MASS EFFECT d20

EXPANDED UNIVERSE

CREDITS

Game Designer: João Paulo da Vinha Santos

Additional Contributions: Ricardo Freire da Silva, Olivier Brassard, Christopher Humphries, Tommy Rayburn, Javier Suarez, Bobby Weiss, Mathew Rodriguez, Robert Day, S. D. Kahler II, Yoav Beeri, Alice "Motoko" Michalak, Sergey Arseev

Cover Designer: Alice "Motoko" Michalak

Special Thanks

To the BioWare team that brought us one of the most amazing science-fiction universes and one of the best roleplaying games out there.

To all those who supported me and helped shaped this game with ideas, feedback and playtests.

Based on the Mass Effect RPG created by BioWare and on the d20 system rules.

This game would not be possible without the passion and dedication of gamers who helped playtest and develop it.
Thank you for all your time and effort.

Contents

Expanded ME Maps

This add-on provides a more extensive information about the Mass Effect universe in terms of maps and important locations on the Milky Way. It serves to provide a context on distances travelled and time spent moving around the galaxy. It is extremely useful for any campaign where the characters have their own ship.

It was created to be used as an information source for tabletop RPG campaigns that take place in the Mass Effect universe, namely the Mass Effect d20 game created by myself.

The following map provides an accurate reference for star clusters as well as the political division of the galaxy, prior to the events of Mass Effect 3.

Following the map are descriptions of star systems as well as the most important information on the various planets already presented in the ME1, ME2 and ME3 games.

The information here was taken from the game codex but a few corrections were made (for example in ME1 not every planet presented had Orbital Distance and various planet were considered as gas giants when they could have only been ice giants). Orbital Distances or Orbital Period adjusted or added obey the Keplerian Laws of Planetary Orbits.

Remember that only 1% of the galaxy is explored. There are still billions of stars and planets to explore, with possibly dozens of relays still to discover.

Inner Council Space

Inner Council Space is a region of the Milky Way galaxy. As its name implies, Inner Council Space is the central region of the area of space under the control of the Citadel Council. It is bordered by Outer Council Space, Earth Systems Alliance Space, and the Attican Traverse.

In addition to its centrality, Inner Council Space holds great importance to the Council. First, it is home to the Citadel, the seat of galactic government. Second, it contains the homeworlds of several of the galaxy's sapient races. These include the salarians and the turians, two of the races with representation on the Citadel Council, as well as the hanar and the volus, both of which also have Citadel representation. Finally, the homeworld of the krogan, a former Citadel race, is located within this region.

Aethon Cluster

The ancient Greek word aithôn means "burning", "blazing" or "shining." Less strictly, it can denote the colour red-brown, or "tawny", of the nebula.

Aethon Cluster has four known star systems: the Aru system, the Esori system, the Nura system and the Satu Arrd system.

The cluster's Mass Relay is located in the Aru system.

Aru

Aru is a medium system with five planets and an asteroid belt.

Distance from Esori: 5 light-years
Distance from Nura: 7 light-years
Distance from Satu Arrd: 12 light-years

Mass Relay: Orbits Aru at a distance of 25 AU

Fuel Depot: Aru has fuel depots orbiting Locil and Cherk Sab.

Jak Ser is the first planet orbiting the star Aru. It is a large terrestrial world. Jak Ser features heavily in ancient volus mythology and folklore, since its bright white surface made it easy to chart in the night sky without the aid of a telescope. Once the volus developed advanced astronomical equipment, their scientists discovered that Jak Ser's luminosity was caused by a thick carbon monoxide cloud cover that had hidden the real face of the planet for millennia.

Additional information:

Orbital Distance	0.6 AU
Orbital Period	0.4 Earth Years
Radius	10,792 km
Day Length	35.3 Earth Hours
Atm. Pressure	18.46 atm
Surface Temp	415 °C
Surface Gravity	1.04 *g*
Satellites	N/A

Irune is the second planet orbiting the star Aru. The volus homeworld is a high-pressure, high-gravity planet that supports an ammonia-based ecology. This rare environment means that the volus have been slow to colonize, as there are few planets that meet their habitation requirements. Most prefer to stay on Irune, working remotely via the extranet. The more adventurous don the clumsy but vital pressure suits and venture out to worlds in Citadel space to make their fortunes.

Irune is remarkable for having done away with warfare as an institution of the state. Volus culture lacks the romantic view of war found in the galaxy's more aggressive species. Physical skirmishes between groups rarely last long, and are almost always ended by social castigation, bargaining agreements, or harsh economic sanctions.

Irune's cities tend to be built on fast trade routes rather than militarily defensible positions.

Citadal Travel Advisory: Irune's ammonia-based atmosphere is toxic to non-volus life-forms. Visitors to Irune must wear pressure suits at all times when traveling outside of environmentally controlled areas.

Additional information:

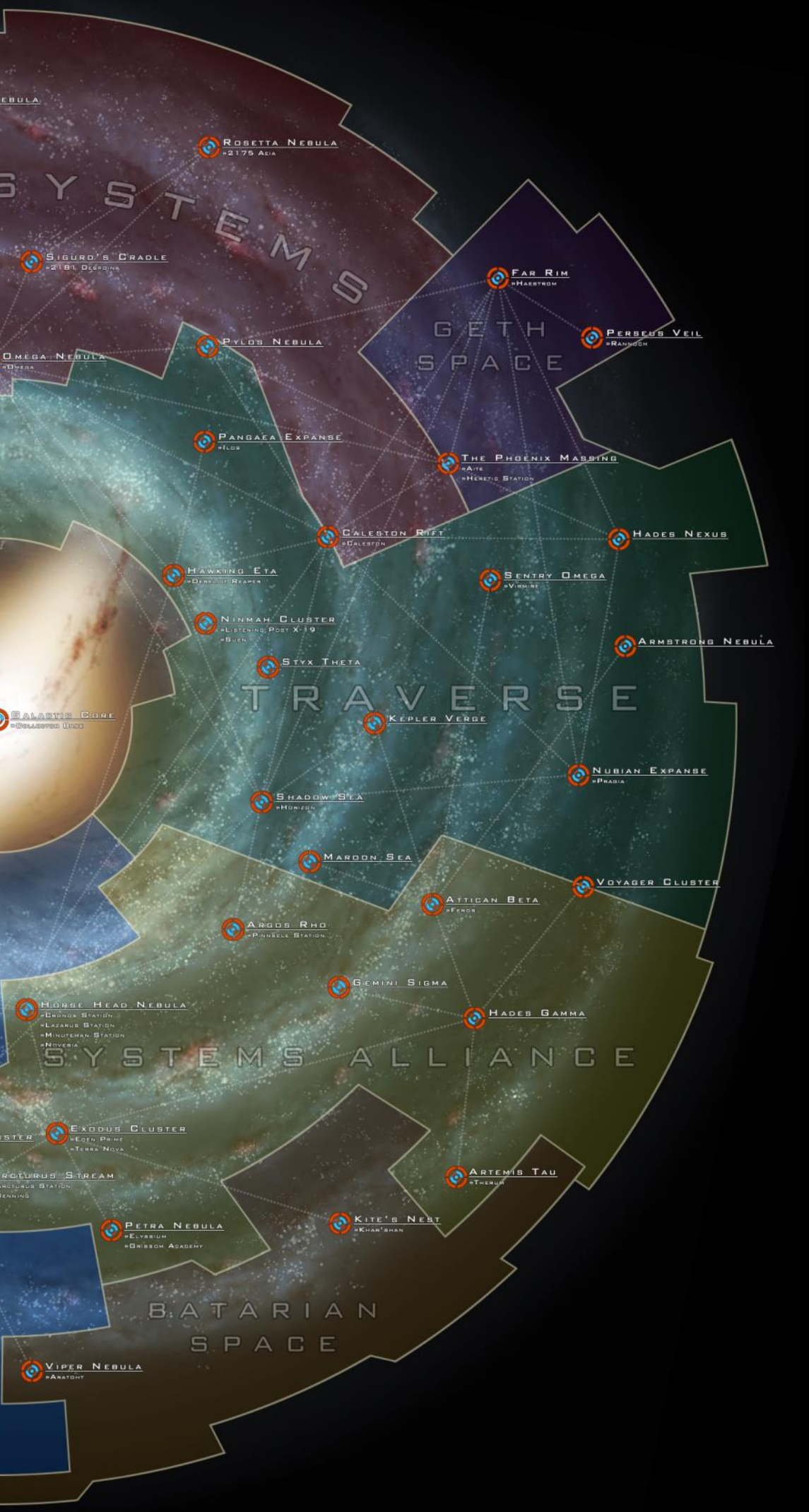
Orbital Distance	1.3 AU
Orbital Period	1.5 Earth Years
Radius	11,525 km
Day Length	36.2 Earth Hours
Atm. Pressure	60.56 atm
Surface Temp	9 °C
Surface Gravity	1.5 *g*
Satellites	N/A

Homeworld	
Species	Volus
Capital	Lenos
Population	8.8 billion

Locil is the third planet orbiting the star Aru. The first of the Aru system's three gas giants, Locil is also the largest. Boasting over 96 moons, this planet's orbit bustled with hundreds of helium-3 extraction centers. Most of the work population lived on Locil's orbital stations, which were so numerous they became an unofficial city chained together by taxi services and extendable umbilical cords.

MASS EFFECT™ GALAXY 3.5

Daniel Weber, 2012
DWebArt @ Deviantart.com


EBULA
Rosetta Nebula
»2175 Aeia
SYSTEMS
Siguro's Cradle
»2181 Deepsing
Far Rim
»Haestrom
GETH SPACE
Perseus Veil
»Rannoch
Omega Nebula
»Omega
Pylos Nebula
Pangaea Expanse
»Ilos
The Phoenix Massing
»Aite
»Heretic Station
Caleston Rift
»Caleston
Hades Nexus
Hawking Eta
»Derelict Reaper
Sentry Omega
»Virmire
Ninmah Cluster
»Listening Post X-19
»Sven
Armstrong Nebula
Styx Theta
TRAVERSE
Galactic Core
»Collector Base
Kepler Verge
Nubian Expanse
»Pragia
Shadow Sea
»Horizon
Maroon Sea
Voyager Cluster
Attican Beta
»Feros
Argos Rho
»Pinnacle Station
Gemini Sigma
Horse Head Nebula
»Cronus Station
»Lazarus Station
»Minuteman Station
»Noveria
Hades Gamma
SYSTEMS ALLIANCE
Exodus Cluster
»Eden Prime
»Terra Nova
Arcturus Stream
»Arcturus Station
»Fenning
Artemis Tau
»Therum
Kite's Nest
»Khar'shan
Petra Nebula
»Elysium
»Grissom Academy
BATARIAN SPACE
Viper Nebula
»Anatoht

Additional information:

Orbital Distance	5.8 AU
Orbital Period	14.0 Earth Years
Radius	52,635 km
Day Length	10.6 Earth Hours
Satellites	>96

Cherk Sab is the fourth planet orbiting the star Aru. It is a small gas giant. Named after a northern Irunian luck deity, Cherk Sab is overshadowed by the economy on Locil and the scientific research on Doldit. Regardless, it also possesses a few fuel depots orbiting it.

Additional information:

Orbital Distance	10.4 AU
Orbital Period	33.6 Earth Years
Radius	39,139 km
Day Length	12.1 Earth Hours
Satellites	N/A

Doldit is the fifth planet orbiting the star Aru. It is an ice giant. Doldit's moons have long been mined out, but they still hosted dozens of laboratories relocated there to avoid the environmental restrictions placed on research and development firms by Irune. Everything from weapon testing to cutting edge biological research was outsourced to facilities orbiting Doldit.

Additional information:

Orbital Distance	20.8 AU
Orbital Period	95.2 Earth Years
Radius	28,982 km
Day Length	10.6 Earth Hours
Satellites	N/A

1st asteroid belt: orbits Aru at a distance of 3 AU

Esori

Esori is a medium system with five planets.
Distance from Aru: 5 light-years
Distance from Nura: 10 light-years
Distance from Satu Arrd: 8.5 light-years

Fuel Depot: Esori has fuel depots orbiting Solu Paolis.

Mola is the first planet orbiting the star Esori. For a terrestrial planet, Mola hurtles around the system's star at breakneck speed. Its rapid orbit and molten core cause oceans of magma to be pumped out onto the surface, cooling into the continent-sized formations then erased by fresh flows of molten rock

Additional information:

Orbital Distance	0.3 AU
Orbital Period	0.1 Earth Years
Radius	7,608 km
Day Length	18.4 Earth Hours
Atm. Pressure	3.78 atm
Surface Temp	625 °C
Surface Gravity	0.82 *g*
Satellites	N/A

Atos Irn is the second planet orbiting the star Esori. It is a terrestrial world. It was claimed, along with the rest of its system, after the volus learned FTL travel. In the great volus exploration push of 300 BCE, the species found only a few planets capable of supporting their colonies. They did, however, discover many planets teeming with valuable elements.

Additional information:

Orbital Distance	1.0 AU
Orbital Period	1.0 Earth Year
Radius	7,556 km
Day Length	40.4 Earth Hours
Atm. Pressure	2.82 atm
Surface Temp	141 °C
Surface Gravity	0.49 *g*
Satellites	N/A

Yan Tao is the third planet orbiting the star Esori. It is a huge terrestrial world. Even by volus standards, the planet's atmospheric pressure is crushing. With an atmosphere composed of carbon dioxide, argon, and small traces of oxygen, the surface is devoid of life. However, tiny, fossilized sea creatures have been discovered in the deepest crevices of what used to be Yan Tao's oceans.

