Star System E-8 "Ta'riel"

E-8 is an uninhabited star system.

History

It was formerly claimed by the United Outer Colonies, but no colonization effort was actually made due to the intense electrogravitic forces caused by the binary sun systems, smashing many proto-planets and causing a dense collection of asteroid and meteor fields.

The system has since been delegated to the Lorath Matriarchy .

Star Information

- Type: Main Sequence Binary
- Class: F
- Radiation Output: Moderate

Planetary Information

E-8-I (Tarl'sa)

E-8-I orbits extremely close to the stars of the E-8 system, thus, the temperature on the surface of E-8-I approaches temperatures which would melt soft metals. Life is unsustainable on the surface of E-8-I without the use of artificial life support. Colonization: Ice has been found in the world's polar craters and has since been colonized. The crust has also been found rich in iron and magnesium silicates containing zinc and aluminium. The world's high iron deposits and proximity to the sun have allowed it to act as a natural electromagnet, producing electrical power to drive carbon/aluminium refinement systems on a massive scale as well as industrial research into electromagnetic systems.

- Type: Barren
- Size: Very Small
- Primary Composition: Iron, zinc, aluminum
- Atmosphere: None
- Moons: 0
- Climate: Extreme Heat

E-8-II (Ta'syuunn)

Due to many centuries of perpetual volcanic activity, E-8-II has developed a layer of atmospheric ash and dust which prevents light from its star to reach the interior atmosphere of the planet. Without much exposure to the light of the sun, E-8-II has developed a tundra-like climate which maintains a temperature below freezing at all times. Unadapted life is unsustainable on the surface without the use of artificial life support. Colonisation: Largely automated, E8II is widely used as a supply depot for the storage and maintenance of systems. Water extraction is a primary concern and as such, work has begun melting the planet and thinning its atmosphere, producing sulfur dioxide, large pure carbon reserves and liquid water with icy layers beneath which are to be melted down as time progresses. Its moon is used for refueling purposes.

- Type: Volcanic
- Size: Medium-Small
- Primary Composition: Nickel, tin, copper
- Atmosphere: Oxygen, carbon dioxide, carbon monoxide, sulfur
- Moons: 1 (tsa're)
- Climate: Frozen

E-8-III (Tskun)

E-8-III does not have an atmosphere friendly to life. What little atmosphere it does have is toxic to a majority of life… more so, there is very little of it. The geological state of the planet however is quite stable, despite the fact that the majority of loose rock on the surface of E-8-III would produce sizable quantities of sparks upon being ignited. Colonization: The world has been used as a bio-research facility due to the harsh nature of the outer environment making it especially easy to contain and secure subjects.

- Type: Barren
- Size: Medium-Small
- Primary Composition: Iron, magnesium, tin, nickel
- Atmosphere: Helium, chlorine, nitrogen, hydrogen
- Moons: 0
- Climate: Extreme heat

E-8-IV (Tsa'dere)

E-8-IV does not have an atmosphere in a traditional sense, in actuality, it is merely a massive sphere of liquid. At high altitudes, due to low gravity, the liquid begins to disperse, thus creating the illusion of an atmosphere. Unfortunately, this illusion is merely that, attempts to process the atmosphere by human-like life-forms would produce drowning effects due to the accumulation of liquid within the lungs of the individual who would be foolish enough to inhale the 'atmosphere'. Despite the lack of gaseous atmosphere, E-8-IV is quite friendly to life, and holds promise as an aquatic colony site.

Colonisation: Tsa'dere has since been colonised and is largely farmed for rare minerals and its vast water supply. A variety of aquatic life live here and are grown here as a means of preserving biodiversity.

- Type: Aquatic

- Size: Medium
- Primary Composition: Carbon, iron, silica, H2O
- Atmosphere: Hydrogen, oxygen, nitrogen
- Moons: 3
- Climate: Temperate

E-8-V (Tsar'Aeretha)

E-8-V is a gas giant which is completely inhospitable to life. Wind speeds at minimum are 900 kph. Atmospheric gases travel at velocities which reach speeds high enough to produce micro-fusion reactions, thus causing occasional releases of heat and light energy from the surface of the gas giant. It is probable that if E-8-V were to have additional mass, it could have potentially been a third sun for the E-8 system. Additionally, it is suspected that the quantity of naturally occurring Merimium in the interior liquid core of the gas giant serves as a stabilization material which prevents the star from igniting due to providing additional molecular stability.

Colonization: Publically, tsa'aertha is treated as a gas mining operation. Privately and in total secret, the large gas mining vessels diving into its core are being used to harvest magnetic monopoles, a complex electromagnetic phenomena essential for the operation of Lorath aetheric technology.

- Type: Gas Giant
- Size: Super Massive
- Primary Composition: Liquid iron, nickel, silica, titanium, palladium, silver, gold, platinum, nerimium.
- Atmosphere: Hydrogen, argon, neon, helium, oxygen, nitrogen, chlorine, sulfur, radon.
- Moons: 27
- Climate: Super Heated

E-8-VI (tsar'aerkana)

Quite an oddity, E-8-VI is capable of supporting life within its atmosphere, at least in the higher reaches where air pressure is not beyond the tolerances of a majority of life forms. Through the use of artificial means, E-8-VI could serve as an airborne colony for settlers. Colonisation: Tsar'aerkana's natural deposits of iron and natural magnetosphere are used to induction-drive vast gravitational centrifuges, keeping the beginnings of enormous separated cities up in its atmosphere. It is primarily a helium 3 mining operation in order to drive fission systems used in many large starships and to pre-store antimatter for specialist use as well as silicas used in the manufacture of civilian grade electronic systems.

- Type: Gas Giant
- Size: Very Large
- Primary Composition: Iron, silica, copper, zinc, tin
- Atmosphere: Oxygen, nitrogen, helium, hydrogen
- Moons: 17
- Climate: Temperate

E-8-VII

E-8-VII is the very model of the tragic failures which befall the formation of a universe. During the late stages of the formation of E-8-VII, a chemical reaction took place at the core of the planetoid, producing large quantities of unstable material. Upon the formation of a crust, pressures built within the core of the planet, until it triggered an explosive reaction, which effectively tore the planet apart. Now, E-8-VII exists as many planetoids scattered around a dense iron core which serves as the only lifeline which manages to hold together the floating continents, and atmosphere. Despite the cataclysmic disaster, E-8-VII still presents itself as a viable colony site. Colonisation: The iron core and natural magnetosphere are used in conjunction with artificial ozone to power civilian operations on this world. It is primarily used as a living habitat. It is particularly famous for its casinos which use mercury as a form of currency.

- Type: Malformed Planetoid
- Size: Large
- Primary Composition: Iron, copper, tin, silver, gold, mercury
- Atmosphere: Oxygen, nitrogen, hydrogen
- Moons: 57
- Climate: Varied

Inner Ring

Within the middle-section of the E-8 system is a ring of asteroids of various sizes, these asteroids present themselves as sources of raw materials, while some even present themselves as viable colony sites.

Outer Rim

The outer rim of E-8 is comprised of many small planetoids of various compositions, however, most of the planetoids are merely balls of common materials and ice.

OOC Notes

Authors unknown

Places of the SARPiverse	
Place Categories	star system