

ISIS - Bug #2191

grid does not produce a valid lat/lon grid for multi-band cubes with a band dependent camera

2014-11-12 04:59 PM - Stuart Sides

Status: Closed Priority: High Assignee: Kristin Berry Category: Applications Target version: N/A Impact: Grid will re-calculate grids for each band of Cubes with band-dependent camera models: VimsCamera, LroWideAngleCamera, MarciCamera, MvicFrameCamera, NewHorizonsLeisaCamera, ThemisIrCamera, and ThemisVisCamera.	Software Version:
Description When working with a multi-band cube that has a band dependent camera model (e.g., Themis IR, New Horizons LEISA) the grid program creates a grid that matches band 1 only. When the camera model is the same for all bands this is fine. When the camera model is not the same, the grid from band 1 does not correctly represent other bands.	

History

#1 - 2014-11-13 12:40 PM - Kristin Berry

- Status changed from Assigned to In Progress

- Impact updated

After completion, grid will work differently for all the band-dependent camera models: VimsCamera, LroWideAngleCamera, MarciCamera, MvicFrameCamera, NewHorizonsLeisaCamera, ThemisIrCamera, and ThemisVisCamera.

It's worth noting that very few objects and applications currently take IsBandIndependent into account. Right now, it's only:

cam2cam
caminfo
map2cam
ringscam2map
skymap
CameraStatistics
ProjectionFactory
CrismCamera

#2 - 2014-12-03 11:44 AM - Kristin Berry

- Impact updated

#3 - 2014-12-03 11:55 AM - Kristin Berry

- Status changed from In Progress to Resolved

This is done, tested by me (Kristin,) and committed to the New Horizons branch. Someone else should probably test this before it gets merged into trunk.

#5 - 2014-12-11 05:08 PM - Tammy Becker

I tested a Cassini VIMS cube with grid under this ticket as well as under isis3.4.8, the output files were identical.

input: /work/projects/cassini/tbecker/VIMS/V1764559402_1.ir-sinu.cub

output: V1764559402_1.ir-sinu-isis348-grid.cub & V1764559402_1.ir-sinu-m02191-grid.cub

I ran grid with all the defaults.

If this is what is expected for the VIMS IR camera, then we are good.

Thank you.

#6 - 2015-01-13 12:20 PM - Stuart Sides

- *Status changed from Resolved to Closed*