Additional information:

Orbital Distance	1.6 AU
Orbital Period	2.0 Earth Years
Radius	11,460 km
Day Length	37.9 Earth Hours
Atm. Pressure	133.1 atm
Surface Temp	325 °C
Surface Gravity	1.45 *g*
Satellites	N/A

Kailo is the fourth planet orbiting the star Esori. It is another huge terrestrial world. Kailo's frigid surface is dotted with impact craters left during a legendary meteor shower that happened more than 400,000 years ago. The meteors contained traces of cobalt, but not enough to warrant a full-scale mining expedition.

Additional information:

Orbital Distance	3.2 AU
Orbital Period	5.7 Earth Years
Radius	11,489 km
Day Length	93.9 Earth Hours
Atm. Pressure	Trace
Surface Temp	-93 °C
Surface Gravity	0.91 *g*
Satellites	N/A

Solu Paolis is the fifth planet orbiting the star Esori. It is an ice giant. Solu Paolis's helium-3 collection mechanisms historically turned a large profit, not because of any great immigration into the Esori system, but because Solu Paolis made a good refueling stop between Irune and Satu Arrd.

Additional information:

Orbital Distance	6.6 AU
Orbital Period	17.2 Earth Years
Radius	28,567 km
Day Length	14.7 Earth Hours
Satellites	N/A

Nura

Nura is a medium system with four planets and an asteroid belt.
Distance from Aru: 7 light-years
Distance from Esori: 10 light-years
Distance from Satu Arrd: 15 light-years

Fuel Depot: Nura has fuel depots orbiting Welm Urun and Gorgun.

Lahu is the first planet orbiting the star Nura. It is a large terrestrial world. Massive silicate-filled dust storms plague the surface of Lahu. In an odd partnership of commerce and science, high-rolling volus casinos on Oma Ker entered a partnership with the scientific research teams whose observation satellites watch over Lahu. The casinos took bets on how long Lahu storms would last and how high their wind speed might climb. Payouts made the rare volus rich, with jackpot winners forming a small fraternal order.

Additional information:

Orbital Distance	1.1 AU
Orbital Period	1.2 Earth Years
Radius	8,616 km
Day Length	53.6 Earth Hours
Atm. Pressure	0.74 atm
Surface Temp	0.85 °C
Surface Gravity	0.85 *g*
Satellites	N/A

Omar Ker is the second planet orbiting the star Nura. It is a temperate garden world currently in its megafauna stage. The planet's nitrogen-oxygen atmosphere and dextro-amino-acid-based life wasn't particularly attractive to the volus, so they sold the colonization rights to their turian partners.

Additional information:

Orbital Distance	2.0 AU
Orbital Period	2.7 Earth Years
Radius	6,739 km
Day Length	25.4 Earth Hours
Atm. Pressure	1.29 atm
Surface Temp	16 °C
Surface Gravity	1.03 *g*
Satellites	N/A

Colony	
Species	Turian
Capital	Sarlik
Colony Founded	1153 CE
Population	259,200,000

Welm Urun is the third planet orbiting the star Nura. It is a hydrogen-helium gas giant. The phrase "Welm Urun" in the volus native language translates to "the golden one," a reference to its deep yellow-orange rings. Much to prospectors' dismay, there was no gold to be found in its moons. Welm Urun's economic contributions to the system is the ubiquitous helium-3.

Additional information:

Orbital Distance	6.8 AU
Orbital Period	17.7 Earth Years
Radius	62,522 km
Day Length	16.4 Earth Hours
Satellites	>1

Gorgun is the third planet orbiting the star Nura. It is a hydrogen-helium gas giant with a helium-3 extraction infraestructrure.

Additional information:

Orbital Distance	13.4 AU
Orbital Period	49.2 Earth Years
Radius	67,733 km
Day Length	13.0 Earth Hours
Satellites	N/A

1st asteroid belt: orbits Aru at a distance of 3 AU

Satu Arrd

Satu Arrd is a small system with three planets.
Distance from Aru: 12 light-years
Distance from Esori: 8. light-years
Distance from Nura: 15 light-years

Fuel Depot: Nura has fuel depots orbiting Welm Urun and Gorgun.

Poloh Tem is the first planet orbiting the star Satu Arrd. It is a terrestrial world. This world is believed to be an extrasolar capture that built up its atmosphere over millions of years to become the hothouse it is today. Volus robo-miners descended on Poloh Tem when element zero was first discovered there, and in turn, pirates descended on the volus. The pirates then found out, to their detriment, that wealthy volus can buy a lot of influence in the Turian Hierarchy.

Additional information:

Orbital Distance	2.1 AU
Orbital Period	3.1 Earth Years
Radius	5,738 km
Day Length	35.8 Earth Hours
Atm. Pressure	28.6 atm
Surface Temp	262 °C
Surface Gravity	0.78 *g*
Satellites	N/A

Rilar is the second planet orbiting the star Satu Arrd. It is a barren, terrestrial rock world. Only a small portion of the planet has been explored, as cursory scans showed little of interest on Rilar compared to the eezo deposits on the neighboring world of Poloh Tem.

Additional information:

Orbital Distance	3.0 AU
Orbital Period	5.3 Earth Years
Radius	5,082 km
Day Length	23.2 Earth Hours
Atm. Pressure	4.62 atm
Surface Temp	28 °C
Surface Gravity	0.37 *g*
Satellites	N/A

Nalisin is the third planet orbiting the star Satu Arrd. A lonely world of rock and ice, Nalisin clings to the outer rim of the Satu Arrd system. Its freezing temperatures and carbon-dioxide atmosphere were braved by eezo smugglers, who set up camps in the tunnels honeycombing the southern hemisphere's mountain ranges. The camps were abandoned when turian patrols began regular raids on the smugglers' cave systems.

Additional information:

Orbital Distance	23.4 AU
Orbital Period	113.6 Earth Years
Radius	4,494 km
Day Length	20.6 Earth Hours
Atm. Pressure	0.97 atm
Surface Temp	-156 °C
Surface Gravity	0.64 *g*
Satellites	N/A

Annos Basin

A cluster with a single explored system. It is also the home system of the Salarians.

It has only one system, the Pranas system.

Pranas

Pranas is a medium system with four planets and an asteroid belt.

Mass Relay: Orbits Pranas at a distance of 6.5 AU

Fuel Depot: Pranas has fuel depots orbiting Halegeuse.

Saradril is the first planet orbiting the star Pranas. It is a terrestrial world. Sur'Kesh's sister planet is in a weak hothouse state, retaining enough carbon dioxide and monoxide to form an atmosphere thicker than a garden world's but thinner than a true hothouse like Venus. In the early days of salarian space exploration, the species saw mining the planet as an engineering challenge. When the salarians made contact with the asari, the robo-mining industry developed for planets like Saradril quickly became the galactic standard.

The planet is named for the Saradril Clan, specifically the salarian dalatrass Saradril Il Sorason Mal Netya Par Tore Nura, who sponsored the first manned mission to the planet. In antiquity, the planet was named for various gods, as well as the astronomer who first classified it as a planet rather than a star. But Nura's political machinations won out and the planet now bears her clan's name on all standard salarian star maps.

Additional information:

Orbital Distance	0.6 AU
Orbital Period	0.5 Earth Years
Radius	5,243 km
Day Length	22.2 Earth Hours
Atm. Pressure	8.45 atm
Surface Temp	325 °C
Surface Gravity	0.71 *g*
Satellites	N/A

Sur'Kesh is the second planet orbiting the star Pranas. It is a terrestrial world. The salarian homeworld has been likened to the jungles of Earth: pretty to look at, teeming with life, uncomfortable to live in and dangerous to the unwary. The technophilic salarians had significant pollution and waste problems early in the development of their society. They also embraced social solutions just as quickly, and through complex breeding rules, Sur'Kesh now maintains a crowded but sustainable population. The planet tends to be wetter than Earth, and salarian cities spare no expense to collect and provide fresh water, as one might expect from an amphibious species.

Additional information:

Orbital Distance	1.1 AU
Orbital Period	1.2 Earth Years
Radius	6,709 km
Day Length	21.5 Earth Hours
Atm. Pressure	1.42 atm
Surface Temp	25 °C
Surface Gravity	0.94 *g*
Satellites	N/A

Homeworld	
Species	Salarian
Capital	Talat
Population	10.3 billion
Population (Orbital Stations)	1.1 million

Dragel is the third planet orbiting the star Pranas. The tiny rock planet Dragel is notable for its status as a strategic reserve of heavy metals. It has been warmed slightly by a thin atmosphere of nitrogen and carbon monoxide, but otherwise remains hostile to life. In the clandestine fashion typical of salarians, a military outpost orbits the planet but does not appear on Alliance star maps.

Like Saradril, Dragel is named for the matrilineal clan that sent the first manned mission to the planet's surface. However, a thriving minority from the Sylar Clan, who sent the first manned mission to orbit the planet, insists to this day that their landing attempt was sabotaged by the Dragels and the planet should bear their name. Relations between the two clans remain tense.

Additional information:

Orbital Distance	1.9 AU
Orbital Period	2.5 Earth Years
Radius	1,528 km
Day Length	60.2 Earth Hours
Atm. Pressure	Trace
Surface Temp	-37 °C
Surface Gravity	0.15 *g*
Satellites	N/A

Halegeuse is the fourth planet orbiting the star Pranas. It is a gas giant. Spacer investors are fond of saying: "You can't exhaust a gas giant." But the salarians have certainly tried. Halegeuse is home to a thriving community of robo-miners and those who work in helium-3 collection and refinement. More than 16 of Halegeuse's more metallic moons have been settled.

The giant bears the name of the Halegeuse Corporation, which combined the best efforts of several salarian clans to manufacture the advanced shielding necessary to colonize the planet's moons. The planet's magnetosphere retains massive amounts of radioactive ions from Pranas, the system's star. Because of this, the cities on the moons are subsurface, protected from lethal radiation levels by shielding and thick layers of rock. Halegeuse was bought out centuries ago, but the name endures as a symbol of salarian innovation and cooperation.

Additional information:

Orbital Distance	3.6 AU
Orbital Period	6.8 Earth Years
Radius	54,743 km
Day Length	16.8 Earth Hours
Satellites	>16

Colony	
Species	Salarian
Capital	Aifa
Colony Founded	560 BCE
Population	129,000

1st asteroid belt: orbits Aru at a distance of 6 AU

Apien Crest

Apien Crest has three known star systems: the Castellus system, the Gemmae system and the Trebia system.

The cluster's Mass Relay is located in the Trebia system.

Castellus

Castellus is a medium system with five planets and two asteroid belts.

Distance from Gemmae: 18 light-years
Distance from Trebia: 10 light-years

Carborix is the first planet orbiting the star Castellus. It is a tiny rock planet with a thin, reducing atmosphere, Carborix has been remotely mined for millennia, first for rarer platinum-

group metals and radioactives, then catalysts and semi-conductors, and eventually structural materials like titanium, iron, and nickel.

Additional information:

Orbital Distance	0.4 AU
Orbital Period	0.3 Earth Years
Radius	2,579 km
Day Length	28.8 Earth Hours
Atm. Pressure	Trace
Surface Temp	268 °C
Surface Gravity	0.51 *g*
Satellites	N/A

Nios is the second planet orbiting the star Castellus. It is a small terrestrial planet bathed in argon and carbon dioxide. Nios has a pressure-cooker atmosphere. Probes have revealed calcite cliffs below, but few valuable minerals, and so the planet has only a few artificial satellites

Additional information:

Orbital Distance	0.75 AU
Orbital Period	0.7 Earth Years
Radius	2,849 km
Day Length	29.4 Earth Hours
Atm. Pressure	115.77 atm
Surface Temp	756 °C
Surface Gravity	0.39 *g*
Satellites	N/A

Digeris is the third planet orbiting the star Castellus. It is a hospitable world home to dextro-amino-acid-based life. This turian colony was famous, until recently, for being the site of the bloodiest battle in turian history. During the Krogan Rebellions, a warlord named Graken Dhal took the fight to Palaven's home cluster, bombarding the modestly-defended Digeris. When reinforcements came to intercept him, Dhal's navy put their rear to Digeris so that stray shots would hit the planet. The turians won despite this severe handicap, using countless fighters and cruisers to take down the krogan dreadnoughts.

Additional information:

Orbital Distance	1.35 AU
Orbital Period	1.6 Earth Years
Radius	4,061 km
Day Length	37.2 Earth Hours
Atm. Pressure	0.35 atm
Surface Temp	21 °C
Surface Gravity	0.69 *g*
Satellites	N/A

Colony	
Species	Turian
Capital	Apparitus
Colony Founded	381 BCE
Population	1.9 billion

Fiax is the fourth planet orbiting the star Castellus. It is a large terrestrial planet with a freezing surface and a thin nitrogen-based atmosphere. It presented the turians with the engineering challenge of mining its abundant heavy metals and getting them off the high-gravity planet without burning so much fuel or requiring so much eezo that it killed the profit margin. As a result, mining concerns here were heavily subsidized by the Hierarchy, in return for the government keeping large stores of gold, iridium and niobium for their strategic reserve.

