

ORBITER Credits

In alphabetical order. Last updated 28 April 2006

Steve Albers

laps.noaa.gov/albers/sos/sos.html

Io surface map

Created from Voyager and Galileo data
Included since: 060428

Iapetus surface map

Modified for Orbiter by Rolf Keibel
Lightened to show detail
empty areas filled with fictional coverage
Included since: 060428

Jason Benson (“agent036”)

New Mir model

Included since: version 021201

P. Bretagnon, G. Francou

Bureau des Longitudes, CNRS URA 707

pierre@bdl.fr francou@bdl.fr

VSOP87

Planetary perturbation terms for Mercury to Neptune
Download date: 17 August 2001

M. Chapront-Touze, J. Chapront

Bureau des Longitudes, CNRS URA 707

77, Avenue Denfert-Rochereau

75014, Paris, France

Lunar Solution ELP 2000-82B (Semi-analytical lunar ephemerides)

Ref:

Astron. Astrophys. 124, 50 (1983)

Astron. Astrophys. 190, 342 (1988)

Robert Conley (“estar”)

Atlantis MMU and Satellite extensions

Atlantis documentation

Included since: version 021201

Elwood Downey

www.clearskyinstitute.com/xephem/xephem.html

Lunar ephemeris

Perturbation terms for lunar positions.

Andrew Farnaby

Project Alpha ISS model

Included since: version 030527

Don Gallagher

Space Shuttle Atlantis mesh and textures.

Included since: version 031103

LDEF mesh and textures

Included since: version 031103

Damir Gulesich

Space Shuttle External Tank and Solid Rocket Booster mesh and textures.

Included since: version 031103

James Hastings-Trew

<http://apollo.spaceports.com/~jhasting/>

Phobos and Deimos meshes

Download date: 12 March 01

Author note: *"Meshes are downsampled versions of OpenUniverse Objects"*

Uranus map

Format: 1024x512 Jpeg

Download date: 2000

Author note: *"Painted pretty much from scratch based on images found around the internet."*

Uranus ring data:

Download date: 2000

Neptune map

Format: 1024x512 Jpeg

Download date: 2000

Author note: *"Painted pretty much from scratch based on images found around the internet."*

Seth Hollingsead

<http://www.OrbitersimLandSAT.com>

Iceversaka@hotmail.com

Mars surface map optimisation and adaptation for Orbiter

Included since: version 060221

David Hopkins

Space Shuttle Atlantis module code extensions

Included since: version 031103

Jet Propulsion Laboratory Multimission Image Processing Laboratory

Solar System Visualization Project and Magellan science team

Venus surface map

Format: 5120x2560 Tiff

Download date: 22 September 03 (original: p45187.tif)

Composite of Magellan synthetic aperture radar mosaics.

Author note: *"Data gaps are filled with Pioneer-Venus Orbiter altimetric data, or a constant mid-range value. Simulated color is used to enhance small-*

scale structure. The simulated hues are based on color images recorded by the Soviet Venera 13 and 14 spacecraft."

Björn Jónsson

<http://www.mmedia.is/~bjj>

Venus cloud map

Format: 1800x900 Jpeg
Download date: 12 March 01

Saturn map

Format: 1800x900 Jpeg
Download date: 12 March 01
Author note: *"Created from Voyager data with some artistic interpretation"*

Saturn ring data

Download date: 9 March 01
Author note: *"Created from Voyager images"*

Callisto surface map

Format: 1800x900 Jpeg
Download date: 29 April 2006
Release notes:

This map of Callisto was created from images obtained by the Voyager and Galileo spacecraft. Most of these had a resolution of 0.7-4 km/pixel. The main exception is that lower resolution images were used to colorize the map. The main reasons are that Callisto has not been globally imaged in color at high resolution and the weird color filter combination used for imaging at high resolution.

