Elysia Novus System

The Elysia Novus System is the solar system in which Elysia Novus is a planet, and as such is the capital system of the Elysian Celestial Empire

The Elysia Novus system was featured in the YSS Aeon RP[1)].

Planetary Overview:

Elysia Novus				
#	Type	Distance	Mass	Radius
1	Rock	0.377 AU	0.160 EM	0.548
2	Venusian	0.658 AU	0.782 EM	0.923 ER
3	Terran	0.999 AU	1.1 EM	0.983 ER
-	Asteroid belt	1.427 AU	0.005 EM	-
4	Sub-Jovian	1.661 AU	10.165 EM	3.408 ER
5	Ice	2.032 AU	0.871 EM	0.956 ER
6	Ice	3.631 AU	0.820 EM	0.937 ER
7	Sub-Jovian	4.721	4.150 EM	2.863 ER
8	Jovian	6.877 AU	816.638 EM	13.788 ER
-	Asteroid belt	14 AU	0.008 EM	-
9	Jovian	21.107 AU	39.441 EM	6.255 ER
10	Ice	42. 824 AU	0.506 EM	1.068 ER
-	Kuiper Belt	45-55 AU	0.1 EM	-
-	Termination Shock	100 AU	-	-
-	Heliosheath	100-200 AU	-	-
-	Bow Shock	250 AU	-	-
-	Inner Oort Cloud	55-20,000 AU	150 EM	-
-	Outer Oort Cloud	20-50,000 AU	5 EM	-

Planet 1: Herpro

Herpro	
Planet Type:	Rock
Tidally Locked:	1 Face
Description:	Hot, Airless, 1-Face
Distance from primary star:	5.6E+007 KM 0.377 AU
Mass:	0.160 Earth masses
Surface Gravity:	523.6 cm/sec2 0.53 Earth gees
Surface Pressure:	0 millibars, 0.000 Earth atmospheres
Surface temperature (Celcius):	163.8° Celcius, +269.6 °C Earth Temperature

Herpro	
Surface temperature (Fahrenheit):	326° Fahrenheit, +149.8 °F Earth Temperature
Normal temperature variation:	Min: -208.1°C, Max: 364.6° C
Equatorial radius:	3492.5km, 0.55 Earth Radii
Density:	5.36 grams/cc, 0.97 Earth densities
Eccentricity of orbit:	0.022
Escape Velocity:	6.0 Km/sec
Molecular weight retained:	152.3+
Axial tilt:	23°
Planetary albedo:	0.007
Exospheric Temperature:	8939.80° K, +7666.80 ° C Earth temperature
Length of Year:	84.67 Earth days 1.00 Local days
Length of Day:	2032.05 hours
Boiling point of Water:	-273.1° Celcius
Hydrosphere percentage:	0.0
Cloud cover percentage:	0.0
Ice cover percentage:	0.0

Planet 2: Hysiale

Hysiale	
Planet Type:	Venusian
Description:	Hot, Arid, Cloudy, Boiling ocean, Unbreathably thick atmosphere
Distance from primary star:	9.8E+007 KM, 0.658 AU
Mass:	4.7E+024Kg, 0.782 Earth masses
Surface Gravity:	900.1 cm/sec2, 0.92 Earth gees
Surface Pressure:	86814 millibars, 85.679 Earth atmospheres
Surface temperature (Celcius):	714.2° Celcius
Surface temperature (Fahrenheit):	1317.5° Fahrenheit
Normal temperature variation:	Min: 683.8° C, Max: 724.5° C
Equatorial radius:	5887.9 Km, 0.92 Earth radii
Density:	5.47 grams/cc, 0.99 Earth densities
Eccentricity of orbit:	0.072
Escape Velocity:	10.3 Km/sec
Molecular weight retained:	17.3 and above, H2O, Ne, N2, CO, NO, O2, H2S, Ar…
Axial tilt:	30°
Planetary albedo:	0.52
Exospheric Temperature:	2940.58° K, +1667.58° C Earth temperature
Length of Year:	194.94 Earth days, 14.15 Local days
Length of Day:	330.58 hours
Boiling point of Water:	283.3° Celcius
Hydrosphere percentage:	0.0
Cloud cover percentage:	100.0