Additional information:

Orbital Distance	2.7 AU
Orbital Period	4.4 Earth Years
Radius	9,735 km
Day Length	68.6 Earth Hours
Atm. Pressure	Trace
Surface Temp	-78 °C
Surface Gravity	2.1 *g*
Satellites	N/A

Iritium is the fifth planet orbiting the star Castellus. It is a moderately-sized hydrogen-helium gas giant with clearly visible rings.

Additional information:

Orbital Distance	10.2 AU
Orbital Period	32.7 Earth Years
Radius	53,884 km
Day Length	12.8 Earth Hours
Satellites	>1

Colony	
Species	Turian

1st asteroid belt: orbits Castellus at a distance of 5 AU
2nd asteroid belt: orbits Castellus at a distance of 14 AU

Gemmae

Gemmae is a small system with no planets. Gemmae is a class-B blue giant.

Distance from Castellus: 18 light-years
Distance from Trebia: 10 light-years

Pheiros is the first planet orbiting the star Gemmae. It is is an asteroid towed near Gemmae to serve as a terrestrial military base in a system devoid of planets. A vast array of solar collectors absorb energy from the star and beam it to receptors near the tidally locked asteroid's terminator zone. Beneath the surface, dozens of particle accelerators generate antiprotons for starship fuel.

Additional information:

Orbital Distance	160.1 km
Orbital Period	479.2 Earth Days
Radius	1,401 km
Day Length	110.2 Earth Years
Atm. Pressure	Trace
Surface Temp	496 °C
Surface Gravity	0.19 *g*
Satellites	N/A

Trebia

Trebia is a large system with six planets.
Distance from Castellus: 10 light-years
Distance from Gemmae: 10 light-years

Mass Relay: Orbits Trebia at a distance of 25 AU

Fuel Depot: Trebia has fuel depots orbiting Essenus.

Aventen is the first planet orbiting the star Trebia. It is named for a tactician-philosopher whose treatise on leadership is known by every turian youth who pays attention in class. It is a small, hot rock planet surrounded by a haze of methane and helium. It was thoroughly mined for valuable minerals in the

early days of the turian space age, and since then has had little to offer.

Additional information:

Orbital Distance	0.3 AU
Orbital Period	0.2 Earth Years
Radius	5,488 km
Day Length	19.1 Earth Hours
Atm. Pressure	3.01 atm
Surface Temp	454 °C
Surface Gravity	0.7 *g*
Satellites	N/A

Caelax is the second planet orbiting the star Trebia. It is a terrestrial world. Like nearby Aventen, Caelax was named for an ancient philosopher and author. But where Aventen wrote for the military leaders of tomorrow, Caelax focused on those who feed, clothe, heal and arm the soldier. Her enormous tome: "Service" features a lengthy chapter on laws that formed the basis for the turian concept of citizenship tiers. Caelax is lower in temperature than Aventen, and its minerals were thus exploited first.

Additional information:

Orbital Distance	0.6 AU
Orbital Period	0.4 Earth Years
Radius	6,349 km
Day Length	64.5 Earth Hours
Atm. Pressure	0.06 atm
Surface Temp	187 °C
Surface Gravity	1.0 *g*
Satellites	N/A

Palaven is the third planet orbiting the star Trebia. It is a terrestrial world and the homeworld of the Turian race. "The only thing on this planet that isn't silver are the turians. It's all too clear they're made of steel." These were Alliance hero Jon Grissom's impressions of the turian homeworld Palaven, seen by humans for the first time following the First Contact War. The turians' martial attitude permeates every aspect of Palaven society, from architecture to art to politics. It's no surprise that their homeworld was never occupied by an invading force until now.

Additional information:

Orbital Distance	1.15 AU
Orbital Period	1.2 Earth Years
Radius	8,990 km
Day Length	28.3 Earth Hours
Atm. Pressure	1.1 atm
Surface Temp	31 °C
Surface Gravity	1.14 *g*
Satellites	Menae, Nanus

Homeworld	
Species	Turian
Capital	Cipritine
Population	6.1 billion
Population (Orbital Stations)	350,000

Palaven's Moon: Manae

Palaven's largest moon has been shrouded in secrecy since the dawn of the turian space age. During the Krogan Rebellions, the Hierarchy classified nearly all data on Menae, and its sister moon Nanus, because they feared the krogan could use the moons as weapons by smashing them into Palaven's surface. However, some information has leaked out. Images of turian bases where personnel walk without enviro-suits indicate advanced infrastructure – likely a network of subterranean tunnels with powerful mass effect field generators that retain heat and atmosphere over swaths of the surface.

Menae is one of two moons orbiting the turian homeworld of Palaven. The Turian Hierarchy put Menae in the hands of the military soon after their spacecraft first landed on the moon, immediately halting civilian research and exploration. Menae's geological composition and specifications have been classified ever since. These days, a few active naval bases dot the moonscape, as well as infantry installations focused on extreme survival training.

The mystery of Menae is a lasting fascination for many turian citizens. Speculation about its presumably rare and valuable resources has become a common plot point in vids, novels, and even poetry for young turians.

Additional information:

Orbital Distance	Classified
Orbital Period	33 Earth Days
Radius	Classified
Day Length	Classified
Atm. Pressure	Classified
Surface Temp	Classified
Surface Gravity	Classified
Satellites	N/A

Impera is the fourth planet orbiting the star Trebia. It is a small terrestrial world. The small planet Impera is a hothouse of helium and argon, the latter a product of decaying radioactive materials. Robo-mining was once lucrative here, but like the rest of the solar system, the only remaining veins are inaccessible by cost-effective means.

The planet is named for Atrin Impera, the "turian Machiavelli," whose ambitious political philosophies led to her reign as regent in the continent-spanning Nialin Empire for more than a decade. She famously combined citizenship tiers with a meritocracy, rather than a caste system, which served to strengthen her empire. This practice fell in and out of favor for centuries before its revival early in the turians' age of nation-states.

Additional information:

Orbital Distance	2.4 AU
Orbital Period	3.7 Earth Years
Radius	1,676 km
Day Length	32.6 Earth Hours
Atm. Pressure	24.28 atm
Surface Temp	223 °C
Surface Gravity	0.1 *g*
Satellites	N/A

Essenus is the fifth planet orbiting the star Trebia. It is a hydrogen-helium gas giant that is home to a substantial turian garrison defending the planet's fuel infrastructure. It helds a distribution center for antiproton-based fuel as well as the more common helium-3 collectors.

Additional information:

Orbital Distance	4.8 AU
Orbital Period	10.4 Earth Years
Radius	73,976 km
Day Length	12.3 Earth Years
Satellites	N/A

Datriux is the sixth planet orbiting the star Trebia. It is a small rock and ice planet with an extremely thin nitrogen-based atmosphere. Exploited for its metal deposits, the planet's iridium was marked as part of Palaven's strategic reserve during the Krogan Rebellions. Its facilities have been maintained to this day.

Additional information:

Orbital Distance	8.7 AU
Orbital Period	25.7 Earth Years
Radius	7,183 km
Day Length	31.8 Earth Hours
Atm. Pressure	Trace
Surface Temp	-164 °C
Surface Gravity	N/A
Satellites	N/A

Krogan DMZ

The Krogan DMZ (Demilitarized Zone) is a star cluster relatively near to the Local Cluster and Serpent Nebula, towards the galactic center. As the name would imply, it is home to the birthplace of the krogan race, Tuchanka and nearby star systems occupied by the krogan prior to and during the Rachni Wars and Krogan Rebellions.

Krogan DMZ has three known star systems: the Aralakh system, the Dranek system and the Nith system.

The cluster's Mass Relay is located in the Aralakh system.

Aralakh

Aralakh is a large system with six planets and an asteroid belt.

Aralakh is an F-class star and its name means "Eye of Wrath".

Distance from Dranek: 6 light-years
Distance from Nith: 13.5 light-years

Mass Relay: Orbits Aralakh at a distance of 22 AU

Fuel Depot: Aralakh has fuel depots orbiting Tuchanka and Ruam.

Durak is the first planet orbiting the star Aralakh. It is a small, heat-blasted rock lost in the blinding glare of the star Aralakh. It occasionally traps a trace atmosphere of gases blown in on Aralakh's powerful solar wind, which inevitably blows the gases back out again. The planetoid has a few valuable lodes of heavy metals, which were sporadically mined by the krogan at the height of their power. In the closing years of the Rebellions the five clans working the planetoid fell to fighting over a particularly rich deposit of iridium. All five clan warlords agreed to a Crush (a meeting at a neutral location) to negotiate a truce. Unfortunately, all five arrived planning to betray their fellows. While the leaders and their seconds met, all their bases were destroyed by simultaneous hypervelocity cannon strikes. Left with only the food, water, and air in their hardsuits and with no way to call for rescue the warlords apparently fought each other to the death. The survivors of the five "Durak clans" on Tuchanka still argue about which clan's warlord was the last one standing.

Additional information:

Orbital Distance	0.83 AU
Orbital Period	0.6 Earth Years
Radius	1,972 km
Day Length	8.8 Earth Hours
Atm. Pressure	Trace
Surface Temp	348 °C
Surface Gravity	0.22 *g*
Satellites	N/A

Kanin is the second planet orbiting the star Aralakh. It is a small terrestrial world. One of Kanin's hemispheres contains an impact crater 700 kilometers in diameter. Dubbed the Renkat Basin, it was mined for light metals in the interbellum between the Rachni War and Krogan Rebellions. Any obvious resource concentrations have long since been stripped.

Additional information:

Orbital Distance	1.66 AU
Orbital Period	1.6 Earth Years
Radius	3,312 km
Day Length	N/A
Atm. Pressure	Trace
Surface Temp	155 °C
Surface Gravity	0.28 *g*
Satellites	N/A

Kruban is the third planet orbiting the star Aralakh. It is a tidally locked Venusian hothouse. Its surface is perpetually obscured by clouds of sulfur and carbon dioxide. The first group of krogan brought into orbit by the salarian uplift teams requested a trip to Kruban. The salarians at first thought the krogan were confused about the nature of Kruban's environment; the planet is named for a krogan mythological paradise in which honorable warriors feast on the internal organs of their enemies. In fact, krogan astronomers had correctly deduced the nature of Kruban in the years before the global holocaust. In the two millennia since Kruban had come to be thought of as an ideal test of one's toughness. Every year a few krogan attempt to land on Kruban and exit their ships naked in an attempt to prove their "kroganhood". The planet's surface is littered with the crushed, corroded remains of their ships. Only one, Shath Norda, is known to have returned from the surface alive, albeit with most of his bones crushed and all four of his lungs damaged by sulfuric gas. Norda recovered from his trial to earn the adulation of his people. Until he died in 1943 he could lay with any fertile female he wished.

Additional information:

Orbital Distance	3.31 AU
Orbital Period	4.6 Earth Years
Radius	5,443 km
Day Length	N/A
Atm. Pressure	47.3 atm
Surface Temp	728 °C
Surface Gravity	0.7 *g*
Satellites	N/A

Tuchanka is the fourth planet orbiting the star Aralakh. It is a terrestrial world larger than Earth. The krogan homeworld boasts extreme temperatures, virulent diseases, and vicious, predatory fauna. Scarred by bombardment craters, radioactive rubble, choking ash, salt flats, and alkaline seas, the krogan homeworld, can barely support life. Thousands of years ago life grew in fierce abundance. Tree analogs grew in thick jungles, their roots growing out of shallow silty seas. Life fed upon life in an evolutionary crucible.

Around 1900 BCE, the krogan discovered atomic power and promptly instigated many intraplanetary wars, sending Tuchanka into a nuclear winter. With most of their industrial base destroyed, the krogan entered a new dark age and warring tribal bands dominated. Populations remained low for the next 2,000 years. The world was also killed, with nuclear winter killing off the remaining plant life. The reduced albedo has caused global temperatures to rise.

In 80 CE, decades into the Rachni Wars, the Salarian Union made first contact with the primitive krogan and initiated a "cultural uplift" to shape them into a modern army capable of confronting the rachni. During this uplift, the salarians constructed the Shroud facility on Tuchanka to shield the planet from harmful forms of solar radiation.

Krogan brought to less hostile planets bred exponentially and returned to reconquer their home. They built vast underground shelters to shield themselves from surface radiation, which proved prescient during the Krogan Rebellions when many of them isolated themselves in a vain attempt to avoid the genophage. Convinced they could outbreed the genophage, they transmitted it into more than 90 percent of the sealed bunkers. Today, Tuchanka's population is sharply limited and while individual krogan are long-lived, the genophage ensures few replacements.

In recent centuries many krogan have returned to their homeworld.

The planet is monitored by the Council Demilitarization Enforcement Mission (CDEM) which is based on orbiting battlestations.

CDEM Advisory: Visitors to Tuchanka land at their own risk. The CDEM will not attempt to extract citizens threatened by clan warfare.

Travel Advisory: The ecology of Tuchanka is deadly. Nearly every native species engages in some predatory behavior; even the remaining vegetation is carnivorous. Travel beyond guarded areas is strongly discouraged.

