

IDEAS+ Daily Report for IOP data:

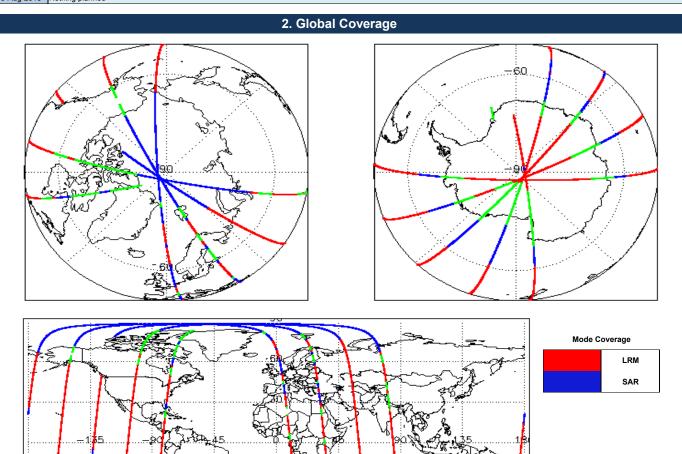
<u>02/08/2018</u>



1. Overview				
		Check	L1 & L2	P2P
Report Production:	07-Aug-2018	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
		Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
		Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	Nominal	Nominal
		Measurement Confidence Data Check	See Section 4.6	Nominal
		Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
		Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

Mission / Instrument News

01-Aug-2018 SIRAL unavailability from 18:43:44 on 01-Aug-2018 to 16:30:58 on 02-Aug-2018 due to an unplanned platform anomaly. 02-Aug-2018 SIRAL unavailability from 18:43:44 on 01-Aug-2018 to 16:30:58 on 02-Aug-2018 due to an unplanned platform anomaly. 03-Aug-2018 Nothing planned



3. Instrument Configuration

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

SIRAL - A

0

SIRAL instrument(s) in use:

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).

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Number of products with errors:

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

4.3 L1B Auxilary Data File Usage Check			
Each product is checked for missing Data Set Descriptors with respect to a pre-de Number of products with errors: 0	etermined baseline and also to check the v	validity of Auxiliary Data Files is correct.	
4.4 L1B Auxiliary Correction Error Check			
CryoSat L1B data includes a correction error flag for each measurement record. Number of products with errors: 0	The bit value of this flag indicates any prob	lems when set.	
4.5 L1B Measurement Confidence Data Check			
CryoSat L1B data includes a measurement confidence flag for each measurement	nt record. The bit value of this flag indicate	s any problems when set.	
Attitude Correction Missing: This flag is currently set in error for IOPR products Number of products with errors: 0	s due to a configuration issue. This is being	investigated and will be updated in the next SW update.	
4.6 L1B Waveform Group Data Check			
CryoSat L1B data includes a waveform data flag for each measurement record. T Loss of Echo Flag: This flag is currently set for products over land, but this is to Number of products with errors: 3		lems when set.	
Product	Test Failed	Description	
CS_OFFL_SIR_IOPM1B_20180802T232642_20180802T234749_C001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_IOPN1B_20180802T163058_20180802T163249_C001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_IOPN1B_20180802T163252_20180802T163308_C001	Loss of Echo	The tracking echo is missing for one or more records	
5. IOF	P Level 2 Data Quality Ch	leck	
5.1 L2 Product Format Check			
Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). Number of products with errors: 0			
5.0.1.0. Product Hander Analysia			
5.2 L2 Product Header Analysis			
For all products, a series of pre-defined checks are performed on the MPH and S Number of products with errors: 0	PH in order to identity any inconsistencies	and/or errors raised by the ground-segment processing chain.	
5.3 L2 Auxiliary Data File Usage Check			
Each product is checked for missing Data Set Descriptors with respect to a pre-de Number of products with errors: 0	etermined baseline and also to check the v	validity of Auxiliary Data Files is correct.	
5.4 L2 Auxiliary Correction Error Check			
For all products, the auxiliary corrections within the Geophysical Group are check Number of products with errors: 0	ked for the default error value (32767).		
5.5 L2 Measurement Confidence Data Check			
CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 0			
5.6 L2 Range Measurement Check			
CryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for each Currently, there are two common status flags raised in the Level 2 products table highlighting any additional issues which may arise from this test. Ocean Range Averaging Status Flag: This flag is currently set for products over lce Range Averaging Status Flag: This flag is currently set for products over lar Number of products with errors: 21	which are expected due to surface typ r land and sea ice, but this is to be expected nd, but this is to be expected.	e. All common flags are summarised in the list below, followed by a ed.	
Product CS_OFFL_SIR_IOPM_2_20180802T164006_20180802T164556_C001	Test Failed Ocean Range Averaging Status	Description The Ocean Range Averaging Status Flag has been set for one or more	
		records. The Ocean Range Averaging Status Flag has been set for one or more	
CS_OFFL_SIR_IOPM_2_20180802T164840_20180802T171143_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more	
CS_OFFL_SIR_IOPM_2_20180802T171517_20180802T172403_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more	
CS_OFFL_SIR_IOPM_2_20180802T172718_20180802T175017_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more	
CS_OFFL_SIR_IOPM_2_20180802T181714_20180802T185053_C001	Ocean Range Averaging Status	records.	
CS_OFFL_SIR_IOPM_2_20180802T190641_20180802T193032_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOPM_2_20180802T193825_20180802T194357_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOPM_2_20180802T195847_20180802T201346_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOPM_2_20180802T201920_20180802T202909_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOPM_2_20180802T203646_20180802T204234_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.	

