

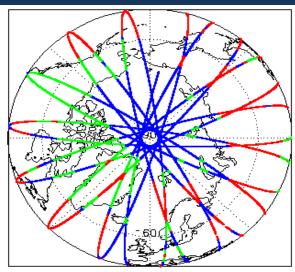
1. Overview

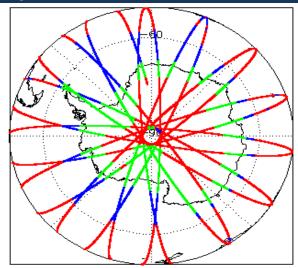
Report Production Date:	03-Jan-2020	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

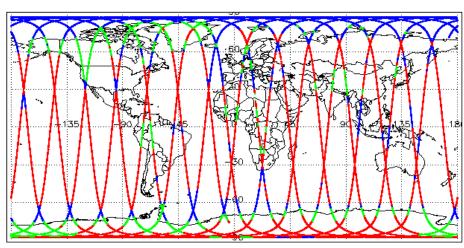
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File Usage Check	Nominal
L1B & L2 Auxiliary Correction Error Check	Nominal
L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5

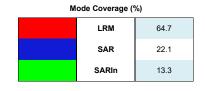
Mission / Instru	ument News
03-Dec-2019	None
04-Dec-2019	None
05-Dec-2019	Nothing planned

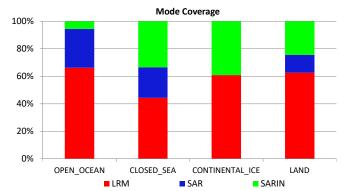
2. Global Coverage

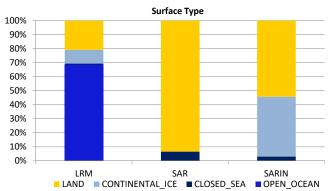












3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A
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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.

0

Number of products with errors: 0

4.4 L1B Tracking Flags Check

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

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

Number of products with errors: 102

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20191203T235548_20191204T000001_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T005106_20191204T005118_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T005121_20191204T005210_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T005213_20191204T005219_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T005555_20191204T005729_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T005732_20191204T011155_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T011526_20191204T012035_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T012116_20191204T012720_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T014549_20191204T015815_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T023000_20191204T023004_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T023007_20191204T023038_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T023042_20191204T023113_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T023120_20191204T023133_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T023138_20191204T023328_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T023332_20191204T023347_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T023443_20191204T023505_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T023508_20191204T023548_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20191204T023809 20191204T024914 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T032757_20191204T033224_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T033227_20191204T033303_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T033306_20191204T033416_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T034003_20191204T035240_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20191204T035404 20191204T035435 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T040839_20191204T041334_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T041417_20191204T041518_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T041521_20191204T041902_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T041905_20191204T041910_D001	Loss of echo	
		The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T041912_20191204T041928_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T041930_20191204T041938_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T041941_20191204T042015_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T042106_20191204T042220_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T045329_20191204T045446_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T045940_20191204T052604_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T052842_20191204T053400_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T053524_20191204T053612_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T054812_20191204T055414_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T055417_20191204T055500_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T055935_20191204T061958_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T062816_20191204T063206_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T072834_20191204T073646_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T073650_20191204T080338_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T081125_20191204T081455_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T091220_20191204T091313_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T091500_20191204T091559_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T091740_20191204T092601_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T092707_20191204T093043_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T093151_20191204T093526_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T094624_20191204T095148_D001	Loss of echo	The tracking echo is missing for one or more records

