



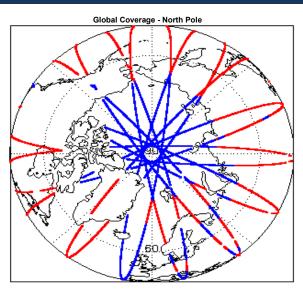
## 1. Overview

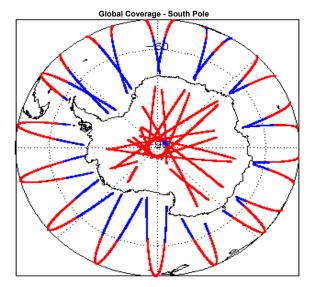
Report Production Date:	07-Nov-2016
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B and L2 Science Data

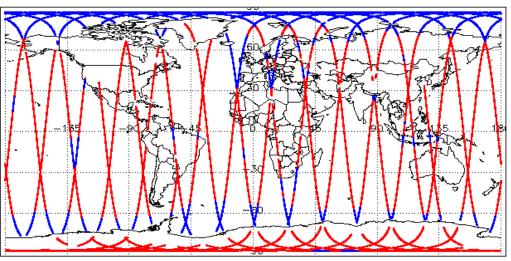
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement Confidence Data Check	See Section 4.5, 4.6, 5.5, 5.6, 5.7 and 5.8

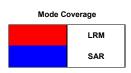
Mission / Instrument News		
05-Oct-2016	None	
06-Oct-2016	None	
07-Oct-2016	Nothing planned	

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. GOP 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 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 (field 60) 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 (field 12) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_1B_20161006T174434_20161006T174742_B001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

#### 4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag (field 65) 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:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_1B_20161006T034019_20161006T034300_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161006T042108_20161006T042626_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161006T052201_20161006T054135_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161006T055729_20161006T055922_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161006T060013_20161006T060810_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161006T073444_20161006T073845_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161006T073846_20161006T074740_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161006T115404_20161006T115917_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161006T123754_20161006T124438_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161006T191929_20161006T191951_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161006T210115_20161006T211128_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161006T223120_20161006T223650_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161006T231438_20161006T232029_B001	Loss of Echo	The tracking echo is missing for one or more records

## 5. GOP 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 product file (.DBL).

Number of products with errors:

### 5.2 L2 Product Header Analysis

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

Number of products with errors:

## 5.3 L2 Auxiliary Data File Usage Check

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

Wind Model File Usage: This file is currently not included in all L2 products.

Number of products with errors:

#### 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).

0

Currently, there are two 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.

Sea State Bias Error: 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:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20161006T003913_20161006T005454_B001	Fauilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20161006T011254_20161006T011447_B001	Fauilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20161006T020329_20161006T022603_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_GOP_2_20161006T025052_20161006T030222_B001	Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20161006T043752_20161006T043947_B001	Fauilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220161006T073152_20161006T073316_B001	Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

CS_OFFL_SIR_GOP_2_20161006T085257_20161006T090532_B001	Geoid Height	There is an error with the Geoid height for one or more records
CS_OFFL_SIR_GOP_2_20161006T110436_20161006T110549_B001	Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220161006T140044_20161006T141220_B001	Total Geocentric Ocean Tide (FES), Non-	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_GOP_2_20161006T210115_20161006T211128_B001	Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20161006T211128_20161006T213418_B001	Mean Sea Surface (2)	There is an error with the MSS height (solution 2) for one or more records
CS_OFFL_SIR_GOP_2_20161006T233244_20161006T234727_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records

### 5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag (field 14) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220161006T174433_20161006T174742_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

## 5.6 L2 Range Measurement Check

CryoSat L2 data includes an Ocean (field 25) and Ice (field 30) Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Total Falled

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.

 $\textbf{Ice Range Averaging Status Flag:} \ \textbf{This flag is currently set for products over land, but this is to be expected.}$ 31

Number of products with errors:

