Title:

Level 2 OCN products not containing the OWI (gridded wind field) and OSW (Swell) information.

Description:

Some Level 2 OCN products do not contain the expected information on SAR derived wind field (OWI fields in the NetCDF) and the expected information on SAR derived swell field (OSW fields in the NetCDF).

The corresponding variables are actually present in the NetCDF; however, they are all provided with default 1x1 size and populated with fill values.

The RVL (Radial Velocity) information is present in the product as expected.

Further description is provided at the end of this report.

Only a fraction of the products generated during the period are impacted. The complete list of impacted products is provided at the end of the report.

Degradation types:

- ☐ DEGRADED_PRODUCT_RADIOMETRY
- ☐ DEGRADED_RADIOMETRIC_CALIBRATION
- ☐ DEGRADED_ORBIT_CONTROL
- ☐ COMPLETE_PRODUCT_DEGRADATION
- ☐ DEGRADED_PHASE
- ☐ DEGRADED_PRODUCT_GEOLOCATION
- ☐ DEGRADED_PLATFORM_POINTING
- ☐ DEGRADED_PERFORMANCE_INSTRUMENT_ANOMALY
- ☐ SLICE_PRODUCT_NON_CONCATENABLE
- ☒ OTHER

Degradation percentage[1]:

66%

Impacted products:

Platform: ☐ S-1A ☒ S-1B

Acquisition mode: ☒ EW ☒ IW ☐ SM ☒ WV ☐ RF

Product type: ☐ RAW ☐ SLC ☐ GRD ☒ OCN

Resolution class: ☐ MR ☐ HR ☐ FR ☒ N/A

Polarization: ☒ SH (Single pol. H) ☒ SV (Single pol. V) ☒ DH (Double pol. H) ☐ DV (Double pol. V)

Processing facility: N/A

IPF version: 003.40

Instrument Configuration ID (RDB): 2

ADF files:

AUX_INS	N/A
AUX_CAL	N/A
AUX_PP1	N/A
AUX_PP2	N/A
AUX_SCS	N/A

Beginning of the issue:

Start acquisition date: 2021-12-12 T 23:15:29
Start generation date: 2021-12-13 T 12:00:00
Orbit: 29998
Datatake (hex): 0394D7

End of the issue:

☐ not yet defined ☒ available

[1] Percentage of degradation of the data in the product (100% means that the product should be masked in the product catalogue)

End acquisition date: 2021-12-14 T 11:57:20
End generation date: 2021-12-14 T 14:30:00
Orbit: 30021
Datatake (hex): 03959F

Cause:

Failure of the OWI and OSW sub process of the Level 2 processor.
Root cause under investigation.

Status:

Root cause under investigation.
Issue not observed after the period reported in this report.

References:

- **MPC ref:** MPCS-2620

Nominal versus degraded products

NetCDF Dimensions In degraded products (WV OCN)	NetCDF Dimensions In nominal products (WV OCN)
dimensions: rvlAzSize = 12 ; length = 26 ; rvlRaSize = 9 ; owiRaSize = 1 ; owiAzSize = 1 ; owiIncSize = 1 ; oswPartitions = 1 ; owiPolarisation = 1 ; oswRaSize = 1 ; oswAzSize = 1 ; oswWavenumberBinSize = 1 ; oswAngularBinSize = 1 ; oswKxBinSize = 1 ; oswKyBinSize = 1 ; oswLag = 1 ;	dimensions: oswRaSize = 1 ; oswAzSize = 1 ; oswWavenumberBinSize = 60 ; oswAngularBinSize = 72 ; oswPartitions = 5 ; oswKxBinSize = 128 ; oswKyBinSize = 185 ; oswLag = 3 ; rvlAzSize = 12 ; length = 26 ; rvlRaSize = 10 ; owiRaSize = 21 ; owiAzSize = 19 ; owiIncSize = 12 ; owiPolarisation = 1 ;

List of degraded products

S1B_IW_OCN__2SDV_20211212T231529_20211212T231558_029998_0394D7_052B
S1B_WV_OCN__2SSV_20211213T015149_20211213T020349_030000_0394E1_28FA
S1B_WV_OCN__2SSV_20211213T081445_20211213T082449_030004_039501_D948
S1B_WV_OCN__2SSV_20211213T140116_20211213T141415_030007_039523_803B
S1B_WV_OCN__2SSV_20211213T163303_20211213T165449_030009_039532_1E16
S1B_WV_OCN__2SSV_20211213T150159_20211213T152020_030008_039528_647C
S1B_WV_OCN__2SSV_20211213T135302_20211213T135912_030007_039520_3C28
S1B_WV_OCN__2SSV_20211213T144624_20211213T150022_030008_039526_D721
S1B_WV_OCN__2SSV_20211213T072530_20211213T074618_030003_0394FD_26FE
S1B_WV_OCN__2SSV_20211213T021938_20211213T025308_030000_0394E4_AA34
S1B_WV_OCN__2SSV_20211213T050754_20211213T052152_030002_0394F4_E297
S1B_WV_OCN__2SSV_20211213T035914_20211213T043145_030001_0394F0_5F49
S1B_WV_OCN__2SSV_20211213T033748_20211213T034327_030001_0394EC_9320
S1B_WV_OCN__2SSV_20211213T053431_20211213T053912_030002_0394F6_F2D3
S1B_WV_OCN__2SSV_20211213T000501_20211213T001928_029999_0394D9_716A
S1B_WV_OCN__2SSV_20211213T071241_20211213T072047_030003_0394FB_4D0E
S1B_WV_OCN__2SSV_20211213T033748_20211213T034327_030001_0394EC_03FB
S1B_IW_OCN__2SDV_20211213T175816_20211213T175849_030010_03953E_988E
S1B_IW_OCN__2SDV_20211213T182214_20211213T182243_030010_039541_C232
S1B_IW_OCN__2SDV_20211213T212410_20211213T212444_030012_039553_A1B1
S1B_IW_OCN__2SDV_20211213T213935_20211213T214004_030012_039555_ADCA
S1B_IW_OCN__2SSV_20211213T213117_20211213T213143_030012_039554_1DD1
S1B_IW_OCN__2SDV_20211213T144517_20211213T144542_030008_039525_0013
S1B_IW_OCN__2SDV_20211213T163107_20211213T163136_030009_039531_A74C
S1B_IW_OCN__2SDV_20211213T173649_20211213T173718_030010_039538_A52D
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