

High-resolution Solar System textures for SpaceEngine 0.98

These addons – **Solar System HD** and **Solar System Ultra** – contain high-resolution maps of some planets, moons and asteroids of the Solar System. The maps are in lossless PNG format – some elevation (bump) maps are in lossless 16-bit PNG format. Some maps do not increase the level of detail of worlds represented in SpaceEngine by default, but replace them with the lossless data.

The largest planet datasets (terrestrial worlds including Mercury, Venus, Earth, Moon and Mars) in the **Solar System HD** addon have a slightly reduced level of detail compared to the maximum available data. While converting the source datasets to SpaceEngine format, the latest levels are usually upscaled compared to the original data, so no additional information is provided. For example, the Earth BMNG dataset has a resolution of 86400x43200 pixels, while SpaceEngine requires a power-of-two texture size, so the original map was upscaled to 131072x65536. The total amount of data is 11.5 GB, of which 7.3 GB corresponds the last levels, which have upscaled data. Because they don't increase terrain quality very much they were excluded from this addon and moved into a separate addon – **Solar System Ultra**. If you need the fullest datasets for all planets, download both **Solar System HD** and **Solar System Ultra** addons. Venus has an even larger surface map dataset – equivalent to “256k” map, but it has only a slightly better resolution than the “128k” map (168960 vs. 131072 pixels along equator), so only “128k” map is included.

The rest of this document describes the data used in this addon, achieved spatial resolution and credits info.

Solar System HD – 63 files, 16.7 GB

Solar System Ultra – 18 files, 28.6 GB

Mercury – 32k elevation map

Author	Sean Young "HarbingerDawn"	
Source	USGS Astrogeology Science Center / NASA/Goddard Space Flight Center	
Format	Cubemap, PAK files with lossless 16-bit PNG images.	
Resolution	Original dataset: 23040x11520, effective resolution ~0.66 km/pix. Solar System HD: upscaled to 32768x16384 (6x8192x8192), ~0.448 km/pix.	
Note	Composite of LIDAR- and optical image-based maps. The far northern latitudes are higher quality due to MESSENGER's low orbital altitude at those latitudes, allowing for detailed LIDAR measurements.	
Files	Mercury-Bump-HD-16k.pak Mercury-Bump-HD-32k.pak	652 MB, Solar System HD

Mercury – 128k surface map

Author	Robert Skuridin "PBC"	
Source	MESSENGER PDS mosaic	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 92160x46080, effective resolution ~0.165 km/pix. Solar System HD: reduced to 65536x32768 (6x16384x16384), ~0.224 km/pix. Solar System Ultra: upscaled to 131072x65536 (6x32767x32768), ~0.117 km/pix.	
Note	Colorized surface albedo map.	
Files	Mercury-Surface-PBC-16k.pak Mercury-Surface-PBC-32k.pak Mercury-Surface-PBC-64k.pak	2.59 GB, Solar System HD
	Mercury-Surface-PBC-128k-1.pak Mercury-Surface-PBC-128k-2.pak Mercury-Surface-PBC-128k-3.pak	5.47 GB, Solar System Ultra

Venus – 128k elevation map

Author	Vladimir Romanyuk "SpaceEngineer"	
Source	Magellan GTDR, Magellan C1-MIDR	
Format	Cubemap, PAK files with lossless 16-bit PNG images.	
Resolution	Original dataset: 8192x4096, effective resolution ~4.6 km/pix. Solar System HD: upscaled to 65536x32768 (6x16384x16384), ~0.58 km/pix. Solar System Ultra: upscaled to 131072x65536 (6x32767x32768), ~0.29 km/pix.	
Note	Fake high-resolution elevation map. Original Magellan GTDR map has a very poor resolution of 8192x4096 pixels, giving a ~4.6 km per pixel effective surface resolution. It also has huge gaps. Gaps were repaired using data from nearby locations, then the map was upscaled to 128k resolution and modulated with the 128k surface map data to add a high-frequency details.	
Files	Venus-Bump-SE-16k.pak Venus-Bump-SE-32k.pak Venus-Bump-SE-64k.pak	2.42 GB, Solar System HD
	Venus-Bump-SE-128k-1.pak Venus-Bump-SE-128k-2.pak Venus-Bump-SE-128k-3.pak	7.16 GB, Solar System Ultra

