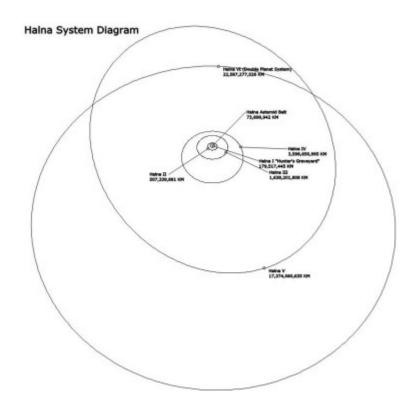
2024/06/01 17:24 1/12 Halna

Halna

Halna is a star system located in the territory of the Yamatai Star Empire.



Star Data



• Stellar Age: 2.6 Billion Years

Spectral Class: A7VMass: 2.225 solRadius: 1.896 solLuminosity: 16 sol

Halna is a massive, stable class A main sequence star that gives off intense bluish-white light.

Halna Asteroid Belt

Distance: 73,898,943 kmBelt Width: 2,678,297 km

Description: The first anomaly in the star system is a small asteroid field at roughly 0.5 AU from the star. The asteroids in this field are composed of a wide variety of elements, giving indications that the masses are the remains of a planet or planets that once orbited where the field exists. The largest of the asteroids max out around ten miles in diameter, though the field is quite full so many asteroids break up and recombine with others as they orbit, leaving tracking individuals quite difficult.

The asteroid belt's unusual proximity to the star is a subject of speculation. One theory is that the field of debris was once another modestly-sized terrestrial planet that was pulverized into dust by a spectacular collision, or perhaps pulled apart by gravitational perturbations caused by its massive neighboring planets. Many of the asteroids in this belt appear to be in a degrading orbit spiralling slowing into the star itself, giving rise to the theory that the belt was at one time perhaps much larger, and many of its original components were ejected from the system.

There is still a small handful of undetonated ordnance left from Freespacer Massacre and Related Battles drifting through the belt. They are not common, and difficult to happen upon by accident. In YE 36, the Concordia Veil discovered a the remains of an independent Hikari Mining Ship that had been destroyed by one such stray warhead, killing all but two of the crew. The wreck is still there, its entire bow section blown to pieces, which now circle the wreck in an irregular cloud of debris that circles the remaining parts of the ship. The wreck itself is tumbling on all three axes, drifting away from one of the more massive asteroids. On its current course, it is expected to drift into the Halna star by YE 62, assuming it does not collide with another asteroid before then.

Halna I "Graveyard"



Standard (Greenhouse)Distance: 179,517,445 km

Radius: 11,131 kmGravity: 1.92G

• Orbit Period: 321.64 days

Rotation: 33 hrsClimate: Infernal

• Mean Temp: 785K/512C

2024/06/01 17:24 3/12 Halna

• Atmosphere: Very Dense (Suffocating, Lethally Toxic, and Corrosive)

• Atmospheric Composition: 78.4% carbon dioxide, 19.63% sulfur dioxide, 1.97% trace gasses

 Planetary Composition: 31.1% iron, 27.9% nickel, 23.9% magnesium, 11.6% silicon, 5.0% other metals, 0.4% other elements

• Water / Ice Index: 0

Volcanic Activity: Moderate
Tectonic Activity: Light
Resource Value: Abundant
Habitability Value: -2

Description: Link to article

Satellites (1)

Halna I.1 - The Black Moon



• Tiny (Rock)

Distance: 327,393 kmRadius: 2,080 kmGravity: 0.42G

• Orbit Period: 9.32 days (0.6997 eccentricity)

Rotation: 8 hrsClimate: Infernal

• Mean Temp: 432K/159C

• Atmosphere: None

• Planetary Composition: 31.9% iron, 29.0% nickel, 10.8% carbon, 5.1% silicon, 4.2% other metals, 2.3% other elements

Water / Ice Index: 0
Volcanic Activity: None
Tectonic Activity: Light
Resource Value: Average
Habitability Value: +0

Description: Link to article

system:halna

Halna II "Agatha"



Small Gas Giant

• Distance: 507,339,881 km

Radius: 33,757 kmGravity: 1.11G

Orbit Period: 4.19 years
Rotation: 418.2 hrs
Mean Temp: 232K/-41C

Description: This modest-sized bluish-purple gas giant is the primary source of cheap hydrogen fuel and antimatter derivatives for the local colony, scooped from its upper atmosphere by independently contracted vessels. Fuel skimming is a delicate and dangerous process due to the planet's intense magnetic field and torrential atmospheric phenomenon, so only the most reckless or desperate pilots typically agree to such an operation. However, because there are always dozens of pilots that fit such a bill, the premiums paid for any material brought back to the Black Moon are usually fairly low.

