GOES-18/19 Beta Certification Form

Satellite: ☐ GOES-18 ☑ GOES-19 Date: 10/23/2024

Algorithm:

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

Comments:

All instruments comprising the GOES-19 Space Environment In-Situ Suite (SEISS) are producing data that has reached Beta maturity. Beta maturity is defined as "The product has been minimally validated and may still contain significant errors and is not optimized for operational use."

MPS-HI: The MPS-HI initial electron flux data matches well with GOES-16 MPS-HI. Similarly the proton flux data match closely with GOES-16. The instrument is operating nominally.

MPS-LO: An initial qualitative comparison between MPS-LO data from GOES-16 and GOES-19 show that electron and ion data from 15 channels, 14 zones, and 2 background zones compare favorably.

SGPS: The GOES-19 SGPS +X and -X post-launch IFCs are in family with pre-launch testing, and the electronics are functioning as expected. Comparisons with the GOES-16 SGPS data compares fairly well; GOES-19 +X P9 appears too high, but that will be investigated more fully before Provisional.

EHIS: The GOES-19 post-launch EHIS hot and cold IFCs are in family with pre-launch testing, the electronics are functioning as expected, and the IFC table well is optimized for the on-orbit thermal profile. The preliminary EHIS data compare generally pretty well between GOES-19 and GOES-16; some biases and differences will be investigated prior to Provisional.

The SEISS science team at NCEI is in agreement with the Beta designation.

☑ Approved

Program Scientist	Signature	Date
Dan Lindsey	LINDSEY.DANIEL.THOMAS.1365850255 Digitally signed by LINDSEY.DANIEL.THOMAS.1365850255 Date: 2024.10.23 10:44:18 -04'00'	

☐ 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