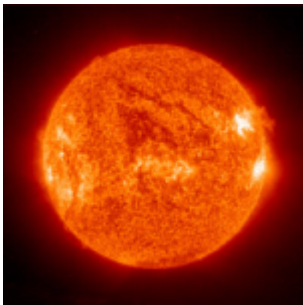


LM-NE-03

A star system in the northern section of the sector, it was surveyed and claimed by the [Lorath Matriarchy](#) in late [YE 34](#) but not colonized. During the unmanned survey and mapping of the system there was no evidence found of any civilization inhabiting the star system in the past. It was found however that the third and fourth planets are habitable enough for colonization.

Star



- Type: G2V Yellow Dwarf
- Stellar Mass: 1.05 solar masses
- Stellar Luminosity: 1.05
- Age: 2.322 billion years

Planets

LM-NE-03 I



A small airless rocky world that has the closest orbit in the system, it is more or less a lifeless barren cratered world with little of interest. At most it is estimated the planet may have a moderate yield of precursor ores for industrial exploitation.

Planet type	Tidally Locked, Airless, Low-G	
Distance from primary star	0.327 AU	
Mass	0.107 Earth masses	
Surface gravity	0.47 Earth gees	
Mean Surface temperature	196.0° Celcius	

Normal temperature range	Night: -170.8° C	Day: 398.4° C
Equatorial radius	3059.6 Km (0.48 Earth radii)	
Density	0.97 Earth densities	
Eccentricity of orbit	0.252	
Escape Velocity	5.3 Km/sec	
Axial tilt	22°	
Length of year	68.39 Earth days	
Length of day	980.72 hours	

LM-NE-04 II



Like its closer brother, the second planet has little to nothing of value and is more or less a hot lifeless rock.

Planet type	Tidally locked, airless	
Distance from primary star	0.597 AU	
Mass	0.410 Earth masses	
Surface gravity	0.73 Earth Gees	
Mean Surface temperature	74.3° Celcius	
Normal temperature range	Night: -227.9° C	Day:253.6° C
Equatorial radius	4763.1 Km (0.75 Earth Radii)	
Density	0.98 Earth densities	
Eccentricity of orbit	0.077	
Escape Velocity	8.3 Km/sec	
Axial tilt	20°	
Length of year	168.32 Earth days	
Length of day	4039.78 hours	

LM-NE-04 III



The third planet in the star system, it represents the most habitable with a warm hospitable world with a naturally occurring mild climate. The planet seems to be going through a warming phase with vast tropical jungles covering most of the planet far past the equator or what would even be considered temperate on most worlds. Both poles have small receding ice caps. Two fractured continental bodies compose the main landmasses along with vast tropical archipelagos.

Planet type	Terrestrial Habitable, Thick Breathable Atmosphere, Warm and Wet
Distance from primary star	0.951 AU
Mass	1.581 Earth masses
Surface gravity	1.17 Earth gees
Surface Pressure	2.498 Earth atmospheres
Mean Surface temperature	28.1° Celcius
Normal temperature range	Night: 23.2° C Day:32.7° C
Equatorial radius	7399.9 Km (1.2 Earth radii)
Density	1 Earth densities
Eccentricity of orbit	0.062
Escape Velocity	13.1 Km/sec
Atmospheric Gas Content	Nitrogen 83.9%, Oxygen 15.7%, Argon 0.4%
Axial tilt	15°
Length of year	338.58 Earth days
Length of day	14.48 hours
Hydrosphere percentage	83.4%
Cloud cover percentage	82.7%
Ice cover percentage	1.0%

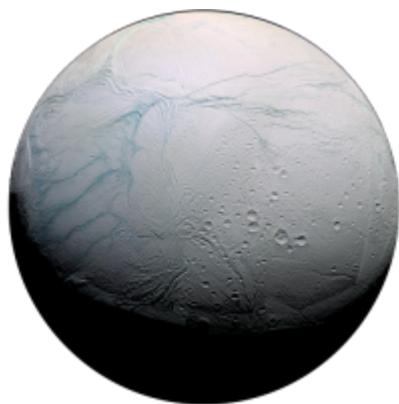
LM-NE-04 IV

Slightly cooler then the third planet, the fourth planet in the star system none the less features a breathable atmosphere. However unlike the third almost all of this planet's landmass is submerged beneath a vast ocean. A large number of island groups make up whats left of the planet's landmass. These islands seem to possess an arctic style ecosystem due to the planets further distance and as a result colder temperatures.

Planet type	Oceanic, Cold, Thick Breathable Atmosphere
Distance from primary star	1.548 AU
Mass	2.388 Earth masses

Surface gravity	1.36 Earth gees
Surface pressure	5.701 Earth atmospheres
Mean Surface temperature	8.3° Celcius
Normal temperature range	Night: -4.0° C Day:20.1° C
Equatorial radius	8448.6 Km (1.3 Earth radii)
Density	1 Earth densities
Eccentricity of orbit	0.016
Escape Velocity	15.0 Km/sec
Axial tilt	33°
Length of year	703.69 Earth days
Length of day	13.13 hours
Atmospheric Gas Content	Nitrogen 63.5%, Oxygen 36%, Trace gases
Hydrosphere Percentage	96.6%
Cloud Cover Percentage	45.3%
Ice Cover Percentage	4%

LM-NE-04 V

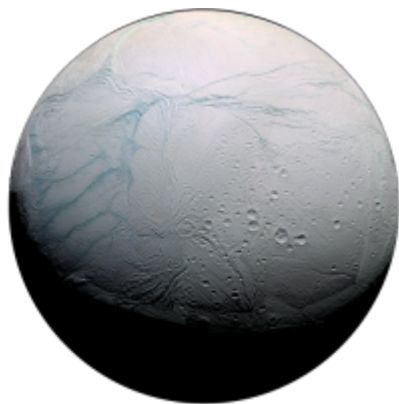


While it does have a significant atmosphere, the large presence of saturated hydrogen renders it unbreathable to normal humans. For the most part the fifth planet is nothing more than a large arid ball of ice.

