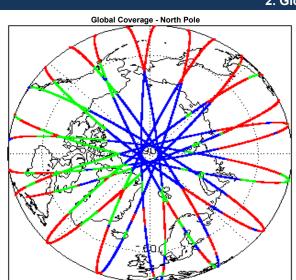
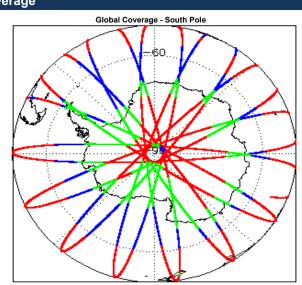


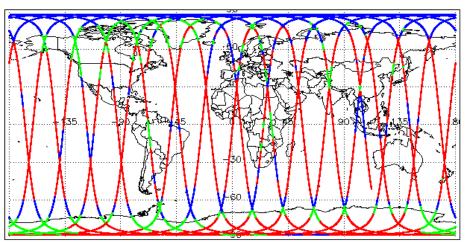
IDEAS+ Daily Report for OFFLINE data:

<u>28/10/2016</u>

1. Overview						
Report Production Date:	28-Nov-2016	Check	Status			
· · ·		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			
Data Oseu.		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						
27-Oct-2016 None						
28-Oct-2016 None						
29-Oct-2016 Nothing planned						
· · ·						
2. Global Coverage						



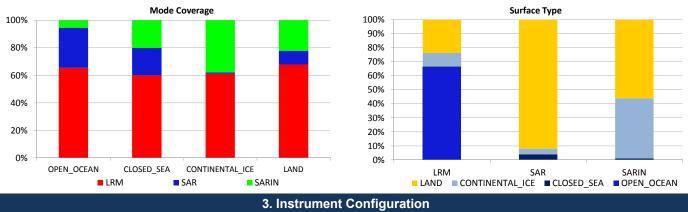




woue coverage (76)				
	LRM	21.7		
	SAR	12.7		
	SARIn	0.0		

ano (%)

Mode Co



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:

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: 1

Test Failed

Number of products with errors

Product

CS_OFFL_SIR_LRM_1B_20161028T091901_20161028T093556_C001

Echo error, TRK echo error

Description 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:

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. Number of products with errors: 0

5.3 L2 Auxiliary Data File Usage Check

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

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.

106

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 2 201610271235701 201610281001039 C001		There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220161028T004431_20161028T004446_C001	S	There is a height and backscatter error for Retracker 2 for one or more records

CS OFFL SIR LRM 2 20161028T004521 20161028T004743 C001 CS_OFFL_SIR_LRM_2__20161028T005740_20161028T012033_C001 CS OFFL SIR LRM 2 20161028T012419 20161028T013251 C001 CS OFFL SIR LRM 2 20161028T013632 20161028T020046 C001 CS_OFFL_SIR_LRM_2__20161028T023303_20161028T024428_C001 CS OFFL SIR LRM 2 20161028T024901 20161028T025943 C001 CS_OFFL_SIR_LRM_2__20161028T031601_20161028T034139_C001 CS OFFL SIR LRM 2 20161028T040711 20161028T042244 C001 CS OFFL SIR LRM 2 20161028T042814 20161028T043720 C001 CS_OFFL_SIR_LRM_2__20161028T053031_20161028T053215_C001 CS_OFFL_SIR_LRM_2__20161028T054432_20161028T061723_C001 CS_OFFL_SIR_LRM_2__20161028T063535_20161028T070017_C001 CS OFFL SIR LRM 2 20161028T070142 20161028T070152 C001 CS OFFL SIR LRM 2 20161028T072129 20161028T075150 C001 CS OFFL SIR LRM 2 20161028T075200 20161028T075642 C001 CS_OFFL_SIR_LRM_2__20161028T081430_20161028T084758_C001 CS OFFL SIR LRM 2 20161028T090202 20161028T091736 C001 CS OFFL SIR LRM 2 20161028T091901 20161028T093556 C001 CS OFFL SIR LRM 2 20161028T095456 20161028T100721 C001 CS OFFL SIR LRM 2 20161028T100851 20161028T102549 C001 CS_OFFL_SIR_LRM_2__20161028T104731_20161028T105819_C001 CS OFFL SIR LRM 2 20161028T110021 20161028T111442 C001 CS_OFFL_SIR_LRM_2__20161028T113124_20161028T113527_C001 CS_OFFL_SIR_LRM_2__20161028T114909_20161028T120145_C001 CS_OFFL_SIR_LRM_2__20161028T120307_20161028T120527_C001 CS_OFFL_SIR_LRM_2__20161028T123919_20161028T125325_C001 CS OFFL SIR LRM 2 20161028T130235 20161028T130354 C001 CS_OFFL_SIR_LRM_2__20161028T130948_20161028T133516_C001 CS OFFL SIR LRM 2 20161028T140832 20161028T143234 C001 CS OFFL SIR LRM 2 20161028T144134 20161028T144459 C001 CS OFFL SIR LRM 2 20161028T144836 20161028T145930 C001 CS_OFFL_SIR_LRM_2__20161028T150502_20161028T151456_C001 CS OFFL SIR LRM 2 20161028T154606 20161028T161200 C001 CS OFFL SIR LRM 2 20161028T162032 20161028T162402 C001 CS_OFFL_SIR_LRM_2__20161028T162919_20161028T163848_C001 CS OFFL SIR LRM 2 20161028T163922 20161028T170157 C001 CS OFFL SIR LRM 2 20161028T171337 20161028T171634 C001 CS_OFFL_SIR_LRM_2__20161028T172406_20161028T172502_C001 CS OFFL SIR LRM 2 20161028T172641 20161028T173454 C001 CS_OFFL_SIR_LRM_2__20161028T180820_20161028T182900_C001 CS_OFFL_SIR_LRM_2__20161028T183146_20161028T184311_C001 CS OFFL SIR LRM 2 20161028T190417 20161028T192914 C001 CS OFFL SIR LRM 2 20161028T193456 20161028T193953 C001 CS_OFFL_SIR_LRM_2__20161028T194654_20161028T201935_C001 CS OFFL SIR LRM 2 20161028T201938 20161028T202306 C001 CS_OFFL_SIR_LRM_2__20161028T204224_20161028T210729_C001