Venus – 128k surface map

Author	John van Vliet	
Source	Magellan C1-MIDR	
Format	Cubemap, PAK files with lossless 8-bit grayscale PNG images.	
Resolution	Original dataset: 168960x84480, effective resolution ~0.225 km/pix. Solar System HD: reduced to 65536x32768 (6x16384x16384), ~0.58 km/pix. Solar System Ultra: upscaled to 131072x65536 (6x32767x32768), ~0.29 km/pix.	
Note	Colorized fake surface map, based on radio-albedo. Original Magellan C1-MIDR map has a resolution of 168960x84480 pixels, yielding a 0.225 km per pixel effective surface resolution.	
Files	Venus-Surface-JVV-16k.pak Venus-Surface-JVV-32k.pak Venus-Surface-JVV-64k.pak	1.18 GB, Solar System HD
	Venus-Surface-JVV-128k-1.pak Venus-Surface-JVV-128k-2.pak Venus-Surface-JVV-128k-3.pak	3.55 GB, Solar System Ultra

Earth – 64k clouds map

Author	Vladimir Romanyuk "SpaceEngineer"	
Source	NASA BMNG (Blue Marble Next Generation)	
Format	Cubemap, PAK files with lossless 8-bit grayscale PNG images.	
Resolution	Original dataset: 65536x32768, effective resolution ~0.61 km/pix. Solar System HD: 65536x32768 (6x16384x16384), ~0.61 km/pix.	
Note	Cloud coverage map.	
Files	Earth-Clouds-SE-16k.pak Earth- Clouds-SE-32k.pak Earth- Clouds-SE-64k.pak	695 MB, Solar System HD

Earth – 128k elevation map

Author	Robert Skuridin "PBC"	
Source	NASA SRTM (Shuttle Radar Topography Mission) GEBCO (General Bathymetric Chart of the Oceans)	
Format	Cubemap, PAK files with lossless 16-bit PNG images.	
Resolution	Original dataset: Land areas (SRTM) – 86400x43200, effective resolution ~0.46 km/pix. Ocean floor (GEBCO) – 21600x10800, effective resolution ~1.85 km/pix. Solar System HD: reduced to 65536x32768 (6x16384x16384), ~0.61 km/pix. Solar System Ultra: upscaled to 131072x65536 (6x32767x32768), ~0.31 km/pix.	
Note	This is a combined digital elevation model (DEM) of Earth. Land areas are taken from the SRTM dataset and have an effective resolution of 0.46 km/pix. Ocean floor areas are taken from the GEBCO dataset and has a 4 times lower effective resolution of 1.85 km/pix.	
Files	Earth-Bump-PBC-16k.pak Earth-Bump-PBC-32k.pak Earth-Bump-PBC-64k.pak	2.12 GB, Solar System HD
	Earth-Bump-PBC-128k-1.pak Earth-Bump-PBC-128k-2.pak Earth-Bump-PBC-128k-3.pak	4.57 GB, Solar System Ultra

Earth – 128k surface map

Author	Robert Skuridin "PBC"	
Source	NASA BMNG (Blue Marble Next Generation)	
Format	Cubemap, PAK files with lossless 32-bit color+alpha PNG images.	
Resolution	Original dataset: 86400x43200, effective resolution ~0.46 km/pix. Solar System HD: reduced to 65536x32768 (6x16384x16384), ~0.61 km/pix. Solar System Ultra: upscaled to 131072x65536 (6x32767x32768), ~0.31 km/pix.	
Note	Water mask is in the alpha channel of 32-bit RGBA images.	
Files	Earth-Surface-PBC-16k.pak Earth-Surface-PBC-32k.pak Earth-Surface-PBC-64k.pak	1.33 GB, Solar System HD
	Earth-Surface-PBC-128k-1.pak Earth-Surface-PBC-128k-2.pak Earth-Surface-PBC-128k-3.pak	2.72 GB, Solar System Ultra