Additional information:

Orbital Distance	5.3 AU
Orbital Period	16.7 Earth Years
Radius	8,293 km
Day Length	21.4 Earth Hours
Atm. Pressure	1.1 atm
Surface Temp	72 °C (36 °C in shrouded areas)
Surface Gravity	1.14 *g*
Satellites	N/A

Homeworld	
Species	Krogan
Capital	Urdnot (since 2183)
Population	2.1 billion
CDEM Garrison	2.400 (in orbital battlestations)

Ruam is the fifth planet orbiting the star Aralakh. The smaller of Aralakh's hydrogen-helium gas giants maintains a small helium-3 recovery infrastructure. Although the depth of Ruam's gravity well makes it inefficient to export, visitors to Aralakh system often "top off" their fuel tanks at Ruam's stations. The Council Demilitarization Enforcement Mission (CDEM) maintains a token garrison to monitor any potential sale of fuel to known subversives and terrorists.

Additional information:

Orbital Distance	11.1 AU
Orbital Period	28.4 Earth Years
Radius	67,154 km
Day Length	13.8 Earth Hours
Satellites	N/A

Colony	
Population	1,040

Vaul is the sixth planet orbiting the star Aralakh. It is a hydrogen-helium gas giant named for an ancient krogan deity that stood watch for enemies of his pantheon. The gas giant's moons are named after some of Vaul's myriad eyes and ears. The only reason to visit the Vaul system is scientific curiosity, which the krogan lack.

Additional information:

Orbital Distance	17.8 AU
Orbital Period	57.8 Earth Years
Radius	73,944 km
Day Length	12.1 Earth Hours
Satellites	> 1

1st asteroid belt: orbits Aralakh at a distance of 7 AU

Dranek

Dranek is a medium system with four planets.
Distance from Aralakh: 6 light-years
Distance from Nith: 10.4 light-years

Kelim is the first planet orbiting the star Dranek. It is a tectonically inert rock with an atmosphere of krypton, xenon, and argon. There are a few valuable lodes of light metals scattered across its surface, but these are difficult to find; most were mined out in the years leading up to the Krogan Rebellions.

Additional information:

Orbital Distance	0.2 AU
Orbital Period	0.2 Earth Years
Radius	5,580 km
Day Length	28.3 Earth Hours
Atm. Pressure	0.5 atm
Surface Temp	42 °C
Surface Gravity	0.32 *g*
Satellites	N/A

Dor is the second planet orbiting the star Dranek. It is a conventional methane-ammonia ice giant. It is the main fueling port in the Dranek system. Pildea Station, the headquarters for patrol ships of the Council Demilitarization Enforcement Mission (CDEM), lies at the trailing Lagrange point of Dor.

The CDEM logs all ships passing through the Krogan Demilitarized Zone, and has the right to board and search them for contraband at any time and for any reason. There are no exceptions; at points over the last two centuries, diplomatic incidents have been caused when the patrol frigates boarded an asari hospital ship, a batarian diplomatic courier, and private-owned human "tramp" freighters.

These measures are provided for under the terms of the krogan armistice. While the krogan were allowed to retain their government and personal weapons, any attempt to provide starship-mounted weapons to the clans on Tuchanka is punishable by law. Nearly a millennia after the war ended, the official penalty for smuggling proscribed weapons is still death by spacing.

Additional information:

Orbital Distance	0.36 AU
Orbital Period	0.4 Earth Years
Radius	25,588 km
Day Length	18.4 Earth Hours
Satellites	N/A

Colony	
Population	7,300

Sazgoth is the third planet orbiting the star Dranek. It is a small ice dwarf with an eccentric orbit. During perigee, portions of its icy surface sublimate into a thin atmosphere of nitrogen and carbon dioxide, which quickly freeze again as it recedes into the outer reaches of the Dranek system.

Additional information:

Orbital Distance	0.58 AU
Orbital Period	0.8 Earth Years

Radius	3,349 km
Day Length	27.1 Earth Hours
Atm. Pressure	0.19 atm
Surface Temp	-99 °C
Satellites	N/A

Rothla is the fourth planet orbiting the star Dranek. Once Rothla was a large ice dwarf with the statistics listed below. In the waning years of the Krogan Rebellions it was shattered into field of debris by what is assumed to have been the test of an exotic weapons system. In the wake of "the event," the planetoid was reduced to a relatively contained field of thousand of tiny moonlets rotating around one another, colliding and ricocheting.

The method used to destroy the planetoid has never been deduced. The krogan clan who performed the experiment apparently all died in the event. Ships that have traveled to the edge of the event's light cone observed a moment of extreme gravitational lensing around Rothla immediately before its break up, but no other clues.

A popular extranet meme put forward by the asari author Delsae Orthysa insists that the turians are covering up the existence of a krogan "super biotic" breed that was genetically engineered within Rothla. The CDEM enforces quarantine around the Rothla Field, citing cases of amateur investigators whose ships came to grief in the debris field.

Additional information:

Orbital Distance	1.15 AU
Orbital Period	2.3 Earth Years

Nith

Nith is a small system with three planets. Nith is a class-B blue giant.

Warning: due to the huge distance between planets, it is not advisable to travel to Nith without a ship with a high fuel capacity.

Distance from Aralakh: 13.5 light-years
Distance from Dranek: 10.4 light-years

Mantun is the first planet orbiting the star Nith. It is a small terrestrial world. The class-B blue giant Nith was once the most strategically valuable system within krogan territory. Though far too hot for habitation, Nith emits thousands of times the energy of a main sequence star like Earth's Sol. With help from salarian uplift teams, the krogan constructed a chain of solar power collector stations in orbit around Nith. These vast arrays beamed power to particle accelerators on the surface of Mantun, which manufactured antiproton fuel for warship thrusters.

In the Krogan Rebellions the Spectre agents managed to get a virus into the computers of the solar power arrays; every fifth array suddenly applied braking thrusters. The arrays behind them "piled up", and all were reduced to wreckage. This has since dispersed into a relatively stable ring system. The krogan never had the resources to rebuild the solar arrays, depriving them of their fleet's main fuel supply for the remainder of the war. The particle accelerators still exist on Mantun but have not been used in thousands of years.

Additional information:

Orbital Distance	57.2 AU
Orbital Period	112.1 Earth Years
Radius	2,150 km
Day Length	N/A
Atm. Pressure	Trace
Surface Temp	641 °C
Surface Gravity	0.28 *g*
Satellites	N/A

Tula is the second planet orbiting the star Nith. It is a terrestrial world. Its methane-ammonia atmosphere traps the blistering heat of Nith, driving dayside temperatures up over 1,000 degrees. While some lodes of useful metals are present, the planet's incredible heat makes mining impractical.

Additional information:

Orbital Distance	108.7 AU
Orbital Period	293.9 Earth Years
Radius	5,204 km
Day Length	59.7 Earth Hours
Atm. Pressure	0.54 atm
Surface Temp	1,036 °C
Surface Gravity	0.55 *g*
Satellites	N/A

Vard is the hird planet orbiting the star Nith. It is a methane-ammonia ice giant. Until the Krogan Rebellions it had a sizable helium-3 fuel-refining infrastructure. Once the solar arrays orbiting Nith were destroyed, the constant flow of antiproton tankers visiting the system disappeared. There was little point to maintaining the facilities, so they were shut down and abandoned. Today, transients, criminals, and outcasts are squatting in the ancient stations. Although few of the stations are safe for habitation, neither the krogan nor the Council Demilitarization Enforcement Mission patrols care if the squatters take their chances.

Additional information:

Orbital Distance	195.6 AU
Orbital Period	709.6 Earth Years
Radius	36,670 km
Day Length	18 Earth Hours
Satellites	N/A

Colony	
Population	2,072

Serpent Nebula

The dense Serpent Nebula surrounds the ancient Citadel and is one of the station's most effective defences. The thick gas and dust from the nebula make it impossible for enemy ships to launch an organised attack, or locate the Citadel without co-ordinates. The nebula is also home to dozens of mass relays.

The composition and origin of the Serpent Nebula is the subject of debate. Some believe the nebula was actually created by the Citadel itself, over millennia of ejecting particles and debris from self-repair into space.

Serpent Nebula has two known star system: the Boltzmann system and the Widow system where the Citadel is located.

Boltzmann

Boltzmann is a medium system with five planets and an asteroid belt. The system is likely named after Ludwig Boltzmann, a late 19th century Austrian physicist.

Distance from Widow: 3 light-years

Fuel Depot: Boltzmann has fuel depots orbiting Veltman.

Wheeler is the first planet orbiting the star Boltzmann. It is a sizable rock planet. Its atmosphere is a hostile mix of hydrogen and carbon monoxide, which poses little hazard to remote robo-mining. Modern equipment can easily tolerate the planet's temperatures and gravity. Wheeler's crust is rich in bauxite and other light metals used in fabricators the galaxy over.

Additional information:

Orbital Distance	0.85 AU
Orbital Period	0.8 Earth Years
Radius	7,894 km
Day Length	60.5 Earth Hours
Atm. Pressure	2.35 atm
Surface Temp	165 °C
Surface Gravity	1.9 *g*
Satellites	N/A

Bekenstein is the second planet orbiting the star Boltzmann. It is a terrestrial world similar to Earth.

"More glittering than diamonds, more expensive than surgery," is how travel agents describe this planet behind closed doors. Given the opportunity to colonize planets after the First Contact War, the Systems Alliance chose Bekenstein to be their trading arm, producing goods to be sold on the nearby Citadel. Cracking the vast galactic marketplace proved difficult – the first human products sold on novelty alone, then lack of demand hit Bekenstein's economy hard. Only in the second generation of colonists did the planet find a sustainable niche in high-quality entertainment and luxury goods. Once brand awareness sunk in, aliens flocked to Bekenstein's many spaceports. The planet today boasts more millionaires and billionaires per capita than any other human colony.

Though its crime tends to be white-collar and nonviolent, Bekenstein is not without its dark side. Both its suicide rate and inflation are extremely high compared to other worlds. Unemployment is artificially low because few people immigrate to the expensive planet without having a job lined up, and the cost of living is so great that unemployed workers typically leave for kinder planets after just a few months. Those who stay see themselves as tougher, sharper, and more skillful than the rest, as well as capable of getting respect and employment on any lesser planet. As a popular song says, "If you can make it on the Bek, you got 'em by the neck."

Additional information:

Orbital Distance	1.8 AU
Orbital Period	2.4 Earth Years
Radius	6,050 km
Day Length	21.3 Earth Hours
Atm. Pressure	1.17 atm
Surface Temp	43 °C (mean) 25 °C (habitable zone)
Surface Gravity	0.9 *g*
Satellites	N/A

Colony	
Species	Human
Capital	Milgrom
Colony Founded	2158
Population	5,425,000

Thooft is the third planet orbiting the star Boltzmann. It stands within the asteroid belt of that system. Technically named T'hooft (Dutch for "the head"), Thooft is a dwarf planet with a moderate carbon dioxide atmosphere and rich deposits of periclase. Originally put on the star charts when a human scout ship needed to discharge its drive core and wasn't able to reach the system's gas giants in time, Thooft has seen some development by Hoshichiri Heavy Industries. Periclase from the asteroid can be found in common industrial products, such as industrial cable insulation and fire-resistant prefab housing walls.

Additional information:

Orbital Distance	3.6 AU
Orbital Period	6.8 Earth Years
Radius	3,247 km
Day Length	34.2 Earth Hours
Atm. Pressure	1.88 atm
Surface Temp	−5 °C
Surface Gravity	0.2 *g*
Satellites	N/A

Veltman is the fourth planet orbiting the star Boltzmann. It is a hydrogen-helium gas giant and home to the koshiroten, enormous storm cells that appear as whitish spots and are visible as far away as Bekenstein. As with most other colonized gas giants, Veltman's orbital space sports a variety of helium-3 refueling stations for merchant vessels. Of particular note among the orbital stations is the Dynamis Corporation's facility for manufacturing metastable metallic hydrogen, despite the risks involved in manipulating the powerful mass effect fields needed to do so. Citadel warships, which use the substance in their thrusters, can frequently be seen docking at Veltman as a result. This makes the Boltzmann system one of the most heavily patrolled in Citadel space.

Additional information:

Orbital Distance	7.1 AU
Orbital Period	19.0 Earth Years
Radius	61,755 km
Day Length	14.0 Earth Hours
Satellites	N/A

Feynam is the fifth planet orbiting the star Boltzmann. It is a hydrogen-methane gas giant. Feynman is of far less interest to the colonists of Bekenstein than its moons. All 24 are under heavy development by three rival firms, Hoshichiri Heavy Industries, Guanghui Solutions, and the Dynamis Corporation. These three firms are under ironclad contracts to sell their raw materials exclusively to corporations based on or orbiting around Bekenstein, a situation which has led to heavy investment on Bekenstein from manufacturing corporations looking to get a piece of the action. Feynman itself has been relatively untouched by the mining concerns as its strong magnetosphere and great dark storm cells create a barrier to all but the newest generation of scanners.

Additional information:

Orbital Distance	15.2 AU
Orbital Period	59.4 Earth Years
Radius	40,196 km
Day Length	16.9 Earth Hours
Satellites	24

1st asteroid belt: orbits Boltzmann at a distance of 3,6 AU

Widow

Widow is a small system with no planets. The Widow system contains only the star itself, additional gases from the Serpent Nebula, a fuel depot, and the Citadel.