Hysiale	
Ice cover percentage:	0.0

Planet 3: New Elysia

Main Article: Elysia Novus

Planet 4: Milel

Milel	
Planet Type:	Sub Jovian
Distance from primary star:	2.5E+008 KM, 1.661 AU
Mass:	6.1E+025Kg, 10.165 Earth masses (5.668 dust, 4.497 gas)
Equatorial radius:	21735.5 Km, 3.4 Earth radii
Density:	1.41 grams/cc, 0.26 Earth densities
Eccentricity of orbit:	0.069
Escape Velocity:	19.3 Km/sec
Molecular weight retained:	0.8 and above, H, H2, He, N, O, CH4, NH3, H2O...
Axial tilt:	15°
Planetary albedo:	0.47
Exospheric Temperature:	461.60° K, -811.40° C Earth temperature
Length of Year:	781.65 Earth days, 1344.18 Local days,2.14 Earth years
Length of Day:	13.96 hours

Planet 5: Joiane

Joiane	
Planet Type:	Ice
Description:	Cold, Icy, Arid, Cloudless, Normal atmosphere
Distance from primary star:	3E+008 KM, 2.032 AU
Mass:	5.2E+024Kg, 0.871 Earth masses
Surface Gravity:	934.1 cm/sec2, 0.95 Earth gees
Surface Pressure:	768 millibars, 0.758 Earth atmospheres
Surface temperature (Celcius):	-112.5° Celcius
Surface temperature (Fahrenheit):	-170.5° Fahrenheit
Normal temperature variation:	Min: -115.5° C, Max: 109.7° C
Equatorial radius:	6097.2 Km, 0.96 Earth radii
Density:	5.48 grams/cc, 0.99 Earth densities
Eccentricity of orbit:	0.033
Escape Velocity:	10.7 Km/sec
Molecular weight retained:	1.7 and above, H2, He, N, O, CH4, NH3, H2O, Ne...
Axial tilt:	22°

Joiane	
Planetary albedo:	0.70
Exospheric Temperature:	308.26° K, -964.74° C Earth temperature
Length of Year:	1058.11 Earth days, 1617.81 Local days, 2.90 Earth years
Length of Day:	15.70 hours
Boiling point of Water:	92.7° Celcius
Hydrosphere percentage:	0.0
Cloud cover percentage:	0.1
Ice cover percentage:	100.0

Planet 6: Itessar

Itessar	
Planet Type:	Ice
Description:	Cold, Icy, Arid, Cloudless, Normal atmosphere
Distance from primary star:	5.4E+008 KM, 3.631 AU
Mass:	4.9E+024Kg, 0.820 Earth masses
Surface Gravity:	914.7 cm/sec2, 0.93 Earth gees
Surface Pressure:	680 millibars, 0.671 Earth atmospheres
Surface temperature (Celcius):	-153.3° Celcius
Surface temperature (Fahrenheit):	-244.0° Fahrenheit
Normal temperature variation:	Min: -155.7° C, Max: 151.1° C
Equatorial radius:	5977.8 Km, 0.94 Earth radii
Density:	5.47 grams/cc, 0.99 Earth densities
Eccentricity of orbit:	0.100
Escape Velocity:	10.5 Km/sec
Molecular weight retained:	0.6 and above, H, H2, He, N, O, CH4, NH3, H2O...
Axial tilt:	41°
Planetary albedo:	0.70
Exospheric Temperature:	96.56° K, -1176.44° C Earth temperature
Length of Year:	2527.00 Earth days, 3827.00 Local days, 6.92 Earth years
Length of Day:	15.85 hours
Boiling point of Water:	89.5° Celcius
Hydrosphere percentage:	0.0
Cloud cover percentage:	0.1
Ice cover percentage:	99.4

Planet 7: Salo

Salo	
Planet Type:	Sub-Jovian
Distance from primary star:	7.1E+008 KM, 4.721 AU
Mass:	2.5E+025Kg, 4.150 Earth masses (2.445 EM Dust, 1.705 EM Gas)