Earth – 64k city lights map

Author	Sean Young "HarbingerDawn"	
Source	NASA Earth Observatory	
Format	Cubemap, PAK files with lossless 8-bit grayscale PNG images.	
Resolution	Original dataset: 54000x27000, effective resolution ~0.74 km/pix. Solar System HD: upscaled to 65536x32768 (6x16384x16384), ~0.61 km/pix.	
Note	City lights map; imagery taken by the Suomi NPP satellite.	
Files	Earth-Lights-HD-16k.pak Earth- Lights-HD-32k.pak Earth- Lights-HD-64k.pak	90 MB, Solar System HD

Moon – 64k elevation map

Author	Vladimir Romanyuk "SpaceEngineer"	
Source	Lunar Reconnaissance Orbiter LOLA Global DEM	
Format	Cubemap, PAK files with lossless 16-bit PNG images.	
Resolution	Original dataset: 46080x23040, effective resolution ~0.23 km/pix. Solar System HD: reduced to 32768x16384 (6x8192x8192), ~0.33 km/pix. Solar System Ultra: upscaled to 65536x32768 (6x16384x16384), ~0.166 km/pix.	
Note	Dataset with even higher resolution is available on NASA servers; however its close-up quality is very bad in many places.	
Files	Moon-Bump-SE-16k.pak	677 MB, Solar System HD
	Moon-Bump-SE-32k.pak	
	Moon-Bump-SE-64k.pak	1.66 GB, Solar System Ultra

Moon – 64k surface map

Author	John van Vliet	
Source	Lunar Reconnaissance Orbiter WAC Global mosaic	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 109164x54582, effective resolution ~0.1 km/pix. Solar System HD: reduced to 32768x16384 (6x8192x8192), ~0.33 km/pix. Solar System Ultra: reduced to 65536x32768 (6x16384x16384), ~0.166 km/pix.	
Note	Dataset with even higher resolution is available on NASA servers; however its close-up quality is very bad in many places.	
Files	Moon-Surface-JVV-16k.pak	858 MB, Solar System HD
	Moon-Surface-JVV-32k.pak	
	Moon-Surface-JVV-64k.pak	2.26 GB, Solar System Ultra

Mars – 64k elevation map

Author	Robert Skuridin "PBC"	
Source	Mars Global Surveyor MOLA	
Format	Cubemap, PAK files with lossless 16-bit PNG images.	
Resolution	Original dataset: 46080x23040, effective resolution ~0.46 km/pix. Solar System HD: reduced to 32768x16384 (6x8192x8192), ~0.65 km/pix. Solar System Ultra: upscaled to 65536x32768 (6x16384x16384), ~0.325 km/pix.	
Note	Digital elevation model.	
Files	Mars-Bump-PBC-16k.pak	540 MB, Solar System HD
	Mars-Bump-PBC-32k.pak	
	Mars-Bump-PBC-64k.pak	1.2 GB, Solar System Ultra

Mars – 32k surface map

Author	John van Vliet, Robert Skuridin "PBC"	
Source	Mars Global Surveyor MOC Wide Angle Atlas	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 32768x16384, effective resolution ~0.65 km/pix. Solar System HD: reduced to 32768x16384 (6x8192x8192), ~0.65 km/pix.	
Note	Gamma and color are corrected to match Hubble Space Telescope imagery processed by Gordan Ugarkovic.	
Files	Mars-Surface-PBC-16k.pak	454 MB, Solar System HD
	Mars-Surface-PBC-32k.pak	

Mars – 2k clouds map

Author	Sean Young "HarbingerDawn", Santiago Chazo "Cirax"	
Source	Hubble Space Telescope / Mars Global Surveyor MOC	
Format	Cubemap, PAK files with lossless 8-bit grayscale PNG images.	
Resolution	Solar System HD: 2 layers of 32768x16384 (6x512x512), ~10 km/pix.	
Note	Water-ice and dust cloud layers based on Hubble and Mars Global Surveyor imagery. Replaces default textures with lossless PNG.	
Files	Mars-Clouds-HD-2k	731 kB, Solar System HD