Distance from Boltzmann: 3 light-years

Citadel:

The massive station, center of government for the Citadel Space, orbits the star Widow at a distance of 1

Near it, at distances little over than half a million kms, are dozens of Mass Relays and a fuel depot.

Outer Council Space

Outer Council Space is a region of the Milky Way galaxy. It consists of the majority of space claimed by the asari as well as the elcor homeworld. It is bordered by Inner Council Space and the Attican Traverse.

While the elcor content themselves with their home system and a handful of colonies, the asari have settlements across the territory. Easily the most economically powerful sector of the galaxy, the asari worlds use their financial clout to keep the galactic market stable. Their military fleets patrol shipping lanes and colony space against smugglers arriving via relays from the Attican Traverse.

Athena Nebula

A nebula containing the Asari home system.

Athena Nebula has five known star systems: the Ialessa system, the Orisoni system, the Parnitha system, the Tomaros system and the Vernio system.

The cluster's Mass Relay is located in the Parnitha system.

Ialessa

Ialessa is a medium system with five planets and an asteroid belt.

Distance from Orisoni: 42 light-years
Distance from Parnitha: 25 light-years
Distance from Tomaros: 60 light-years
Distance from Vernio: 50 light-years

Fuel Depot: Ialessa has fuel depots orbiting Zylium.

Ilmos is the first planet orbiting the star Ialessa. It is a terrestrial world. The once-rich thorium reserves of Ilmnos have long been mined out, mostly by remote asari drones that operate well enough in the planet's heat and trace atmospheric pressure. There is little reason to visit this harsh world unless further deposits are discovered.

Additional information:

Orbital Distance	0.5 AU
Orbital Period	0.4 Earth Years
Radius	6,528 km
Day Length	22.5 Earth Hours
Atm. Pressure	Trace
Surface Temp	183 °C
Surface Gravity	0.83 *g*
Satellites	N/A

Sanves is the second planet orbiting the star Ialessa. It is a terrestrial garden world. The hospitable nitrogen-oxygen atmosphere, temperate-climate and sprawling wilderness of Sanves made the planet a popular tourist destination. Large tracks of untamed forest surrounding the capital drew in millions of sightseers, game hunters, and biologists. The asari, mindful of how rapid expansion has damaged the ecologies of other planets, restricted settlements.

Additional information:

Orbital Distance	1.4 AU
Orbital Period	1.6 Earth Years
Radius	7,484 km
Day Length	51.8 Earth Hours
Atm. Pressure	0.96 atm
Surface Temp	25 °C
Surface Gravity	0.95 *g*
Satellites	N/A

Colony	
Species	Asari
Capital	Etheai
Colony Founded	544 BCE
Population	975 million

Zylium is the third planet orbiting the star Ialessa. The hydrogen-helium gas giant Zylium provides fuel for ships flying to and from Sanves. The equipment here is noted for its efficiency. Business flourishes in its orbital stations, which promised roomy bunks, hydroponic food and attention from charming asari hostesses while ships refueled.

Additional information:

Orbital Distance	5 AU
Orbital Period	11.2 Earth Years
Radius	63,511 km
Day Length	9.8 Earth Hours
Satellites	N/A

Colony	
Species	Asari

Trilakon is the fourth planet orbiting the star Ialessa. It is a small rock planet that was home to a centuries-old asari venture called the Tirii Supercollider. This massive particle accelerator encircled the entire planet at an orbital distance. When political sea change among the Asari Republics led to funding cuts, human scientists stepped in with the credits and labor to finish the project, renaming it the Susskind Supercollider. It came online just days before the Reapers invaded the galaxy.

Additional information:

Orbital Distance	10 AU
Orbital Period	31.7 Earth Years
Radius	1,905 km
Day Length	59.4 Earth Hours
Atm. Pressure	Trace
Surface Temp	-87 °C
Surface Gravity	.25 *g*
Satellites	N/A

Colony	
Species	Asari

Nossia is the fifth planet orbiting the star Ialessa. It is a large terrestrial world. Scans show little of value on Nossia, aside from sizable copper deposits near the equator. The only landmark of note is the wreck of a krogan freighter, a remnant of attacks on the system during the latter half of the Krogan Rebellions.

Additional information:

Orbital Distance	18.7 AU
Orbital Period	81.1 Earth Years
Radius	10,909 km
Day Length	54.1 Earth Hours
Atm. Pressure	Trace
Surface Temp	-146 °C
Surface Gravity	0.76 *g*
Satellites	N/A

1st asteroid belt: orbits Ialessa at a distance of 2.5 AU

Orisoni

Orisoni is a medium system with four planets.

Distance from Ialessa: 42 light-years

Distance from Parnitha: 22.5 light-years
Distance from Tomaros: 37 light-years
Distance from Vernio: 62.2 light-years

Thissoni is the first planet orbiting the star Orisoni. It is a terrestrial world. Its surface is a desert of lime streaked with sodium banks. The only real features of note are empty calderas scattered around the fault lines, suggesting Thissioni was once more geologically active. While average temperatures are near-habitable, Thissioni has not retained a protective atmosphere and is thus a third-tier world unlikely to be terraformed.

Additional information:

Orbital Distance	1 AU
Orbital Period	1 Earth Year
Radius	6,039 km
Day Length	46.9 Earth Hours
Atm. Pressure	Trace
Surface Temp	55 °C
Surface Gravity	0.95 *g*
Satellites	N/A

Niacal is the second planet orbiting the star Orisoni. It is a lush terrestrial planet with an overabundance of photosynthetic life, leading to oxygen concentrations greater than on most garden worlds. This is tolerable for a few hours, but soon oxygen toxicity becomes a real danger. Asari colonies here use breathers and sealable buildings.

Niacal's economy centers on agribusiness and biotechnology. Many genetically modified crops have their origin here.

Additional information:

Orbital Distance	1.9 AU
Orbital Period	2.6 Earth Years
Radius	11,397 km
Day Length	35.3 Earth Hours
Atm. Pressure	2.99 atm
Surface Temp	54 °C
Surface Gravity	1.27 *g*
Satellites	N/A

Colony	
Species	Asari
Capital	Aurolis
Colony Founded	177 CE
Population	7,300,000

Kralla is the third planet orbiting the star Orisoni. It is a terrestrial world. After half the crew of a survey ship died in a freak accident, the ship's captain named this desert planet Kralla, after an ancient asari demon of misfortune.

Additional information:

Orbital Distance	3.1 AU
Orbital Period	5.6 Earth Years
Radius	5,879 km
Day Length	48.6 Earth Hours
Atm. Pressure	Trace
Surface Temp	-93 °C
Surface Gravity	0.57 *g*
Satellites	N/A

Egalic is the fourth planet orbiting the star Orisoni. The system's only gas giant has rings laced with the faintest traces of Element Zero dust, likely form an extrasolar asteroid pulverized by a collision with the planet's moons. Collecting and refining the eezo in dust form is a long and costly process. The Elkoss Combine sought the mineral rights to Egalic from the matriarchs on Thessia.

Additional information:

Orbital Distance	6.5 AU
Orbital Period	16.6 Earth Years
Radius	69,039 km
Day Length	19.2 Earth Hours
Satellites	>1

Parnitha

Parnitha is a large system with six planets and an asteroid belt.

Distance from Ialessa: 25 light-years
Distance from Orisoni: 22.5 light-years
Distance from Tomaros: 25 light-years
Distance from Vernio: 24 light-years

Mass Relay: Orbits Parnitha at a distance of 30 AU

Fuel Depot: Parnitha has fuel depots orbiting Janiri and Athame.

Kurinth is the first planet orbiting the star Parnitha. It is a small terrestrial world. Wrapped in a crushing haze of hydrogen and methane, Kurinth is named for an asari goddess of war and hunting, the two being similar in the asari mindset. The planet is particularly bright in Thessia's morning and evening skies, enough to cast noticeable shadows on moonless nights. Understandably, warriors and hunters operating at night were grateful for Kurinth's blessing.

The planet was never heavily exploited for minerals; early asari explorers focused on the asteroid belt and by the time robo-mining machines were created that could withstand the intense heat, more lucrative planets were already on the star charts. Modern charts record several scientific stations orbiting the planet.

Additional information:

Orbital Distance	0.45 AU
Orbital Period	0.3 Earth Years
Radius	4,103 km
Day Length	57.5 Earth Hours
Atm. Pressure	69.95 atm
Surface Temp	734 °C
Surface Gravity	0.32 *g*
Satellites	N/A

Thessia is the second planet orbiting the star Parnitha. It is a lush garden world. The asari homeworld has been called the "crown jewel of the galaxy," the "apex of democracy," and the "beating heart of galactic love." Its republics have a remarkably low incidence of war, disease, violent crime or famine, riding a stable economy backed by wealthy colonies and Thessia's vast element zero reserves. Traces of eezo in the water and soil are so common that most life on Thessia has adapted to its presence.

Additional information:

Orbital Distance	0.94 AU
Orbital Period	0.9 Earth Years
Radius	5,940 km
Day Length	27.6 Earth Hours
Atm. Pressure	0.96 atm
Surface Temp	25 °C
Surface Gravity	1.1 *g*
Satellites	0

Homeworld	
Species	Asari
Population	5.5 billion
Population (Orbital Stations)	33,000

Piares is the third planet orbiting the star Parnitha. It is a terrestrial world. The lifeless sister planet to Thessia lacks water or oxygen. It is covered instead with deserts, the "air" a mix of carbon dioxide and ethane. The manageable temperatures and gravity on Piares led to heavy exploitation for mineral wealth in the beginning of the asari space age. Today, Piares is largely mined out.

Piares is named for an ancient asari goddess of death, who was not seen as a malefic figure, but as one who guided asari spirits on their final journey. From her home in the stars, she could grant an asari who had lost a lover the ability to restore them to life in another body. This legend, heavily modified, formed the basis for a recent, highly profitable human simstim called "Nekyia Corridor."

Additional information:

Orbital Distance	1.75 AU
Orbital Period	2.3 Earth Years
Radius	5,984 km
Day Length	35.5 Earth Hours
Atm. Pressure	2.94 atm
Surface Temp	61 °C
Surface Gravity	0.9 *g*
Satellites	N/A

Colony	
Species	Asari

Janiri is the fourth planet orbiting the star Parnitha. It is a hydrogen-helium gas giant, named for an ancient asari goddess of seasons, storms, and agriculture. With the advent of the siari religion, Janiri's holy day Janiris became largely secular, but it is still celebrated on worlds with asari influence.

Additional information:

Orbital Distance	6.6 AU
Orbital Period	17.0 Earth Years
Radius	54,704 km
Day Length	8.8 Earth Hours
Satellites	N/A

Athame is the fifth planet orbiting the star Parnitha. It is a hydrogen-helium gas giant with spectacular rings. The planet's apparent magnitude varies when seen from Thessia based on atmospheric conditions and relative distance. To the ancient asari, the "mysterious star" that shone in some months and disappeared in others was linked to fortune, and so it was named Athame, after the matriarch of the pantheon and a goddess of prophecy and fate. Athame's worship changed over time, eventually becoming the basis for a monotheistic religion in which her maiden, matron, and matriarch aspects oversaw all stages and roles in asari society. When an asari says "by the goddess," they are referring to Athame.

Additional information:

Orbital Distance	13.3 AU
Orbital Period	48.6 Earth Years
Radius	64,549 km
Day Length	18.7 Earth Hours
Satellites	N/A

Tevura is the sixth planet orbiting the star Parnitha. It is a hydrogen-methane ice giant with a core of frozen ammonia and trace hydrocarbons.

The world is named for an ancient asari goddess of love, sex, travel, and law – spheres of influence whose overlap initially baffled human xenoanthropologists. Asari reproductive instincts are strongly exogamous, and before alien contact, their instincts sent the asari roaming outside their kinship groups to avoid mating with relatives. The journeys necessitated a system of rules governing guests, fugitives, and alliances – all watched over by the goddess Tevura.

Additional information:

Orbital Distance	24.4 AU
Orbital Period	120.9 Earth Years
Radius	26,655 km
Day Length	15.5 Earth Hours
Satellites	>=1

1st asteroid belt: orbits Parnitha at a distance of 3.5 AU

Tomaros

Tomaros is a medium system with four planets.
Distance from Ialessa: 60 light-years
Distance from Orisoni: 37 light-years
Distance from Parnitha: 25 light-years
Distance from Vernio: 50 light-years

Fuel Depot: Tomaros has fuel depots orbiting Niagolon and Beness.

Lusia is the first planet orbiting the star Tomaros. It is a large terrestrial world. The Krogan Rebellions began in the asari colony of Lusia. After centuries of unabated expansion, the krogan finally forced the Council's hand when they tried to annex this world. Aware that in a generation, Lusia could be a staging base for an invasion of Thessia, the Council came to the colony's defense. They cut the krogan supply lines off at Thessia's mass relay and inflicted heavy casualties. The krogan here surrendered, but others across the galaxy were enraged. Lusia became the catalyst for a much greater war.