CS OFFE, SELVANI B. 20192167110012 (2019205) (1002) (box of whete The teaching paths in sensing for one or more more than 100, OFFE, BELLIAMS, B. 20192167110012 (1004) (box of whete The teaching paths in sensing for one or more more more than 100, OFFE, BELLIAMS, B. 20192167110012 (1004) (box of whete The teaching paths in sensing for one or more more more than 100, OFFE, BELLIAMS, B. 20192167110012 (1004) (box of whete The teaching paths in sensing for one or more more more than 100, OFFE, BELLIAMS, B. 201921012112012 (1004) (box of whete The teaching paths in sensing for one or more more more than 100, OFFE, BELLIAMS, B. 201921201212012 (1004) (box of whete The teaching paths in sensing for one or more more more than 100, OFFE, BELLIAMS, B. 201921201212012 (1004) (box of whete The teaching paths in sensing for one or more more more than 100, OFFE, BELLIAMS, B. 201921201212012 (1004) (box of whete The teaching paths in sensing for one or more more more more more than 100, OFFE, BELLIAMS, B. 201921201212012 (1004) (box of whete The teaching paths in sensing for one or more more more more more more more			
Sec. OPEL, SML, MM, 18, 20192841112692, 20192641112692, 20192661112692, 201926611	CS_OFFL_SIR_LRM_1B_20191204T105133_20191204T105231_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL. SR. LEM. 16. 2019/2017/11/2019, 2019/2017/12/2019. Doors of exho See Feb.	CS_OFFL_SIR_LRM_1B_20191204T105516_20191204T110044_D001	Loss of echo	The tracking echo is missing for one or more records
See OFF, SRI LEM 18, 2019/2017/20125, 2019/2017/20125, 0019 Use of white CS, OFFL, SRI LEM 18, 2019/2017/20125, 0019/2017/2015, 0019 Use of white CS, OFFL, SRI LEM 18, 2019/2017/2015, 0019/2017/2017/2017/2017/2017/2017/2017/2017	CS_OFFL_SIR_LRM_1B_20191204T112549_20191204T113046_D001	Loss of echo	The tracking echo is missing for one or more records
Les OFFE, SELLINE, 19, 2019/201712052 (2019/201712052) (2	CS_OFFL_SIR_LRM_1B_20191204T113719_20191204T121037_D001	Loss of echo	The tracking echo is missing for one or more records
Les OFF, SR. LEM. 18. 2019/10/17/15/25/2019/20/17/15/25/20/20/10/20/17/15/25/20/20/17/20/25/20/20/20/20/20/20/20/20/20/20/20/20/20/	CS_OFFL_SIR_LRM_1B_20191204T121243_20191204T121249_D001	Loss of echo	The tracking echo is missing for one or more records
Les OFFIL SIN LIMIT 18 2019121713205 20191221713205 DOIS OS. OFFIL SIN LIMIT 18 20191217131000, 20191221713205 DOIS OS. OFFIL SIN LIMIT 18 20191217131000, 20191221713205 DOIS OS. OFFIL SIN LIMIT 18 2019121713200, 20191221713218 DOIS OS. OFFIL SIN LIMIT 18 2019121713200, 20191221713218 DOIS OS. OFFIL SIN LIMIT 18 2019121713320, 20191221713515 DOIS OS. OFFIL SIN LIMIT 18 2019121713320, 20191221713515 DOIS OS. OFFIL SIN LIMIT 18 2019121713320, 20191221713515 DOIS OS. OFFIL SIN LIMIT 18 2019121713320, 20191221713520, DOIS OS. OFFIL SIN LIMIT 18 2019121713320, 201912217135310, DOIS OS. OFFIL SIN LIMIT 18 2019121713320, 201912217135207, DOIS OS. OFFIL SIN LIMIT 18 2019121713320, 201912217135207, DOIS OS. OFFIL SIN LIMIT 18 20191217132171217121712171217121712171217121	CS_OFFL_SIR_LRM_1B_20191204T121251_20191204T121256_D001	Loss of echo	The tracking echo is missing for one or more records
Section Sect	CS_OFFL_SIR_LRM_1B_20191204T121259_20191204T121321_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFF_SR_LRM_18_2019120113258_2019120113378_D010 Lose of exho The building acho is messing for one or more records CS_OFF_SR_LRM_18_2019120113258_D019120113378_D010 Lose of exho The building acho is messing for one or more records CS_OFF_SR_LRM_18_2019120113358_D01001 Lose of exho The building acho is messing for one or more records CS_OFF_SR_LRM_18_2019120113358_D01001 Lose of exho The building acho is messing for one or more records CS_OFF_SR_LRM_18_2019120113358_D0101 Lose of exho The building acho is messing for one or more records CS_OFF_SR_LRM_18_2019120113358_D0101 Lose of exho The building acho is messing for one or more records CS_OFF_SR_LRM_18_2019120113358_D0101 Lose of exho The building acho is messing for one or more records CS_OFF_SR_LRM_18_2019120113358_D0101 Lose of exho The building acho is messing for one or more records CS_OFF_SR_LRM_18_2019120113358_D0101 Lose of exho The building acho is messing for one or more records CS_OFF_SR_LRM_18_2019120113358_D0101001 Lose of exho The building acho is messing for one or more records CS_OFF_SR_LRM_18_2019120113358_D0101001113358_D0101 Lose of exho The building acho is messing for one or more records