

Phaeton

Phaeton is the second planet in the [Murf](#) system. It is habitable with comfortable gravity and a cool climate.

Planetary Details

- Radius: 6119.42 km (0.96 x earth)
- Surface Area: $4.71 \times 10^8 \text{ km}^2$
- Land Area: $2.40 \times 10^8 \text{ km}^2$ (1.61 x earth)
- Mass: $5.62 \times 10^{24} \text{ kg}$ (0.94 x earth)
- Density: 5.86 g/cm^3 (1.06 x earth)
- Composition: 28.9% oxygen, 28.3% iron, 17.8% magnesium, 11.5% silicon, 13.5% other metals, trace other elements
- Gravity: 9.97 m/s² (1.02 x earth)
- Escape Velocity: 11.05 km/s
- Period: 37.34 hours
- Axis Tilt: 34.59 °
- Hydrosphere: Water 50 %, Ice 21 %

Gateway Spaceport

This small, abandoned starport was once owned by a corporation and had a population of 128. In addition the landing area it still has a crane system and a set of carts on rails that lead to a set of warehouses, repair facilities, a small hospital, a bed and breakfast, and a [Coffee](#) shop...all left behind when the company pulled out in [YE 36](#) due to lack of business.

Overall the starport is like a dance club in appearance, with glowing lines and black ceilings. The power systems are still running (but in standby mode). Sometimes the abandoned starport is used by [pirates](#) who aren't marked as hostile by the Star Army, which defends the star system. They are very careful not to arouse Yamatai's suspicions or ire.

Star Army Facilities

There used to be a [Frontier Fort](#) on Phaeton, but the Star Army packed it up and took it away to [Talori](#) in [YE 38](#), leaving only a [Frontier Starport](#) for [Star Army of Yamatai](#) vessels. It is named [Fort Phaeton](#).

Osman Heavy Industries Facilities

In [YE 41](#), [Osman Heavy Industries](#) set up a headquarters on Phaeton, rapidly constructing a small corporate city known as New Tyben. This city houses the company's workers and their families, as well as serves as the transit hub for the company's cargo to and from the planet.

New Tyben is adjacent, relatively speaking, to Osman Heavy Industries' main factory complex, which produces the majority of the company's large products.

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