

# EX-7 Xanthe

One of the [Elysian Expansion Star Systems](#).

## Star System

### Star Data

- Type M0 V Red Dwarf
- Radius  $2.66 \times 10^5$  km (0.38 x sol)
- Mass  $5.23 \times 10^{29}$  kg (0.26 x sol)
- Temperature 3300 K
- Luminosity  $1.57 \times 10^{25}$  W (0.04 x sol)

### I

- Type Terrestrial World
- Orbital Radius  $2.58 \times 10^7$  km (0.17 AU)
- Period  $1.22 \times 10^3$  hours (0.14 earth years)
- Physics Large metallic
- Hydrosphere 2 % water, 5 % ice
- Atmosphere Dense breathable
- Biosphere Prokaryotic microbes
- Special 5 small moons, heavy radiation

### II

- Type Rock Planet
- Orbital Radius  $4.70 \times 10^7$  km (0.31 AU)
- Period  $3.00 \times 10^3$  hours (0.34 earth years)
- Gravity  $8.93 \text{ m/s}^2$  (0.91 x earth)
- Special Advanced alien artifact

### III

- Type Rock Planet
- Orbital Radius  $6.86 \times 10^7$  km (0.46 AU)
- Period  $5.29 \times 10^3$  hours (0.61 earth years)
- Gravity  $2.64 \text{ m/s}^2$  (0.27 x earth)

## IV

- Type Rock Planet
- Orbital Radius  $1.15 \times 10^8$  km (0.77 AU)
- Period  $1.14 \times 10^4$  hours (1.31 earth years)
- Gravity  $15.11 \text{ m/s}^2$  (1.54 x earth)

## V

- Type Ice Planet
- Orbital Radius  $2.12 \times 10^8$  km (1.42 AU)
- Period  $2.88 \times 10^4$  hours (3.30 earth years)
- Gravity  $3.21 \text{ m/s}^2$  (0.33 x earth)

## VI

- Type Ice Planet
- Orbital Radius  $4.03 \times 10^8$  km (2.69 AU)
- Period  $7.52 \times 10^4$  hours (8.61 earth years)
- Gravity  $13.96 \text{ m/s}^2$  (1.43 x earth)

## VII

- Type Asteroid Belt
- Orbital Radius  $7.58 \times 10^8$  km (5.07 AU)
- Period  $1.95 \times 10^5$  hours (22.25 earth years)

## VIII

- Type Ice Planet
- Orbital Radius  $1.59 \times 10^9$  km (10.65 AU)
- Period  $5.93 \times 10^5$  hours (67.78 earth years)
- Gravity  $10.27 \text{ m/s}^2$  (1.05 x earth)
- 5 small moons

# Planetary

## Physics

- Type Large metallic

- Radius 9288.29 km (1.46 x earth)
- Surface Area  $1.08 \times 10^9 \text{ km}^2$
- Land Area  $1.07 \times 10^9 \text{ km}^2$  (7.21 x earth)
- Mass  $2.14 \times 10^{25} \text{ kg}$  (3.58 x earth)
- Density  $6.38 \text{ g/cm}^3$  (1.16 x earth)
- Composition 34.0% iron, 19.6% nickel, 19.4% oxygen, 10.1% silicon, 16.8% other metals, trace other elements

## Gravimetry

- Gravity  $16.49 \text{ m/s}^2$  (1.69 x earth)
- Escape Velocity 17.50 km/s
- Rotation
- Period 18.82 hours
- Axis Tilt  $15.30^\circ$

## Hydrosphere

- Water 2 %
- Ice 5 %

## Atmosphere

- Type Dense breathable
- Pressure 284.74 kPa (2.81 x earth)
- Composition 77.3% nitrogen, 22.7% oxygen, trace other gases

## Climate

- Type Standard
- Min Temp 268 K (-4 °C)
- Avg Temp 295 K (21 °C)
- Max Temp 298 K (25 °C)

## Biosphere

- Chemistry Carbon
- Lifeforms Prokaryotic microbes

## Notable Features

- 5 small moons, heavy radiation

<b>Places of the SARPiverse</b>
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<b>Place Categories</b>	star system
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