Rolf Keibel

Jupiter texture map

Jupiter cloud map

created/edited for Orbiter from CICLOPS maps

Saturn texture map

edited for Orbiter

Triton texture map

based on Voyager photos

Uranus texture map

Misc:

Various planet configuration file modifications

The standard Orbiter distribution contains a subset of Rolf Keibel's 'Outer Planets' addon.

Roger "Frying Tiger" Long

DeltaGlider and DG-S mesh and virtual cockpit

Included since: version 020418
Updated and extended version, included since: version 050116

Dragonfly mesh improvements and textures

Included since: version 021201

Shuttle-A mesh

Included since: version 021201

Jens Mayer

<http://home.arcor.de/jimpage/>

Moon map

Format: 8192x4096 Jpeg

Download date: 19 August 03

NASA/JPL/Space Science Institute

Mimas surface map

<http://photojournal.jpl.nasa.gov/catalog/PIA07779>

Format: 2876x1438 Jpeg

Download date: 20 March 2006

Included since: 060320

Release notes:

This global digital map of Saturn's moon Mimas was created using data taken during Cassini and Voyager spacecraft flybys. The map is an equidistant projection and has a scale of 434 meters (1,424 feet) per pixel. The mean radius of Mimas used for projection of this map is 199 kilometers (124 miles). The resolution of the map is 8 pixels per degree. [...]

Mission: Cassini

Spacecraft: Cassini Orbiter

Instrument: Imaging Science Subsystem

Product Size 3165 samples x 1878 lines

Produced by: Cassini Imaging Team

Enceladus surface map

<http://photojournal.jpl.nasa.gov/catalog/PIA07777>

Format: 14396x7198 Jpeg

Download date: 20 March 2006

Included since: 060320

Release notes:

This global digital map of Saturn's moon Enceladus was created using data taken during Cassini and Voyager spacecraft flybys. The map is an equidistant projection and has a scale of 110 meters (361 feet) per pixel.

The mean radius of Enceladus used for projection of this map is 252 kilometers (157 miles). The resolution of the map is 40 pixels per degree. [...]

Mission: Cassini

Spacecraft: Cassini Orbiter

Instrument: Imaging Science Subsystem

Product Size 14960 samples x 7860 lines

Produced by: Cassini Imaging Team

Tethys surface map

<http://photojournal.jpl.nasa.gov/catalog/PIA07781>

Format: 11496x5748 Jpeg

Download date: 20 March 2006

Included since: 060320

Release notes:

This global digital map of Saturn's moon Tethys was created using data taken during Cassini and Voyager spacecraft flybys. The map is an equidistant projection and has a scale of 293 meters (961 feet) per pixel.

The mean radius of Tethys used for projection of this map is 536 kilometers (333 miles). The resolution of the map is 32 pixels per degree. [...]

Mission: Cassini

Spacecraft: Cassini Orbiter

Instrument: Imaging Science Subsystem

Product Size 12068 samples x 6408 lines

Produced by: Cassini Imaging Team

Dione surface map

<http://photojournal.jpl.nasa.gov/catalog/PIA07776>

Format: 5192x2596 Jpeg

Download date: 20 March 2006

Included since: 060320

Release notes:

This global digital map of Saturn's moon Dione was created using data taken during Cassini and Voyager spacecraft flybys. The map is an equidistant projection and has a scale of 977 meters (3,205 feet) per pixel. The mean radius of Dione used for projection of this map is 560 kilometers (348 miles). The resolution of the map is 10 pixels per degree. [...]

Mission: Cassini

Spacecraft: Cassini Orbiter

Instrument: Imaging Science Subsystem

Product Size 5750 samples x 3244 lines

Produced by: Cassini Imaging Team

Rhea surface map

<http://photojournal.jpl.nasa.gov/catalog/PIA07780>

Format: 7199x3552 Jpeg

Download date: 20 March 2006

Included since: 060320

Release notes:

This global digital map of Saturn's moon Rhea was created using data taken during Cassini and Voyager spacecraft flybys. The map is an equidistant projection and has a scale of 667 meters (2,188 feet) per pixel. The mean radius of Rhea used for projection of this map is 764 kilometers (475 miles). The resolution of the map is 20 pixels per degree. [...]

