EML - Bug #2125

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

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

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<th>Start date:</th>
<th>06/14/2005</th>
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<tr>
<td>Assignee:</td>
<td>Matt Jones</td>
<td>% Done:</td>
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Description

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?

I have included below an example of how I would define this projection.

Notes:
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.

<spatialReference>
<horizCoordSysDef name="SOM">  
<projCoordSys>  
<geogCoordSys>  
<datum/>
<spheroid name="International_1909" semiAxisMajor="6378388" denomFlatRatio="0.996633"/>
<primeMeridian longitude=""/>
<unit name=""/>
</geogCoordSys>  
</projCoordSys>  
</horizCoordSysDef>  
</spatialReference>

Related issues:
Blocks EML - Bug #3502: Status of spatial data in EML

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

03/14/2020
concerns spatial data in general.

#3 - 03/27/2013 02:19 PM - Redmine Admin
Original Bugzilla ID was 2125