





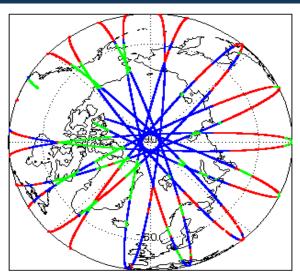
## 1. Overview

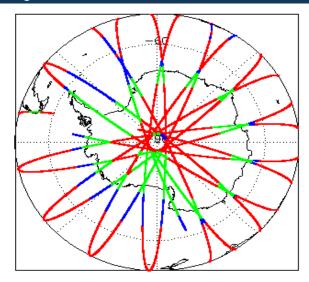
Report Production:	26-Apr-2019	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

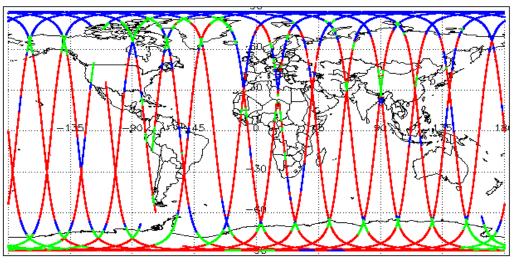
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.5, 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

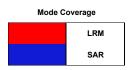
Mission / Instrument News	
22-Apr-2019	None
23-Apr-2019	None
04.4 0040	

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. IOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

Number of products with errors:

0

### 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.

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

### 4.5 L1B Measurement Confidence Data Check

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

Attitude Correction Missing: This flag is currently set in error for IOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

Λ

## 4.6 L1B Waveform Group Data Check

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

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

18

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20190423T104656_20190423T105126_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190423T111556_20190423T114912_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190423T015327_20190423T015937_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190423T025656_20190423T025903_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190423T043155_20190423T043651_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190423T060448_20190423T060527_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190423T142137_20190423T142352_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190423T152510_20190423T152659_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190423T192528_20190423T192600_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190423T233151_20190423T233709_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190423T051352_20190423T051510_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190423T073503_20190423T073702_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190423T091144_20190423T091439_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190423T124438_20190423T125021_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190423T125424_20190423T125724_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190423T133958_20190423T134531_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190423T141610_20190423T141743_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190423T183824_20190423T184017_C001	Loss of Echo	The tracking echo is missing for one or more records

### 5. IOP Level 2 Data Quality Check

## 5.1 L2 Product Format Check

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

Number of products with errors:

0

### 5.2 L2 Product Header Analysis

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

Number of products with errors:

0

## 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

#### 5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

0

## 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

### 5.6 L2 Range Measurement Check

CryoSat L2 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 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.

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.

Number of products with errors:

78

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190423T002937_20190423T004700_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T005141_20190423T005939_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190423T011444_20190423T011743_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T012000_20190423T013544_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T013757_20190423T015245_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T015937_20190423T020150_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T020233_20190423T020650_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T020836_20190423T022328_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T022507_20190423T024102_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T030305_20190423T031257_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T033729_20190423T034553_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T034814_20190423T041057_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T044657_20190423T045004_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T045006_20190423T051351_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T051915_20190423T052408_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T052708_20190423T055203_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T062544_20190423T063539_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T064116_20190423T065232_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T065836_20190423T070434_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T070606_20190423T073503_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T075727_20190423T083131_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T083743_20190423T084305_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T084442_20190423T084905_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T084939_20190423T085101_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T092058_20190423T092446_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T093709_20190423T094548_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T094833_20190423T101051_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T101636_20190423T101746_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T101752_20190423T102159_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T102356_20190423T103704_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T103851_20190423T104453_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T111556_20190423T114912_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T115143_20190423T115644_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T115704_20190423T120016_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T120743_20190423T123846_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T125843_20190423T130628_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T131024_20190423T132842_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T133033_20190423T133542_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T134531_20190423T135618_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T140138_20190423T141325_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T144112_20190423T145128_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T145307_20190423T150733_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T150952_20190423T151452_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T152659_20190423T153754_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T153932_20190423T154516_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOPM_2_20190423T154800_20190423T155458_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T162407_20190423T164703_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T165029_20190423T165409_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T170024_20190423T172747_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T180034_20190423T182635_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T182811_20190423T183323_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T183329_20190423T183657_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T184017_20190423T185126_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T185705_20190423T191358_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T194953_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T194955_20190423T195445_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T200002_20190423T200625_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T200811_20190423T201356_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T201926_20190423T205314_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T210646_20190423T210743_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T212505_20190423T214540_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T214738_20190423T215249_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T215847_20190423T222104_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T222207_20190423T223317_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T224458_20190423T224614_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T230253_20190423T232255_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T232300_20190423T232352_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T232933_20190423T233151_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190423T020650_20190423T020826_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190423T024745_20190423T024818_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190423T152510_20190423T152659_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190423T164739_20190423T165029_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190423T004700_20190423T005141_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190423T052628_20190423T052708_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190423T065232_20190423T065436_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190423T102323_20190423T102356_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190423T210345_20190423T210646_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190423T223529_20190423T224244_C001	Ocean Range Averaging Status	The Ocean 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 set.