Mission: Cassini

Spacecraft: Cassini Orbiter

Instrument: Imaging Science Subsystem

Product Size 7700 samples x 4200 lines

Produced by: Cassini Imaging Team

Valerio Oss

KSC VAB mesh

Included since: version 021201

Balázs Patyi

patyibalazs@yahoo.com

PTV (Personal transport vehicle) mesh

Included since: version 010706

Radu Poenaru

Dragonfly electrical and environmental simulation, Dragonfly panels

Included since: version 021201

Shuttle-A virtual cockpit and cargo management

Included since: version 050207

Mario Rossi

Mars surface map

www.Space-Graphics.com

Pre-release Mars-M46 V2

www.space-graphics.com/m46v2_shaded.htm

Additional Sources:

www.space-graphics.com/credits.htm

MOLA Science team - Mars Orbiter Laser Altimeter (MOLA) Science Investigation

NASA/JPL/Caltech - Solar system surface map database

NGDC - National Geophysical Data Center

USGS - U.S. Geological Survey

Included since: version 060221

Dean A. ScottEarth cloud map

Format: 4096x2048 Jpeg

Download date: 16 July 01

Duncan SharpeTransX MFD mode module

Included since: version 031103

Robert StettnerUranus & Neptune major moons:

Miranda, Ariel, Umbriel, Titania, Oberon, Triton, Proteus, Nereid

Included since: version 021201

Author note: *"Special Thanks go to JPL and their Planetary Satellite Mean Orbital Parameters and Moon Maps, as well as the developing Orbiter Community, for providing assistance and great support!!!"*

Philip J. Stooke

Dept. of Geography, University of Western Ontario,
London, Ontario, Canada N6A 5C2

<http://www.ssc.uwo.ca/geography/spacemap>

Phobos map

Format: 600x300 Jpeg

Download date: 27 July 01

Deimos map

Format: 800x400 Jpeg

Download date: 27 July 01

David SundstromHubble Space Telescope (HST) model.

Included since version 031103

Constantine Thomas

<http://www.btinternet.com/~consty>

Jupiter map

Format: 1024x512 Jpeg

Download date: 12 March 01

Author note: *Constructed from Voyager data (JPL/NASA)*

USGS

Astrogeology Research Program
Planetary Geomatics Group
Gazetteer of Planetary Nomenclature
<http://planetarynames.wr.usgs.gov/>

Mercury surface labels
Mars surface labels
Io surface labels
Europa surface labels
Ganymede surface labels
Callisto surface labels
Included since: 060428

Visible Earth/NASA
<http://visibleearth.nasa.gov/>

Earth surface map
Format: 8192x4096 TIFF
Location: <http://visibleearth.nasa.gov/cgi-bin/viewrecord?11612>
Download date: 18 February 2002

NASA Goddard Space Flight Center Image by Reto Stvckli (land surface, shallow water, clouds). Enhancements by Robert Simmon (ocean color, compositing, 3D globes, animation). Data and technical support: MODIS Land Group; MODIS Science Data Support Team; MODIS Atmosphere Group; MODIS Ocean Group. Additional data: USGS EROS Data Center (topography); USGS Terrestrial Remote Sensing Flagstaff Field Center (Antarctica); Defense Meteorological Satellite Program (city lights).

KSC area high resolution surface tiles from Landsat 7 imagery
available from the Visible Earth site.

John Van Vliet

Titan surface map
Conversion of JPL map by Dr. Fridger Schrempp (CICLOPS)
http://www.planetary.org/saturn/images/titan_map_mosaic_schrempp_050414_512x256.jpg
Included since: 060320

Richard Wall
ricwall@gmail.com

Land-water masks for Cape Canaveral surface tiles
Included since: 060428

James S Williams
Venus surface and cloud textures
Included since version 031103

Mercury textures
Included since version 050116