

ISIS - Bug #4180

photomet - usedem parameter not functioning

2016-07-22 03:53 PM - Tammy Becker

Status: Closed	
Priority: Normal	
Assignee: Curtis Rose	
Category: Applications	
Target version: FY17 Backlog	
Impact: Fixed an error where the DEM was being used when the cube had a ShapeModel that was not Null and usedem was false. In that instance, the program now uses an ellipsoid model instead of the DEM by default.	Software Version:
Description	
<p>I have an Apollo Metric image projected to equirectangular.</p> <p>It is pointing to a shapemodel in the Kernels group.</p> <p>When using the 'maxemission' parameter to 'trim' at an emission angle of 87.0 degrees, there is no difference in the output whether I set usedem=true or default to usedem=false. It obviously uses the dem to trim at a local emission angle regardless of the usedem parameter value.</p> <p>The only way to trim using the ellipsoid emission angle is to set the keyword shapemodel=NULL; this is not an appropriate work around.</p> <p>Test area: /work/users/tbecker/IsisTesting/UseDEM</p> <p>Command:</p> <pre>photomet from=AS15-M-1499_msk-L2_250mpp.cub to=AS15-M-1499_msk-L2_250mpp-usedem-true.cub maxemission=87.0 usedem=yes phtname=minnaert k=0.5 normname=albedo incref=0 incmat=80 thresh=30 albedo=1.0</pre> <pre>photomet from=AS15-M-1499_msk-L2_250mpp.cub to=AS15-M-1499_msk-L2_250mpp-usedem-false.cub maxemission=87.0 usedem=no phtname=minnaert k=0.5 normname=albedo incref=0 incmat=80 thresh=30 albedo=1.0</pre> <p>A version of this file without a shape model set: AS15-M-1499_msk-L2_250mpp-NODEM.cub (shapemodel=NULL) The output of this command results in what is expected as the command above with usedem=no photomet from=AS15-M-1499_msk-L2_250mpp-NODEM.cub to=AS15-M-1499_msk-L2_250mpp-usedem-false.cub maxemission=87.0 usedem=no phtname=minnaert k=0.5 normname=albedo incref=0 incmat=80 thresh=30 albedo=1.0</p> <p>also! with this file that has "NODEM" (shapemodel=NULL); when I set usedem=yes it runs and results in the same output as usedem-false. Shouldn't it inform the user that a DEM is not included in the labels????</p> <p>The commands above are included in the steps.csh</p>	

History

#1 - 2016-07-26 11:14 AM - Curtis Rose

- Assignee set to Curtis Rose

#3 - 2016-07-27 04:58 PM - Curtis Rose

- Status changed from Acknowledged to In Progress

- Impact updated

#4 - 2016-07-27 05:01 PM - Curtis Rose

- Status changed from In Progress to Resolved

#5 - 2016-10-03 10:15 AM - Stuart Sides

- *Target version set to FY17 Backlog*

#6 - 2016-11-07 10:17 AM - Curtis Rose

- *Status changed from Resolved to In Progress*

#7 - 2016-11-07 11:43 AM - Curtis Rose

- *Status changed from In Progress to Resolved*

Application is working as expected. Usedem and Anglesource have been separated in code so that they work properly.
Added user documentation.

#8 - 2016-11-07 01:13 PM - Tammy Becker

A user test plan exists for this issue: /work/projects/usertests/UserTestPlans/Apps/photomet/m04180/

photomet_m04190_testplan.txt

photomet-test.csh

#9 - 2016-11-07 01:14 PM - Tammy Becker

- *Status changed from Resolved to Closed*