CS_OFF_SR_LRM_18_2019120113358_D0101001113358_D0101 Lose of exho The building acho is messing for one or more records CS_OFF_SR_LRM_18_2019120113358_D0101001113358_D0101 Lose of exho The building acho is messing for one or more records CS_OFF_SR_LRM_18_2019120113358_D01010101010101010101010101010101010101	CS_OFFL_SIR_LRM_1B_20191204T121325_20191204T121358_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL, SR, LPM, 16, 201912017133582, 201912017135510, 2010 CS OFFL, SR, LPM, 16, 20191201713510, 201912017135510, 2010 CS OFFL, SR, LPM, 16, 20191201713520, 201912017135205, 2010 CS OFFL, SR, LPM, 16, 20191201713520, 201912017135205, 2010 CS OFFL, SR, LPM, 16, 201912017135202, 201912017135205, 2010 CS OFFL, SR, LPM, 16, 201912017135205, 201912017135205, 2010 CS OFFL, SR, LPM, 16, 20191201713021, 201912017135205, 2010 CS OFFL, SR, LPM, 16, 20191201713021, 201912017135205, 2010 CS OFFL, SR, LPM, 16, 20191201714050, 2010 CS OFFL, SR, LPM, 16, 2019120171301120, 20100, 201150	CS_OFFL_SIR_LRM_1B_20191204T131658_20191204T132352_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFF_BR_LRW_18_20191204T13502_0191204T13515_D001 Loss of exhance CS_OFF_BR_LRW_18_20191204T13525_D001204T13515_D001 Loss of exhance The tracking exhance in missing for one or more records CS_OFF_BR_LRW_18_20191204T13525_D001204T13525_D001 Loss of exhance CS_OFF_BR_LRW_18_20191204T13525_D001204T13525_D001 Loss of exhance The tracking exhance T	CS_OFFL_SIR_LRM_1B_20191204T132355_20191204T133414_D001	Loss of echo	The tracking echo is missing for one or more records
CS. OFFL, SRI, LRW, 18, 201912041135151, D001 CS. OFFL, SRI, LRW, 18, 201912041135152, D01011413505, D01011413505	CS_OFFL_SIR_LRM_1B_20191204T133856_20191204T134738_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFF_SR_LRW_18_2019120F1153515_2019120F1153516_D011 Loss of exhan The tracking exhan inesing for one or more records CS_OFF_SR_LRW_18_2019120F1153512_2019120F1153518_D011 Loss of exhan The tracking exhan inesing for one or more records CS_OFF_SR_LRW_18_2019120F1153512_2019120F1153518_D011 Loss of exhan The tracking exhan inesing for one or more records CS_OFF_SR_LRW_18_2019120F1153516_2019120F1153518_D011 Loss of exhan The tracking exhan inesing for one or more records CS_OFF_SR_LRW_18_2019120F1153516_2019120F1153518_D011 Loss of exhan The tracking exhan inesing for one or more records CS_OFF_SR_LRW_18_2019120F1153516_2019120F1153518_D011 Loss of exhan The tracking exhan inesing for one or more records CS_OFF_SR_LRW_18_2019120F115351_2019120F1153518_D011 Loss of exhan The tracking exhan inesing for one or more records CS_OFF_SR_LRW_18_2019120F115351_2019120F1145951_D011 Loss of exhan The tracking exhan inesing for one or more records CS_OFF_SR_LRW_18_2019120F115322_2019120F145951_D011 Loss of exhan The tracking exhan inesing for one or more records CS_OFF_SR_LRW_18_2019120F115222_2019120F1459728_D011 Loss of exhan The tracking exhan inesing for one or more records CS_OFF_SR_LRW_18_2019120F115222_2019120F149728_D011 Loss of exhan The tracking exhan inesing for one or more records CS_OFF_SR_LRW_18_2019120F115222_2019120F149728_D011 Loss of exhan The tracking exhan inesing for one or more records CS_OFF_SR_LRW_18_2019120F115222_2019120F149728_D011 Loss of exhan The tracking exhan inesing for one or more records CS_OFF_SR_LRW_18_2019120F115251_D01120F140508_D011 Loss of exhan The tracking exhan inesing for one or more records CS_OFF_SR_LRW_18_2019120F115251_D01120F145084_D011 Loss of exhan The tracking exhan inesing for one or more records CS_OFF_SR_LRW_18_2019120F115097_D01120F145084_D011 Loss of exhan The tracking exhan inesing for one or more records CS_OFF_SR_LRW_18_2019120F115097_D01120F145084_D011 Loss of exhan The tracking exhan inesing for one or more records CS_OFF_SR_LRW_18_2019120F1750	CS_OFFL_SIR_LRM_1B_20191204T135020_20191204T135143_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SRL_RM_1B_20191204T153208_20191204T153318_D001 CS_OFFL_SRL_RM_1B_20191204T153312_20191204T153313_D001 CS_OFFL_SRL_RM_1B_20191204T133312_20191204T153313_D001 CS_OFFL_SRL_RM_1B_20191204T133312_20191204T153313_D001 CS_OFFL_SRL_RM_1B_20191204T133312_D0191204T153313_D001 CS_OFFL_SRL_RM_1B_20191204T133312_20191204T153313_D001 CS_OFFL_SRL_RM_1B_20191204T133301_20191204T153313_D001 CS_OFFL_SRL_RM_1B_20191204T145302_20191204T153313_D001 CS_OFFL_SRL_RM_1B_20191204T145302_20191204T145352_D001 CS_OFFL_SRL_RM_1B_20191204T145302_20191204T145303_D001 CS_OFFL_SRL_RM_1B_20191204T14500_20191204T15303_D001 