

Environment and organisms - Task #213

Confirm with Project Scientists: CGIAR Level 4 SRTM project supports planned Terrain Analysis

04/15/2011 10:25 AM - Rick Reeves

Status:	Resolved	Start date:	04/15/2011
Priority:	High	Due date:	04/18/2011
Assignee:	Rob Guralnick	% Done:	100%
Category:	Land cover	Estimated time:	0.50 hour
Target version:			
Activity type:	Other		
Description			
<p>Ming's initial research identified the SRTM Level 4 DEM data distributed by the CGIAR Consortium (http://srtm.csi.cgiar.org) as best suited to this project's requirements.</p> <p>During our teleconference on 4/12 Brian McGill described some of the Terrain Analysis that will use the fused DEM layer as a primary input. These analyses will be very sensitive to the terrain 'signal' in the DEM layer.</p> <p>The CGIAR Level 4 DEM is a 'refined' terrain model product; the original SRTM DEM is subjected to a multi-step enhancement process.</p> <p>Refer to : http://srtm.csi.cgiar.org/SRTMdataProcessingMethodology.asp for details</p> <p>This refinement processing raises two issues of concern in my mind:</p> <ol style="list-style-type: none">1) There is a possibility that these processing steps have reduced the quality of the terrain 'signal' that is most relevant to some or all of the planned terrain analysis. The magnitude of the reduction may vary for each of the terrain analysis tasks.2) The processing may cause a significant discontinuity along the edges between the CGIAR/SRTM tiles and the ASTER GDEM tiles used to represent high-latitude regions. <p>Prior to final acceptance of the CGIAR Level 4 DEM as one of the bases (ASTER being the other) for the fused terrain data layer, I recommend that the project scientists review the CGIAR/SRTM data processing methodology within the context of planned terrain analysis, and that the constructors of the fused terrain layer evaluate the 'boundary edge' regions for a sampling of locations.</p> <p>Following this review, all concerned can re-confirm that the CGIAR/SRTM product is the best choice for this project, and we can proceed with full-scale production of the fused global terrain layer.</p>			
Related issues:			
Related to Task #212: Validate fused DEM at SRTM/ASTER boundary		Closed	04/19/2011 06/15/2011

History

#1 - 04/18/2011 01:12 PM - Rick Reeves

- Due date set to 04/18/2011
- Status changed from New to Resolved
- Assignee changed from Brian McGill to Rob Guralnick
- % Done changed from 0 to 100
- Estimated time set to 0.50 h
- Activity type changed from Coding/analysis to Other

Review is complete, based on Rob G's response (below) and on Based also upon discussions with Mark Sand Jim R on April 15,

RR

Rick --- Absolutely. This isn't simply a matter of being responsive; the work here is a collaboration and we need to be intimately and fully involved (as is possible). I am really excited

and pleased to see how much we can accomplish.

-r

On Sun, Apr 17, 2011 at 11:54 AM, Rick Reeves <reeves@nceas.ucsb.edu> wrote:

Thanks for the note on CGIAR Ver 4. I had a feeling that Ming/you all selected this product with good reason; however, I felt like a bit of 'due diligence' is in order, considering the effort that will be devoted to this data set.

Cheers,
Rick R

On 4/15/2011 9:25 PM, Robert Guralnick wrote:

Great to get these updates and it looks like progress is getting made. Since I can't change my password on the redmine site and can't remember it,

I will just say that the CGIAR Version 4 SRTM product

looks to me to be the right one, but will defer to Brian and Walter. This processed product has holes and readings that are likely anomalous "corrected", which is what we want.

Jim, can I ask you to reset a password re: redmine?

Best, Rob