CS_OFFL_SIR_GOP_2_20161006T03132_20161006T05958_8001  CS_OFFL_SIR_GOP_2_20161006T03122_0016006T05958_8001  CS_OFFL_SIR_GOP_2_20161006T03322_20161006T053322_9001  CS_OFFL_SIR_GOP_2_20161006T03322_20161006T053322_9001  CS_OFFL_SIR_GOP_2_20161006T03322_20161006T053322_9001  CS_OFFL_SIR_GOP_2_20161006T05302_20161006T05322_9001  CS_OFFL_SIR_GOP_2_20161006T05302_20161006T051017_8001  CS_OFFL_SIR_GOP_2_20161006T05302_20161006T051017_8001  CS_OFFL_SIR_GOP_2_20161006T05342_9010  CS_OFFL_SIR_GOP_2_20161006T05342_9010  CS_OFFL_SIR_GOP_2_20161006T05342_9010  CS_OFFL_SIR_GOP_2_20161006T05342_9010  CS_OFFL_SIR_GOP_2_20161006T05142_9016006T05543_9001  CS_OFFL_SIR_GOP_2_20161006T05342_9010  CS_OFFL_SIR_GOP_2_20161006T05162_901007055142_9001  CS_OFFL_SIR_GOP_2_20161006T05162_90100710548_9001  CS_OFFL_SIR_GOP_2_20161006T05162_90100710549_9001  CS_OFFL_SIR_GOP_2_20161006T101002_901006T0101049_9001  CS_OFFL_SIR_GOP_2_20161006T101002_9010006T0101049_9001  CS_OFFL_SIR_GOP_2_20161006T101002_9010006T0101049_9001  CS_OFFL_SIR_GOP_2_20161006T101002_9010006T0101049_9001  CS_OFFL_SIR_GOP_2_20161006T101002_9010006T101049_9001  CS_OFFL_SIR_GOP_2_20161006T101002_9161006T101004_9001  CS_OFFL_SIR_GOP_2_20161006T101002_9010006T101004_9001  CS_OFFL_SIR_GOP_2_20161006T101002_9010006T101004_9001  CS_OFFL_SIR_GOP_2_20161006T101002_9010006T101004_9001  CS_OFFL_SIR_GOP_2_20161006T101002_9010006T101004_9001  CS_OFFL_SIR_GOP_2_20161006T101002_9010006T101004_9001  CS_OFFL_SIR_GOP_2_20161006T101002_9010006T101004_9001  CS_OFFL_SIR_GOP_2_20161006T101004_9010006T101004_9001  CS_OFFL_SIR_GOP_2_20161006T101004_9010006T101004_9001  CS_OFFL_SIR_GOP_2_20161006T10010041_9010006T101004_9001  CS_OFFL_SIR_GOP_2_20161006T1001007100742_9001  CS_OFFL_SIR_GOP_2_20161006T1001007100742_9001  CS_OFFL_SIR_GOP_2_20161006T1001007100742_9001  CS_OFFL_SIR_GOP_2_20161006T1001007100742_9001  CS_OFFL_SIR_GOP_2_20161006T1001007100740_9001  CS_OFFL_SIR_GOP_2_20161006T1001007100740_9001  CS_OFFL_SIR_GOP_2_20161006T10010007100740_9001  CS_OFFL_SIR_GOP_2_20161006T10007100740_9001  CS_	Product	Test Failed	Description
Les Arrigan (Saltus Files) has been set for one or more records.  S. OFFL_SIR_GOP_2_20161006T033302_2016007053302_8001  Les Range Averaging Slatus  The loe Range Averaging Slatus Files has been set for one or more records.  S. OFFL_SIR_GOP_2_20161006T061240_20161006T061834_8001  CS_OFFL_SIR_GOP_2_20161006T061240_20161006T061834_8001  CS_OFFL_SIR_GOP_2_20161006T0613203_20161006T065706_8001  CS_OFFL_SIR_GOP_2_20161006T06303_20161006T065706_8001  CS_OFFL_SIR_GOP_2_20161006T06303_20161006T063146_8001  CS_OFFL_SIR_GOP_2_20161006T06303_20161006T063146_8001  CS_OFFL_SIR_GOP_2_20161006T06303_20161006T063002_8001  CS_OFFL_SIR_GOP_2_20161006T06303_20161006T063002_8001  CS_OFFL_SIR_GOP_2_20161006T06303_20161006T063002_8001  CS_OFFL_SIR_GOP_2_20161006T06303_20161006T063002_8001  CS_OFFL_SIR_GOP_2_20161006T101106_20161006T101106_8001  CS_OFFL_SIR_GOP_2_20161006T101106_20161006T101106_8001  CS_OFFL_SIR_GOP_2_20161006T101106_20161006T101106_8001  CS_OFFL_SIR_GOP_2_20161006T101106_20161006T101106_8001  CS_OFFL_SIR_GOP_2_20161006T101106_20161006T101106_8001  CS_OFFL_SIR_GOP_2_20161006T101106_20161006T101106_8001  CS_OFFL_SIR_GOP_2_20161006T101106_20161006T101106_8001  CS_OFFL_SIR_GOP_2_20161006T10106_20161006T101006_8001  CS_OFFL_SIR_GOP_2_20161006T10106_20161006T101006_8001  CS_OFFL_SIR_GOP_2_20161006T10106_20161006T101006_8001  CS_OFFL_SIR_GOP_2_20161006T10106_20161006T101006_8001  CS_OFFL_SIR_GOP_2_20161006T100611006T105742_8001  CS_OFFL_SIR_GOP_2_20161006T105410_20161006T105742_8001  CS_OFFL_SIR_GOP_2_20161006T105402_20161006T105742_8001  CS_OFFL_SIR_GOP_2_20161006T105402_20161006T105742_8001  CS_OFFL_SIR_GOP_2_20161006T105403_20161006T11054_8001  CS_OFFL_SIR_GOP_2_20161006T105403_20161006T11054_8001  CS_OFFL_SIR_GOP_2_20161006T105403_20161006T11054_8001  CS_OFFL_SIR_GOP_2_20161006T105403_20161006T11054_8001  CS_OFFL_SIR_GOP_2_20161006T105403_20161006T11054_8001  CS_OFFL_SIR_GOP_2_20161006T105403_20161006T11054_8001  CS_OFFL_SIR_GOP_2_20161006T105403_20161006T105403_20160001  CS_OFFL_SIR_GOP_2_20161006T105403_20161006T11054	CS_OFFL_SIR_GOP_2_20161006T001336_20161006T001555_B001	Ice Range Averaging Status	