Additional information:

Orbital Distance	2.6 AU
Orbital Period	4.1 Earth Years
Radius	8,479 km
Day Length	57.4 Earth Hours
Atm. Pressure	1.06 atm
Surface Temp	12 °C
Surface Gravity	1.2 *g*
Satellites	N/A

Colony	
Species	Asari
Capital	Monoi
Colony Founded	505 BCE
Population	2.2 billion

Niagolon is the second planet orbiting the star Tomaros. It is a hydrogen-helium gas giant. During the Lusia campaign that started the Krogan Rebellions, Niagolon was the site of krogan Overlord Kredak's ultimate defeat. As his flagship was discharging its drive core and undergoing repairs, an asari commando team snuck on board and detonated resonant warp bombs, sacrificing their lives to destroy the vessel through explosive decompression.

Additional information:

Orbital Distance	5.8 AU
Orbital Period	14 Earth Years
Radius	58,382 km
Day Length	10.1 Earth Hours
Satellites	N/A

Pronoia is the third planet orbiting the star Tomaros. It is a methane-ammonia gas giant, notable for the large deposits of platinum discovered by Lusia colonists on its largest moon. Asari have been selling the precious metal, used in some medical equipment, to the Sirta Foundation for less than its market value. The discount may have single-handedly saved Sirta from bankruptcy, a debt that is rapidly being repaid galaxy-wide through Sirta's humanitarian efforts.

Additional information:

Orbital Distance	10 AU
Orbital Period	31.8 Earth Years
Radius	16,105 km
Day Length	11.1 Earth Hours
Satellites	>1

Beness is the fourth planet orbiting the star Tomaros. It is an ice giant. It likely formed much closer to the system's star and migrated outward over time.

Additional information:

Orbital Distance	19.9 AU
Orbital Period	89 Earth Years
Radius	18,809 km
Day Length	11.1 Earth Hours
Satellites	N/A

Vernio

Vernio is a medium system with five planets and an asteroid belt.

Distance from Ialessa: 50 light-years
Distance from Orisoni: 62.2 light-years
Distance from Parnitha: 22.5 light-years
Distance from Tomaros: 50 light-years

Nauti is the first planet orbiting the star Vernio. It is a rocky planet with a crushing atmosphere. Thick clouds have created a runaway greenhouse effect, locking in the brutal heat from its yellow-white star, Vernio. Much of Nauti's surface is brittle rock with deposits of molten metal.

Additional information:

Orbital Distance	0.7 AU
Orbital Period	0.5 Earth Years
Radius	10,081 km
Day Length	54.4 Earth Hours
Atm. Pressure	78.03 atm
Surface Temp	1,300 °C
Surface Gravity	1.42 *g*
Satellites	N/A

Promavess is the second planet orbiting the star Vernio. It is a terrestrial world. Within three years, Promavess will slam into a neighboring planet, Sotera, and suffer an apocalyptic transformation. Asari explorers searching for life in Promavess's hydrocarbon morass were relieved to find none. Promavess's methane-ethane atmosphere is likely to ignite when it mingles with Sotera's oxygen, and both planets will shatter under the force of the collision.

Additional information:

Orbital Distance	1.4 AU
Orbital Period	1.3 Earth Years
Radius	6,563 km
Day Length	57.1 Earth Hours
Atm. Pressure	19.19 atm
Surface Temp	633 °C
Surface Gravity	0.82 *g*
Satellites	N/A

Sotera is the third planet orbiting the star Vernio. It is a terrestrial world. Its atmosphere retains a modest amount of oxygen, but it is too hot to support life that relies on liquid water. This is fortunate, because projections show that Sotera will collide with Promavess, a planet crossing its orbit, within the next three years. The impact is expected to pulverize both worlds while forming new asteroids and moons. The asari have constructed research stations at safe distances to record this rare event.

Additional information:

Orbital Distance	1.4 AU
Orbital Period	1.2 Earth Years
Radius	5,069 km
Day Length	22.4 Earth Hours
Atm. Pressure	1.62 atm
Surface Temp	219 °C
Surface Gravity	0.71 *g*
Satellites	N/A

Tritogenith is the fourth planet orbiting the star Vernio. It is a gas giant. The asari have set up research stations on the largest moon of Tritogenith, a gas giant, in order to observe the eventual collision of Promavess and Sotera.

Additional information:

Orbital Distance	10.8 AU
Orbital Period	27.3 Earth Years
Radius	52,103 km
Day Length	11.3 Earth Hours
Satellites	>1

Polissa is the fifth planet orbiting the star Vernio. It is a ringed gas giant composed of hydrogen, helium, and traces of ammonia. It has 26 moons, but the asari extracted the most valuable resource deposits from all of them long ago. The facilities have largely been forgotten in the face of greater excitement among the system's inner planets.

Additional information:

Orbital Distance	18.3 AU
Orbital Period	60.2 Earth Years
Radius	51,136 km
Day Length	15.5 Earth Hours
Satellites	26

1st asteroid belt: orbits Vernio at a distance of 5 AU

Minos Wasteland

Minos is named after a legendary king of Crete.

Minos Wasteland has three known star systems: the Arrae system, the Caestus system and the Fortis system.

The cluster's Mass Relay is located in the Fortis system.

Arrae

Arrae is a medium system with four planets.

Distance from Caestus: 12 light-years
Distance from Fortis: 11.3 light-years

Erros is the first planet orbiting the star Arrae. It is a terrestrial world. Erros is a turian word meaning "overlook" or "pleasant view," not to be confused with humanity's mythological Eros. The name refers to the planet's nearly absent atmosphere, allowing visiting probes and rovers a sweeping view of its volcanic mountains. Erros's hematite deposits give the world a reddish color. Accessible deposits of iron and copper have attracted second tier turian and volus conglomerates that robo-mine the surface.

Additional information:

Orbital Distance	0.8 AU
Orbital Period	0.7 Earth Years
Radius	7,095 km
Day Length	37.6 Earth Hours
Atm. Pressure	Trace
Surface Temp	127 °C
Surface Gravity	1.33 *g*
Satellites	N/A

Gellix is the second planet orbiting the star Arrae. It is a small terrestrial garden world. It was given to the krogan after the Rachni Wars, but bitterly contested in the Krogan Rebellions and reconquered by the turians. This left the turians as caretakers to a levo-amino-acid-base world that they could not inhabit themselves but were unwilling to give up.

In cooperation with the Vol Protectorate, the turians attempted to rent the planet out for colonization. Between the high price and a surface littered with unexploded ordinance, however, Gellix found few reputable tenants. Its most notable inhabitants were penal colonies. To those who know of it today, Gellix is a symbol of tragic waste - an entire garden world nearly forgotten by the galaxy at large.

Additional information:

Orbital Distance	1.6 AU
Orbital Period	2.0 Earth Years
Radius	3,842 km
Day Length	19.4 Earth Hours
Atm. Pressure	0.40 atm
Surface Temp	4 °C
Surface Gravity	0.774 *g*
Satellites	N/A

Colony	
Species	Turian
Capital	Anapondus
Colony Founded	658 CE (krogan) 801 CE (turian)
Population	54,000

Antinax is the third planet orbiting the star Arrae. It is a large terrestrial planet. Antinax has been passed over by the turians and potential investors alike. When the turians won the planet from the krogan, they sought to sell mineral rights, but ultimately found no buyers. One survey team dubbed it "a stinking world with nothing to recommend it but brimstone and bad steel," and like Gellix, the planet was soon forgotten.

Despite being farther from its parent star than Gellix, Antinax has a thick atmosphere of nitrogen and ethane-greenhouse gases that retain significant heat. There are four valuable minerals on Antinax, the most abundant being sulfur and iron.

Additional information:

Orbital Distance	3.05 AU
Orbital Period	5.3 Earth Years
Radius	9,584 km
Day Length	34.2 Earth Hours
Atm. Pressure	20.88 atm
Surface Temp	214 °C
Surface Gravity	1.5 *g*
Satellites	N/A

Nirrus is the fourth planet orbiting the star Arrae. It is a moderate-sized hydrogen-helium gas giant is of mild interest to turian scientists because of its abnormal atmospheric composition. The planet has only a fraction of the expected methane with high levels of carbon monoxide and ethylene instead.

Additional information:

Orbital Distance	6.2 AU
Orbital Period	15.5 Earth Years
Keplerian Ratio	0.992
Radius	56,378 km
Day Length	12.6 Earth Hours
Satellites	N/A

Caestus

Caestus is a small system with four planets.
Distance from Arrae: 12 light-years
Distance from Caestus: 22 light-years

Invictus is the first planet orbiting the star Caestus. It is a terrestrial world slightly larger than Earth. Home to dextro-amino-acid-based life, Invictus has temperate zones that were settled by a turian population that initially fell prey to a bewildering number of diseases. Two decades later after its first colony was founded the population had been reduced by half due to fatalities and a large colonist exodus. But when the Primarchs considered ceding the planet to robo-mining interests, the turian statesman Shastina Emperus ambitiously declared that she would start her own colony and double its population within five years. This effort succeeded, largely due to the colonies' location in deserts with a minimal number of pest species.

The image of Shastina's triumph in the frontier made for good political theater, and the turian population poured in. The planet's tropical belt still remains largely unexplored as its aggressive organic life still wreaks havoc on turian biology. A "house in an Invictus jungle" is a modern turian phrase for an idea that seems like a good idea but only to the one who came up with it. Invictus's atmosphere is primarily nitrogen and oxygen, and its surface crust varies but has high concentrations of alumina and silver. Because it can support life easily, criminals from throughout the Terminus Systems hide out on Invictus. Its official population is estimated to be half the number of sapients that are actually on the planet.

Additional information:

Orbital Distance	1.3 AU
Orbital Period	1.5 Earth Years
Radius	7,260 km
Day Length	31.6 Earth Hours
Atm. Pressure	1.15 atm
Surface Temp	30 °C
Surface Gravity	1.5 *g*
Satellites	N/A

Colony	
Species	Turian
Capital	Shastinasio
Colony Founded	1939
Population	32,0535,000 (est. 640,000,000 with illegals)

Temarus is the second planet orbiting the star Caestus. It is a small terrestrial world. Visible in Invictus's night sky is Temerarus, a planet named for the turian spirit said to have inspired the crew of their first manned moon launch. A boiling hot rock, Temerarus is much hotter than its temperate neighbor due to a thick atmosphere rich in carbon dioxide and helium. Its hot surface is composed largely of boron. Surrounded by a thick dust cloud, Temerarus is often struck by small meteors, making exploration dangerous.

Additional information:

Orbital Distance	3.4 AU
Orbital Period	6.3 Earth Years
Radius	3,321 km
Day Length	66.4 Earth Hours
Atm. Pressure	15.86 atm
Surface Temp	131 °C
Surface Gravity	0.2 *g*
Satellites	N/A

Fortis

Fortis is a small system with three planets.

Fortis is Latin for "strong" or "brave". The names of the planets in the Fortis system are named after ancient Roman ideals, virtues or gods.

Distance from Arrea: 11.3 light-years

Distance from Caestus: 22 light-years

Mass Relay: Orbits Caestus at a distance of 35 AU

Vir is the first planet orbiting the star Fortis. It is a pressure-cooker terrestrial planet with a thick, nitrogen-heavy atmosphere. Vir is largely ignored by the galactic community. Probes have revealed a crust of nickel and scorched carbon, both of which can be found in abundance elsewhere at far lower temperatures.

Additional information:

Orbital Distance	0.6 AU
Orbital Period	0.5 Earth Years
Radius	8,162 km
Day Length	44.4 Earth Hours
Atm. Pressure	106.22 atm
Surface Temp	778 °C
Surface Gravity	2.1 *g*
Satellites	N/A

Pietas is the second planet orbiting the star Fortis. It is a terrestrial world. Though Pietas has a combination of features that make terraforming a possibility, the rights to the planet have been tied up in Citadel Council courts for the past eight years. The running joke is that by the time the Council finally gives the go-ahead to colonize the planet, Pietas will evolved life of its own. Home to comfortable temperatures and a mild atmosphere of mostly nitrogen and argon, Pietas could be habitable with the addition of oxygen-producing cyanobacteria. Its crust is high in silicates and carbon, allowing for easy fabrication of construction materials.

Smugglers, pirates, and other unregistered starships sometimes touch on Pietas to lay low or make repairs. Civilian travel is not advised.

Additional information:

Orbital Distance	1.8 AU
Orbital Period	2.4 Earth Years
Radius	5,430 km
Day Length	26.5 Earth Hours
Atm. Pressure	1.26 atm
Surface Temp	21 °C
Surface Gravity	0.7 *g*
Satellites	N/A

Aequitas is the second planet orbiting the star Fortis. It is a terrestrial world home to the famous Iron Canyons. Aequitas has reddish iron oxide dust (hematite) covering much of its surface and significant blue cobalt deposits that freckle the terrain. Turian explorers have discovered hot springs in the polar ice caps, heated by magma in the planet's crust. In a strange combination of science and hucksterism a small facility exports water from these springs, which is bottled and sold as having medicinal properties. The funds are then used to maintain a research station, which has discovered some fossil evidence that Aequitas once harbored microscopic life, based on deoxyribonucleic acids in these springs.

Additional information:

Orbital Distance	4.0 AU
Orbital Period	8.0 Earth Years
Radius	7,437 km
Day Length	51.6 Earth Hours
Atm. Pressure	0.49 atm
Surface Temp	−85 °C
Surface Gravity	1.6 *g*
Satellites	N/A

Nimbus Cluster

Nimbus Cluster has four known star systems: the Agaiou system, the Kallini system, the Mesana system and the Pelion system.

