

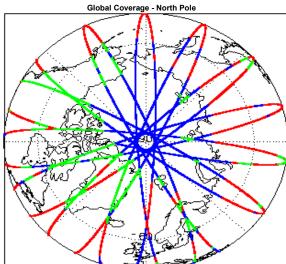
IDEAS+ Daily Report for OFFLINE data:

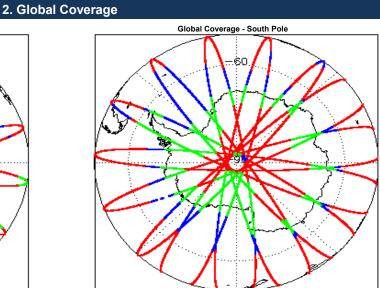
01/06/2016

1. Overview					
		Check	Status		
Report Production Date:	04-Jul-2016	Server check: science-pds.cryosat.esa.int	Nominal		
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal		
		Product Software Check	Nominal		
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal		
		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		

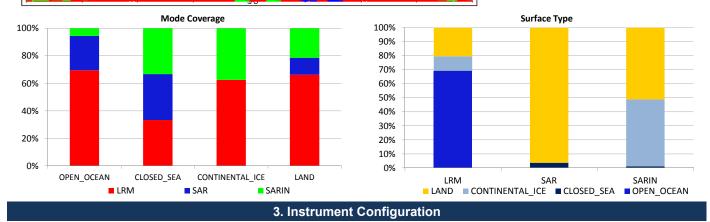
Mission / Instrument News		
31-May-2016	None	
01-Jun-2016	None	
02-Jun-2016	Jun-2016 SIRAL unavailability on 02-Jun-2016 from 10:15:44 to 13:41:57 due to a planned orbit manoeuvre.	







Mode Coverage (%)				
	LRM	19.6		
	SAR	12.5		
	SARIn	0.0		



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

SIRAL instrument(s) in use:

SIRAL - A

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

Number of products with errors.

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

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: 2

Product Test Failed Description CS_OFFL_SIR_LRM_1B_20160601T030321_20160601T030502_C001 Echo error, TRK echo error The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo CS_OFFL_SIR_LRM_1B_20160601T185842_20160601T191027_C001 Echo error, TRK echo error 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: 0