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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190423T002937_20190423T004700_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_20190423T005141_20190423T005939_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_20190423T011444_20190423T011743_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T012000_20190423T013544_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_20190423T013757_20190423T015245_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_20190423T015937_20190423T020150_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T020233_20190423T020650_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T020836_20190423T022328_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_20190423T022507_20190423T024102_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_20190423T030305_20190423T031257_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

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Exp. Ger.   Bill.   Comp.   2,0000427786419, 2010427770645, 2001  CO., OFT.   Bill.   Comp.   2,000042778649, 2010427770645, 2001  CO., OFT.   Bill.   Comp.   2,000042778649, 201042770645, 2001  CO., OFT.   Bill.   Comp.   2,00004277977, 201042770645, 2001  CO., OFT.   Bill.   Comp.   2,000042779679, 201042770645, 2001  CO., OFT.   Bill.   Comp.   2,00004277977, 201042770645, 2001  CO., OFT.   Bill.   Comp.   2,000042779777, 201042770645, 2001  CO., OFT.   Bill.   Comp.   2,000042779777, 2010427710645, 2001  CO., OFT.   Bill.   Comp.   2,000042779777, 2010427797, 2010427797, 2010427797, 2010427797, 2010427797, 2010427797, 2010427797, 2010427797, 2010427979, 2010427979, 201042799, 20
Be-blooker Averaging Status. Figure 1 (in the Collectoration Averaging Status Figure 1
DB_CHFL_SRIP_CMM_2_20104627167422_20104627167430
Sec. OPE, BILL, OPEAL, 2, 2010;4237184579, 2010;423718459, COID  CG, OPE, BILL, OPEAL, 2, 2010;423718459, COID  CG, OPE, BILL, OPEAL, 2, 2010;423718459, COID  CG, OPEL, BILL, OPEAL, 2, 2010;42371859, COID  CG, OPEL, BILL, OPEAL, 2, 2010;423711859, COID  CG, OPEL, BILL, OPEAL,
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GO, GPEL, SIRL, DPM 2, 2010042711043019, 201044271104310,
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G., GPFL, SRI, IDPM2, 2.019042371010432100435 (2010)  G. GPFL, SRI, IDPM2, 2.01904237101052, 20100423710459, 2010  G. GPFL, SRI, IDPM2, 2.01904237101752, 20100423710459, 2010  G. GPFL, SRI, IDPM2, 2.01904237101752, 20100423710459, 2010  G. GPFL, SRI, IDPM2, 2.01904237101752, 20100423710459, 2010  G. GPFL, SRI, IDPM2, 2.0190423710369, 20100423710450, 2010  G. GPFL, SRI, IDPM2, 2.0190423710369, 20100423710450, 2010  G. GPFL, SRI, IDPM2, 2.0190423710369, 20100423710450, 2010  G. GPFL, SRI, IDPM2, 2.0190423710369, 20100423710590, 2010  G. GPFL, SRI, IDPM2, 2.0190423710369, 20100423710590, 2010  G. GPFL, SRI, IDPM2, 2.0190423710369, 20100423712590, 2010  G. GPFL, SRI, IDPM2, 2.0190423710369, 20100423712590, 2010  G. GPFL, SRI, IDPM2, 2.0190423711590, 20100423712590, 2010  G. GPFL, SRI, IDPM2, 2.0190423712590, 2010  G. GPFL, SRI, IDPM2, 2.0190423712590, 2010  G. GPFL, SRI, IDPM2, 2.0190423711590, 20100423712590, 2010  G. GPFL, SRI, IDPM2, 2.0190423712590, 2010  G. GPFL, SRI, IDPM2, 2.0190423711950, 20100423713590, 2011  G. GPFL, SRI, IDPM2, 2.01904237119503, 20100423713590, 2010  G. GPFL, SRI, IDPM2, 2.01904237119503, 20100423713590, 2010  G. GPFL, SRI, IDPM2, 2.01904237119503, 20100423715950, 2010  G. GPFL, SRI, IDPM2,