Les Parrie, Sirik, GOP 2 20161006T1033032 20161006T103302 8001  CS_OFFL_SIR, GOP 2 20161006T033103 20161006T03104 8001  CS_OFFL_SIR, GOP 2 20161006T03104 20161006T03104 8001  CS_OFFL_SIR, GOP 2 20161006T03104 20161006T03104 8001  CS_OFFL_SIR, GOP 2 20161006T03104 20161006T03104 8001  CS_OFFL_SIR, GOP 2 20161006T03105 20161006T03104 8001  CS_OFFL_SIR, GOP 2 20161006T03105 20161006T03104 8001  CS_OFFL_SIR, GOP 2 20161006T03105 20161006T031006 8001  CS_OFFL_SIR, GOP 2 20161006T03105 20161006T031006 8001  CS_OFFL_SIR, GOP 3 20161006T03105 20161006T031006 8001  CS_OFFL_SIR, GOP 2 20161006T03105 20161006T1006 8001  CS_OFFL_SIR, GOP 2 20161006T101005 8001  CS_OFFL_SIR, GOP 2 20161006T101005 8001  CS_OFFL_SIR, GOP 2 20161006T101005 8001  CS_OFFL_SIR, GOP 2 20161006T101006 8001  CS_OFFL_SIR, GOP 2 20161006T101006 8001  CS_OFFL_SIR, GOP 2 20161006T101006 1006T1006T042 8001  CS_OFFL_SIR, GOP 2 20161006T1006T1006T1006T042 8001  CS_OFFL_SIR, GOP 2 20161006T1006T1006T1006T042 8001  CS_OFFL_SIR, GOP 2 20161006T1006T1006T1006T042 8001  CS_OFFL_SIR, GOP 2 20161006T106410 20161006T10644 8001  CS_OFFL_SIR, GOP 2 20161006T114945 20161006T114961 8001  CS_OFFL_SIR, GOP 2 20161006T114945 20161006T11906 8001  CS_OFFL_SIR, GOP 2 20161006T113033 20161006T11906 8001  CS_OFFL_SIR, GOP 2 20161006T113033 20161006T11906 8001  CS_OFFL_SIR, GOP 2 20161006T115032 20161006T106742 8001  CS_OFFL_SIR, GOP 2 20161006T11606 8001  CS_OFFL_SIR, GOP 2 20161006T11606 8001  CS_OFFL_SIR, GOP 2 20161006T11606 8001  CS_OFFL_SIR, GOP 2 20161006T132334 20161006T13285 8001  CS_OFFL_SIR, GOP 2 20161006T132334 20161006T1328	CS_OFFL_SIR_GOP_2_20161006T015125_20161006T015958_B001	Ice Range Averaging Status	
CS_OFF_SIR_GOP_2_201610067053242_0016006705348_8001  CS_OFF_SIR_GOP_2_201610067055140_201610067056705_8001  CS_OFF_SIR_GOP_2_201610067055140_201610067056705_8001  CS_OFF_SIR_GOP_2_201610067065147_201610067065705_8001  CS_OFF_SIR_GOP_2_201610067065147_201610067065705_8001  CS_OFF_SIR_GOP_2_201610067063303_201610067063042_8001  CS_OFF_SIR_GOP_2_201610067063303_201610067063002_8001  CS_OFF_SIR_GOP_2_201610067063305_201610067063002_8001  CS_OFF_SIR_GOP_2_2016100671003305_201610067063002_8001  CS_OFF_SIR_GOP_2_2016100671003305_201610067063002_8001  CS_OFF_SIR_GOP_2_2016100671003305_20161006703002_8001  CS_OFF_SIR_GOP_2_201610067100305_201610067101040_8001  CS_OFF_SIR_GOP_2_20161006710100_201610067101100_8001  CS_OFF_SIR_GOP_2_201610067101100_201610067101402_8001  CS_OFF_SIR_GOP_2_201610067101100_201610067101402_8001  CS_OFF_SIR_GOP_2_201610067101100_201610067101402_8001  CS_OFF_SIR_GOP_2_201610067101100_201610067101402_8001  CS_OFF_SIR_GOP_2_2016100671011403_201610067101402_8001  CS_OFF_SIR_GOP_2_201610067101100_201610067101402_8001  CS_OFF_SIR_GOP_2_20161006711403_201610067105742_8001  CS_OFF_SIR_GOP_2_2016100671130302_201610067113058_8001  CS_OFF_SIR_GOP_2_2016100671130302_2016100671130300_8001  CS_OFF_SIR_GOP_2_201610067132304_201610067132304_8001  CS_OFF_SIR_GOP_2_201610067132304_201610067132300_8001  CS_OFF_SIR_GOP_2_201610067132303_201610067132300_8001  CS_OFF_SI	CS_OFFL_SIR_GOP_2_20161006T033035_20161006T033226_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20161006T051240_20161006T05134_B001  CS_OFFL_SIR_GOP_2_20161006T065134_B001  CS_OFFL_SIR_GOP_2_20161006T065140_B001  CS_OFFL_SIR_GOP_2_20161006T010104_20161006T10104_B001  CS_OFFL_SIR_GOP_2_20161006T101104_20161006T10104_B001  CS_OFFL_SIR_GOP_2_20161006T101104_20161006T10104_B001  CS_OFFL_SIR_GOP_2_20161006T101104_20161006T10104_B001  CS_OFFL_SIR_GOP_2_20161006T101040_20161006T10104_B001  CS_OFFL_SIR_GOP_2_20161006T1010410_20161006T10104_B001  CS_OFFL_SIR_GOP_2_20161006T105140_20161006T105142_B001  CS_OFFL_SIR_GOP_2_20161006T105140_20161006T105142_B001  CS_OFFL_SIR_GOP_2_20161006T114404_20161006T105142_B001  CS_OFFL_SIR_GOP_2_20161006T114045_20161006T11505_B001  CS_OFFL_SIR_GOP_2_20161006T11504_20161006T11505_B001  CS_OFFL_SIR_GOP_2_20161006T11504_20161006T11505_B001  CS_OFFL_SIR_GOP_2_20161006T11504_20161006T11505_B001  CS_OFFL_SIR_GOP_2_20161006T11504_20161006T11505_B001  CS_OFFL_SIR_GOP_2_20161006T11504_20161006T11505_B001  CS_OFFL_SIR_GOP_2_20161006T13203_20161006T11506_B001  CS_OFFL_SIR_GOP_2_20161006T13203_20161006T11508_B001  CS_OFFL_SIR_GOP_2_20161006T13203_20161006T13203_B001  CS_OFFL_SIR_GOP_2_20161006T13203_20161006T13203_B001  CS_OFFL_SIR_GOP_2_20161006T13203_20161006T13205_B001  CS_OFFL_SIR_GOP_2_20161006T13203_20161006T13205_B001  CS_OFFL_SIR_GOP_2_20161006T13203_20161006T13205_B001  CS_OFFL_SIR_GOP_2_20161006T13203_20161006T13205_B001  CS_OFFL_SIR_GOP_2_20161006T13203_20161006T13205_B001  CS_OFFL_SIR_GOP_2_20161006T13203_20161006T13205_B001  CS_OFFL_SIR_GOP_2_20161006T13203_20161006T13205_B001  CS_OFFL_SIR_GOP_2_20161006T13203_20161006T13205_B001  CS_OFFL_SIR_GOP_2_20161006T13203_20161006T13205_B001  CS_OFFL_SIR_GOP_2_2016100	CS_OFFL_SIR_GOP_2_20161006T033321_20161006T033802_B001	Ice Range Averaging Status	
