

Key Links to Planetary Data (based on Brian Hynek's April 9 presentation)

WebGIS Viewers:

WebGIS resources for Moon, Mars, Venus, Gallilean Satellites, etc:

<http://astrogeology.usgs.gov/Projects/webgis/>

(Click on PIGWAD Maps on the left. The Intermediate ArcIMS HTML viewer is usually the best option)

GIS-ready Planetary Data Downloads:

<http://astrogeology.usgs.gov/Projects/webgis/>

(Click on Downloads on the left, pick your planet. Note that some of these lists have an FTP site listed that contains additional global datasets.)

Additional links to GIS data for Mars:

<https://isis.astrogeology.usgs.gov/IsisSupport/index.php/topic.1166.0.html>

(The "Bundled" heading has ~ 5 GB of global Mars data and is a great asset. There's also a long list of the individual datasets under GIS formatted bases.)

Projection Information and Help:

<http://isis.astrogeology.usgs.gov/IsisSupport/viewtopic.php?t=389>

Planetary projections for ArcGIS (although they are already included in the newer versions of Arc, under Projections>Geographic>Solar System):

ftp://pdsimage2.wr.usgs.gov/pub/pigpen/ArcMap_addons/

Planetary GIS Data Discussion Boards:

GIS and Planetary data:

<https://isis.astrogeology.usgs.gov/IsisSupport/index.php/board.43.0.html>

Mars-Specific Data:

<https://isis.astrogeology.usgs.gov/IsisSupport/index.php/board.45.0.html>

Other Planetary Data:

<https://isis.astrogeology.usgs.gov/IsisSupport/index.php/board.46.0.html>

Cutting Edge Activities for Mars, that could easily be converted to GIS labs:

<http://serc.carleton.edu/NAGTWorkshops/mars/activities.html>

JMARS Software to View/Download Planetary Data

<http://jmars.asu.edu/>

GoogleEarth also has the Moon and Mars (click on the ringed planet in the menubar), or you can go to

<http://maps.google.com/mars/> or <http://maps.google.com/moon/>

Recent Article on the Utility of Extraterrestrial DEMS:

<http://www.informaworld.com/smpp/ftinterface~content=a930953147~fulltext=713240928~frm=content>

Hynek, Brian M. (2010) 'Extraterrestrial digital elevation models: constraints on planetary evolution, with focus on Mars', International Journal of Remote Sensing, 31:23, 6259-6274