The planet's powerful magnetic field and radiation keeps its moons blasted free of any traces of atmosphere, and makes mining operations on any of them too expensive to be profitable.

Satellites (9)

Halna II.1

Small body

Halna II.2

• Small (Rock)

Distance: 48,002 kmRadius: 2,860 kmGravity: 0.36G

• Orbit Period: 0.48 days

2024/06/01 17:24 5/12 Halna

Rotation: 0 hrsClimate: Cool

• Mean Temp: 281K/8C

• Atmosphere: Very Thin (No/Negligible Composition)

• Water / Ice Index: 0

Volcanic Activity: Moderate
Tectonic Activity: None
Resource Value: Poor
Habitability Value: +0

Halna II.3

• Tiny (Rock)

Distance: 86,688 kmRadius: 2,055 kmGravity: 0.16G

• Orbit Period: 0.86 days

Rotation: 0 hrsClimate: Frozen

• Mean Temp: 244K/-29C

• Atmosphere: Trace (No/Negligible Composition)

Water / Ice Index: 0
Volcanic Activity: None
Tectonic Activity: None
Resource Value: Very Poor
Habitability Value: +0

Halna II.4

• Tiny (Rock)

• Distance: 102,554 km

Radius: 721 kmGravity: 0.1G

• Orbit Period: 1.03 days

Rotation: 0 hrsClimate: Chilly

• Mean Temp: 275K/2C

• Atmosphere: None (No/Negligible Composition)

Water / Ice Index: 0
Volcanic Activity: None
Tectonic Activity: None
Resource Value: Poor
Habitability Value: +0

Halna II.5

• Tiny (Rock)

• Distance: 289,297 km

Radius: 134 kmGravity: 0.00G

• Orbit Period: 3.77 days

Rotation: 0 hrsClimate: Very ColdMean Temp: 253K/-20C

• Atmosphere: None (No/Negligible Composition)

Water / Ice Index: 0
Volcanic Activity: None
Tectonic Activity: None
Resource Value: Very Poor
Habitability Value: +0

Halna II.6

• Tiny (Rock)

• Distance: 1.637.214 km

Radius: 1,106 kmGravity: 0.24G

• Orbit Period: 44.31 days

Rotation: 39 hrsClimate: Cold

• Mean Temp: 262K/-11C

Atmosphere: None (No/Negligible Composition)

• Water / Ice Index: 0

Volcanic Activity: Moderate
Tectonic Activity: None
Resource Value: Average
Habitability Value: +0

Halna II.7

• Tiny (Rock)

• Distance: 2,118,589 km

Radius: 471 kmGravity: 0.03G

• Orbit Period: 64.77 days

Rotation: 47.3 hrsClimate: Very ColdMean Temp: 254K/-19C

• Atmosphere: None (No/Negligible Composition)

2024/06/01 17:24 7/12 Halna

Water / Ice Index: 0
Volcanic Activity: None
Tectonic Activity: None
Resource Value: Average
Habitability Value: +0

Halna II.8

• Tiny (Rock)

• Distance: 3,557,313 km

Radius: 3,229 kmGravity: 0.3G

• Orbit Period: 139.59 days

Rotation: -24 hrsClimate: Chilly

• Mean Temp: 272K/-1C

• Atmosphere: Trace (No/Negligible Composition)

• Water / Ice Index: 0

Volcanic Activity: Moderate
Tectonic Activity: None
Resource Value: Average
Habitability Value: +0

Halna II.9

• Tiny (Rock)

• Distance: 5,988,492 km

Radius: 641 kmGravity: 0.08G

• Orbit Period: 303.15 days

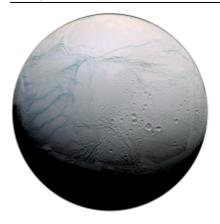
Rotation: 38 hrsClimate: Cold

• Mean Temp: 262K/-11C

• Atmosphere: None (No/Negligible Composition)

Water / Ice Index: 0
Volcanic Activity: None
Tectonic Activity: None
Resource Value: Average
Habitability Value: +0

Halna III



• Large (Ice)

• Distance: 1,638,201,808 km

Radius: 8,325 kmGravity: 1.04G

• Orbit Period: 24.29 years

Rotation: 43 hrsClimate: Frozen

Mean Temp: 158K/-115C

• Atmosphere: Superdense (Suffocating and Highly Toxic)

Water / Ice Index: 100
Volcanic Activity: Heavy
Tectonic Activity: Moderate
Resource Value: Average
Habitability Value: -2

Description: This planet is entirely shrouded in a thick, noxious atmosphere composed almost exclusively of helium and nitrogen. Its surface is a sheet of ice, predominantly made up of frozen "dirty water," with fault lines and craggy ice mountain ranges crisscrossing its jagged surface. Violent cryovolcanoes constantly spew crystalline geysers of water vapor and molten rock that instantly freezes to shards of crystal upon entry into the atmosphere, capable of shredding anything softer than steel into ribbons upon contact. It is remarkably similar to Halna IV, its "sister" planet.