The cluster's Mass Relay is located in the Pelion system.

Agaiou

Arrae is a medium system with two planets.

The system possesses two stars, the major one being Agaiou and the second, much smaller one, called Hali. Hali is an orange dwarf star, the cool companion to Agaiou, a yellow-white F-class star that is the primary source of mass and light in the system. The planets orbit both stars.

Distance from Kailini: 9.81 light-years

Distance from Mesana: 6 light-years

Distance from Pelion: 6 light-years

Carcosa is the first planet orbiting the star Agaiou. It is a terrestrial world. It was thought to be a naturally occurring hothouse planet until an asari expedition discovered palatial ruins on its barren surface. Likely the seat of an ancient city, the crumbling edifice dates back more than 2.7 million years. The only intact chamber appears to be a throne room, overlooking a large depression believed to have once been an enormous lake.

There is evidence that the people of Carcosa polluted their planet until it became uninhabitable, triggering a runaway greenhouse effect and spoiling the planet's fresh water supply.

Additional information:

Orbital Distance	3 AU
Orbital Period	5.3 Earth Years
Radius	7,484 km
Day Length	40 Earth Hours
Atm. Pressure	3.4 atm
Surface Temp	67 °C
Surface Gravity	1.1 *g*
Satellites	N/A

Neargas is the second planet orbiting the star Agaiou. It is an icy planet far from the system's twin suns. Star charts indicate that Neargas once orbited the binary star in a figure-8 pattern that proved to unstable to maintain. The planet is now hurtling out of the system.

Additional information:

Orbital Distance	26.6 AU
Orbital Period	N/A
Radius	3,897 km
Day Length	35.7 Earth Hours
Atm. Pressure	Trace
Surface Temp	-158 °C
Surface Gravity	0.38 *g*
Satellites	N/A

Kailini

Kailini is a medium system with three planets.
Distance from Agaiou: 9.81 light-years
Distance from Mesana: 7 light-years
Distance from Pelion: 7 light-years

Ithrone is the first planet orbiting the star Kailini. It is a large terrestrial world. Vast swaths of Ithrone's surface are covered in thick ash, spewed into the air be chains of volcanoes across the planet. Beneath this layer of soot, Ithrone has an iron core and significant levels of cobalt in its crust.

Additional information:

Orbital Distance	0.5 AU
Orbital Period	0.3 Earth Years
Radius	10,436 km
Day Length	61 Earth Hours
Atm. Pressure	2.17 atm
Surface Temp	566 °C
Surface Gravity	0.79 *g*
Satellites	N/A

Pania is the second planet orbiting the star Kailini. It is a rock planet exploited for minerals by robo-miners. Pania was named for an ancient mythological asari hero. Her music was so stirring the goddess Athame granted Pania anything her heart desired. Differing legends reflect the variety of hero cults of the time: in some stories, she became the first ruler of Armali, while others claim Pania took to the stars with Athame herself.

Additional information:

Orbital Distance	0.8 AU
Orbital Period	0.6 Earth Years
Radius	5,126 km
Day Length	55.5 Earth Hours
Atm. Pressure	Trace
Surface Temp	224 °C
Surface Gravity	0.47 *g*
Satellites	N/A

Colony	
Species	Asari

Lemnia is the third planet orbiting the star Kailini. It is a large terrestrial world. As with Pania, Lemnia had mining facilities in orbit, remotely controlling machines on the planet's surface to recover Lemnia's highly valued transuranic elements.

Additional information:

Orbital Distance	1.4 AU
Orbital Period	1.3 Earth Years
Radius	7,900 km
Day Length	39.7 Earth Hours
Atm. Pressure	8.69 atm
Surface Temp	479 °C
Surface Gravity	1.14 *g*
Satellites	N/A

Colony	
Species	Asari

Mesana

Mesana is a medium system with five planets.
Distance from Agaiou: 6 light-years
Distance from Kailini: 6 light-years
Distance from Pelion: 8.5 light-years

Lessus is the first planet orbiting the star Mesana. It is an unpopular garden world, with characteristics just outside of the comfort zone of its asari population. Its gravity is a little too high, its diseases a little too virulent, and the soil inhospitable for growing food. Further information is difficult to come by – the asari government is uncharacteristically silent about Lesuss. Normally, a garden world settled so long ago would be highly populated, but little light pollution can be seen on Lesuss's night side.

Lesuss is inhabited only by a small asari colony. The main feature is a monastery that houses a large population of asari with active or latent Ardat-Yakshi genes, a disorder that causes the death of anyone who mates with the afflicted asari. Although some of the colonists exiled themselves voluntarily, many were sent to Lesuss by their families to protect society from their deadly potential.

The monastery emphasizes individual sacrifice for the good of the community. Latent Ardat-Yakshi, as well as active sufferers who show that they can control their condition, may be offered a chance to reintegrate into asari society after spending sufficient time on Lesuss. Active Ardat-Yakshi whose psychological profiles show capacity for neither empathy nor reeducation are confined to the monastery for life.

Additional information:

Orbital Distance	0.8 AU
Orbital Period	0.8 Earth Years
Radius	6,126 km
Day Length	23.5 Earth Hours
Atm. Pressure	0.75 atm
Surface Temp	38 °C
Surface Gravity	1.23 *g*
Satellites	N/A

Colony	
Species	Asari
Capital	Marya
Colony Founded	473 BCE
Population	Unknown

Lymetis is the second planet orbiting the star Mesana. It is a desertified rock planet with a thin atmosphere of carbon dioxide and monoxide. The surface has water ice as well as occasional liquid water near volcanic areas. The planet has an abundant supply of zeolites, which the asari use for water purification, as an ingredient in detergent, and as a shielding material for disposal of radioactive waste. A small colony still maintains the mining equipment. Despite centuries of colonization, the asari have developed Lymetis at a modest pace. The planet shows no sign of resource exhaustion.

Additional information:

Orbital Distance	1.5 AU
Orbital Period	2 Earth Years
Radius	4,109 km
Day Length	63.6 Earth Hours
Atm. Pressure	0.17 atm
Surface Temp	-59 °C
Surface Gravity	0.76 *g*
Satellites	N/A

Colony	
Species	Asari
Capital	Irira
Colony Founded	430 BCE
Population	12,550

Medokos is the third planet orbiting the star Mesana. It is a medium-size gas giant. Although its mass exceeds that of Jupiter, the planet is somewhat denser and thus smaller. A large number of moons, plantesimals, and other detritus orbits Medokos, as its gravitational pull has "cleared the neighborhood" of material that might otherwise form an asteroid belt.

Additional information:

Orbital Distance	2.85 AU
Orbital Period	5.4 Earth Years
Radius	63,544 km
Day Length	10.4 Earth Hours
Satellites	>1

Shastessia is the fourth planet orbiting the star Mesana. A hydrogen-helium gas giant. Shastessia is a twin to its more massive neighbor Medokos in more than once sense. The two are named for a semi-mythological pair of twins from asari antiquity who ruled neighboring city-states and had a lifelong dialog about the best form of government. As the legend goes, Shastessia died before her vision of a democratic republic could be realized. Her sister, Medokos, then took up the cause, sacrificing personal power so that all free landowners in her city would have a voice. Although historians doubt that the changes were entirely altruistic, pointing to uprising that demanded representation, the development was a step towards modern asari government.

Additional information:

Orbital Distance	5.7 AU
Orbital Period	15.2 Earth Years
Radius	57,700 km
Day Length	12 Earth Hours
Satellites	N/A

Vylius is the fifth planet orbiting the star Mesana. It is a hydrogen-methane ice giant drifting out in the frozen depths. Its orbit hosts rings of rock and ice as well as many moons, all drawn from what would otherwise be a secondary asteroid field similar to Sol's Kuiper Belt.

Vylius is named for a trickster figure in asari mythology, a crafty animal called a manual that seduced asari maidens who then gave birth to hideously deformed offspring. In the tales, Vylius is caught and punished, but they serve as a warning to young asari not to initiate a bond with anyone they cannot trust.

Additional information:

Orbital Distance	11.5 AU
Orbital Period	43.7 Earth Years
Radius	22,972 km
Day Length	14.8 Earth Hours
Satellites	>1

Pelion

Pelion is a medium system with four planets.
Distance from Agaiou: 6 light-years
Distance from Kailini: 7 light-years
Distance from Mesana: 8.5 light-years

Zosteros is the first planet orbiting the star Pelion. It is a large terrestrial planet. The dense atmosphere of nitrogen and carbon monoxide has turned Zosteros into a hothouse of enormous windstorms that blow toxic gases nonstop. Its most valuable deposits are cobalt and polonium, which netted it the #3 spot on a list of "Amazingly Poisonous Planets," on the popular vidshow "Your Awesome Galaxy."

Additional information:

Orbital Distance	0.9 AU
Orbital Period	0.8 Earth Years
Radius	10,598 km
Day Length	71.3 Earth Hours
Atm. Pressure	30.95 atm
Surface Temp	406 °C
Surface Gravity	0.66 *g*
Satellites	N/A

Sthenia is the second planet orbiting the star Pelion. It is a large terrestrial world. The most temperate planet in the solar system, Sthenia is a terrestrial world with a light atmosphere of nitrogen and argon. Asari from neighboring Trategos built mining operations around the southern pole after discovering mountains with veins of iridium and osmium.

Additional information:

Orbital Distance	1.6 AU
Orbital Period	2.1 Earth Years
Radius	9,289 km
Day Length	68.3 Earth Hours
Atm. Pressure	0.54 atm
Surface Temp	34 °C
Surface Gravity	0.71 *g*
Satellites	N/A

Trategos is the third planet orbiting the star Pelion. Largely frozen ice except for liquid seas at the equator, Trategos has the coldest winters of any asari colony, taking it down near the second tier of habitability. Trategos's colonists are a hardy bunch, using the freezing winter months to test whether newcomers have what it takes to carve out a life on the planet.

Additional information:

Orbital Distance	2.3 AU
Orbital Period	3.5 Earth Years
Radius	7,682 km
Day Length	29.7 Earth Hours
Atm. Pressure	0.76 atm
Surface Temp	-42 °C
Surface Gravity	0.95 *g*
Satellites	N/A

Colony	
Species	Asari

Trategos is the fourth planet orbiting the star Pelion. The rock and ice planet Aitis's position was ideal for collecting data on extrasolar activity. According to star charts, the asari has a

small, VI-run system of satellites in geosynchronous orbit with the planet.

Additional information:

Orbital Distance	6.6 AU
Orbital Period	16.9 Earth Years
Radius	8,213 km
Day Length	23.7 Earth Hours
Atm. Pressure	Trace
Surface Temp	-146 °C
Surface Gravity	0.25 *g*
Satellites	N/A

Silean Nebula

Silean Nebula has five known star systems: the Kypladon system, the Loropi system, the Nahuala system, the Phontes system and the Teyolia system.

The cluster's Mass Relay is located in the Kypladon system.

Kypladon

Kypladon is a small system with three planets and an asteroid belt.

Distance from Loropi: 25 light-years
Distance from Nahuala: 35 light-years
Distance from Phontes: 36 light-years
Distance from Teyolia: 73 light-years

Mass Relay: Orbits Kypladon at a distance of 6 AU

Fuel Depot: Kypladon has fuel depots orbiting Cyone and Katebolo.

Hanalei is the first planet orbiting the star Kypladon. Early surveyors of Hanalei dismissed its resource potential, saying it had "more heat than a planet needs and more argon than a galaxy would buy." As an enormous terrestrial planet buried under a merciless atmosphere of argon, nitrogen, and carbon dioxide, Hanalei hosted only small orbital stations that were primarily scientific in nature.

Additional information:

Orbital Distance	0.5 AU
Orbital Period	0.4 Earth Years
Radius	11,477 km
Day Length	46.4 Earth Hours
Atm. Pressure	72.52 atm
Surface Temp	490 °C
Surface Gravity	2.36 *g*
Satellites	N/A

Cyone is the second planet orbiting the star Kypladon. It is a terrestrial garden world. This world's claim to military fame is that it was assaulted repeatedly during the Krogan Rebellions, but never occupied by more than token forces. The asari cut off the krogan supply line at the Citadel relay and drove the invaders out. Today, antimatter generators on the surface and in orbital stations provide fuel for military starships throughout asari space. The matriarchs defending the planet today have vowed to maintain Cyone's legacy -- they pledge it will fall to no enemy, organic or synthetic.

Additional information:

Orbital Distance	0.9 AU
Orbital Period	1.0 Earth Year
Radius	6,271 km
Day Length	39.6 Earth Hours
Atm. Pressure	0.84 atm
Surface Temp	23 °C
Surface Gravity	0.95 *g*
Satellites	N/A

Colony	
Species	Asari
Capital	Polos
Colony Founded	322 CE
Population	260 million

Katebolo is the second planet orbiting the star Kypladon. It is is a relatively large methane-ammonia ice giant. Although Cyone and its orbital stations offer military-grade starship fuel, commercial ships took advantage of the helium-3 refineries here.