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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220160531T234256_20160601T000515_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_220160601T001644_20160601T002442_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160601T002831_20160601T010154_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_220160601T012741_20160601T012835_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_220160601T013711_20160601T015317_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_220160601T020803_20160601T022945_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_220160601T023230_20160601T024203_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_220160601T030532_20160601T031838_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_220160601T032026_20160601T033122_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_220160601T034733_20160601T042028_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error	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_220160601T043631_20160601T050808_C001	(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_220160601T051744_20160601T051939_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160601T052145_20160601T052443_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160601T052638_20160601T055507_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_220160601T061645_20160601T063246_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_220160601T065619_20160601T065857_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160601T070616_20160601T072030_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220160601T072210_20160601T072453_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter	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
CS_OFFL_SIR_LRM_220160601T075903_20160601T080453_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220160601T080736_20160601T083113_C001	Error (Retracker 2)	records
CS_OFFL_SIR_LRM_220160601T083409_20160601T084253_C001	Surface Model Unavailable Height Error (Retracker 2), Backscatter	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 for one or more
CS_OFFL_SIR_LRM_220160601T084533_20160601T091001_C001	Error (Retracker 2) Height Error (Retracker 2), Height Error	records
CS_OFFL_SIR_LRM_220160601T094213_20160601T101002_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter	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
CS_OFFL_SIR_LRM_2_20160601T102450_20160601T104942_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20160601T111740_20160601T113241_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20160601T113814_20160601T114912_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20160601T121208_20160601T122006_C001 CS_OFFL_SIR_LRM_2_20160601T123106_20160601T123204_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220160601T124034_20160601T124125_C001	Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	records 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 2 20160601T125415 20160601T130511 C001	(Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error
CS OFFL SIR LRM 2 20160601T130521 20160601T132755 C001	(Retracker 2) Height Error (Retracker 2), Backscatter	for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_201606011130521_201606011132755_C001 CS_OFFL_SIR_LRM_2_20160601T134618_20160601T140549_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20160601T141929_20160601T142014_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20160601T14301_20160601T144252_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220160601T144538_20160601T150700_C001	Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Patracker 2)	records 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_220160601T152230_20160601T154828_C001	(Retracker 2) 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_220160601T155134_20160601T155705_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_220160601T155738_20160601T155744_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_220160601T161428_20160601T163020_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_220160601T163023_20160601T164619_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_220160601T165401_20160601T165624_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160601T170446_20160601T171714_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_220160601T171807_20160601T173504_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_220160601T175648_20160601T180812_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_220160601T181015_20160601T182511_C001
CS_OFFL_SIR_LRM_220160601T184134_20160601T185400_C001
CS_OFFL_SIR_LRM_220160601T185842_20160601T191027_C001
CS_OFFL_SIR_LRM_220160601T194937_20160601T200422_C001
CS_OFFL_SIR_LRM_220160601T201231_20160601T201343_C001
CS_OFFL_SIR_LRM_220160601T201850_20160601T204126_C001
CS_OFFL_SIR_LRM_220160601T204129_20160601T204514_C001
CS_OFFL_SIR_LRM_220160601T211903_20160601T214325_C001
CS_OFFL_SIR_LRM_220160601T215129_20160601T215454_C001
CS_OFFL_SIR_LRM_220160601T215759_20160601T220955_C001
CS_OFFL_SIR_LRM_220160601T221456_20160601T222605_C001
CS_OFFL_SIR_LRM_220160601T225726_20160601T232341_C001
CS_OFFL_SIR_LRM_220160601T233027_20160601T233355_C001
CS_OFFL_SIR_LRM_220160601T233741_20160601T234836_C001
CS_0FFL_SIR_LRM_220160601T235410_20160602T001202_C001
CS_0FFL_SIR_SIN_2_20160601T001520_20160601T001644_C001
CS_OFFL_SIR_SIN_220160601T002442_20160601T002554_C001
CS OFFL SIR SIN 2 20160601T015451 20160601T015617 C001
CS_OFFL_SIR_SIN_220160601T020131_20160601T020434_C001
CS_OFFL_SIR_SIN_220160601T033448_20160601T033754_C001
CS_OFFL_SIR_SIN_220160601T034032_20160601T034537_C001
CS_OFFL_SIR_SIN_220160601T043139_20160601T043523_C001
CS_OFFL_SIR_SIN_220160601T051510_20160601T051744_C001
CS_OFFL_SIR_SIN_220160601T051939_20160601T052145_C001
CS_OFFL_SIR_SIN_220160601T052444_20160601T052605_C001
CS_OFFL_SIR_SIN_220160601T061022_20160601T061139_C001
CS_OFFL_SIR_SIN_220160601T061434_20160601T061645_C001
CS_OFFL_SIR_SIN_220160601T065008_20160601T065618_C001
CS_OFFL_SIR_SIN_220160601T065858_20160601T065916_C001
CS_OFFL_SIR_SIN_220160601T070344_20160601T070525_C001
CS_OFFL_SIR_SIN_220160601T074953_20160601T075205_C001
CS_OFFL_SIR_SIN_220160601T075258_20160601T075525_C001
CS_OFFL_SIR_SIN_220160601T083230_20160601T083409_C001
CS_OFFL_SIR_SIN_220160601T084254_20160601T084451_C001
CS_OFFL_SIR_SIN_220160601T101206_20160601T101337_C001
CS_OFFL_SIR_SIN_220160601T101512_20160601T101624_C001
CS_OFFL_SIR_SIN_220160601T102046_20160601T102322_C001
CS_OFFL_SIR_SIN_220160601T115148_20160601T115537_C001
CS_OFFL_SIR_SIN_220160601T120125_20160601T120247_C001
CS_OFFL_SIR_SIN_220160601T124231_20160601T124308_C001
CS_OFFL_SIR_SIN_220160601T133129_20160601T133443_C001
CS_OFFL_SIR_SIN_220160601T133956_20160601T134111_C001
CS_OFFL_SIR_SIN_220160601T150846_20160601T151306_C001
CS_OFFL_SIR_SIN_220160601T151900_20160601T152016_C001
CS_OFFL_SIR_SIN_220160601T155820_20160601T160100_C001
CS_OFFL_SIR_SIN_220160601T160114_20160601T160238_C001
CS_OFFL_SIR_SIN_220160601T165624_20160601T165810_C001
CS_OFFL_SIR_SIN_2_20160601T173512_20160601T173920_C001
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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), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable 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) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), 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, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error

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 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
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 for one or more records
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There is a height and backscatter error for Retracker 2 for one or more records
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There is a height and backscatter error for Retracker 2 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 for one or more records
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An ambiguous angle was detected for SARIn mode for one or more records
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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
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CS_OFFL_SIR_SIN_220160601T174042_20160601T174145_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160601T182601_20160601T182743_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160601T183310_20160601T183317_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160601T183437_20160601T183706_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160601T191835_20160601T192045_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_220160601T200454_20160601T200710_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160601T201209_20160601T201214_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160601T201344_20160601T201720_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160601T210415_20160601T210451_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_220160601T214457_20160601T214727_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160601T215106_20160601T215113_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160601T215123_20160601T215128_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160601T215455_20160601T215637_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160601T224438_20160601T224500_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_220160601T232359_20160601T232524_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records