 CS_OFFL_SIR_IOPM_2_20180802T204527_20180802T205019_C001
 Ocean Range Averaging Status

 CS_OFFL_SIR_IOPM_2_20180802T205259_20180802T210113_C001
 Ocean Range Averaging Status

The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOPM_2_20180802T212139_20180802T212307_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T213516_20180802T220840_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T221552_20180802T222105_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T222746_20180802T224209_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T231222_20180802T232355_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T232642_20180802T234749_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T235416_20180802T235551_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180802T212413_20180802T213201_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180802T235552_20180802T235558_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

5.7 L2 SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when seť.

Currently, there are three common status flags 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.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 20

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180802T164840_20180802T171143_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T171517_20180802T172403_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T172718_20180802T175017_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T181714_20180802T185053_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T190641_20180802T193032_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T193825_20180802T194357_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T195847_20180802T201346_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T201920_20180802T202909_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T203646_20180802T204234_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T204527_20180802T205019_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T205259_20180802T210113_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T212139_20180802T212307_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T213516_20180802T220840_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T221552_20180802T222105_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T222746_20180802T224209_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T231222_20180802T232355_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T232642_20180802T234749_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180802T235416_20180802T235551_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180802T212413_20180802T213201_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180802T235552_20180802T235558_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

5.8 L2 Ocean Retracking Quality Check

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

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

Number of products with errors:

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

6.1 P2P Product Format Check

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

6.2 P2P Product Header Analysis

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

6.3 P2P Auxiliary Data File Usage Check

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

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). Number of products with errors: 0 6.5 P2P Measurement Confidence Data Check CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 6.6 P2P Range Measurement Check

CryoSat P2P data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the P2P 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.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 10

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

CS_OFFL_SIR_IOP_2_20180802T162909_20180802T171849_C001 Ocean Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for or more records. CS_OFFL_SIR_IOP_2_20180802T171849_20180802T180823_C001 Ocean Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for or more records. CS_OFFL_SIR_IOP_2_20180802T180802T180802T180802T185802_C001 Ocean Range Averaging Status, Ice Range Averaging St	inge Averaging Status Flags have been set for one inge Averaging Status Flags have been set for one
CS_OFFL_SIR_IOP_2_20180802T171849_20180802T180823_C001 Range Averaging Status or more records. CS_OFFL_SIR_IOP_2_20180802T180823_20180802T185802_C001 Ocean Range Averaging Status, Ice Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for or more records. CS_OFFL_SIR_IOP_2_20180802T180802T185802_C001 Ocean Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for or more records. CS_OFFL_SIR_IOP_2_20180802T185802_20180802T185802_C001 Ocean Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for or more records.	nge Averaging Status Flags have been set for one
CS_OFFL_SIR_IOP_2_201808021185802_201808021185802_C001 Range Averaging Status or more records. CS_OFFL_SIR_IOP_2_201808021185802_201808021194736_C001 Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for	
	ge Averaging Status Flags have been set for one
CS_OFFL_SIR_IOP_2_20180802T194736_20180802T203716_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m records.	aging Status Flag has been set for one or more
CS_OFFL_SIR_IOP_2_20180802T203716_20180802T212650_C001 Ocean Range Averaging Status, Ice Range Averaging Status flags have been set for or more records.	ge Averaging Status Flags have been set for one
CS_OFFL_SIR_IOP_2_20180802T212650_20180802T221629_C001 Ocean Range Averaging Status, Ice Range Averaging Status Flags have been set for or more records.	ge Averaging Status Flags have been set for one
CS_OFFL_SIR_IOP_2_20180802T221629_20180802T230604_C001 Ocean Range Averaging Status, Ice Range Averaging Status Flags have been set for more records.	ge Averaging Status Flags have been set for one
CS_OFFL_SIR_IOP_2_20180802T230604_20180802T235543_C002 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m records.	aging Status Flag has been set for one or more
CS_OFFL_SIR_IOP_2_20180802T235543_20180803T004517_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	ig Status Flag has been set for one or more

6.7 P2P SWH and Backscatter Measurement Check

CryoSat P2P data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set

Currently, there are three common status flags raised in the P2P 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.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 10

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180802T162909_20180802T171849_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180802T171849_20180802T180823_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180802T180823_20180802T185802_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180802T185802_20180802T194736_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180802T194736_20180802T203716_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180802T203716_20180802T212650_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180802T212650_20180802T221629_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180802T221629_20180802T230604_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180802T230604_20180802T235543_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180802T235543_20180803T004517_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

6.8 P2P Ocean Retracking Quality Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180802T113129_20180802T122108_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180802T162909_20180802T171849_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220180802T171849_20180802T180823_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180802T180823_20180802T185802_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180802T185802_20180802T194736_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180802T194736_20180802T203716_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180802T203716_20180802T212650_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180802T212650_20180802T221629_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180802T221629_20180802T230604_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180802T230604_20180802T235543_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.