CS_OFFL_SRL_RM_1B_20191204T14500_20191204T15303_D001 CS_OFFL_SRL_RM_1B_20191204T14500_20191204T150143_D001 CS_OFFL_SRL_RM_1B_20191204T14500_20191204T150143_D001 CS_OFFL_SRL_RM_1B_20191204T14500_20191204T150143_D001 CS_OFFL_SRL_RM_1B_20191204T14500_20191204T150143_D001 CS_OFFL_SRL_RM_1B_20191204T14500_20191204T150143_D001 CS_OFFL_SRL_RM_1B_20191204T150145_20191204T150143_D001 CS_OFFL_SRL_RM_1B_20191204T150145_20191204T150143_D001 CS_OFFL_SRL_RM_1B_20191204T150145_20191204T150143_D001 CS_OFFL_SRL_RM_1B_20191204T150145_20191204T150145_D001 CS_OFFL_SRL_RM_1B_20191204T150146_20191204T150145_D001 CS_OFFL_SRL_RM_1B_20191204T150146_20191204T150145_D001 CS_OFFL_SRL_RM_1B_20191204T150146_20191204T150145_D001 CS_OFFL_SRL_RM_1B_20191204T150146_20191204T160145_D001 CS_OFFL_SRL_RM_1B_20191204T160146_20191204T16030_D001 CS_OFFL_SRL_RM_1B_20191204T160145_20191204T16030_D001 CS_OFFL_SRL_RM_1B_20191204T170145_20191204T176015_D001 CS_OFFL_SRL_RM_1B_20191204T170145_20191204T176015_D001 CS_OFFL_SRL_RM_1B_20191204T170145_20191204T176015_D001 CS_OFFL_SRL_RM_1B_20191204T170145_20191204T176015_D001 CS_OFFL_SRL_RM_1B_20191204T170145_20191204T176015_D001 CS_OFFL_SRL_RM_1B_20191204T170145_20191204T176015_D001 CS_OFFL_SRL_RM_1B_20191204T170145_20191204T176015_D001 CS_OFFL_SRL_RM_1B_20191204T170145_20191204T176015_D001 CS_OFFL_SRL_RM_1B_20191204T176014_20191204T176015_D001 CS_OFFL_SRL_RM_1B_20191204T176014_20191204T176015_D001 CS_OFFL_SRL_RM_1B_2019	CS_OFFL_SIR_LRM_1B_20191204T135147_20191204T135151_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_BR_LRW_1B_20191204T15222_0191204T152525_0001 CS_OFFL_BR_LRW_1B_20191204T152522_0191204T15255_0001 CS_OFFL_BR_LRW_1B_20191204T152530_00191204T15251_0001 CS_OFFL_BR_LRW_1B_20191204T152530_00191204T15251_0001 CS_OFFL_BR_LRW_1B_20191204T152530_00191204T15251_0001 CS_OFFL_BR_LRW_1B_20191204T152530_00191204T15251_0001 CS_OFFL_BR_LRW_1B_20191204T152530_00191204T15251_0001 CS_OFFL_BR_LRW_1B_20191204T15204_00191204T15204_0001 CS_OFFL_BR_LRW_1B_20191204T15204_00191204T15205_0001 CS_OFFL_BR_LRW_1B_20191204T16004_00191204T15205_0001 CS_OFFL_BR_LRW_1B_20191204T16004_00191204T16204_0001 CS_OFFL_BR_LRW_1B_20191204T10004_00191204T16204_0001 CS_OFFL_BR_LRW_1B_20191204T10004_00191204T16204_0001 CS_OFFL_BR_LRW_1B_20191204T10004_00191204T16204_0001 CS_OFFL_BR_LRW_1B_20191204T10004_00191204T16204_0001 CS_OFFL_BR_LRW_1B_20191204T10004_00191204T16204_0001 CS_OFFL_BR_LRW_1B_20191204T10004_00191204T16204_0001 CS_OFFL_BR_LRW_1B_20191204T10004_00191204T16204_0001 CS_OFFL_BR_LRW_1B_20191204T16004_00191204T16204_0001 CS_OFFL_BR_LRW_1B_20191204T16004_00191204T16204_0001 CS_OFFL_BR_LRW_1B_20191204T170004_00191204T16204_0001 CS_OFFL_BR_LRW_1B_20191204T170004_00191204T16204_0001 CS_OFFL_BR_LRW_1B_20191204T170004_00191204T16204_0001 CS_OFFL_BR_LRW_1B_20191204T170004_00191204T16204T100001 CS_OFFL_BR_LRW_1B_20191204T170004_00191204T1720001 CS_OFFL_BR_LRW_1B_20191204T170004_00191	CS_OFFL_SIR_LRM_1B_20191204T135155_20191204T135205_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRM_18_201912AT135247_201912AT135258_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_201912AT135230_201912AT135351_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_201912AT135232_201912AT135357_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_201912AT145651_201912AT145955_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_201912AT145651_201912AT145955_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_201912AT145651_201912AT145953_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_201912AT145651_201912AT15273_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_201912AT15272_201912AT15273_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_201912AT15272_201912AT15273_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_201912AT15272_201912AT15273_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_201912AT15272_201912AT15273_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_201912AT15271_201912AT15273_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_201912AT15271_001912AT15273_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_201912AT152511_001912AT15271_001912	CS_OFFL_SIR_LRM_1B_20191204T135208_20191204T135228_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFF_SIR_LEM_18_20191204T153312_20191204T133313_0001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LEM_18_20191204T142510_20191204T143955_0001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LEM_18_20191204T142510_20191204T143955_0001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LEM_18_20191204T14455_00191204T143955_0001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LEM_18_20191204T14551_20191204T14090_00101 