

Title:

S-1B L2 OCN products provide reverse OSW wind direction respect to the specification.

Description:

While the product specification stated that wind directions are stored in meteorological convention in the L2 OCN products (clockwise from-direction where the wind blows respect to North), the OSW wind direction variables `oswWindDirection` and `oswEcmwfWindDirection` were stored as clockwise toward-direction where the wind blows respect to North (reverse wind direction). It means that the variables present a bias of +/- 180 degrees respect to the specification.

This affects all SM/WV OCN products processed since the beginning of S1B-product delivery to users with IPF 2.72 to IPF 2.84 (included).

Degradation types:

- | | |
|---|--|
| <input type="checkbox"/> DEGRADED_PRODUCT_RADIOMETRY | <input type="checkbox"/> DEGRADED_PRODUCT_GEOLOCATION |
| <input type="checkbox"/> DEGRADED_RADIOMETRIC_CALIBRATION | <input type="checkbox"/> DEGRADED_PLATFORM_POINTING |
| <input type="checkbox"/> DEGRADED_ORBIT_CONTROL | <input type="checkbox"/> DEGRADED_PERFORMANCE_INSTRUMENT_ANOMALY |
| <input type="checkbox"/> COMPLETE_PRODUCT_DEGRADATION | <input type="checkbox"/> SLICE_PRODUCT_NON_CONCATENABLE |
| <input type="checkbox"/> DEGRADED_PHASE | <input checked="" type="checkbox"/> OTHER |

Degradation percentage¹:

1%

Impacted products:

- | | | | | | |
|-----------------------------|--|--|--|---|-----------------------------|
| Platform: | <input type="checkbox"/> S-1A | <input checked="" type="checkbox"/> S-1B | | | |
| Acquisition mode: | <input type="checkbox"/> EW | <input type="checkbox"/> IW | <input checked="" type="checkbox"/> SM | <input checked="" type="checkbox"/> WV | <input type="checkbox"/> RF |
| Product type: | <input type="checkbox"/> RAW | <input type="checkbox"/> SLC | <input type="checkbox"/> GRD | <input checked="" type="checkbox"/> OCN | |
| Resolution class: | <input type="checkbox"/> MR | <input type="checkbox"/> HR | <input type="checkbox"/> FR | <input checked="" type="checkbox"/> N/A | |
| Polarization: | <input checked="" type="checkbox"/> SH (Single pol. H) | <input checked="" type="checkbox"/> SV (Single pol. V) | <input checked="" type="checkbox"/> DV (Double pol. V) | | |
| | <input checked="" type="checkbox"/> DH (Double pol. H) | | | | |
| Processing facility: | <input checked="" type="checkbox"/> PAC1 / UPA | <input checked="" type="checkbox"/> PAC2 / DPA | <input checked="" type="checkbox"/> CGS2 / Svalbard | <input checked="" type="checkbox"/> CGS3 / Maspalomas | |
| | <input checked="" type="checkbox"/> CGS1 / Matera | | | | |

IPF version: IPF2.72, IPF2.81, IPF2.82, IPF2.84

Instrument Configuration ID (RDB): N/A

ADF files:

<code>AUX_INS</code>	N/A
<code>AUX_CAL</code>	N/A
<code>AUX_PP1</code>	N/A
<code>AUX_PP2</code>	N/A
<code>AUX_SCS</code>	N/A

Beginning of the issue:

Start acquisition date: 2016/09/26 00:00
 Start generation date: 2016/09/26 00:00
 Orbit: N/A
 Datatake (hex): 003C10

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)

Cause:

While the Product specification states that wind directions are stored in meteorological convention in the L2 OCN products (clockwise from-direction where the wind blows respect to North), the OSW wind direction variables `oswWindDirection` and `oswEcmwfWindDirection` were stored as clockwise towards-direction where the wind blows respect to North.

Status:

The issue is corrected with IPF 2.90 and later.

References:

- **MPC ref:** MPCS-1681, MPCS-1635, IPF-342
- **PDGS ref:** N/A
- **ARTS ref:** N/A