

## ISIS - Bug #4530

Bug # 2244 (In Progress): Pixel (Line/Sample) Projection Offset Issue

### Pixel Offset - isis2pds

2016-11-10 12:01 PM - Jason Laura

<b>Status:</b> Acknowledged	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Category:</b> Applications	
<b>Target version:</b> FY17 Sprint 3	
<b>Impact:</b>	<b>Software Version:</b>
<b>Description</b>	
DoD for the export version: * Change 2 lines of code and run the tests * Identify what broke * Research the 'break' for each to see if you have actually fixed it - this is documentation * Clean up user test tickets if it did not break anything	

### History

#### #1 - 2016-11-10 12:01 PM - Jason Laura

- Status changed from New to Acknowledged

#### #2 - 2016-11-23 02:23 PM - Trent Hare

- Category set to Applications

As pds2isis is updated then exporting will need to also be updated.

[http://isis.astrogeology.usgs.gov/Object/Programmer/\\_process\\_export\\_pds\\_8cpp\\_source.html](http://isis.astrogeology.usgs.gov/Object/Programmer/_process_export_pds_8cpp_source.html)

from:

```
00776 lineOffset += 0.5; // Add half a line to get to the center of (1,1)
```

```
00781 sampleOffset += 0.5; // Add half a sample to get to the center of (1,1)
```

to

```
00776 lineOffset -= 0.5; // Subtract half a line to get to the center of (1,1)
```

```
00781 sampleOffset -= 0.5; // Subtract half a sample to get to the center of (1,1)
```

A great test image is LOLA DEM since it is so small, simple and global 1440x720

PDS image: [http://pds-geosciences.wustl.edu/lro/lro-l-lola-3-rdr-v1/lro\\_lol\\_1xxx/data/lola\\_gdr/cylindrical/img/ldem\\_4.img](http://pds-geosciences.wustl.edu/lro/lro-l-lola-3-rdr-v1/lro_lol_1xxx/data/lola_gdr/cylindrical/img/ldem_4.img)

detached label: [http://pds-geosciences.wustl.edu/lro/lro-l-lola-3-rdr-v1/lro\\_lol\\_1xxx/data/lola\\_gdr/cylindrical/img/ldem\\_4.lbl](http://pds-geosciences.wustl.edu/lro/lro-l-lola-3-rdr-v1/lro_lol_1xxx/data/lola_gdr/cylindrical/img/ldem_4.lbl)

parent link: <http://pds-geosciences.wustl.edu/missions/lro/lola.htm>

Currently it does appear ISIS is exporting to PDS files one pixel off.