CS_OFF_SIR_GOP_2_201610067085147_201610067085705_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_GOP_2_201610067085165_201610067085302_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_GOP_2_201610067100536_201610067101046_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_GOP_2_20161006710100_201610067101046_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_GOP_2_201610067101100_201610067101106_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_GOP_2_201610067101100_201610067101106_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_GOP_2_201610067101106_201610067101402_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_GOP_2_20161006710410_20161006710444_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_GOP_2_201610067114045_201610067114044_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_GOP_2_201610067114045_201610067114045_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_GOP_2_201610067114045_201610067114045_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_GOP_2_201610067114045_201610067114045_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_GOP_2_201610067114045_201610067113045_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_GOP_2_201610067113023_201610067113045_B001  Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or	CS_OFFL_SIR_GOP_2_20161006T051003_20161006T051017_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20161006T083033_20161006T083148_B001  CR_OFFL_SIR_GOP_2_20161006T083156_20161006T083168_B001  Lee Range Averaging Status  Lee Range Averaging Status  Lee Range Averaging Status Flag has been set for one or more records.  The lice Range Averaging Status Flag has been set for one or more records.  The lice Range Averaging Status Flag has been set for one or more records.  The lice Range Averaging Status Flag has been set for one or more records.  The lice Range Averaging Status Flag has been set for one or more records.  The lice Range Averaging Status Flag has been set for one or more records.  The lice Range Averaging Status Flag has been set for one or more records.  The lice Range Averaging Status Flag has been set for one or more records.  The lice Range Averaging Status Flag has been set for one or more records.  The lice Range Averaging Status Flag has been set for one or more records.  The lice Range Averaging Status Flag has been set for one or more records.  The lice Range Averaging Status Flag has been set for one or more records.  The lice Range Averaging Status Flag has been set for one or more records.  The lice Range Averaging Status Flag has been set for one or more records.  The lice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20161006T11445_20161006T114951_B001  Lee Range Averaging Status  The lice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20161006T11504_20161006T11514B_B001  Lee Range Averaging Status  The lice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20161006T13292_20161006T13293_B001  Lee Range Averaging Status  The lice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20161006T13293_20161006T13293_B001  Lee Range Averaging Status  The lice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20161006T13293_20161006T13293_B001  Lee Range Averaging Status  The lice Range Averaging St	CS_OFFL_SIR_GOP_2_20161006T051240_20161006T051834_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20161006T105332_20161006T10106_B001  CS_OFFL_SIR_GOP_2_20161006T100532_20161006T10106_B001  CS_OFFL_SIR_GOP_2_20161006T101002_0161006T101106_B001  CS_OFFL_SIR_GOP_2_20161006T101002_0161006T101106_B001  CS_OFFL_SIR_GOP_2_20161006T101002_0161006T1010402_B001  CS_OFFL_SIR_GOP_2_20161006T101002_0161006T1010402_B001  CS_OFFL_SIR_GOP_2_20161006T101002_0161006T1016742_B001  CS_OFFL_SIR_GOP_2_20161006T101002_0161006T1016742_B001  CS_OFFL_SIR_GOP_2_20161006T114932_20161006T114951_B001  CS_OFFL_SIR_GOP_2_20161006T114952_20161006T114951_B001  CS_OFFL_SIR_GOP_2_20161006T114952_20161006T114951_B001  CS_OFFL_SIR_GOP_2_20161006T115004_20161006T115015_B001  CS_OFFL_SIR_GOP_2_20161006T115004_20161006T115015_B001  CS_OFFL_SIR_GOP_2_20161006T115004_20161006T115015_B001  CS_OFFL_SIR_GOP_2_20161006T132932_20161006T132855_B001  CS_OFFL_SIR_GOP_2_20161006T132932_20161006T132851_B001  CS_OFFL_SIR_GOP_2_20161006T132932_20161006T132851_B001  CS_OFFL_SIR_GOP_2_20161006T132932_20161006T153291_B001  CS_OFFL_SIR_GOP_2_20161006T132932_20161006T153291_B001  