

EX-1 Keren

Keren is an important adopted homeworld of the [Elysians](#). It is located in grid 1016 on the [Kikyo Sector](#) map.



History

When the central government attempted to colonize this system in [YE 30](#), they were surprised to discover that there were already 144,000 Elysians living on Keren. These Elysians had secretly moved to Keren during the Elysian exodus from Yamatai to Veritas around and before [YE 16](#).

In [YE 34](#), the [Star Army of Yamatai](#) built the [Elysian Naval Arsenal](#) on Keren III.

The [Yamatai Star Empire](#) placed a global communications network of [Emrys Satellites](#) into orbit in [YE 36](#). Civilian cargo shipping is primarily provided by [Trinary Star Shipping](#), which has storefronts in all of the planet's major cities.

Star System Data

Star EX-1

- Type A8 III White Giant
- Radius 7.38 x 10⁶ km (10.61 x sol)
- Mass 7.59 x 10³⁰ kg (3.82 x sol)
- Temperature 7900 K
- Luminosity 5.12 x 10²⁸ W (133.83 x sol)

I

- Rock Planet

- Orbital Radius 6.54×10^8 km (4.37 AU)
- Period 4.09×10^4 hours (4.68 earth years)
- Gravity 10.10 m/s^2 (1.03 x earth)
- Electromagnetic storms

II

- Rock Planet
- Orbital Radius 1.05×10^9 km (7.02 AU)
- Period 8.32×10^4 hours (9.52 earth years)
- Gravity 5.58 m/s^2 (0.57 x earth)

Keren

- Type Terrestrial World
- Orbital Radius 1.55×10^9 km (10.38 AU)
- Period 1.50×10^5 hours (17.12 earth years)
- Physics Large iron/silicate
- Hydrosphere 59 % water, 16 % ice
- Atmosphere Dense breathable
- Biosphere Prokaryotic microbes
- Civilization Colony
- Special 2 small moons, 5 small moons

IV

- Rock Planet
- Orbital Radius 2.24×10^9 km (14.96 AU)
- Period 2.59×10^5 hours (29.62 earth years)
- Gravity 15.82 m/s^2 (1.62 x earth)
- Advanced alien artifact, trace atmosphere

V

- Rock Planet
- Orbital Radius 3.72×10^9 km (24.84 AU)
- Period 5.54×10^5 hours (63.35 earth years)
- Gravity 16.98 m/s^2 (1.74 x earth)
- 3 small moons

VI

- Asteroid Belt

- Orbital Radius 6.65×10^9 km (44.44 AU)
- Period 1.33×10^6 hours (151.65 earth years)

VII

- Type Ice Planet
- Orbital Radius 1.35×10^{10} km (89.93 AU)
- Period 3.82×10^6 hours (436.45 earth years)
- Gravity 14.78 m/s^2 (1.51 x earth)
- Special Electromagnetic storms