Salo	
Equatorial radius:	18260.0 Km, 2.9 Earth radii
Density:	0.97 grams/cc, 0.18 Earth densities
Eccentricity of orbit:	0.143
Escape Velocity:	13.5 Km/sec
Molecular weight retained:	.2 and above, H, H2, He, N, O, CH4, NH3, H2O...
Axial tilt:	23°
Planetary albedo:	0.46
Exospheric Temperature:	57.11° K, -1215.89° C Earth temperature
Length of Year:	3747.13 Earth days, 4901.97 Local days, 10.26 Earth years
Length of Day:	18.35 hours

Planet 8: Deau

Deau	
Planet Type:	Jovian
Distance from primary star:	1E+009 KM, 6.877 AU
Mass:	4.9E+027Kg, 816.638 Earth masses (43.969 EM Dust, 772.669 EM Gas)
Equatorial radius:	87941.7 Km, 14 Earth radii
Density:	1.71 grams/cc, 0.31 Earth densities
Eccentricity of orbit:	0.045
Escape Velocity:	86.1 Km/sec
Molecular weight retained:	0.0 and above, H, H2, He, N, O, CH4, NH3, H2O...
Axial tilt:	29°
Planetary albedo:	0.47
Exospheric Temperature:	26.92° K, -1246.08° C Earth temperature
Length of Year:	6578.65 Earth days, 25067.90 Local days, 18.01 Earth years
Length of Day:	6.30 hours

Planet 9: Sysme

Sysme	
Planet Type:	Jovian
Distance from primary star:	3.2E+009 KM, 21.107 AU
Mass:	2.4E+026Kg, 39.441 Earth masses (6.547 EM Dust, 32.893 EM Gas)
Equatorial radius:	39895.5 Km, 6.3 Earth radii
Density:	0.89 grams/cc, 0.16 Earth densities
Eccentricity of orbit:	0.000
Escape Velocity:	28.1 Km/sec
Molecular weight retained:	0.0 and above, H, H2, He, N, O, CH4, NH3, H2O...
Axial tilt:	58°
Planetary albedo:	0.48
Exospheric Temperature:	2.86° K, -1270.14° C Earth temperature

Sysme	
Length of Year:	35417.41 Earth days, 65377.13 Local days, 96.97 Earth years
Length of Day3:	13.00 hours

Planet 10: Esilae

Esilae	
Planet Type:	Ice
Description:	Low-G, Cold, Icy, Arid, Cloudless, Unbreathably thin atmosphere
Distance from primary star:	6.4E+009 KM, 42.824 AU
Mass:	3E+024Kg, 0.506 Earth masses (0.437 EM dust, 0.070 gas)
Surface Gravity:	435.3 cm/sec2, 0.44 Earth gees
Surface Pressure:	65 millibars, 0.064 Earth atmospheres
Surface temperature (Celcius):	-231.9° Celcius
Surface temperature (Fahrenheit):	-385.4° Fahrenheit
Normal temperature variation:	Min: -234.7° C, Max: -229.1° C
Equatorial radius:	6811.5 Km, 1.1 Earth radii
Density:	2.29 grams/cc, 0.41 Earth densities
Eccentricity of orbit:	0.071
Escape Velocity:	7.7 Km/sec
Molecular weight retained:	0.0 and above, H, H2, He, N, O, CH4, NH3, H2O...
Axial tilt:	65°
Planetary albedo:	0.22
Exospheric Temperature:	0.69° K, -1272.31° C Earth temperature
Length of Year:	102360.77 Earth days, 106951.28 Local days, 280.24 Earth years
Length of Day:	22.97 hours
Boiling point of Water:	37.2° Celcius
Hydrosphere percentage:	0.0
Cloud cover percentage:	0.0
Ice cover percentage:	100.0

Map Locations	
Map to Use	Kikyo Sector
Map Display Name	Elysia Novus
Map Coordinates	1294,1563
Map Importance	Minor RP Location
Map Marker	
Show label?	yes
Marker Anchor	Bottom Center

Places of the SARPiverse

Places of the SARPiverse	
Place Categories	star system

1)

https://stararmy.com/roleplay-forum/index.php?threads/mission-1-2a-rescue-at-elysia-novus.4631/

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