

EML - Bug #2125

Cannot define SOM map projection in spatialRaster element of EML2.0.1

06/14/2005 12:42 PM - Mark Servilla

Status:	New	Start date:	06/14/2005
Priority:	Normal	Due date:	
Assignee:	Matt Jones	% Done:	0%
Category:	eml - general bugs	Estimated time:	0.00 hour
Target version:	Unspecified	Spent time:	0.00 hour
Bugzilla-Id:	2125		
Description			
<p>I am having trouble defining the Space Oblique Mercator map projection in the spatialRaster subtree of EML. The problem is unique to the SOM (any oblique map projection, for that matter) projection - the SOM does not use a prime meridian in the usual sense (i.e., it is fixed to the flight path of the Landsat satellite, not a geographic coordinate system). Since EML requires the primeMeridian-longitude and unit-name attributes to be strictly defined, the document will not validate. Is there a recommendation from the EML community for how to deal with this issue, perhaps making the aforementioned attributes optional?</p> <p>I have included below an example of how I would define this projection.</p> <p>Notes:</p> <ol style="list-style-type: none">1. The SOM projection does not appear to be common in the remote sensing world other than EOSAT/Landsat/IRS formats. Unfortunately, we have much data in this projection.2. FGDC has a separate element for this projection in their schema. Actually, FGDC has a separate element for each major projection definition. <pre><spatialReference> <horizCoordSysDef name="SOM"> <projCoordSys> <geogCoordSys> <datum/> <spheroid name="International_1909" semiAxisMajor="6378388" denomFlatRatio="0.996633"/> <primeMeridian longitude=""/> <unit name=""> </geogCoordSys> <projection> <parameter name="Landsat_Number" value="5"/> <parameter name="Landsat_Path" value="36"/> <parameter name="False_Easting" value="0"/> <parameter name="False_Northing" value="0"/> <unit name="meter"> </projection> </projCoordSys> </horizCoordSysDef> </spatialReference></pre>			
Related issues:			
Blocks EML - Bug #3502: Status of spatial data in EML		New	09/30/2008

History

#1 - 09/22/2008 12:20 PM - Margaret O'Brien

targeting for 2.1.0, although may drop back to unspecified.

#2 - 09/30/2008 04:43 PM - Margaret O'Brien

Generally, these projections are not frequently used in EML. The resolution of this bug will be incorporated into a larger effort (bug [#3502](#)) that

concerns spatial data in general.

#3 - 03/27/2013 02:19 PM - Redmine Admin

Original Bugzilla ID was 2125