VIII

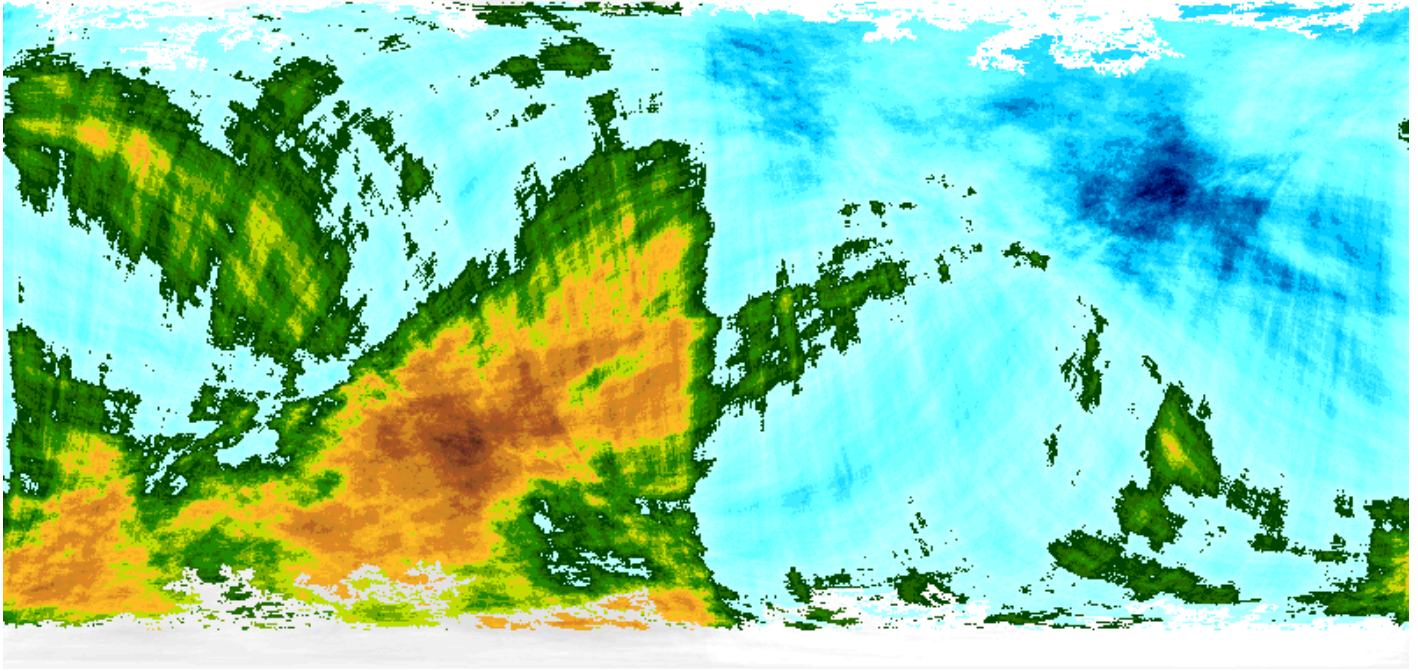
- Type Ice Planet
- Orbital Radius 2.94×10^{10} km (196.54 AU)
- Period 1.23×10^7 hours (1410.19 earth years)
- Gravity 10.04 m/s^2 (1.03 x earth)
- Special 3 small moons

Distant Companion Star

- Type M1 V Red Dwarf
- Distance 1.46×10^{11} km (978.81 AU)
- Radius 2.90×10^5 km (0.42 x sol)
- Mass 6.73×10^{29} kg (0.34 x sol)
- Temperature 3300 K
- Luminosity 2.12×10^{25} W (0.06 x sol)

Planetary Data

Keren



Physics

- Type Large iron/silicate
- Radius 8774.34 km (1.38 x earth)
- Surface Area $9.67 \times 10^8 \text{ km}^2$
- Land Area $4.06 \times 10^8 \text{ km}^2$ (2.73 x earth)
- Mass $1.61 \times 10^{25} \text{ kg}$ (2.69 x earth)
- Density 5.68 g/cm^3 (1.03 x earth)
- Composition 45.0% iron, 27.7% oxygen, 13.0% silicon, 8.6% nickel, 2.2% other metals, 3.5% other elements

Gravimetry

- Gravity 13.86 m/s² (1.42 x earth)
- Escape Velocity 15.60 km/s

Rotation

- Period 30.07 hours
- Axis Tilt 28.26 °

Hydrosphere

- Water 59 %

- Ice 16 %

Atmosphere

- Type Dense breathable
- Pressure 162.90 kPa (1.61 x earth)
- Composition 80.0% argon, 20.0% oxygen, trace other gases

Climate

- Type Cool
- Min Temp 228 K (-44 °C)
- Avg Temp 287 K (14 °C)
- Max Temp 295 K (22 °C)
- Biosphere
- Chemistry Carbon
- Lifeforms Prokaryotic microbes

Civilization

- Type Colony
- Population 144000
- Society Theocracy
- Tech Level Interplanetary (nuclear fusion, space colonies, nanotechnology)
- Special
- Features 2 small moons, 5 small moons

Places of the SARPiverse

Place Categories	star system
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