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LEM_18_20191204T151222_20191204T152752_0001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LEM_18_20191204T151222_20191204T152752_0001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LEM_18_20191204T15222_20191204T152758_0001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LEM_18_20191204T15222_20191204T150320_001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LEM_18_20191204T150320_20191204T160320_001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LEM_18_20191204T16030_20191204T160320_001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LEM_18_20191204T16030_20191204T160320_001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LEM_18_20191204T16030_20191204T160320_001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LEM_18_20191204T16030_20191204T16030_001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LEM_18_20191204T170330_20191204T170300_001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LEM_18_20191204T170330_20191204T170300_001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LEM_18_20191204T170330_20191204T170300_001 Loss of echo The tracking echo is missin	CS_OFFL_SIR_LRM_1B_20191204T135232_20191204T135243_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFF_SIR_LEM_18_20191204T153318_20191204T153318_0001 CS_OFF_SIR_LEM_18_20191204T153322_20191204T153322_0001 CS_OFF_SIR_LEM_18_20191204T144651_20191204T144905_0001 CS_OFF_SIR_LEM_18_20191204T144651_20191204T144000_0001 CS_OFF_SIR_LEM_18_20191204T154250_20191204T15205_0001 CS_OFF_SIR_LEM_18_20191204T154050_20191204T15205_0001 CS_OFF_SIR_LEM_18_20191204T15202_20191204T152730_0001 CS_OFF_SIR_LEM_18_20191204T15202_20191204T152730_0001 CS_OFF_SIR_LEM_18_20191204T15204_20191204T15204_0001 CS_OFF_SIR_LEM_18_20191204T15204_20191204T15204_0001 CS_OFF_SIR_LEM_18_20191204T15204_20191204T15204_0001 CS_OFF_SIR_LEM_18_20191204T15204T15204T1520001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LEM_18_20191204T15204_20191204T15204_0001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LEM_18_20191204T15204_20191204T15204_0001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LEM_18_20191204T15204_20191204T150000_0001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LEM_18_20191204T1500000_20191204T16001_0001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LEM_18_20191204T1600000_20191204T16001_0001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LEM_18_20191204T1600000_20191204T16001_0001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LEM_18_20191204T1700000_2001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LEM_18_20191204T1700000_2001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SIR_LEM_18_20191204T1700000000000000000000000000000000000	CS_OFFL_SIR_LRM_1B_20191204T135247_20191204T135258_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFF_SIR_LRM_18_20191204T19333_20191204T19352_D001	CS_OFFL_SIR_LRM_1B_20191204T135301_20191204T135313_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IR_20191204T142510_20191204T149035_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IR_20191204T144681_20191204T152725_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IR_20191204T152272_20191204T152735_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IR_20191204T152727_20191204T152738_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IR_20191204T152727_20191204T152738_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IR_20191204T15204T_D0014D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IR_20191204T155014_20191204T160054_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IR_20191204T160056_20191204T160054_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IR_20191204T160056_20191204T160054_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IR_20191204T160056_20191204T160054_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IR_20191204T160052_20191204T160040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IR_20191204T160017_20191204T160040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IR_20191204T170041_20191204T170040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IR_20191204T170041_20191204T170040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IR_20191204T170041_20191204T170040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IR_20191204T170041_20191204T170040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IR_20191204T17040_101904T170040_D001 