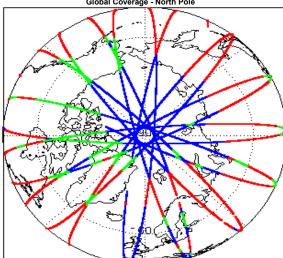
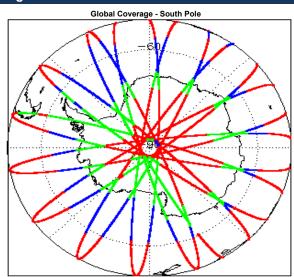


IDEAS+ Daily Report for OFFLINE data:

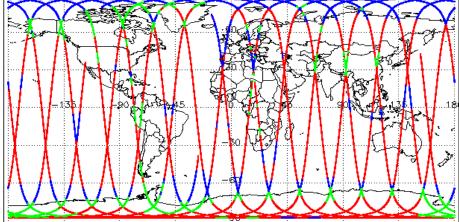
<u>28/08/2016</u>

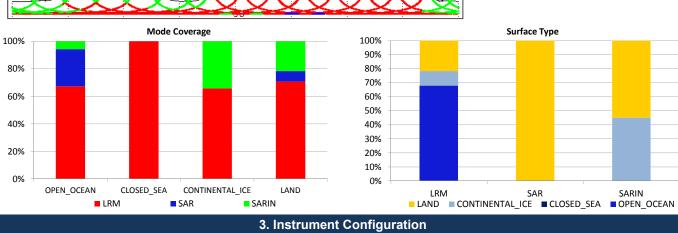
		1. Overview	
Report Production Date:	06-Oct-2016	Check	Status
Report Production Date.	00-001-2010	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used.		Product Software Check	Nominal
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal
Data Used:		Product Header Analysis	Nominal
		Star Tracker Usage Check	Nominal
L1B Calibration Usage Check Nominal			
L1B & L2 Auxiliary Data File Usage Check Nominal			
L1B & L2 Auxiliary Correction Error Check Nominal			
		L1B & L2 Measurement Confidence Data Check	See Section 4.7 and 5.5
Wission / Instrument News 27-Aug-2016 None 28-Aug-2016 None 29-Aug-2016 Nothing planned			
		2. Global Coverage	
Global Coverage - North Pole Global Coverage - South Pole			





Mode Coverage (%) LRM 20.1 SAR 12.2 SARIn 0.0





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

4. 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:

4.2 L1B Product Header Analysis

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

4.3 Star Tracker Usage Check

Each product is checked in order to ensure a valid star tracker file has been used in processing

Number of products with errors:

4.4 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing

Number of products with errors:

4.5 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 0

Number of products with errors:

4.6 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 54) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

4.7 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 18) for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 1B products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Block Degraded Flag: This flag is currently set for a number of individual records generally at the start or end of products (all modes), but this is to be expected.

Phase Perturbation Flag: This flag is currently set for all L1B SARIn products, indicating that the ADC correction application is deactivated, but this is in line with the current configuration. Number of products with errors: 3

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20160828T085006_20160828T085453_C001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20160828T174340_20160828T174831_C001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20160828T212012_20160828T213323_C001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

5. 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: 0

5.2 L2 Product Header Analysis

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

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

CryoSat L2 data includes a correction error flag (field 30) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.

Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.

Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.

SARIN X-Track Angle Error: This flag is set when the difference between the computed surface elevation and the DEM is >50 m. The DEM is only available over Greenland and Antarctica and as a result this flag is set for L2 SARIn products in all other locations as expected.

SSHA interpolation error: This flag is currently set for a number of SAR products occurring at surface type boundaries, but this is to be expected.

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220160828T001209_20160828T001402_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160828T002148_20160828T003632_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160828T003653_20160828T003821_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T004302_20160828T005724_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160828T011005_20160828T012708_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T012920_20160828T014338_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160828T020044_20160828T021525_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160828T021726_20160828T022647_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160828T025036_20160828T030446_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160828T031133_20160828T032431_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T032859_20160828T033716_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160828T034031_20160828T035608_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T035844_20160828T040358_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T042856_20160828T043708_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T043815_20160828T050421_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T051037_20160828T051542_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160828T052035_20160828T054353_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T055654_20160828T055725_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T061549_20160828T062701_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T065915_20160828T072623_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T073012_20160828T073708_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160828T074903_20160828T082121_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T090630_20160828T090643_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T091243_20160828T091616_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T092801_20160828T093711_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T093955_20160828T100113_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160828T101849_20160828T102936_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T103014_20160828T104252_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T110448_20160828T113953_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160828T115908_20160828T123048_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T124304_20160828T125749_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160828T130231_20160828T131924_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T133711_20160828T135038_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T135300_20160828T140947_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160828T143229_20160828T144251_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160828T144430_20160828T145811_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T151935_20160828T152755_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160828T153149_20160828T153637_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T154620_20160828T154844_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T161351_20160828T163625_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T165301_20160828T172031_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160828T174134_20160828T174216_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160828T175217_20160828T181608_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS OFFL SIR LRM 2 20160828T182455 20160828T182821 C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records