Satellites (2)

Halna III.1

Small body

Halna III.2

• Tiny (Rock)

• Distance: 114,852 km

Radius: 136 kmGravity: 0.02G

2024/06/01 17:24 9/12 Halna

• Orbit Period: 3.71 days

Rotation: 0 hrsClimate: Frozen

• Mean Temp: 150K/-123C

• Atmosphere: None (No/Negligible Composition)

Water / Ice Index: 0
Volcanic Activity: None
Tectonic Activity: None
Resource Value: Average
Habitability Value: +0

Haina IV



• Large (Ice)

• Distance: 3,598,650,995 km

Radius: 7,379 kmGravity: 0.93G

• Orbit Period: 79.09 years

Rotation: 38 hrsClimate: Frozen

• Mean Temp: 125K/-148C

• Atmosphere: Superdense (Suffocating and Highly Toxic)

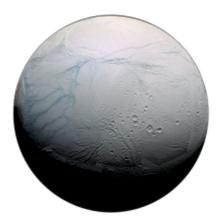
Water / Ice Index: 64.93
Volcanic Activity: Heavy
Tectonic Activity: Heavy
Resource Value: Average
Habitability Value: -1

Description: This planet is entirely shrouded in a thick, noxious atmosphere composed almost exclusively of helium and nitrogen. Its surface is a sheet of ice, predominantly made up of frozen "dirty water," with fault lines and craggy ice mountain ranges crisscrossing its jagged surface. Violent cryovolcanoes constantly spew crystalline geysers of water vapor and molten rock that instantly freezes to shards of crystal upon entry into the atmosphere, capable of shredding anything softer than steel into ribbons upon contact.

Its only notable difference from its sister planet Halna III is that it is markedly more tectonically active,

with an even geologically younger and markedly more mountainous surface with almost no plains or level areas to speak of. Building a permanent structure on its unstable surface would be foolish.

Halna V



• Large (Ice)

• Distance: 17,374,060,635 km

Radius: 3,624 kmGravity: 0.57G

• Orbit Period: 839.01 years

Rotation: -11 hrsClimate: Frozen

• Mean Temp: 49K/-224C

• Atmosphere: Very Thin (Suffocating and Highly Toxic)

Water / Ice Index: 28.5
Volcanic Activity: Light
Tectonic Activity: None
Resource Value: Poor
Habitability Value: +0

Description: A largely uninteresting ball of ice and rock with very mild cryovolcanism.

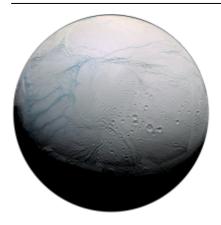
Halna VI

Double Planet System

Distance: 22,587,277,526 kmOrbit Period: 1243.69 years

Halna VIa

2024/06/01 17:24 11/12 Halna



• Large (Ice)

Radius: 5,722 km
Gravity: 0.9G
Rotation: -42 hrs
Climate: Frozen

• Mean Temp: 46K/-227C

• Atmosphere: Very Dense (Suffocating and Highly Toxic)

Water / Ice Index: 84.95
Volcanic Activity: Moderate
Tectonic Activity: Moderate
Resource Value: Average
Habitability Value: +1

Description: A planet very similar to Halna III and IV, with a markedly more stable planetary surface.

Halna VIb



• Large (Ice)

Radius: 4,978 kmGravity: 0.86GRotation: 30 hrsClimate: Frozen

• Mean Temp: 46K/-227C

• Atmosphere: Superdense (Suffocating and Highly Toxic)

Water / Ice Index: 83.91
Volcanic Activity: Moderate
Tectonic Activity: Light
Resource Value: Average
Habitability Value: +1

Description: A planet very similar to Halna III and IV, with a markedly more stable planetary surface.

Map Locations	
Map to Use	Kikyo Sector
Map Display Name	Halna
Map Coordinates	1694,1672
Map Importance	Minor RP Location
Show label?	yes
Marker Anchor	Bottom Center

Places of the SARPiverse
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