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So. GFFL_SR_QFM_2_201904221101632_0190422110764_C001  So. GFFL_SR_QFM_2_201904221107642_0190422110764_C001  So. GFFL_SR_QFM_2_0190422110256_201904221103794_C001  So. GFFL_SR_QFM_2_201904221102794_C001  So. GFFL_SR_QFM_2_2019042211103794_C001  So. GFFL_SR_QFM_2_20190422111103794_C001  So. GFFL_SR_QFM_2_2019042211103794_C001  So. GFFL_SR_QFM_2_20190422111004221103794_C001  So. GFFL_SR_QFM_2_20190422111004221103794_C001  So. GFFL_SR_QFM_2_2019042211100422110374_C001  So. GFFL_SR_
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SOFFL_SR_JOPM_2_201904237110352_20190423710443_0001  SOFFL_SR_JOPM_2_201904237110352_201904237114412_0001  SOFFL_SR_JOPM_2_201904237114156_20190423711412_0001  SOFFL_SR_JOPM_2_20190423711412_20190423711412_0001  SOFFL_SR_JOPM_2_20190423711504_20190423711504_0001  SOFFL_SR_JOPM_2_20190423711504_20190423711504_0001  SOFFL_SR_JOPM_2_20190423711504_20190423711504_0001  SOFFL_SR_JOPM_2_20190423711504_301904237135056_0001  SOFFL_SR_JOPM_2_20190423713033_201904237135056_0001  SOFFL_SR_JOPM_2_20190423713033_201904237135056_0001  SOFFL_SR_JOPM_2_20190423713033_201904237135056_0001  SOFFL_SR_JOPM_2_20190423714033_201904237135056_0001  SOFFL_SR_JOPM_2_20190423714033_201904237135056_0001  SOFFL_SR_JOPM_2_20190423714033_201904237135056_0001  SOFFL_SR_JOPM_2_20190423714035_201904237135056_0001  SOFFL_SR_JOPM_2_20190423714035_201904237135056_0001  SOFFL_SR_JOPM_2_20190423714035_201904237135056_0001  SOFFL_SR_JOPM_2_20190423714035_201904237135056_0001  SOFFL_SR_JOPM_2_20190423714035_201904237135056_0001  SOFFL_SR_JOPM_2_20190423714035_201904237145056_0001  SOFFL_SR_JOPM_2_20190423714035_201904237145056_0001  SOFFL_SR_JOPM_2_201904237140566_0001  SOFFL_SR_JOPM_2_201904237140566_0001  SOFFL_SR_JOPM_2_201904237140566_0001  SOFFL_SR_JOPM_2_201904237140566_0001  SOFFL_SR_JOPM_2_201904237140566_0001  SOFFL_SR_JOPM_2_201904237140566_0001  SOFFL_SR_JOPM_2_20190423715066_0001  SOFFL
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So, OFFL_SIR_JOPM_2_201904237115902_201904237115904_CO01 So OFFL_SIR_JOPM_2_201904237115704_201904237120016_CO01 So OFFL_SIR_JOPM_2_201904237115704_201904237120016_CO01 So OFFL_SIR_JOPM_2_201904237120743_201904237120016_CO01 So OFFL_SIR_JOPM_2_201904237120743_201904237120016_CO01 So OFFL_SIR_JOPM_2_201904237120743_201904237120016_CO01 So OFFL_SIR_JOPM_2_201904237120016_CO01 So OFFL_SIR_JOPM_2_201904237130002_CO01 So OFFL_SIR_JOPM_2_201904237130002_CO01 So OFFL_SIR_JOPM_2_201904237130002_CO01 So OFFL_SIR_JOPM_2_201904237130002_CO01 So OFFL_SIR_JOPM_2_20190423714000237130016_CO01 So OFFL_SIR_JOPM_2_201904237140000200000000000000000000000000000000
So CFFL_SR_IOPM_2 201904237116704_201904237116904_0001  OS OFFL_SR_IOPM_2 201904237116704_201904237120016_0001  SO SFL_SR_IOPM_2 201904237120743_20190423713082_0001  SWH Averaging Status. Ocean SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Switch Averaging Status Flags have been set for one or more records.  SWH Averaging Status Switch Averaging Status Flags have been set for one or more records.  SWH Averaging Status Switch Averaging Status Flags have been set for one or more records.  SWH Averaging Status Switch Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging
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CS_OFFL_SIR_IOPM_2_20190423T12843_20190423T13626_C001