CS_	OFFL_SIR_LRM_22016082	8T184826_2	20160828T190455	_C001	F
cs_	OFFL_SIR_LRM_22016082	8T191757_2	20160828T192502	_C001	F E
cs_	OFFL_SIR_LRM_22016082	8T192814_2	20160828T194706	_C001	⊦ (
CS	OFFL_SIR_LRM_22016082	8T195932	20160828T200724	C001	(
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CS_	OFFL_SIR_LRM_22016082	81201311_	201608281204444	_C001	((F
CS_	OFFL_SIR_LRM_22016082	28T212012_2	20160828T213323	_C001	((
cs_	OFFL_SIR_LRM_22016082	8T215118_	20160828T221225	_C001	F
cs_	OFFL_SIR_LRM_22016082	8T221510_3	20160828T222645	_C001	F
cs_	OFFL_SIR_LRM_22016082	8T224600_2	20160828T224741	_C001	F
CS_	OFFL_SIR_LRM_22016082	28T224829_2	20160828T230122	_C001	F
cs_	OFFL_SIR_LRM_22016082	8T230205_2	20160828T231320	_C001	F (
cs_	OFFL_SIR_LRM_22016082	8T232048_	20160828T232316	_C001	
CS	OFFL_SIR_LRM_22016082	8T233050	20160829T000655	C001	⊦ (
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CS_	OFFL_SIR_SIN_220160828	3T083432_2	0160828T083550_	_C001	9
CS_	OFFL_SIR_SIN_220160828	3T100444_2	0160828T100804_	_C001	5
CS_	OFFL_SIR_SIN_220160828	3T101324_2	0160828T101447_	_C001	5
CS_	OFFL_SIR_SIN_220160828	3T114113_2	0160828T114316_	_C001	5
CS_	OFFL_SIR_SIN_220160828	3T115159_2	0160828T115327_	_C001	5
CS_	OFFL_SIR_SIN_220160828	3T123048_2	0160828T123111_	_C001	5
CS_	OFFL_SIR_SIN_220160828	3T123115_2	0160828T123152_	_C001	5
CS_	OFFL_SIR_SIN_220160828	3T123457_2	0160828T123545_	_C001	9
CS_	OFFL_SIR_SIN_220160828	3T132017_2	0160828T132154_	_C001	5
cs_	OFFL_SIR_SIN_220160828	3T132739_2	0160828T132743_	_C001	5
cs_	OFFL_SIR_SIN_220160828	3T132917_2	0160828T133121_	_C001	9
cs_	OFFL_SIR_SIN_220160828	3T141258_2	0160828T141514_	_C001	SIN
CS_	OFFL_SIR_SIN_220160828	3T142949_2	0160828T143229_	_C001	ŀ
CS_	OFFL_SIR_SIN_220160828	3T145930_2	0160828T150117_	_C001	9
cs_	OFFL_SIR_SIN_220160828	3T150636_2	0160828T150642_	_C001	5
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Height Error (Retracker 2), Backscatter Error (Retracker 2)
Height Error (Retracker 2), Backscatter Error (Retracker 2)
Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)
Surface Model Unavailable
Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)
Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)
Height Error (Retracker 2), Backscatter Error (Retracker 2)
Height Error (Retracker 2), Backscatter Error (Retracker 2)
Height Error (Retracker 2), Backscatter Error (Retracker 2)
Height Error (Retracker 2), Backscatter Error (Retracker 2)
Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)
Surface Model Unavailable
Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)
SARIn X-track Angle Error
SARIn X-track Angle Error, Surface Model Unavailable
SARIn X-track Angle Error
SARIn X-track Angle Error
SARIn X-track Angle Error
SARIn X-track Angle Error, Surface Model Unavailable
SARIn X-track Angle Error
SARIn X-track Angle Error, Surface Model Unavailable
Height Error (Retracker 1)
SARIn X-track Angle Error
SARIn X-track Angle Error

There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more
records There is a height and backscatter error for Retracker 2 and a height error
for Retracker 3 for one or more records
No DEM or Slope Model was used for the location of one or more records
There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
There is a height and backscatter error for Retracker 2 for one or more records
There is a height and backscatter error for Retracker 2 for one or more records
There is a height and backscatter error for Retracker 2 for one or more records
There is a height and backscatter error for Retracker 2 for one or more records
There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
No DEM or Slope Model was used for the location of one or more records
There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
An ambiguous angle was detected for SARIn mode for one or more records
An ambiguous angle was detected for SARIn mode for one or more records
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Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more
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An ambiguous angle was detected for SARIn mode and no DEM or Slope
Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more
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An ambiguous angle was detected for SARIn mode for one or more
records An ambiguous angle was detected for SARIn mode for one or more records
An ambiguous angle was detected for SARIn mode for one or more records
An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
There is a height error for Retracker 1 for one or more records
An ambiguous angle was detected for SARIn mode for one or more
records An ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_220160828T150758_20160828T151451_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160828T151612_20160828T151935_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220160828T155907_20160828T155925_C001	Height Error (Retracker 1)	There is a height error for Retracker 1 for one or more records
CS_OFFL_SIR_SIN_220160828T163835_20160828T164150_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160828T164535_20160828T164541_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160828T164550_20160828T164556_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160828T164846_20160828T165054_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160828T181759_20160828T181932_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160828T182448_20160828T182455_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160828T182821_20160828T182945_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160828T191646_20160828T191722_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220160828T195807_20160828T195932_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160828T200523_20160828T200525_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160828T200724_20160828T200837_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160828T210044_20160828T210208_C001	Height Error (Retracker 1)	There is a height error for Retracker 1 for one or more records
CS_OFFL_SIR_SIN_220160828T213736_20160828T213902_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160828T214414_20160828T214716_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160828T231744_20160828T232048_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160828T232316_20160828T232829_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records