

SIST Meeting – Discussion Notes

13 July 2016

Create and promote specific data products?

- NASA does not have authority to formally approve any specific product.
- Documenting development of any products from SIST is important.
- NOAA is tacitly endorsing NRLTSI2 and NRLSSI2 products through their implementation as a climate data record (CDR) data set.
- Since users may have different interests, probably better to make product available at finest practical resolution (spectral, temporal), and also provide suggested tool to create rebinned product if desired. Any such tool also needs to consider proper energy distribution in bins, choice of desired units [*e.g.* photons vs. watts].

Interaction with new ISSI team for model SSI development?

- “Consensus” approach to achieving final data product can be difficult to achieve, and may require compromises compared to selecting single ‘best’ data set.
- As example, CMIP6 program is using average of NRLSSI2 and SATIRE-S data sets for SSI forcing, even though integral of this product (to create TSI) then differs from separate TSI product.

Product distribution

- Some proposed SIST member data products (*e.g.* composite Lyman alpha, composite Mg II) represent key elements for development of other products.
- Early distribution of “beta” version for group evaluation was suggested and supported.
- Limitations of any preliminary version (*e.g.* incomplete data) should be noted and understood by those evaluating such products.

Thoughts towards future (NASA)

- Valuable for creators of solar data products to consider climate community as well as heliophysics community.
- Continuation of SIST efforts would lead to follow-on solicitation in ROSES 2017 call (initial announcement in February 2017). No official commitment from NASA at this time.
- NASA is committed to flying climate sensors (TSIS, CERES follow-on), so corresponding research activity is likely. However, since \$50M received in 2015 for climate sensors may not be repeated in 2017-2018, providing necessary support through other means may affect availability of research funding during that period.

Public outreach (meetings, journal issue)

- Fall AGU meeting has a session titled “Solar and heliospheric forcings and their effects on climate” (SA018). Abstract deadline is August 3.
- Collecting multiple papers describing SIST products within special issue of single journal was suggested and well-received.
- Good opportunity to provide visibility for program and data products

- Proposed time frame is to begin overall process (writing, submitting, reviewing) towards end of SIST Year 2 (i.e. spring 2017).
- AGU journal *Earth and Space Science* suggested as appropriate multi-disciplinary place for such papers. Matt will take action to contact journal editor to propose special and determine interest.

Next group meeting

- Next Sun-Climate meeting will not be happening in Jackson Hole in August 2017. New location and date TBD.
- Suggestion was made to have next SIST meeting focus on evaluation of “beta” data products as described above. 1-day (1.5?) workshop in conjunction with Sun-Climate meeting would probably simplify logistics for many people.
- Matt will work with Sun-Climate organizing committee to determine how this process for SIST members might take place within framework of main meeting.