

ISIS - Bug #958

qview nomenclature still not getting ranges right

2012-06-25 10:58 AM - Steven Lambright

Status: Closed	
Priority: Normal	
Assignee: Kimberly Oyama	
Category: Applications	
Target version: N/A	
Impact:	Software Version:
Description	
See /work/users/slambright/LAC59.cub	
It finds the inverse of the nomenclature that is actually in the image. The image is 0-10, 350-360 in 360 domain, it finds 10-350 in 360 domain. This exists in isis3beta2012-06-22. isis3production2012-06-21 only finds half of the nomenclature.	

History

#1 - 2012-06-25 11:07 AM - Lynn Weller

I second that! I wasn't sure if it was just maybe the area I was in, but now that you mention it, something is funny. For another example see /work/projects/themis_control/lweller/MargSinus/NightIR/TileNet/MargSinus_NightIR_Controlled_clon0_100m_average.cub

This mosaic has longitude domain 180 and lon range (-45,0).

Something must have come undone recently because I tested this via post 855 no problem, but now those test images have reverted back to the previously stated problem (see the ulcn mosaic, for instance).

#2 - 2012-06-26 08:42 AM - Kimberly Oyama

IMPACT

The inRange method in Longitude was optimized (functionality was not changed); programs that use this method may be affected. Anticipated impact to other parts of Isis is none.

#3 - 2012-06-26 01:23 PM - Kimberly Oyama

The entire longitudinal range is now queried so all of the expected names should be displayed.

To Test:

Set isis root to: /work/projects/isis/latest/m00958/isis

#4 - 2012-06-26 03:33 PM - Lynn Weller

Well, nomenclature now works as expected for /work/projects/themis_control/lweller/MargSinus/NightIR/TileNet/MargSinus_NightIR_Controlled_clon0_100m_average.cub and \$ISIS3DATA/base/dems/ulcn2005_clean_0004.cub, but I have a messenger mosaic it no longer works for (it used to): /work/projects/messenger/lweller/Monochrome/Products/DOY_095_319/Mess_Monochrome_DOY_095to319_controlled_photG_Clon180_200m_Equi_track_morph.cub

Both the themis mosaic and ulcn have center longitude=0 and domain=180 whereas the messenger mosaic has clon=180, domain=360.

I repeated the test using isis3production2012-06-02 and messenger comes up fine there, but themis does not and only half of the clementine gets names.

Hope this helps narrow it down some.

#5 - 2012-06-28 12:48 PM - Steven Lambright

I've given Kim some help with a range-finding algorithm that ought to work in all cases. Hopefully she will have another fix coming soon that will succeed on your images, Lynn.

#6 - 2012-07-02 08:25 AM - Kimberly Oyama

The longitude range used by the nomenclature feature should now cover the correct areas of the images. Lynn, I've tested the images you've posted here and I think their nomenclature is displayed correctly. Even so, please make sure this works for your images and let me know if there are any other images that the tool doesn't work for.

A to360Range method, which takes a lon range and calculates its position in the 0-360 range, was added to Longitude. The inRange method of longitude was modified also, however it should have the same functionality. A fullRotation method was added to Angle. It returns an angle of 360 degrees/2pi radians (whatever one rotation is).

#7 - 2012-07-03 09:44 AM - Steven Lambright

Looks good to me.