over land a 54 ality flag for each 20-Hz PLRM m ag is currently set for products IC 147 <b>6. IOP L2 I</b> cience server, is checked to ensu	and sea ice, but this is to be expected. The interasting the seasurement record. The bit value of this flater and IOPN products over sea ice, but the <b>Pole-to-Pole Data Quality</b> ure it consists of both an XML header file (.H	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected.  Check IDR) and a NetCDF product file (.nc).
L2 Retracking Flags (20Hz)         CryoSat L2 data includes an ocean retracking qua         Ocean Retracking Quality Flag: This flag is curre         Number of products with errors:         L2 Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking qua         Ocean Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking qua         Ocean Retracking Quality Flag (PLRM): This flag         Number of products with errors:         6.1 P2P Product Format Check         Each product, retrieved and unpacked from the sc         Number of products with errors:         6.2 P2P Product Header Analysis         For all products, a series of pre-defined checks ar	ality flag for each 20-Hz measure rently set for products over land a 54 ality flag for each 20-Hz PLRM m ag is currently set for products IC 147 <b>6. IOP L2 I</b> cience server, is checked to ensure 0 re performed on the MPH and SF 0	and sea ice, but this is to be expected. The interasting the seasurement record. The bit value of this flater and IOPN products over sea ice, but the <b>Pole-to-Pole Data Quality</b> ure it consists of both an XML header file (.H	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected. Check IDR) and a NetCDF product file (.nc).
L2 Retracking Flags (20Hz)         CryoSat L2 data includes an ocean retracking qua         Ocean Retracking Quality Flag: This flag is curron         Number of products with errors:         L2 Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking qua         Ocean Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking qua         Ocean Retracking Quality Flag (PLRM): This flag         Number of products with errors:         6.1 P2P Product Format Check         Each product, retrieved and unpacked from the sc         Number of products with errors:         6.2 P2P Product Header Analysis         For all products, a series of pre-defined checks ar         Number of products with errors:         6.3 P2P Auxiliary Data File Usage	ality flag for each 20-Hz measure rently set for products over land a 54 ality flag for each 20-Hz PLRM m ag is currently set for products IC 147 <b>6. IOP L2 I</b> cience server, is checked to ensu 0 re performed on the MPH and SF 0 <b>2 Check</b>	and sea ice, but this is to be expected. The intersurement record. The bit value of this flat oPR and IOPN products over sea ice, but the <b>Pole-to-Pole Data Quality</b> ure it consists of both an XML header file (.P	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected. DR) and a NetCDF product file (.nc). nd/or errors raised by the ground-segment processing chain.
L2 Retracking Flags (20Hz) CryoSat L2 data includes an ocean retracking qua Ocean Retracking Quality Flag: This flag is curre Number of products with errors:     L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking qua Ocean Retracking Quality Flag (PLRM): This fla Number of products with errors:     6.1 P2P Product Format Check Each product, retrieved and unpacked from the so Number of products with errors:     6.2 P2P Product Header Analysis For all products, a series of pre-defined checks ar Number of products with errors:	ality flag for each 20-Hz measure rently set for products over land a 54 ality flag for each 20-Hz PLRM m ag is currently set for products IC 147 <b>6. IOP L2 I</b> cience server, is checked to ensu 0 re performed on the MPH and SF 0 <b>2 Check</b>	and sea ice, but this is to be expected. The intersurement record. The bit value of this flat oPR and IOPN products over sea ice, but the <b>Pole-to-Pole Data Quality</b> ure it consists of both an XML header file (.P	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected.  DR) and a NetCDF product file (.nc).  nd/or errors raised by the ground-segment processing chain.

#### 6.4 P2P Auxiliary Correction Error Check

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

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

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.

> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190720T232300_20190721T001237_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
	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

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

# 6.5 P2P Measurement Confidence Data Check

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

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Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190720T232300_20190721T001237_C002	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220190721T024127_20190721T033104_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220190721T091821_20190721T100758_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Measurement Quality F	lag Check	
P2P Quality Flags (20Hz)		
CryoSat P2P data includes Quality Flags for ea	ach 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.	
Since the P2P Quality Flags are copied direct	ctly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.	
Number of products with errors:	29	
P2P Quality Flags (20Hz PLRM)		
Since the P2P Quality Flags are copied direct	ctly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.	
Number of products with errors:	28	
P2P Quality Flags (1 Hz & 1Hz PLR	?M)	
Since the P2P Quality Flags are copied direct	ctly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.	
Number of products with errors:	30	
6.8 P2P Ocean Retracking Qual	ity Check	
P2P Retracking Flags (20Hz)		
Cryosat P2P data includes an ocean retracking	g 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	s flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.	
Ocean Retracking Quality Flag (PLRM): This Number of products with errors:		
	flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.	
Number of products with errors: P2P Retracking Flags PLRM	flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.	
Number of products with errors: P2P Retracking Flags PLRM CryoSat L2 data includes an ocean retracking of	flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.	