

# Occhestia System

System located to the stellar north, just beyond sixty light-years away from [Yamatai Star System](#). Serves as the location of the primary colony of the Lorath [Occhestians](#).

## System Data

### Star

- Occhestia
- Type: K1 IV Orange Sub-giant
- Radius:  $1.93 \times 10^6$  km (2.78 x sol)
- Mass:  $2.73 \times 10^{30}$  kg (1.37 x sol)
- Temperature: 4700 K
- Luminosity:  $3.21 \times 10^{27}$  W (8.37 x sol)

### Planetary Bodies

#### Occhestia I

- Type: Rock Planet
- Orbital Radius:  $1.73 \times 10^8$  km (1.16 AU)
- Period:  $9.30 \times 10^3$  hours (1.06 earth years)
- Gravity:  $2.96$  m/s<sup>2</sup> (0.30 x earth)
- Special Features: Large moon.
- Settlements: Mining facilities.

#### Occhestia II

- Type: Rock Planet
- Orbital Radius:  $3.07 \times 10^8$  km (2.05 AU)
- Period:  $2.19 \times 10^4$  hours (2.51 earth years)
- Gravity:  $3.01$  m/s<sup>2</sup> (0.31 x earth)
- Special Features: 3 small moons, planetary rings
- Settlements: Military Proving Grounds

#### Occhestia III

- Type: Terrestrial World
- Orbital Radius:  $4.76 \times 10^8$  km (3.18 AU)

- Period: 4.23 x 10<sup>4</sup> hours (4.84 earth years)
- Core Composition: Iron / Silica
- Gravity: 6.58 m/s<sup>2</sup> (0.67 x earth)
- Hydrosphere: 65 % water, 22 % ice
- Atmosphere: Breathable
- Special Features: 2 small moons
- Settlements: Primary Occhestian colony, highly developed cities.

## Occhestia IV

- Type: Ice Planet
- Orbital Radius: 1.12 x 10<sup>9</sup> km (7.47 AU)
- Period: 3.27 x 10<sup>5</sup> hours (37.37 earth years)
- Gravity: 11.27 m/s<sup>2</sup> (1.15 x earth)
- Settlements: Terra-forming stations, temperature regulated colony domes

## Occhestia V

- Type: Gas Giant
- Orbital Radius: 1.32 x 10<sup>9</sup> km (8.82 AU)
- Period: 3.81 x 10<sup>5</sup> hours (43.58 earth years)
- Gravity: 31.98 m/s<sup>2</sup> (3.27 x earth)
- Special Features: Planetary rings, 20 small moons, 6 large moons
- Settlements: Gas harvesting plant, shipyards.

## Occhestia VI

- Type: Gas Giant
- Orbital Radius: 2.89 x 10<sup>9</sup> km (19.29 AU)
- Period: 1.21 x 10<sup>6</sup> hours (138.53 earth years)
- Gravity: 9.27 m/s<sup>2</sup> (0.95 x earth)
- Special Features: 12 small moons, 4 large moons
- Settlements: Gas harvesting plant, scientific outpost, military observation and defense outpost

## Occhestia VII

- Type: Gas Giant
- Orbital Radius: 5.75 x 10<sup>9</sup> km (38.42 AU)
- Period: 3.40 x 10<sup>6</sup> hours (389.38 earth years)
- Gravity: 15.95 m/s<sup>2</sup> (1.63 x earth)
- Special Features: 19 small moons, 5 large moons
- Settlements: Military research facility and patrol outpost, [Lorath Self Defense Force](#) Military Outpost.

## Other Orbiting Bodies

### Asteroid Belt

- Primary Composition: Ice
- Orbital Radius:  $1.03 \times 10^9$  km (6.90 AU)
- Period:  $2.87 \times 10^5$  hours (32.85 earth years)

### Asteroid Belt II

- Primary Composition: Solid Minerals
- Orbital Radius:  $2.42 \times 10^{10}$  km (162.02 AU)
- Period:  $2.95 \times 10^7$  hours (3372.55 earth years)
- Special Feature: Occhestian defensive meson-cannon batteries mixed in with asteroids

## OOC Notes

This page was originally created on 2012/10/12 20:00 by [DocTomoe](#).

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Last update: **2023/12/20 18:22**

