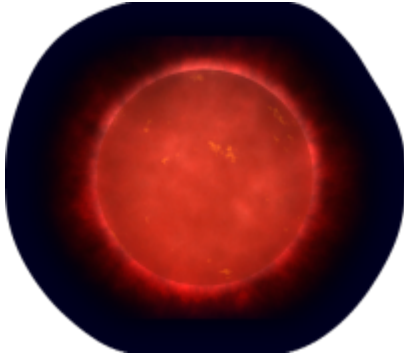


# EX-4 Asteu

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

## Star Data



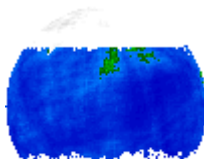
- M7 V Red Dwarf
- Radius  $2.95 \times 10^5$  km (0.42 x sol)
- Mass  $7.10 \times 10^{29}$  kg (0.36 x sol)
- Temperature 2400 K
- Luminosity  $1.56 \times 10^{25}$  W (0.04 x sol)

I



- Rock Planet
- Orbital Radius  $1.77 \times 10^7$  km (0.12 AU)
- Period  $5.94 \times 10^2$  hours (0.07 earth years)
- Gravity 0.49 m/s<sup>2</sup> (0.05 x earth)

II



- Terrestrial World
- Orbital Radius  $3.78 \times 10^7$  km (0.25 AU)
- Period  $1.85 \times 10^3$  hours (0.21 earth years)
- Physics Standard ocean
- Hydrosphere 79 % water, 64 % ice
- Atmosphere Dense toxic
- Biosphere Microbes, algae, worms

## Physics

- Type Standard ocean
- Radius 5747.12 km (0.90 x earth)
- Surface Area  $4.15 \times 10^8$  km<sup>2</sup>
- Land Area  $9.13 \times 10^7$  km<sup>2</sup> (0.61 x earth)
- Mass  $4.04 \times 10^{24}$  kg (0.68 x earth)
- Density 5.08 g/cm<sup>3</sup> (0.92 x earth)
- Composition 43.4% iron, 33.5% oxygen, 23.1% silicon, trace other elements

## Gravimetry

- Gravity 8.13 m/s<sup>2</sup> (0.83 x earth)
- Escape Velocity 9.67 km/s

## Rotation

- Period 24.73 hours
- Axis Tilt 9.61 °

## Hydrosphere

- Water 79 %
- Ice 64 %

## Atmosphere

- Type Dense toxic
- Pressure 144.01 kPa (1.42 x earth)
- Composition 67.2% sulfur dioxide, 25.7% nitrogen, 7.1% methane, trace other gases

## Climate

- Very cold

- Min Temp 219 K (-53 °C)
- Avg Temp 270 K (-2 °C)
- Max Temp 349 K (76 °C)

## Biosphere

- Chemistry Carbon
- Lifeforms Microbes, algae, worms

## III



- Rock Planet
- Orbital Radius  $5.84 \times 10^7$  km (0.39 AU)
- Period  $3.57 \times 10^3$  hours (0.41 earth years)
- Gravity 12.56 m/s<sup>2</sup> (1.28 x earth)
- Trace atmosphere

## IV



- Asteroid Belt
- Orbital Radius  $1.01 \times 10^8$  km (0.68 AU)
- Period  $8.15 \times 10^3$  hours (0.93 earth years)

|                                 |
|---------------------------------|
| <b>Places of the SARPiverse</b> |
|---------------------------------|

|                         |             |
|-------------------------|-------------|
| <b>Place Categories</b> | star system |
|-------------------------|-------------|

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