Loss of echo The tracking echo is missing for one or	CS_OFFL_SIR_LRM_1B_20191204T135316_20191204T135318_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20191204T144501_20191204T150143_0001 CS_OFFL_SIR_LRM_18_20191204T145012_20191204T150143_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T15272_20191204T15278_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T15274_20191204T15278_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T15274_20191204T153030_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T150914_20191204T153030_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T150914_20191204T160054_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T160056_20191204T160054_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T160056_20191204T160014_0001 CS_OFFL_SIR_LRM_18_20191204T160076_20191204T160014_0001 CS_OFFL_SIR_LRM_18_20191204T160076_20191204T160014_0001 CS_OFFL_SIR_LRM_18_20191204T160076_20191204T160014_0001 CS_OFFL_SIR_LRM_18_20191204T170334_20191204T170008_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T170334_20191204T170008_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T170334_20191204T170080_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T170334_20191204T170080_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T170334_20191204T170332_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T170341_20191204T170322_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T17041_20191204T170322_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T170	CS_OFFL_SIR_LRM_1B_20191204T135323_20191204T135327_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20191204T151222_20191204T152735_2001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T152727_20191204T152738_2001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T15274_20191204T152745_2001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T15274_20191204T152344_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T150054_20191204T160054_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T160056_20191204T160054_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T160056_20191204T160100_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T160036_20191204T160300_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T16036_20191204T160360_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T17034_20191204T17009_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T170034_20191204T17009_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T170034_20191204T17009_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T170033_20191204T17000_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T17204_20191204T17302_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T17304_20191204T17302_001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T17304_20191204T173027_001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T17304_20191204T180001 Loss of echo The tracking	CS_OFFL_SIR_LRM_1B_20191204T142510_20191204T143955_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20191204T152722_20191204T152735_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T152741_20191204T152344_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T152848_20191204T153310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T152948_20191204T153310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T160058_20191204T160010001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T160058_20191204T162010_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T160058_20191204T162010_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T160054_20191204T162040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T176054_20191204T160050_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T170054_20191204T170000_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T17053_20191204T170000_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T17204_20191204T173228_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T17321_20191204T173228_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T173727_2001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T17373_20191204T180001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T17373_20191204T180001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20191204T180402_20191204T1204T12041001 Loss of