SO_OFFL_SIR_IOPM_2_20190423T130124_20190423T132842_C001  SWH Averaging Status. Ocean Backscatter Averaging Status. Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190423T13033_20190423T135618_C001  SWH Averaging Status, Cean Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more growing status, Cean Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more growing status, Cean Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set for one or more records.  SWH Averaging Status Flags have been set
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CS_OFFL_SIR_IOPM_2_20190423T162407_20190423T164703_C001  SWH Averaging Status  CS_OFFL_SIR_IOPM_2_20190423T165029_20190423T165409_C001  CS_OFFL_SIR_IOPM_2_20190423T165029_20190423T165733_C001  CS_OFFL_SIR_IOPM_2_20190423T170024_20190423T172747_C001  CS_OFFL_SIR_IOPM_2_20190423T170024_20190423T172747_C001  CS_OFFL_SIR_IOPM_2_20190423T180034_20190423T182635_C001  CS_OFFL_SIR_IOPM_2_20190423T182811_20190423T183323_C001  CS_OFFL_SIR_IOPM_2_20190423T182811_20190423T183323_C001  CS_OFFL_SIR_IOPM_2_20190423T183329_20190423T183657_C001  CS_OFFL_SIR_IOPM_2_20190423T183329_20190423T185705_C001  CS_OFFL_SIR_IOPM_2_20190423T185705_20190423T191358_C001  CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T194953_C001  CS_OFFL_SIR_IOPM_2_20190423T200002_20190423T194953_C001  CS_OFFL_SIR_IOPM_2_20190423T200002_20190423T200625_C001  CS_OFFL_SIR_IOPM_2_20190423T1200012_20190423T1200605_C001  CS_OFFL_SIR_IOPM_2_20190423T1200012_20190423T1200605_C001  CS_OFFL_SIR_IOPM_2_20190423T1200012_20190423T1200605_C001  CS_OFFL_SIR_IOPM_2_20190423T1200012_20190423T1200605_C001  CS_OFFL_SIR_IOPM_2_20190423T1200012_20190423T1200605_C001  CS_OFFL_SIR_IOPM_2_20190423T1200012_20190423T1200605_C001  CS_OFFL_SIR_IOPM_2_20190423T1200012_20190423T1200605_C001  CS_OFFL_SIR_IOPM_2_20190423T1200012_20190423T1200605_C001  CS_OFFL_SIR_IOPM_2_20190423T2000012_20190423T200605_C001
Backscatter Averaging Status  CS_OFFL_SIR_IOPM_2_20190423T16509_20190423T16509_C001  CS_OFFL_SIR_IOPM_2_20190423T16503_C001  CS_OFFL_SIR_IOPM_2_20190423T16503_C001  CS_OFFL_SIR_IOPM_2_20190423T170024_20190423T172747_C001  SWH Averaging Status  CS_OFFL_SIR_IOPM_2_20190423T180034_20190423T182635_C001  CS_OFFL_SIR_IOPM_2_20190423T182811_20190423T182635_C001  CS_OFFL_SIR_IOPM_2_20190423T182811_20190423T183323_C001  CS_OFFL_SIR_IOPM_2_20190423T183329_20190423T183657_C001  CS_OFFL_SIR_IOPM_2_20190423T183329_20190423T183657_C001  CS_OFFL_SIR_IOPM_2_20190423T183029_20190423T185126_C001  CS_OFFL_SIR_IOPM_2_20190423T185055_20190423T19358_C001  CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T19358_C001  CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T194953_C001  CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T194953_C001  CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T194953_C001  CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T194953_C001  CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T190625_C001  CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T190625_C001  CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T100625_C001  CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T100625_C001  CS_OFFL_SIR_IOPM_2_20190423T100002_20190423T200625_C001  CS_OFFL_SIR_IOPM_2_20190423T100002_20190423T200625_C001  CS_OFFL_SIR_IOPM_2_20190423T100002_20190423T200625_C001  CS_OFFL_SIR_IOPM_2_20190423T200002_20190423T200625_C001  CS_OFFL_SIR_IOPM_2_20190423T200002_20