CS_OFFL_SIR_GOP_2_20161006T132932_20161006T153291_B001  CS_OFFL_SIR_GOP_2_20161006T132937_20161006T15091_B001  CS_OFFL_SIR_GOP_2_20161006T132937_20161006T153291_B001  CS_OFFL_SIR_GOP_2_20161006T132937_20161006T1532901_B001  CS_OFFL_SIR_GOP_2_20161006T132937_20161006T1532901_B001  CS_OFFL_SIR_GOP_2_20161006T132937_20161006T1532901_B001  CS_OFFL_SIR_GOP_2_20161006T132937_20161006T153001_B001  CS_OFFL_SIR_GOP_2_20161006T132937_20161006T155001_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T164725_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T164725_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T164725_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T164725_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T164725_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T164725_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T164725_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T164725_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T164725_B001  CS_OFFL_SIR_GOP_2_20161006T16473	CS_OFFL_SIR_GOP_220161006T065147_20161006T065705_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20161006T10035a_20161006T101046_B001  CS_OFFL_SIR_GOP_2_20161006T101100_20161006T101106_B001  CS_OFFL_SIR_GOP_2_20161006T101106_20161006T101106_B001  CS_OFFL_SIR_GOP_2_20161006T101106_20161006T101106_B001  CS_OFFL_SIR_GOP_2_20161006T1015041_20161006T101402_B001  CS_OFFL_SIR_GOP_2_20161006T105410_20161006T105742_B001  CS_OFFL_SIR_GOP_2_20161006T114433_20161006T114945_B001  CS_OFFL_SIR_GOP_2_20161006T114945_20161006T114945_B001  CS_OFFL_SIR_GOP_2_20161006T114945_20161006T114945_B001  CS_OFFL_SIR_GOP_2_20161006T115004_20161006T1150B001  CS_OFFL_SIR_GOP_2_20161006T115004_20161006T1150B001  CS_OFFL_SIR_GOP_2_20161006T115004_20161006T1150B001  CS_OFFL_SIR_GOP_2_20161006T115004_20161006T1150B001  CS_OFFL_SIR_GOP_2_20161006T115004_20161006T1150B001  CS_OFFL_SIR_GOP_2_20161006T115004_20161006T1150B001  CS_OFFL_SIR_GOP_2_20161006T115004_20161006T1150B001  CS_OFFL_SIR_GOP_2_20161006T115004_20161006T1150B001  CS_OFFL_SIR_GOP_2_20161006T115004_20161006T1150B001  CS_OFFL_SIR_GOP_2_20161006T115004_20161006T1006T1006T1006T1006T1006T1006T1	CS_OFFL_SIR_GOP_2_20161006T083033_20161006T083148_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20161006T101100_20161006T01106_B001  CS_OFFL_SIR_GOP_2_20161006T101100_20161006T01106_B001  CS_OFFL_SIR_GOP_2_20161006T101106_20161006T0101402_B001  CS_OFFL_SIR_GOP_2_20161006T105410_20161006T010542_B001  CS_OFFL_SIR_GOP_2_20161006T10540_20161006T10542_B001  CS_OFFL_SIR_GOP_2_20161006T114945_20161006T114944_B001  CS_OFFL_SIR_GOP_2_20161006T114945_20161006T114945_B001  CS_OFFL_SIR_GOP_2_20161006T114945_20161006T114945_B001  CS_OFFL_SIR_GOP_2_20161006T114945_20161006T114945_B001  CS_OFFL_SIR_GOP_2_20161006T115004_20161006T114945_B001  CS_OFFL_SIR_GOP_2_20161006T115004_20161006T11505_B001  CS_OFFL_SIR_GOP_2_20161006T115004_20161006T11505_B001  CS_OFFL_SIR_GOP_2_20161006T132354_20161006T11548_B001  CS_OFFL_SIR_GOP_2_20161006T132354_20161006T132355_B001  CS_OFFL_SIR_GOP_2_20161006T132354_20161006T132355_B001  CS_OFFL_SIR_GOP_2_20161006T132354_20161006T132354_B001  CS_OFFL_SIR_GOP_2_20161006T132354_20161006T132354_B001  CS_OFFL_SIR_GOP_2_20161006T132354_20161006T132354_B001  CS_OFFL_SIR_GOP_2_20161006T132354_20161006T132354_B001  CS_OFFL_SIR_GOP_2_20161006T132354_B001  CS_OFFL_SIR_GOP_2_20161006T132354_B001  CS_OFFL_SIR_GOP_2_20161006T132354_B001  CS_OFFL_SIR_GOP_2_20161006T132354_B001  CS_OFFL_SIR_GOP_2_20161006T132354_B001  CS_OFFL_SIR_GOP_2_20161006T132354_B001  CS_OFFL_SIR_GOP_2_20161006T150337_20161006T132354_B001  CS_OFFL_SIR_GOP_2_20161006T164219_20161006T132054_B001  CS_OFFL_SIR_GOP_2_20161006T164219_20161006T150831_B001  CS_OFFL_SIR_GOP_2_20161006T164219_20161006T164275_B001  CS_OFFL_SIR_GOP_2_20161006T164219_20161006T1620652_B001  CS_OFFL_SIR_GOP_2_20161006T1620542_20161006T182555_B001  CS_OFFL_SIR_GOP_2_20161006T16213254_20161006T182555_B001  CS_OFFL_SIR_GOP_2_20161006T16213256_20161006T182555_B001  CS_OFFL_SIR_GOP_2_20161006T16213256_B001  CS_OFFL_SIR_GOP_2_20161006T16213256_B001  CS_OFFL_SIR_GOP_2_20161006T16213256_B001  CS_OFFL_SIR_GOP_2_20161006T16213256_B001  CS_OFFL_SIR_GOP_2_20161006T16213255_B001  CS_OFFL_SIR_GOP_2_20161006T16213255_B001  CS_OFFL_SIR_GOP_2_20161006T16213256_B001	CS_OFFL_SIR_GOP_220161006T083156_20161006T083602_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20161006T10110_20161006T101402_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range	