

On January 1, 2014, the CWG released Version 2 to the GOES-R ABI spectral response functions (SRFs). This supersedes the previous release (Version 1 - 09/07/2011). Version 2 is a result of filter changes for some channels, and extensive efforts in pre-launch testing and verification of vendor measurements. Further revisions are not expected although possible

Version 2 updates:

- SRFs for 12 of 16 channels were revised: channels 4 (1.38  $\mu\text{m}$ ), and 6 (2.25  $\mu\text{m}$ ) **through** 16 (13.30  $\mu\text{m}$ ):
  - Version 2 incorporates updated spectral transmittance values of the bandpass filters for channels 6 (2.25  $\mu\text{m}$ ) through 16 (13.30  $\mu\text{m}$ ).
- Version 2 incorporates modifications for channels 4 (1.38  $\mu\text{m}$ ) and 6 (2.25  $\mu\text{m}$ ) based on bandpass filter measurements that were performed at the National Institute of Standards and Technology.

The SRFs are available in the following formats:

1. One text file containing all sixteen SRFs.

Data format:

- i. The first line before each channel gives the channel number and the corresponding number of rows (data points).
  - ii. Column 1 - wavelength [ $\mu\text{m}$ ]  
Column 2 - wavenumber [ $\text{cm}^{-1}$ ]  
Column 3 - relative response
2. A compressed file GOES-R\_ABI\_SRFs\_v2.zip containing the SRFs by channel in sixteen individual text files, GOES-R\_ABI\_SRF\_v2\_chX.txt, where X denotes the channel number.

Data format:

Column 1 - wavelength [ $\mu\text{m}$ ]  
Column 2 - wavenumber [ $\text{cm}^{-1}$ ]  
Column 3 - relative response

For more information, contact:

Changyong Cao ([changyong.cao@noaa.gov](mailto:changyong.cao@noaa.gov))

NOAA/NESDIS/STAR

GOES-R Calibration Working Group