Metadata definitions for observations and simulations

Recap - why metadata?

- Two main purposes:
 - Provide searchability in archives
 - Ensure usability for all users
- Why standards?
 - "Checklist" to get a rich set of metadata
 - Makes a generic set of SVO search terms possible
 - Makes generic analysis/visualization software possible (e.g., CRISPEX)

Recap - why metadata?

- What's in it for you?
 - You want other people to use the data!
 - Show that your data is sought after = \$\$\$ in the future
 - If you're the only one interested in your data.....
 - (And you're supposed to do it)

What has been done?

- The Metadata documents themselves:
 - Not a large amount of changes good!
 - Relaxation of "mandatoriness" good!
 - Some clarifications
 - Some additions/extensions of "mechanisms"
- But a lot of work "in the background"
 - "How to do this in FITS" (advanced WCS and/or other mechanisms)
 - SSTRED CHROMIS/CRISP pipeline (Mats Löfdahl)
 - SPICE pipeline (in-house)
 - Others too, but very little, very few maybe a good sign?
 - Some resulting advanced mechanisms not yet spelled out in the document

What has been done?

- Now available on ArXiv (thus referenceable)
- "Live" version (http://sdc.uio.no/open/solarnet/)
- No changelog: Use latest version, do a "compare documents" from your previous version
- Any breaking changes will be announced (tell us if you're not already on the list – i.e., if you have not received emails from me about the document)

What has *not* been done?

- Simulation metadata very little!
 - Should have had a zoom meeting, forum, email discussion or something!
 - Simulated observations, though... are like observations!
 - I.e., simulated observations benefit from all work done on the observations metadata document (in particular mechanisms to describe advanced properties of the data set – variations over time & space)
 - Simulations also benefit (advanced WCS coordinates, mechanisms)
- Prioritized observation pipelines more urgent with data streams that may not be possible to store and/or reprocess!
 - Lack of urgency for simulations seems to be confirmed by earlier discussion
 - Simulations can always be improved people focus on that?

What we need

- Ask us
 - Do you have (absolutely) *any* piece of metadata that may be relevant to searchability or usability, and you can't find out how to do it ask!
 - Complex WCS descriptions? Ask us to verify you've done it right!
- Tell us if you're implementing the recommendations
 - Important for getting recommendations/mechanisms "recognized"
- Some help?
 - Stopped updating of the index/cross-reference tables
 - A lot of work... not high priority, but should be done for completeness sake
 - Alternatively: Drop them use Cmd-/Ctrl-F in document...?

Current list of "users"

- Solar Orbiter SPICE
- SST CHROMIS/CRISP (SSTRED)
- AISAS/Lomnicky Stit COMP-S/SCD
- SAMNET
- Gregor HiFI/GFPI
- ROB USET
- Alma pipeline for Solar data (SOAP)