CS_OFFL_SIR_GOP_220161006T100536_20161006T101046_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_2_20161006T105410_20161006T105742_B001  CG_OFFL_SIR_GOP_2_20161006T114439_20161006T114944_B001  CG_OFFL_SIR_GOP_2_20161006T114439_20161006T114944_B001  CG_OFFL_SIR_GOP_2_20161006T114945_20161006T114951_B001  CG_OFFL_SIR_GOP_2_20161006T114945_20161006T115015_B001  CG_OFFL_SIR_GOP_2_20161006T115004_20161006T115015_B001  CG_OFFL_SIR_GOP_2_20161006T115004_20161006T115015_B001  CG_OFFL_SIR_GOP_2_20161006T115004_20161006T115015_B001  CG_OFFL_SIR_GOP_2_20161006T115004_20161006T115015_B001  CG_OFFL_SIR_GOP_2_20161006T132334_20161006T132855_B001  CG_OFFL_SIR_GOP_2_20161006T132324_20161006T132913_B001  CG_OFFL_SIR_GOP_2_20161006T132902_20161006T132913_B001  CG_OFFL_SIR_GOP_2_20161006T132930_20161006T132939_B001  CG_OFFL_SIR_GOP_2_20161006T132937_20161006T1333040_B001  CG_OFFL_SIR_GOP_2_20161006T132937_20161006T150811_B001  CG_OFFL_SIR_GOP_2_20161006T150834_20161006T150811_B001  CG_OFFL_SIR_GOP_2_20161006T150834_20161006T150811_B001  CG_OFFL_SIR_GOP_2_20161006T150834_20161006T150811_B001  CG_OFFL_SIR_GOP_2_20161006T150834_20161006T150811_B001  CG_OFFL_SIR_GOP_2_20161006T150834_20161006T150811_B001  CG_OFFL_SIR_GOP_2_20161006T150834_20161006T164725_B001  CG_OFFL_SIR_GOP_2_20161006T164219_20161006T164725_B001  CG_OFFL_SIR_GOP_2_20161006T164219_20161006T164725_B001  CG_OFFL_SIR_GOP_2_20161006T182824_20161006T182959_B001  CG_OFFL_SIR_GOP_2_20161006T18284_20161006T182959_B001  CG_OFFL_SIR_GOP_2_20161006T18284_20161006	CS_OFFL_SIR_GOP_220161006T101100_20161006T101106_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_2_20161006T114941_B001	CS_OFFL_SIR_GOP_220161006T101106_20161006T101402_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_2_20161006T114945_20161006T114951_B001	CS_OFFL_SIR_GOP_220161006T105410_20161006T105742_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_2_20161006T115004_20161006T115015_B001  Loe Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20161006T132937_20161006T132939_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20161006T150437_20161006T13040_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more recor	CS_OFFL_SIR_GOP_2_20161006T114439_20161006T114944_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_2_20161006T11503_20161006T11514B_B001	CS_OFFL_SIR_GOP_220161006T114945_20161006T114951_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_2_20161006T132354_20161006T132855_B001	CS_OFFL_SIR_GOP_2_20161006T115004_20161006T115015_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_2_20161006T132902_20161006T132913_B001  CS_OFFL_SIR_GOP_2_20161006T132920_20161006T132929_B001  CS_OFFL_SIR_GOP_2_20161006T132937_20161006T132929_B001  CS_OFFL_SIR_GOP_2_20161006T132937_20161006T133040_B001  CS_OFFL_SIR_GOP_2_20161006T132937_20161006T133040_B001  CS_OFFL_SIR_GOP_2_20161006T150437_20161006T150811_B001  CS_OFFL_SIR_GOP_2_20161006T150437_20161006T150811_B001  CS_OFFL_SIR_GOP_2_20161006T150834_20161006T151150_B001  CS_OFFL_SIR_GOP_2_20161006T150834_20161006T150814_B001  CS_OFFL_SIR_GOP_2_20161006T164219_20161006T164725_B001  CS_OFFL_SIR_GOP_2_20161006T164219_20161006T164725_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T165100_B001  CS_OFFL_SIR_GOP_2_20161006T182217_20161006T182757_B001  CS_OFFL_SIR_GOP_2_20161006T182217_20161006T182299_B001  CS_OFFL_SIR_GOP_2_20161006T182854_20161006T182959_B001  CS_OFFL_SIR_GOP_2_20161006T20142_20161006T182959_B001  CS_OFFL_SIR_GOP_2_20161006T20142_20161006T200652_B001  CS_OFFL_SIR_GOP_2_20161006T214346_20161006T24554_B001  CS_OFFL_SIR_GOP_2_20161006T2232304_20161006T24554_B001  CS_OFFL_SIR_GOP_2_20161006T232304_20161006T24554_B001  CS_OFFL_SIR_GOP_2_20161006T232304_20161006T232503_B001  CS_OFFL_SIR_GOP_2_20161006T232304_20161006T232503_B001  CS_OFFL_SIR_GOP_2_20161006T232304_20161006T232503_B001  CS_OFFL_SIR_GOP_2_20161006T232304_20161006T232503_B001  CS_OFFL_SIR_GOP_2_20161006T232304_20161006T24554_B001  CS_OFFL_SIR_GOP_2_20161006T232304_20161006T232503_B001  CS_OFFL_SIR_GOP_2_20161006T232304_20161006T214554_B001  CS_OFFL_SIR_GOP_2_20161006T232304_20161006T232503_B001  CS_OFFL_SIR_GOP_2_20161006T232304_20161006T232503_B001  CS_OFFL_SIR_GOP_2_20161006T24554_B001  CS_DFIL_SIR_GOP_2_20161006T24554_B001  CS_DFIL_SIR_GOP_2_20161006T24346_20161006T24554_B001  CS_DFIL_SIR_GOP_2_20161006T24346_20161006T24554_B001  CS_DFIL_SIR_GOP_2_20161006T24346_20161006T24554_B001  CS_DFIL_SIR_GOP_2_20161006T24346_20161006T24554_B001  CS_DFIL_SIR_GOP_2_20161006T24346_20161006T24554_B001  CS_DFIL_SIR_GOP_2_20161006T24554_B001  CS_DFIL_SIR_GOP_2_20161006T24554_B001  