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Backscatter Averaging Status  CS_OFFL_SIR_IOPM_2_20190423T18231_20190423T183323_C001  CS_OFFL_SIR_IOPM_2_20190423T183329_20190423T183657_C001  CS_OFFL_SIR_IOPM_2_20190423T184017_20190423T185126_C001  CS_OFFL_SIR_IOPM_2_20190423T185705_20190423T191358_C001  CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T194953_C001  CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T194953_C001  CS_OFFL_SIR_IOPM_2_20190423T200002_20190423T194953_C001  CS_OFFL_SIR_IOPM_2_20190423T200002_20190423T200625_C001  CS_OFFL_SIR_IOPM_2_20190423T200002_20190423T200625_C001  CS_OFFL_SIR_IOPM_2_20190423T200811_20190423T201356_C001  CS_OFFL_SIR_IOPM_2_20190423T200811_20190423T201356_C001  CS_OFFL_SIR_IOPM_2_20190423T200811_20190423T201356_C001  CS_OFFL_SIR_IOPM_2_20190423T200811_20190423T201356_C001  CS_OFFL_SIR_IOPM_2_20190423T200811_20190423T201356_C001  CS_OFFL_SIR_IOPM_2_20190423T200811_20190423T201356_C001  CS_OFFL_SIR_IOPM_3_20190423T200811_20190423T201356_C001  CS_OFFL_SIR_IOPM_3_201
CS_OFFL_SIR_IOPM_2_20190423T183329_20190423T183657_C001  CS_OFFL_SIR_IOPM_2_20190423T184017_20190423T185126_C001  CS_OFFL_SIR_IOPM_2_20190423T185705_20190423T191358_C001  CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T194953_C001  CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T194953_C001  CS_OFFL_SIR_IOPM_2_20190423T200002_20190423T200625_C001  CS_OFFL_SIR_IOPM_2_20190423T200002_20190423T200625_
CS_OFFL_SIR_IOPM_2_20190423T184017_20190423T185126_C001  CS_OFFL_SIR_IOPM_2_20190423T185705_20190423T191358_C001  CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T194953_C001  CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T194953_C001  CS_OFFL_SIR_IOPM_2_20190423T200002_20190423T194953_C001  CS_OFFL_SIR_IOPM_2_20190423T200002_20190423T200625_C001  CS_OFFL_SIR_IOPM_2_20190423T200002_20190423T200625_
Backscatter Averaging Status more records.  CS_OFFL_SIR_IOPM_2_20190423T185705_20190423T191358_C001  CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T194953_C001  CS_OFFL_SIR_IOPM_2_20190423T20002_20190423T194953_C001  CS_OFFL_SIR_IOPM_2_20190423T20002_20190423T200625_C001  CS_OFFL_SIR_IOPM_2_20190423T200625_C001
Backscatter Averaging Status  CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T194953_C001  CS_OFFL_SIR_IOPM_2_20190423T200002_20190423T200625_C001  CS_OFFL_SIR_IOPM_2_20190423T200002_20190423T200625_C001  CS_OFFL_SIR_IOPM_2_20190423T200002_20190423T200625_C001  CS_OFFL_SIR_IOPM_2_20190423T200002_20190423T200625_C001  CS_OFFL_SIR_IOPM_2_20190423T200001_20190423T200625_C001  CS_OFFL_SIR_IOPM_2_20190423T200001_20190423T2
CS_OFFL_SIR_IOPM_2_20190423T193655_20190423T194953_C001  SWH Averaging Status, Ocean Backscatter Averaging Status Averaging Status Status  CS_OFFL_SIR_IOPM_2_20190423T20002_20190423T200625_C001  CS_OFFL_SIR_IOPM_2_20190423T200811_20190423T201356_C001  SWH Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T200002_20190423T200625_C001  SWH Averaging Status, Ocean Backscatter Averaging Status  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The loe Backscatter Averaging Status  The loe Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190423T200811_20190423T201356_C001   Ice Backscatter Averaging Status   The Ice Backscatter   The
records.
CS_OFFL_SIR_IOPM_2_20190423T201926_20190423T205314_C001  SWH Averaging Status, Ocean Backscatter Averaging Status more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T210646_20190423T210743_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status more records.  CS_OFFL_SIR_IOPM_2_20190423T212505_20190423T214540_C001  Backscatter Averaging Status, Ocean Backscatter Averaging Status flags have been set for one or more records.