Ceres – 32k surface map

Author	Sean Young "HarbingerDawn"	
Source	NASA/JPL – Caltech/UCLA/MPS/DLR/IDA	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 21093x10546, effective resolution ~0.14 km/pix. Solar System HD: upscaled to 32768x16384 (6x8192x8192), ~0.092 km/pix.	
Note	True-color surface map.	
Files	Ceres-Surface-HD-16k.pak Ceres-Surface-HD-32k.pak	723 MB, Solar System HD

Vesta – 32k elevation map

Author	Vladimir Romanyuk "SpaceEngineer"	
Source	NASA/JPL – Caltech/UCLA/MPS/DLR/IDA	
Format	Cubemap, PAK files with lossless 16-bit grayscale PNG images.	
Resolution	Original dataset: 17281x8641, effective resolution ~0.096 km/pix. Solar System HD: upscaled to 32768x16384 (6x8192x8192), ~0.050 km/pix.	
Note	Artistically fixed artifacts near poles and gaps at the map's edges.	
Files	Vesta-Bump-SE-16k.pak Vesta-Bump-SE-32k.pak	263 MB, Solar System HD

Vesta – 32k surface map

Author	Sean Young "HarbingerDawn"	
Source	NASA/JPL – Caltech/UCLA/MPS/DLR/IDA	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 26703x13351, effective resolution ~0.062 km/pix. Solar System HD: upscaled to 32768x16384 (6x8192x8192), ~0.050 km/pix.	
Note	True-color surface map. Gaps and artifacts have been manually reduced.	
Files	Vesta-Surface-HD-16k.pak Vesta-Surface-HD-32k.pak	598 MB, Solar System HD

Jupiter – 8k surface map

Author	John van Vliet	
Source	Cassini	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 8192x4096, effective resolution ~55 km/pix. Solar System HD: 8192x4096 (6x2048x2048), ~55 km/pix.	
Note	Colorized surface albedo map.	
Files	Jupiter-Surface-JVV-8k.pak	44.9 MB, Solar System HD

Io – 8k elevation map

Author	Vladimir Romanyuk "SpaceEngineer"	
Source	Voyager, Galileo	
Format	Cubemap, PAK files with lossless 8-bit grayscale PNG images.	
Resolution	Original dataset: 8192x4096, effective resolution ~1.4 km/pix. Solar System HD: 8192x4096 (6x2048x2048), ~1.4 km/pix.	
Note	Fake (artistically made) elevation map.	
Files	Io-Bump-fake-SE-8k.pak	12.8 MB, Solar System HD

Io – 8k surface map

Author	Robert Skuridin "PBC"	
Source	Voyager, Galileo	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 8192x4096, effective resolution ~1.4 km/pix. Solar System HD: 8192x4096 (6x2048x2048), ~1.4 km/pix.	
Note	Colorized surface albedo map.	
Files	Io-Surface-PBC-8k.pak	37.5 MB, Solar System HD

Io – 8k lights map

Author	Vladimir Romanyuk "SpaceEngineer"	
Source	Voyager, Galileo	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 2048x1024, effective resolution ~5.6 km/pix. Solar System HD: 8192x4096 (6x2048x2048), ~1.4 km/pix.	
Note	Fake (artistically made) volcano emission map.	
Files	Io-Lights-SE-8k.pak	495 kB, Solar System HD

Europa – 16k elevation map

Author	Vladimir Romanyuk "SpaceEngineer"	
Source	Voyager, Galileo	
Format	Cubemap, PAK files with lossless 8-bit grayscale PNG images.	
Resolution	Original dataset: 16384x8192, effective resolution ~0.6 km/pix. Solar System HD: 16384x8192 (6x4096x4096), ~0.6 km/pix.	
Note	Fake (artistically made) elevation map.	
Files	Europa-Bump-fake-SE-16k.pak	67.6 MB, Solar System HD

Europa – 16k surface map

Author	John van Vliet	
Source	Voyager, Galileo	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 16384x8192, effective resolution ~0.6 km/pix. Solar System HD: 16384x8192 (6x4096x4096), ~0.6 km/pix.	
Note	Colorized surface albedo map.	
Files	Europa-Surface-PBC-16k.pak	175 MB, Solar System HD

