# GOES-18/19 Beta Certification Form

Satellite: ☑ GOES-18 ☐ GOES-19 Date: 05/11/2022

Algorithm:

☑ ABI L1b/CMI ☐ GLM ☐ MAG
☐ SUVI ☐ EXIS XRS ☐ EXIS EUVS
☐ SEISS SGPS ☐ SEISS EHIS ☐ SEISS MPS-HI
☐ SEISS MPS-LO ☐ Other:

Comments:

GOES-18 ABI L1b data has been flowing for several weeks as the Post Launch Tests continue. Overall, the data quality is very good following a Best Detector Select (BDS) upload on 5 May. The ABI Calibration Working Group is still working on a comprehensive assessment of the calibration, but early indications are that all bands will easily meet spec. A bias correction may ultimately be needed for band 2, following a similar correction on both GOES-16 and -17 ABI. Some minor striping is still evident in the Visible and Near IR bands, but following drift, updates to the quadratic coefficients will likely remove the most significant remaining striping. The remaining issue with probably the largest impact on downstream users is a 10-12 km navigation (NAV) offset in the Longwave IR (LWIR) bands (12-16). The result is that the map outlines do not line up with the data, and any downstream product that involves a difference between an LWIR bands and any of band 1-11 will result in data artifacts that are due exclusively to that NAV shift. A fix to the navigation is in the works, with the correction implementation likely occurring a week or two following drift in early June.

Cloud and Moisture Imagery (CMI) is being created and its data quality matches that of the L1b data.

Overall, the GOES-18 ABI L1b/CMI data easily meets the Beta definition, "The product has been minimally validated and may still contain significant errors and is not optimized for operational use."

☑ Approved

| Program Scientist | Signature | Date |
|---|---|---|
| Dan Lindsey | LINDSEY.DANIEL.THOMAS.1365850255 Digitally signed by LINDSEY.DANIEL.THOMAS.1365850255 Date: 2022.05.11 07:23:11 -06'00' | 05/11/2022 |

☐ Not Approved *If not approved, a list of actions necessary to attain approval must be included in the 'Comments' box above.*

| Program Scientist | Signature | Date |
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