



# GSICS Data In Support of DCC Activities

[Aleksandar.Jelenak@noaa.gov](mailto:Aleksandar.Jelenak@noaa.gov)

# Instrument SRF Data

- GSICS Coordination Center has a web page with links to SRF data for member agency's instruments: <http://www.star.nesdis.noaa.gov/smcd/GCC/instrInfo-srf.php>
- Links point to single or multiple text files, sometimes bundled in compressed files, or to Excel files; sometimes IR channel data expressed in wavenumbers; often the data is given per detector although they typically cannot be distinguished in Level 1 data
- Until now no attempt was made to standardize on the format of SRF data in GSICS activities

# SRF Data for DCC Activities

- GPRCs asked to provide the *official best* SRF data for the specific geostationary imager instruments
- Out of many formats one: netCDF-4 (HDF5 in disguise)
- Content:
  - SRF data for all channels given in wavelength domain only (wavenumbers converted to wavelengths)
  - All SRF values (even negative) accepted; no post processing, no truncating of sample points
- Error in converting wavelengths back to original wavenumbers estimated to be less than  $2 \cdot 10^{-12} \text{ cm}^{-1}$  in the range 1 to 30  $\mu\text{m}$

# SRF Data for DCC Activities (cont)

- Because of varying number of sample points for different channels, wavelength and SRF data stored as incomplete two-dimensional arrays:

w1(1), ch1	w2(1), ch2	w3(1), ch3	w4(1), ch4
w1(2), ch1	w2(2), ch2	w3(2), ch3	w4(2), ch4
	w2(3), ch2	w3(3), ch3	w4(3), ch4
	w2(4), ch2		w4(4), ch4
			w4(5), ch4
			w4(6), ch4

# Location of DCC Data

- All the data produced for the DCC activities will be considered *intermediate* data
- On GSICS data servers
- The SRF data is available now from:

<http://gsics.nesdis.noaa.gov/thredds/instrument-srf.html>