echo The tr	CS_OFFL_SIR_LRM_1B_20191204T144651_20191204T144903_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T15272_20191204T15273B_0001 CS_OFFL_SIR_LRM_1B_20191204T15284B_20191204T15284B_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T15284B_20191204T16005B_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T15005B_20191204T16005B_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T16005B_20191204T16001D_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T16005B_20191204T160307_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T160307_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T160307_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T17034D_20191204T170400_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T170533_20191204T170400_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T170553_20191204T170400_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T170553_20191204T170500_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T170553_20191204T17322B_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T173729_20191204T17322B_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T173729_20191204T17322B_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T173729_20191204T1700001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T180002_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T1204T201425_00	CS_OFFL_SIR_LRM_1B_20191204T145601_20191204T151043_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T15272_20191204T15273B_0001 CS_OFFL_SIR_LRM_1B_20191204T15284B_20191204T15284B_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T15284B_20191204T16005B_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T15005B_20191204T16005B_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T16005B_20191204T16001D_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T16005B_20191204T160307_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T160307_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T160307_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T17034D_20191204T170400_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T170533_20191204T170400_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T170553_20191204T170400_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T170553_20191204T170500_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T170553_20191204T17322B_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T173729_20191204T17322B_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T173729_20191204T17322B_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T173729_20191204T1700001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T180002_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T1204T201425_00	CS OFFL SIR LRM 1B 20191204T151222 20191204T152725 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191204T152741_20191204T152844_D001 CS_OFFL_SIR_LRM_1B_20191204T155014_20191204T150054_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T150064_20191204T160204_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T160065_20191204T160210_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T160065_20191204T160210_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T160342_20191204T160340_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T170342_20191204T176094_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T170342_20191204T170409_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T170342_20191204T170550_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T170342_20191204T170550_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T170704_20191204T170352_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T170704_20191204T170322_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T170704_20191204T170322_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T170704_20191204T170322_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T17032_20191204T170322_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T17032_20191204T18007_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20191204T180402_0011204T18007_D001 Loss of echo The tracking echo is missing for one or more rec		Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20191204T160056_20191204T160210_D001			· ·
CS_OFFL_SIR_LRM_1B_20191204T162743_20191204T16307_D001			
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	CS_OFFL_SIR_LRM_1B_20191204T233412_20191204T233841_D001	Loss of echo	The tracking echo is missing for one or more records