CS_OFFL_SIR_IOPM_2_20190423T214738_20190423T215249_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190423T215847_20190423T222104_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_20190423T222207_20190423T223317_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_20190423T224458_20190423T224614_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_20190423T230253_20190423T232255_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_20190423T232933_20190423T233151_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190423T020650_20190423T020826_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_IOPN_2_20190423T024745_20190423T024818_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_IOPN_2_20190423T152510_20190423T152659_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_IOPN_2_20190423T164739_20190423T165029_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190423T004700_20190423T005141_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_20190423T052628_20190423T052708_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_20190423T065232_20190423T065436_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_20190423T102323_20190423T102356_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_20190423T210345_20190423T210646_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_20190423T223529_20190423T224244_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have 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.

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: 58

## 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: 0

#### 6.2 P2P Product Header Analysis

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

Number of products with errors:

# 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

### 6.4 P2P Auxiliary Correction Error Check

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

Number of products with errors:

### 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.

Number of products with errors: 28

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190423T002207_20190423T0111146_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190423T0111146_20190423T020120_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190423T020120_20190423T025100_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190423T025100_20190423T034034_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190423T034034_20190423T043013_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190423T043013_20190423T051948_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190423T051948_20190423T060927_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190423T060927_20190423T065901_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190423T065901_20190423T074840_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
	Range Averaging Status Ocean Range Averaging Status, Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status, Ice Range Averaging Status

### 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.

Description

Test Failed

**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.

Number of products with errors:

Product

Product	Test Falled	Description
CS_OFFL_SIR_IOP_220190423T002207_20190423T011146_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_220190423T011146_20190423T020120_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_220190423T020120_20190423T025100_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_220190423T025100_20190423T034034_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_220190423T034034_20190423T043013_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_20190423T043013_20190423T051948_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_220190423T051948_20190423T060927_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_220190423T060927_20190423T065901_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_220190423T065901_20190423T074840_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_220190423T074840_20190423T083815_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_220190423T083815_20190423T092754_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_220190423T092754_20190423T101728_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_220190423T101728_20190423T110708_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_220190423T110708_20190423T115642_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_220190423T115642_20190423T124621_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_220190423T124621_20190423T133555_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_220190423T133555_20190423T142535_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_220190423T142535_20190423T151509_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_220190423T151509_20190423T160448_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_220190423T160448_20190423T165423_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_220190423T165423_20190423T174402_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_220190423T174402_20190423T183336_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_220190423T183336_20190423T192315_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_220190423T192315_20190423T201250_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_220190423T201250_20190423T210229_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_220190423T210229_20190423T215203_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_220190423T215203_20190423T224143_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_220190423T224143_20190423T233117_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.

### 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:

CS\_OFFL\_SIR\_IOP\_2\_\_20190423T002207\_20190423T011146\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20190423T011146\_20190423T020120\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20190423T020120 20190423T025100 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20190423T025100\_20190423T034034\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20190423T034034\_20190423T043013\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20190423T043013 20190423T051948 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20190423T051948\_20190423T060927\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20190423T065901 20190423T074840 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20190423T074840 20190423T083815 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20190423T083815\_20190423T092754\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20190423T092754 20190423T101728 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20190423T101728\_20190423T110708\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20190423T110708\_20190423T115642\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20190423T115642\_20190423T124621\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20190423T124621\_20190423T133555\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20190423T133555\_20190423T142535\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20190423T142535\_20190423T151509\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20190423T151509\_20190423T160448\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20190423T160448\_20190423T165423\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20190423T165423 20190423T174402 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20190423T174402\_20190423T183336\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20190423T192315\_20190423T201250\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20190423T201250 20190423T210229 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20190423T210229\_20190423T215203\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20190423T215203\_20190423T224143\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20190423T224143 20190423T233117 C001 The Ocean Retracking Quality Flag has been set for one or more records. Ocean Retracking Quality Flag