

J.A.Hourclé, 27 Feb 2014

About the SDAC

- NASA "Final Archive" for solar data
- "Mission Archive" for SMM, SOHO,
 STEREO & TRACE
- Supports Yohkoh, RHESSI, Hinode, SDO
- Funding is justified by the number of papers published using the data.
 - For the SDAC, and for current missions

Types of Solar Data (highly simplified)

- Synoptic: same observing mode repeated over and over again
- Campaign: special observing plans
- Darks & Test: used to calibration
- in situ: non-image, one file per day
- "Higher level products": catalogs

Current Citation Practice:

- Standard acknowledgement strings
 - Which may only identify the mission
- Cite the 'first results' paper
 - Do you care about that science, or the data?
- Cite the 'instrument' paper from SPIE
 - Do you care about the design, or the data?

Problem: Identity

- Many people don't care about the campaign
 - They care what instrument it was from, and the observing mode (if there's more than one)
- Instruments vary their observing mode
 - Some alternate between two modes
 - Not all modes have official names
 - High cadence campaigns overlap synoptic

Current Plans, Step 1:

Identify what we have

- Determine functionally useful groupings
 - eg, 'SDO/AIA 171Å', 'Hinode/SOT/SP4D'
- Assign identifiers to those groupings
- Document the groupings
 - DataCite, VSO & SPASE

#2:

- · 12010-Standards-for
 - '2010-05-2810 BETS coordinated time'
- 'sampled at 30 min'
- '200 arcsec patch centered on AR10943'
 - '... at 400 xSun,-600 ySun'; '... at 45W60N'
- 'non AEC', 'polarized', 'white light',
 'SP4D'

Current Plans, Step #3:

- Outreach Stante of Citation
 - As documentation of the science
 - For continued mission & archive funding
- Tools to make citation easy
 - Don't put unnecessary burden on the scientists
- Goal is more & better science