Ganymede – 16k elevation map

Author	Vladimir Romanyuk "SpaceEngineer"	
Source	Voyager, Galileo	
Format	Cubemap, PAK files with lossless 8-bit grayscale PNG images.	
Resolution	Original dataset: 16384x8192, effective resolution ~1.0 km/pix. Solar System HD: 16384x8192 (6x4096x4096), ~1.0 km/pix.	
Note	Fake (artistically made) elevation map.	
Files	Ganymede-Bump-fake-SE-16k.pak	53.3 MB, Solar System HD

Ganymede – 16k surface map

Author	Robert Skuridin "PBC"	
Source	Voyager, Galileo	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 16384x8192, effective resolution ~1.0 km/pix. Solar System HD: 16384x8192 (6x4096x4096), ~1.0 km/pix.	
Note	Colorized surface albedo map.	
Files	Ganymede -Surface-PBC-16k.pak	136 MB, Solar System HD

Callisto – 16k elevation map

Author	Vladimir Romanyuk "SpaceEngineer"	
Source	Voyager, Galileo	
Format	Cubemap, PAK files with lossless 8-bit grayscale PNG images.	
Resolution	Original dataset: 16384x8192, effective resolution ~0.9 km/pix. Solar System HD: 16384x8192 (6x4096x4096), ~0.9 km/pix.	
Note	Fake (artistically made) elevation map.	
Files	Callisto-Bump-fake-SE-16k.pak	57.0 MB, Solar System HD

Callisto – 16k surface map

Author	John van Vliet	
Source	Voyager, Galileo	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 16384x8192, effective resolution ~0.9 km/pix. Solar System HD: 16384x8192 (6x4096x4096), ~0.9 km/pix.	
Note	Colorized surface albedo map.	
Files	Callisto -Surface-JVV-16k.pak	158 MB, Solar System HD

Saturn – 4k surface map

Author	Björn Jönssen	
Source	Voyager, Cassini	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 4096x2048, effective resolution ~92 km/pix. Solar System HD: 4096x2048 (6x1024x1024), ~92 km/pix.	
Note	Replaces default textures with lossless PNG.	
Files	Saturn-Surface-BJ-8k.pak	6.6 MB, Solar System HD

Mimas – 4k elevation map

Author	Vladimir Romanyuk "SpaceEngineer"	
Source	Cassini	
Format	Cubemap, PAK files with lossless 8-bit grayscale PNG images.	
Resolution	Original dataset: 512x256, effective resolution ~4.8 km/pix. Solar System HD: upscaled to 4096x2048 (6x1024x1024), ~0.6 km/pix.	
Note	Fake (artistically made) elevation map.	
Files	Mimas-Bump-fake-SE-4k.pak	2.7 MB, Solar System HD

Mimas – 8k surface map

Author	Robert Skuridin "PBC"	
Source	Cassini	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 8192x4096, effective resolution ~0.3 km/pix. Solar System HD: 8192x4096 (6x2048x2048), ~0.3 km/pix.	
Note	Colorized surface albedo map.	
Files	Mimas-Surface-PBC-16k.pak	28.5 MB, Solar System HD

Enceladus – 16k surface map

Author	Robert Skuridin "PBC"	
Source	Cassini	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 16384x8192, effective resolution ~0.4 km/pix. Solar System HD: 16384x8192 (6x4096x4096), ~0.4 km/pix.	
Note	Colorized surface albedo map.	
Files	Enceladus-Surface-PBC-16k.pak	180 MB, Solar System HD

Tethys – 16k surface map

Author	Robert Skuridin "PBC"	
Source	Cassini	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 16384x8192, effective resolution ~0.8 km/pix. Solar System HD: 16384x8192 (6x4096x4096), ~0.8 km/pix.	
Note	Colorized surface albedo map.	
Files	Tethys-Surface-PBC-16k.pak	156 MB, Solar System HD

Dione – 16k surface map

Author	Robert Skuridin "PBC"	
Source	Cassini	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 16384x8192, effective resolution ~1.2 km/pix. Solar System HD: 16384x8192 (6x4096x4096), ~1.2 km/pix.	
Note	Colorized surface albedo map.	
Files	Dione-Surface-PBC-16k.pak	134 MB, Solar System HD