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), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Erro (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), 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), 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), 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), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable 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), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), 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 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 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 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 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 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 ecords 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 ecords 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 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 for one or more records There is a height and backscatter error for Retracker 2 for one or more ecords 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 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 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 ecords 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 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

CS_OFFL_SIR_LRM_2__20161028T212639_20161028T213315_C001 CS_OFFL_SIR_LRM_2__20161028T213319_20161028T214320_C001 CS_OFFL_SIR_LRM_2__20161028T214801_20161028T215555_C001 CS OFFL SIR LRM 2 20161028T215627 20161028T220059 C001 CS_OFFL_SIR_LRM_2__20161028T221601_20161028T223200_C001 CS_OFFL_SIR_LRM_2__20161028T223414_20161028T224904_C001 CS_OFFL_SIR_LRM_2__20161028T230543_20161028T231949_C001 CS_OFFL_SIR_LRM_2__20161028T232128_20161028T233541_C001 CS_OFFL_SIR_LRM_2__20161028T235518_20161029T000935_C001 CS OFFL SIR SIN 2 20161028T003949 20161028T004209 C001 CS_OFFL_SIR_SIN_2__20161028T012230_20161028T012419_C001 CS_OFFL_SIR_SIN_2__20161028T013251_20161028T013443_C001 CS_OFFL_SIR_SIN_2_20161028T021332_20161028T021351_C001 CS_OFFL_SIR_SIN_2__20161028T030209_20161028T030345_C001 CS_OFFL_SIR_SIN_2__20161028T030512_20161028T030632_C001 CS OFFL SIR SIN 2 20161028T031050 20161028T031339 C001 CS_OFFL_SIR_SIN_2__20161028T044155_20161028T044544_C001 CS_OFFL_SIR_SIN_2__20161028T045130_20161028T045246_C001 CS OFFL SIR SIN 2 20161028T053215 20161028T053308 C001 CS OFFL SIR SIN 2 20161028T062132 20161028T062448 C001 CS_OFFL_SIR_SIN_2__20161028T063001_20161028T063122_C001 CS_OFFL_SIR_SIN_2_20161028T071227_20161028T071309_C001 CS_OFFL_SIR_SIN_2__20161028T075848_20161028T080255_C001 CS OFFL SIR SIN 2 20161028T080909 20161028T081018 C001 CS_OFFL_SIR_SIN_2__20161028T084810_20161028T085029_C001 CS_OFFL_SIR_SIN_2__20161028T085121_20161028T085240_C001 CS OFFL SIR SIN 2 20161028T093655 20161028T093824 C001 CS_OFFL_SIR_SIN_2__20161028T094618_20161028T094803_C001 CS_OFFL_SIR_SIN_2__20161028T102549_20161028T102957_C001 CS OFFL SIR SIN 2 20161028T103029 20161028T103151 C001 CS_OFFL_SIR_SIN_2__20161028T111606_20161028T111750_C001 CS_OFFL_SIR_SIN_2__20161028T112315_20161028T112322_C001 CS OFFL SIR SIN 2 20161028T112440 20161028T112718 C001 CS OFFL SIR SIN 2 20161028T112858 20161028T113056 C001 CS_OFFL_SIR_SIN_2__20161028T120620_20161028T121044_C001 CS OFFL SIR SIN 2 20161028T125527 20161028T125726 C001 CS OFFL SIR SIN 2 20161028T130354 20161028T130718 C001 CS OFFL SIR SIN 2 20161028T143455 20161028T143720 C001 CS OFFL SIR SIN 2 20161028T144112 20161028T144118 C001 CS_OFFL_SIR_SIN_2__20161028T144459_20161028T144622_C001 CS OFFL SIR SIN 2 20161028T153451_20161028T153510_C001 CS_OFFL_SIR_SIN_2__20161028T161415_20161028T161539_C001 CS_OFFL_SIR_SIN_2__20161028T162402_20161028T162528_C001 CS_OFFL_SIR_SIN_2_20161028T175405_20161028T175530_C001 CS_OFFL_SIR_SIN_2__20161028T180055_20161028T180406_C001 CS_OFFL_SIR_SIN_2__20161028T185213_20161028T185241_C001 CS OFFL SIR SIN 2 20161028T193341 20161028T193456 C001 CS OFFL SIR SIN 2 20161028T193953 20161028T194317 C001 CS OFFL SIR SIN 2 20161028T203518 20161028T203600 C001

Height Error (Retracker 2), 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), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Erro (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Erro (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) 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 SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable 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 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 SARIn X-track Angle Error, Surface Model Unavailable

There is a height and backscatter error for Retracker 2 for one or more ecords 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 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 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 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 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 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 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 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 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 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 An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more record 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 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 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 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 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

CS_OFFL_SIR_SIN_220161028T211428_20161028T211705_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161028T211858_20161028T212525_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161028T220939_20161028T221100_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161028T221400_20161028T221601_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161028T224946_20161028T225556_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161028T225810_20161028T225852_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161028T230311_20161028T230447_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161028T234858_20161028T235001_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161028T235036_20161028T235119_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records