4.5 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:

4.6 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:

4.7 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:

s: 0

4.8 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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20191204T034003_20191204T035240_D001	IECDO 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:

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:

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.

Number of products with errors: 52

Product	Test Failed	Description
CS_OFFL_SIR_LRM_2_20191204T000443_20191204T002940_D001	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_220191204T005555_20191204T005729_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface Model Unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220191204T005732_20191204T011155_D001	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_220191204T011526_20191204T012035_D001	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_20191204T012116_20191204T012720_D001	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_220191204T014549_20191204T015815_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface Model Unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220191204T015938_20191204T021631_D001	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_220191204T023809_20191204T024914_D001	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_220191204T025340_20191204T030616_D001	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_220191204T032222_20191204T032652_D001	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_220191204T034003_20191204T035240_D001	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_220191204T041417_20191204T041518_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220191204T041521_20191204T041902_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220191204T041912_20191204T041928_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records

CS_OFFL_SIR_LRM_220191204T041930_20191204T041938_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220191204T043027_20191204T044536_D001	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_20191204T045940_20191204T052604_D001	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_2_20191204T055935_20191204T061958_D001	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_220191204T062026_20191204T062446_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface Model Unavailable	There is a height and backscatter error for Retracker 2, a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220191204T063910_20191204T070551_D001	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_20191204T073650_20191204T080338_D001	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_2_20191204T081946_20191204T085255_D001	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_20191204T090528_20191204T090733_D001	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_20191204T095825_20191204T101955_D001	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_20191204T110354_20191204T112103_D001	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_220191204T113719_20191204T121037_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface Model Unavailable	There is a height and backscatter error for Retracker 2 , a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220191204T123433_20191204T125824_D001	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_20191204T131658_20191204T132352_D001	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_220191204T132355_20191204T133414_D001	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_220191204T133856_20191204T134738_D001	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_2_20191204T140700_20191204T142256_D001	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_220191204T142510_20191204T143955_D001	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_220191204T145601_20191204T151043_D001	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_220191204T151222_20191204T152725_D001	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_220191204T155014_20191204T160054_D001	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_2_20191204T160705_20191204T162124_D001	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_2_20191204T163543_20191204T165811_D001	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_20191204T170553_20191204T171200_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface Model Unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20191204T173415_20191204T173727_D001	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_20191204T173729_20191204T180022_D001	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_220191204T181454_20191204T181648_D001	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_20191204T181703_20191204T184007_D001	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_220191204T191257_20191204T193820_D001	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_220191204T195410_20191204T201425_D001	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_220191204T201428_20191204T202218_D001	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_220191204T202943_20191204T203148_D001	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_220191204T204444_20191204T211758_D001	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_220191204T222411_20191204T223301_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface Model Unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220191204T223546_20191204T225736_D001	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_220191204T231400_20191204T232419_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
	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_220191204T233412_20191204T233841_D001	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