Planet type	Cold, Icy, Arid, Cloudless
Distance from primary star	1.879 AU
Mass	1.172 Earth masses
Surface gravity	1.06 Earth gees
Surface pressure	1.374 Earth atmospheres
Mean Surface temperature	-100.8° Celcius
Normal temperature range	Night:-103.1° C Day:-98.7° C
Equatorial radius	6717.2 Km (1.1 Earth radii)
Density	1 Earth densities
Eccentricity of orbit	0.082
Escape Velocity	11.8 Km/sec
Axial tilt	28°
Length of year	940.75 Earth days

Length of day	14.90 hours
Atmospheric Gas Content	Nitrogen 60.5%, Hydrogen 20.2%, Oxygen 18.5%
Cloud Cover Percentage	0.2%
Ice Cover Percentage	100.0%

LM-NE-04 VI



Planet type	Cold, Icy, Arid, Cloudless
Distance from primary star	3.152 AU
Mass	1.146 Earth masses
Surface gravity	1.05 Earth gees
Surface pressure	1.314 Earth atmospheres
Mean Surface temperature	-140.5° Celcius
Normal temperature range	Night:-142.3° C Day:-138.8° C
Equatorial radius	6668.2 Km (1 Earth Radii)
Density	1 Earth densities
Eccentricity of orbit	0.009
Escape Velocity	11.7 Km/sec
Axial tilt	33°
Length of year	2043.52 Earth days
Length of day	14.95 hours
Atmospheric Gas Content	Nitrogen 40.5%, Hydrogen 38.2%, Oxygen 15.2%, Helium 7.05%
Ice Cover Percentage	100%

LM-NE-04 VII



Planet type	Jovian Gas Giant
Distance from primary star	4.746 AU
Mass	456.334 Earth masses
Equatorial radius	71953.7 Km (11 Earth Radii)
Density	0.32 Earth densities
Eccentricity of orbit	0.066
Escape Velocity	71.1 Km/sec
Axial tilt	19°
Length of year	3773.49 Earth days
Length of day	6.89 hours
Atmospheric Gas Content	Hydrogen, Helium, Nitrogen, Methane
Moons	8 Large, 10 Medium, 20 captured asteroids

LM-NE-04 VIII



Planet type	Jovian
Distance from primary star	11.882 AU
Mass	595.323 Earth masses
Equatorial radius	83935.7 Km (13 Earth radii)
Density	0.26 Earth densities
Eccentricity of orbit	0.061
Escape Velocity	75.2 Km/sec
Axial tilt	36°

Length of year	14945.79 Earth days
Length of day	7.04 hours
Atmospheric Gas Content	Hydrogen, Helium, Nitrogen, Methane
Moons	2 Large, 4 Medium, 10 captured asteroids

LM-NE-04 IX



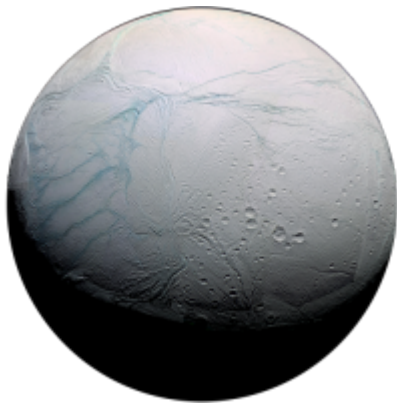
Planet type	Sub Jovian
Distance from primary star	16.282 AU
Mass	4.617 Earth masses
Equatorial radius	3.3 Earth radii
Density	0.13 Earth densities
Eccentricity of orbit	0
Escape Velocity	13.3 Km/sec
Axial tilt	25°
Length of year	23995.89 Earth days
Length of day	19.89 hours
Atmospheric Gas Content	Hydrogen, Helium, Nitrogen, Methane
Moons	3 Large, 1 medium, 5 captured asteroids

LM-NE-04 X



Planet type	Rocky Low-G, Cold, Airless
Distance from primary star	39.360 AU
Mass	0.109 Earth masses
Surface gravity	0.26 Earth gees
Mean Surface temperature	-231.2° Celcius
Normal temperature range	Night:-236.6° C Day:-225.8° C
Equatorial radius	4105.6 Km (0.64 Earth radii)
Density	0.41 Earth densities
Eccentricity of orbit	0.117
Escape Velocity	4.6 Km/sec
Axial tilt	46°
Length of year	90196.17 Earth days
Length of day	29.90 hours

LM-NE-04 XI



Planet type	Low-G, Cold, Icy, Arid, Cloudless, Unbreathably thin atmosphere
Distance from primary star	41.773 AU
Mass	0.570 Earth masses
Surface gravity	0.46 Earth gees
Surface pressure	0.081 Earth atmospheres
Mean Surface temperature	-231.2° Celcius
Normal temperature range	Night: -233.8° C Day:-228.7° C
Equatorial radius	7077.0 Km (1.1 Earth Radii)
Density	0.42 Earth densities
Eccentricity of orbit	0.004
Escape Velocity	8.0 Km/sec
Axial tilt	45°
Length of year	98613.70 Earth days
Length of day	22.50 hours
Atmospheric Gas Content	Trace amounts of hydrogen, helium, and nitrogen

Places of the SARPiverse

Place Categories	star system
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