GOES-R PS-PVR Chair Disposition Form

Product Validation Level

- [ ] Beta
- [x] Provisional
- [ ] Full Validation

Date: 06/01/2017

Algorithm

- [x] ABI L1b/CMI
- [ ] EXIS L1b
- [ ] GLM L2
- [ ] MAG L1b
- [ ] SEISS L1b
- [ ] SUVI L1b

1. Review Board Comments

Congratulations to all! The PS-PVR is declaring Provisional Maturity for ABI L1b Radiances, ABI L2 CMI, and ABI SCMI. Brian Gockel at NWS notes forecasters are wildly enthusiastic and grateful for this improvement to observations to benefit their forecasts.

L1b Radiances - Fred Wu

PS-PVR is declaring Provisional Maturity for ABI L1b Radiances. Congratulations to the AWG principal, Fred Wu!

Compliments to Fred Wu for his thoughtful and comprehensive analysis and presentation. Excellent start with the README file. Good initiative.

Status: IR calibration is excellent. It is far better than performance baseline requirement and very stable. IR calibration is precise, accurate, and stable (though not yet long term). VNIR calibration is precise, accurate, and becoming but not yet stable. Channel 2 may have a hard bias (7% higher than pre-launch) that requires further work. INR performance is good for VIS, but not as good for IR. The Kalman Filter works, but needs tuning. Periods of time (~2 days at any one time) without interrupting PLTs /PLPTs (e.g. North/South scans) were few, so the KF was persistently reset. Channel-to-channel INR is acceptable, but not stable. During the few 2-day periods, the issues observed appear to be attributable to known issues with scheduled fix implementations per build process. Evidence does suggest that KF does its job well. A number of radiometric

Approval Status

- [x] Approved
- [ ] Conditionally Approved

2. If conditionally approved, list actions required to become approved.

	PS-PVR Chair	Signature	Date
Conditionally Approved			
Approved	Matthew Seybold	SEYBOLD.MATTHEW.G.1078301500 Digitally signed by SEYBOLD.MATTHEW.G.1078301500 DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=OTHER, cn=SEYBOLD.MATTHEW.G.1078301500 Date: 2017.06.01 17:37:00 -04'00'	06/01/2017

3. Other Notes

ABI L2 CMI & SCMI - Tim Schmit and Mat Gunshor

PS-PVR is declaring Provisional Maturity for ABI L2 CMI & SCMI. Congratulations to the AWG principals for CMI, Tim Schmit and Mat Gunshor!

Very thorough analysis of imagery quality and issues are well captured. The level of expertise and effort applied to interrogating the imagery is extremely high. The team's attention to detail is comprehensive and precise. From NWS perspective (Mike Johnson), out of all the identified issues, moving to fixed grid is the top priority. Drop-outs, striping, and stray light are lesser priorities. Regarding striping, this issue is a relatively low impact but is largely unresolved at present. In order to ensure systematic investigation and resolution of all imagery issues, the striping investigation will come at a later time. Off-line PLEIADES analysis shows far fewer instances of striping, which indicates resolution of the striping should be mostly possible via changes to the GS. 15 minute cal anomaly (PICA) was well described. Excellent thoughts and suggestions regarding improvements to DQF (Data Quality Flags) to make the data files more straight forward for user purposes.

ACTION: Tim and Mat to work with PRO to create a README with prioritized issues and target dates for operational implementation of fixes on GS.