

Meeting with Carroll Hood regarding augmentation issue

December 17, 2010

Attendees: Carroll Hood (GEOSS Chief Architect, Raytheon). The HDF Group: Elena, Larry, Albert, Mike

Introductory remarks by Carroll

JPSS needs to be compliant with NOAA requirement on netCDF-4: Any program funded will use netCDF-4 with CF conventions.

JPSS should comply with NOAA admin order 212-15: management of environmental and geospatial info, from 2 dec 2008. Section 3 is the policy part. 3.01 says NOAA environmental geospatial data... administrative order a-16 and a-130 required use of FGDC metadata, which is not part of iso-19115.

So they are doing a trade study on how to implement these requirements. Call is for best effort, so not an absolute requirement.

DOD doesn't care. Only NESDIS interested. But custom build for NESDIS increases operations cost.

If CLASS has it as a standalone service, would that be OK? So the trade space is do we change the code in IDPS DMS subsystem and add library calls to make it such that HDF5 files could be accessed, or do it at some post processing stage.

Low priority for Chad Johnson because he has a lot of other things on his plate. Chad gave Carroll a quick pseudocode of how metadata written.

Users will be accessing **product** granules.

Elena presentation

See Elena's slides.

→ Elena send slides to Carroll.

→ Elena, slide 6: switch the N and 1.

Can we get access to more detailed information about the information architecture of NPOESS/JPSS? Carroll gave a nice overview.

Do we have a list of the attributes? That's one of the next steps.

Will solution for one product work for others? Carroll: one for EDR, one for RDR, etc.

Can we get alpha testers? Carroll: There probably are superusers who would be very happy to.

Can't get anything into the system before April, so the option is probably to do through NESDIS.

Next steps

Carroll will set up a meeting with Chad to help answer specific questions about where the XML attributes and give us a variety of data types to make sure solution for EDR works for SDR.

Also look at impact of putting into code. JPSS probably rather than NPP. Focus in short term will be NESDIS.

Re CF conventions: Carroll believes it's tractable. Need to decide whether to modify attributes, or apply to CF folks to add new ones. Don't see this as being as big an issue, just a matter of conforming one way or another. Either change definitions in NPOESS files, decide what the mapping is, or perhaps even get CF to add those attributes.

→ Carroll will try to get the mission geolocation XML file that Elena needs.

→ Elena will give Carroll the specific question that he needs to ask to get it.

Iso 19115 and metadata: problem is level of aggregation. One orbit (RDR) might be a granule, whereas higher level product may be a complete week. Some metadata are relevant at the product level. For individual granule, the only thing you need is geolocation and quality flags. So the amount of metadata needed for each product granule is small compared with...

RDR (level 0) → SDR(level 1b) →