C	CS_OFFL_SIR_GOP_2_20161006T115023_20161006T115148_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20161006T132920_20161006T132929_B001  Loe Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T165100_B001  Loe Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20161006T182854_20161006T182959_B001  Loe Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more reco	CS_OFFL_SIR_GOP_2_20161006T132354_20161006T132855_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_2_20161006T132937_20161006T132937_20161006T132937_20161006T132937_20161006T132937_20161006T132937_20161006T132937_20161006T150811_B001  CS_OFFL_SIR_GOP_2_20161006T150834_20161006T150811_B001  CS_OFFL_SIR_GOP_2_20161006T150834_20161006T151150_B001  CS_OFFL_SIR_GOP_2_20161006T164219_20161006T164725_B001  CS_OFFL_SIR_GOP_2_20161006T164219_20161006T164725_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T165100_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T165100_B001  CS_OFFL_SIR_GOP_2_20161006T182217_20161006T182757_B001  CS_OFFL_SIR_GOP_2_20161006T182854_20161006T182959_B001  CS_OFFL_SIR_GOP_2_20161006T182854_20161006T200652_B001  CS_OFFL_SIR_GOP_2_20161006T200142_20161006T200652_B001  CS_OFFL_SIR_GOP_2_20161006T214346_20161006T214554_B001  CS_OFFL_SIR_GOP_2_20161006T214346_20161006T214554_B001  CS_OFFL_SIR_GOP_2_20161006T232304_20161006T214554_B001  CS_OFFL_SIR_GOP_2_20161006T232304_20161006T232503_B001  CS_OFFL_SIR_GOP_2_20161006T234346_20161006T232503_B001  CS_OFFL_SIR_GOP_2_20161006T233304_20161006T232503_B001  CS_OFFL_SIR_GOP_2_20161006T234346_20161006T232503_B001  CS_OFFL_SIR_GOP_2_20161006T234346_20161006T232	CS_OFFL_SIR_GOP_220161006T132902_20161006T132913_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_2_20161006T150437_20161006T150811_B001  CS_OFFL_SIR_GOP_2_20161006T150834_20161006T151150_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T151150_B001  CS_OFFL_SIR_GOP_2_20161006T164219_20161006T164725_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T164725_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T165100_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T165100_B001  CS_OFFL_SIR_GOP_2_20161006T182217_20161006T182757_B001  CS_OFFL_SIR_GOP_2_20161006T182217_20161006T182959_B001  CS_OFFL_SIR_GOP_2_20161006T182854_20161006T182959_B001  CS_OFFL_SIR_GOP_2_20161006T200142_20161006T200652_B001  CS_OFFL_SIR_GOP_2_20161006T200142_20161006T200652_B001  CS_OFFL_SIR_GOP_2_20161006T214346_20161006T214554_B001  CS_OFFL_SIR_GOP_2_20161006T232304_20161006T232503_B001  CS_OFFL_SIR_GOP_2_20161006T232503_B001  CS_OFFL_SIR_GOP_2_20161006T232503_B001  CS_OFFL_SIR_GOP_2_20161006T232503_B001  CS_OFFL_SIR_GOP_2_20161006T232503_B001  CS_OFFL_SIR_GOP_2_20161006T232503_B001	CS_OFFL_SIR_GOP_220161006T132920_20161006T132929_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_2_20161006T150834_20161006T151150_B001  CS_OFFL_SIR_GOP_2_20161006T164219_20161006T164725_B001  CS_OFFL_SIR_GOP_2_20161006T164219_20161006T164725_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T165100_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T165100_B001  CS_OFFL_SIR_GOP_2_20161006T182217_20161006T182757_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220161006T132937_20161006T133040_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_2_20161006T164219_20161006T164725_B001  Ice Range Averaging Status  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20161006T182217_20161006T182757_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20161006T182854_20161006T182959_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_2_20161006T150437_20161006T150811_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_2_20161006T164732_20161006T165100_B001  CS_OFFL_SIR_GOP_2_20161006T164732_20161006T182757_B001  CS_OFFL_SIR_GOP_2_20161006T182217_20161006T182757_B001  CS_OFFL_SIR_GOP_2_20161006T182854_20161006T182959_B001  CS_OFFL_SIR_GOP_2_20161006T182854_20161006T182959_B001  CS_OFFL_SIR_GOP_2_20161006T200142_20161006T200652_B001  CS_OFFL_SIR_GOP_2_20161006T200142_20161006T200652_B001  CS_OFFL_SIR_GOP_2_20161006T200142_20161006T200652_B001  CS_OFFL_SIR_GOP_2_20161006T214346_20161006T214554_B001  CS_OFFL_SIR_GOP_2_20161006T214346_20161006T214554_B001  CS_OFFL_SIR_GOP_2_20161006T233304_20161006T233503_B001  CS_OFFL_SIR_GOP_2_20161006T233304_20161006T235503_B001  CS_OFFL_SIR_GOP_2_20161006T233304_20161006T233503_B001  CS_OFFL_SIR_GOP_2_20161006T233304_20161006T233503_B001  CS_OFFL_SIR_GOP_2_20161006T233304_20161006T233503_B001  