Rhea – 16k surface map

Author	Robert Skuridin "PBC"	
Source	Cassini	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 16384x8192, effective resolution ~0.4 km/pix. Solar System HD: 16384x8192 (6x4096x4096), ~0.4 km/pix.	
Note	Colorized surface albedo map.	
Files	Rhea-Surface-PBC-16k.pak	151 MB, Solar System HD

Titan – 16k elevation map

Author	Vladimir Romanyuk "SpaceEngineer"	
Source	Cassini	
Format	Cubemap, PAK files with lossless 8-bit grayscale PNG images.	
Resolution	Original dataset: 16384x8192, effective resolution ~1.0 km/pix. Solar System HD: 16384x8192 (6x4096x4096), ~1.0 km/pix.	
Note	Fake (artistically made) elevation map. Polar regions with seas and lakes are made using high-resolution imagery from Cassini SAR, rest is the grayscaled surface map at 8k resolution. Replaces default textures with lossless PNG.	
Files	Titan-Bump-fake-SE-16k.pak	14.1 MB, Solar System HD

Titan – 8k surface map

Author	Vladimir Romanyuk "SpaceEngineer"	
Source	Cassini	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 8192x4096, effective resolution ~2.0 km/pix. Solar System HD: 8192x4096 (6x2048x2048), ~2.0 km/pix.	
Note	Colorized infrared surface map.	
Files	Titan-Surface-SE-8k.pak	31.0 MB, Solar System HD

Hyperion – 2k surface map

Author	John van Vliet	
Source	Cassini	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 2048x1024, effective resolution ~16 km/pix. Solar System HD: 2048x1024 (6x512x512), ~2.0 km/pix.	
Note	Colorized surface albedo map. Replaces default textures with lossless PNG.	
Files	Hyperion-Surface-JVV-2k.pak	3.5 MB, Solar System HD

Iapetus – 2k surface map

Author	Tristan Audam "Voekoevaka"	
Source	Cassini	
Format	Cubemap, PAK files with lossless 8-bit grayscale PNG images.	
Resolution	Original dataset: 2048x1024, effective resolution ~2.24 km/pix. Solar System HD: 2048x1024 (6x512x512), ~2.24 km/pix.	
Note	Fake elevation map. Replaces default textures with lossless PNG.	
Files	Iapetus-Bump-fake-VO-2k.pak	794 kB, Solar System HD

Iapetus – 16k surface map

Author	Robert Skuridin "PBC"	
Source	Cassini	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 16384x8192, effective resolution ~0.28 km/pix. Solar System HD: 16384x8192 (6x4096x4096), ~0.28 km/pix.	
Note	Colorized surface albedo map.	
Files	lapetus-Surface-PBC-16k.pak	91.1 MB, Solar System HD

Triton – 16k surface map

Author	Alexander Kiryushenko "Dizel777"	
Source	Voyager 2	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 16384x8192, effective resolution ~0.52 km/pix. Solar System HD: 16384x8192 (6x4096x4096), ~0.52 km/pix.	
Note	Colorized surface albedo map. Fake (artistically-painted) northern hemisphere, which was never imaged by spacecraft.	
Files	Triton-Surface-DI-16k.pak	146 MB, Solar System HD

Pluto – 8k surface map

Author	"Snowfall"	
Source	New Horizons	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 8192x4096, effective resolution ~0.91 km/pix. Solar System HD: 8192x4096 (6x2048x2048), ~0.91 km/pix.	
Note	Colorized surface albedo map. Replaces default textures with lossless PNG.	
Files	Pluto-Surface-HD-8k.pak	27.7 MB, Solar System HD

Charon – 4k surface map

Author	"Snowfall"	
Source	New Horizons	
Format	Cubemap, PAK files with lossless 24-bit color PNG images.	
Resolution	Original dataset: 4096x2048, effective resolution ~0.93 km/pix. Solar System HD: 4096x2048 (6x1024x1024), ~0.93 km/pix.	
Note	Colorized surface albedo map. Replaces default textures with lossless PNG.	
Files	Charon-Surface-HD-4k.pak	4.2 MB, Solar System HD