CS_OFFL_SIR_GOP_2_20161006T233304_20161006T233503_B001  CS_OFFL_SIR_GOP_2_20161006T233304_20161006T233503_B001  CS_OFFL_SIR_GOP_2_20161006T233	CS_OFFL_SIR_GOP_220161006T150834_20161006T151150_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_2_20161006T182217_20161006T182757_B001  Ice Range Averaging Status  records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20161006T20142_20161006T200652_B001  Ice Range Averaging Status  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220161006T164219_20161006T164725_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_2_20161006T182854_20161006T182959_B001  CS_OFFL_SIR_GOP_2_20161006T182854_20161006T182959_B001  CS_OFFL_SIR_GOP_2_20161006T200142_20161006T200652_B001  CS_OFFL_SIR_GOP_2_20161006T2014346_20161006T200652_B001  CS_OFFL_SIR_GOP_2_20161006T214346_20161006T214554_B001  CS_OFFL_SIR_GOP_2_20161006T214346_20161006T214554_B001  CS_OFFL_SIR_GOP_2_20161006T233304_20161006T233503_B001  CS_OFFL_SIR_GOP_2_20161006T233503_B001  CS_OFFL_SIR_GOP_2_20161006T233503_B001  CS_OFFL_SIR_GOP_2_20161006T233503_B001  CS_OFFL_SIR_GOP_2_201	CS_OFFL_SIR_GOP_220161006T164732_20161006T165100_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_2_20161006T102634_20161006T102639_B001  Ice Range Averaging Status  records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220161006T182217_20161006T182757_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_2_2016100612006120062_5001  CS_OFFL_SIR_GOP_2_20161006T214346_20161006T214554_B001  CS_OFFL_SIR_GOP_2_20161006T214346_20161006T214554_B001  CS_OFFL_SIR_GOP_2_20161006T233304_20161006T233503_R001  Ice Range Averaging Status  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more  The Ice Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_GOP_220161006T182854_20161006T182959_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_Zz01610061214346_z01610061214534_B001	CS_OFFL_SIR_GOP_220161006T200142_20161006T200652_B001	Ice Range Averaging Status	records.
	CS_OFFL_SIR_GOP_220161006T214346_20161006T214554_B001	Ice Range Averaging Status	records.
	CS_OFFL_SIR_GOP_220161006T232304_20161006T232503_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_2_20161006T232623_20161006T233005_B001	CS_OFFL_SIR_GOP_220161006T232623_20161006T233005_B001	Ice Range Averaging Status	

## 5.7 L2 SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH Averaging Status flag (field 49) and an Ocean (field 55) and Ice (field 61) 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:

2:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20161006T001336_20161006T001555_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220161006T015125_20161006T015958_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161006T033035_20161006T033226_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161006T033321_20161006T033802_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161006T051240_20161006T051834_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220161006T065147_20161006T065705_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220161006T083033_20161006T083148_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161006T083156_20161006T083602_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161006T100536_20161006T101046_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161006T101106_20161006T101402_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161006T114439_20161006T114944_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161006T115004_20161006T115015_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161006T132937_20161006T133040_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220161006T150437_20161006T150811_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161006T150834_20161006T151150_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161006T164219_20161006T164725_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220161006T164732_20161006T165100_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161006T182217_20161006T182757_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161006T182854_20161006T182959_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161006T200142_20161006T200652_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220161006T214346_20161006T214554_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220161006T232304_20161006T232503_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220161006T232623_20161006T233005_B001	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 (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:

140