Additional information:

Orbital Distance	4.1 AU
Orbital Period	9.1 Earth Years
Radius	48,746 km
Day Length	15.4 Earth Hours
Satellites	N/A

1st asteroid belt: orbits Kypladon at a distance of 2.1 AU. Aware that it only takes one weaponized asteroid to destroy the fueling station at Cyone, the asari seeded the asteroid belt in this system with a warning network of sensors and spy drones. The system's "brains" are server clusters at the equidistant asteroids Tropai, Lochia, and Nili.

Loropi

Loropi is a small system with two planets and an asteroid belt.

Distance from Kypladon: 25 light-years
Distance from Nahuala: 26 light-years
Distance from Phontes: 43 light-years
Distance from Teyolia: 90 light-years

Fuel Depot: Loropi has fuel depots orbiting Paphos

Paphos is the first planet orbiting the star Loropi. It is a hydrogen-helium gas giant with a significant amount of nitrogen, is named for a prominent asari lawgiver. Her treatise on the reluctance of democracies to go to war formed a key tenet of asari political theory that led to Thessia's modern golden age.

Additional information:

Orbital Distance	20.5 AU
Orbital Period	64.2 Earth Years
Radius	71,458 km
Day Length	17.8 Earth Hours
Satellites	N/A

Yasilium is the second planet orbiting the star Loropi. It is a minor rock planet that has not quite cleared the ring of debris at the edge of Loropi's orbits. It is believed to be a extrasolar capture. For several centuries, Yasilium supported a succession of mining colonies – first iridium, then titanium and finally light metals like bauxite and alumina.

Additional information:

Orbital Distance	38.3 AU
Orbital Period	164.1 Earth Years
Radius	2,601 km
Day Length	31.5 Earth Hours
Atm. Pressure	N/A
Surface Temp	-100 °C
Surface Gravity	0.47 *g*

Satellites	N/A

Colony	
Species	Asari

Espota Station

The asari have an enormous solar collectors around the bluish-white A0V star Loropi, using the star's considerable heat to create antiprotons for military starship fuel. It orbits the star at a distance of 30 AU.

Nothing else is known about the station, not even its population.

1st asteroid belt: orbits Loropi at a distance of 38.3 AU.

Nahuala

Nahuala is a small system with three planets and an asteroid belt.

Distance from Kypladon: 35 light-years
Distance from Loropi: 26 light-years
Distance from Phontes: 16 light-years
Distance from Teyolia: 64 light-years

Agessia is the first planet orbiting the star Nahuala. It is a terrestrial world. Rife with volcanic activity and scorched by the nearby orange star Nahuala, Agessia is an unforgiving and ever-shifting puzzle box of a planet. Ceaseless solar winds and magnetic bombardment have thinned Agessia's atmosphere, but these features are actually a boon in wartime. Powerful magnetic fields and large quantities of airborne volcanic ash make many forms of scanning difficult, allowing the asari to hide valuable palladium and molybdenum mines needed for any war effort.

Additional information:

Orbital Distance	0.48 AU
Orbital Period	0.4 Earth Years
Radius	5,984 km
Day Length	45.1 Earth Hours
Atm. Pressure	0.65 atm
Surface Temp	136 °C
Surface Gravity	0.92 *g*
Satellites	N/A

Colony	
Species	Asari

Hyetiana is the second planet orbiting the star Nahuala. It is an enormous terrestrial world and serves as a bastion of research for the asari, boasting multiple observation outposts, glacial drilling stations, and educational institutions. While the planet's average temperature hovers near freezing, the equatorial band contains oceans and many fresh-water rivers. Xenobiologists of all stripes often visited the planet, as its expansive facilities were a haven for the life sciences.

Additional information:

Orbital Distance	0.8 AU
Orbital Period	1.1 Earth Years
Radius	11,245 km
Day Length	19.2 Earth Hours
Atm. Pressure	1.35 atm
Surface Temp	1 °C
Surface Gravity	1.39 *g*
Satellites	N/A

Colony	
Species	Asari
Capital	Port Lerama
Colony Founded	735 CE
Population	119 million

Phoros is the third planet orbiting the star Nahuala. It is a hydrogen gas giant, tinted orange by swirling bands of ammonia and sulfur. Its four moons hosted small spaceports used to mine the moons and the nearby Haelimar asteroid belt.

Additional information:

Orbital Distance	2.45 AU
Orbital Period	4.3 Earth Years
Radius	57,188 km
Day Length	17.2 Earth Years
Satellites	4

Colony	
Species	Asari
Population	43,700

1st asteroid belt: orbits Loropi at a distance of 1.5 AU.

Phontes

Phontes is a medium system with four planets and an asteroid belt.

Distance from Kypladon: 36 light-years
Distance from Loropi: 43 light-years
Distance from Nahuala: 16 light-years
Distance from Teyolia: 48 light-years

Fuel Depot: Phontes has fuel depots orbiting Sangel

Lenuamund is the first planet orbiting the star Phontes. It is an enormous terrestrial world. Its scorching hot surface is composed of lime with deposits of copper. It has faint traces of nitrogen atmosphere. The elcor have left it untouched, aside from orbital probes that monitor the planet in case anything noteworthy should one day occur.

Additional information:

Orbital Distance	0.3 AU
Orbital Period	0.2 Earth Years
Radius	11,975 km
Day Length	42.1 Earth Hours
Atm. Pressure	Trace
Surface Temp	367 °C
Surface Gravity	1.14 *g*
Satellites	N/A

Dekkuna is the second planet orbiting the star Phontes. It is an enormous terrestrial world. The elcor homeworld Dekuuna overflows with natural resources protected by law, from large deposits of precious metals to vast forests. The elcor themselves live in rich grasslands near the equator. The majority of Dekuuna settlements are tucked within this belt, as the conservative elcor feel little desire to build outside their comfort zone. Their twin capitals are for migrations from the wet season to the dry season, a tradition made obsolete by modern technology but still observed.

Additional information:

Orbital Distance	1.1 AU
Orbital Period	1.1 Earth Years
Radius	10,387 km
Day Length	68.4 Earth Hours

Atm. Pressure	1.02 atm
Surface Temp	29 °C
Surface Gravity	4 *g*
Satellites	Oltan

Homeworld	
Species	Elcor
Capital	Sereuun, Malvuon
Population	2.35 billion

Dekkuna's moon: Oltan

The first mission to Oltan was a century in the making. Elcor leaders felt resources for space travel could be better used on their homeworld, and it took decades of persuasion to secure project funding.

Additional information:

Orbital Distance	625,369 km
Orbital Period	44.45 Earth Days
Radius	2,822 km
Day Length	44.45 Earth Days
Atm. Pressure	N/A
Surface Temp	-40 °C
Surface Gravity	0.24 *g*
Satellites	N/A

Telluune is the third planet orbiting the star Phontes. It is an enormous terrestrial world named after first elcor settlement in recorded history. The planet's name roughly translates to "the deep and restful meadowland," which is somewhat of misnomer given that Telluune's thick crushing atmosphere keeps its surface boiling hot, and the air is a noxious mixture of carbon dioxide and helium.

Additional information:

Orbital Distance	2.0 AU
Orbital Period	2.9 Earth Years
Radius	11,274 km
Day Length	57.6 Earth Hours
Atm. Pressure	61.04 atm
Surface Temp	3,418 °C
Surface Gravity	1.56 *g*
Satellites	N/A

Sangel is the third planet orbiting the star Phontes. It is a gas giant.

Additional information:

Orbital Distance	8.1 AU
Orbital Period	23.1 Earth Years
Radius	75,335 km
Day Length	9.7 Earth Hours
Satellites	N/A

Teyolia

Teyolia is a medium system with four planets.
Distance from Kypladon: 73 light-years
Distance from Loropi: 90 light-years
Distance from Nahuala: 64 light-years
Distance from Phontes: 48 light-years

Fuel Depot: Phontes has fuel depots orbiting Quirezia

Loxia is the first planet orbiting the star Teyolia. It is a small terrestrial planet tidally locked to Teyolia. Due to its low mass and relatively small size, Loxia has an exceptionally fast stellar orbit. The planet's light atmosphere consists mainly of argon and krypton, which occasionally produces long, thin bands of luminescence along the twilight boarder. Loxia's crust is mainly igneous rock with wide salt flats and occasional deposits of potassium.

Additional information:

Orbital Distance	0.7 AU
Orbital Period	0.43 Earth Years
Radius	3,016 km
Day Length	29.3 Earth Hours
Atm. Pressure	0.458 atm
Surface Temp	152 °C
Surface Gravity	0.47 *g*
Satellites	N/A

Nevos is the second planet orbiting the star Teyolia. First discovered by asari pioneers in 430 CE, Nevos is a vibrant garden planet and home to a thriving asari colony. Sandy beaches and romantic twin moons fuel a bustling tourism economy, while practical secretive corporate matters are handled in spiraling arcologies built along towering cliffs. Even though it has been colonized for centuries, Nevos feels a frontier away from regulation and oversight. Consequently, a number of influential political lobbies have established sizable presences on the planet.

Additional information:

Orbital Distance	1.6 AU
Orbital Period	1.8 Earth Years
Radius	7,134 km
Day Length	19.7 Earth Hours
Atm. Pressure	1.07 atm
Surface Temp	23 °C
Surface Gravity	1.11 *g*
Satellites	N/A

Colony	
Species	Asari
Capital	Astella
Colony Founded	430 CE
Population	677 million

Quirezia is the third planet orbiting the star Teyolia. It is a typical hydrogen-helium gas giant. It serves as a naval resource for fuel-gathering and magnetic-field discharge. The planet is surrounded by a band of seven large moons that form The Necklace – a reference to a legendary jewel owned by the ancient asari queen for which Quirezia was named.

Quirezia's orbit places it within the system's frost line, where gas giants do not usually form. For this reason, the planet is believed to be an extrasolar capture. The alternative, that its orbit is decaying, is a horrifying prospect to the tourism and immigration boards of Nevos, since they would be in the gas giant's eventual path.

Additional information:

Orbital Distance	2.48 AU
Orbital Period	3.9 Earth Years
Radius	68,541 km
Day Length	17.9 Earth Hours
Satellites	7

Atebolos is the fourth planet orbiting the star Teyolia. It is a low-density terrestrial planet peppered with outdated mining facilities and a few independent mechanical contractors. The unmanned mining scouts that first surveyed the planet conveyed positive reports, based on the light gravity, gentle atmospheric pressure, and easily penetrable crust of silica and salt. Neither methane pockets nor low temperatures were barriers to the asari,

but after centuries of mining, the veins of genuinely valuable minerals are gone and all but a few inhabitants have departed

Additional information:

Orbital Distance	7.45 AU
Orbital Period	20.4 Earth Years
Radius	8,152 km
Day Length	31.4 Earth Hours
Atm. Pressure	0.734 atm
Surface Temp	-177 °C
Surface Gravity	0.76 *g*
Satellites	N/A

Colony	
Species	Asari

Earth Alliance Space

Earth Systems Alliance Space, also known as the System's Alliance Space, is a region of the Milky Way galaxy bordered by Inner Council Space and the Attican Traverse. The name of the region is somewhat of a misnomer: While it includes Earth and much of the territory under the control of the human Systems Alliance, not all human colonies are located in this region. Moreover, it also envelops a tremendous amount of space previously desired by the Batarian Hegemony.

Earth has increased its holdings more than tenfold since the discovery of the Charon Relay linked humanity to the rest of the galaxy. Humanity's aggressive expansionism has triggered conflicts with several neighboring species and their governments, most notably the Batarian Hegemony. Despite this, the Systems Alliance shows no signs of slowing its growth.

Due to being extremely vast, the region isn't exactly a safe heaven. Batarian terrorists plague the borders with batarian space, and pirate raids from the Terminus Systems are common. Regardless, the Earth Systems Alliance is willing to continue to push into the Attican Traverse, with the Council's blessing but warning that the Citadel will do nothing if humanity insists going into the Traverse – lest they provoke a major war with the Terminus Systems.

Arcturus Stream

The Arcturus Stream is a stellar stream which includes the nearby bright star Arcturus. It comprises many stars which share similar proper motion and so are physically associated.

This stream is not in the plane of the Milky Way galaxy and is likely a remnant of an ancient dwarf satellite galaxy, long since disrupted and assimilated into the Milky Way. It consists of old stars deficient in heavy elements.

Arcturus Stream has two known star systems: the Arcturus system and the Euler system

The cluster's Mass Relay is located in the Arcturus system.

Arcturus

Arcturus is a small system with three planets and an asteroid belt.

Arcturus is a type K1.5 IIIpe red giant star located in the constellation of Boötes and, seen from Earth, is the third brightest star in the night sky. When the Charon Relay was activated in 2149, Jon Grissom's exploratory team found that the relay led to Arcturus, 36 light years from Earth. Arcturus in turn had several other mass relays in close proximity, which enabled humanity's rapid expansion into space.

Arcturus is home to the Arcturus Station, the Human Alliance centre of government.

Distance from Euler: 12 light-years

Mass Relay: Orbits Arcturus at a distance of 17 AU

Fuel Depot: Arcturus has fuel depots orbiting Eirene.

Themis is the first planet orbiting the star Arcturus. It is a hydrogen-helium gas giant. Themis is one of Arcturus's stable satellites. It rapidly orbits the massive star.

Additional information:

Orbital Distance	3.5 AU
Orbital Period	1.3 Earth Years
Radius	56,484 km
Day Length	14.1 Earth Hours
Satellites	N/A

Eirene is the second planet orbiting the star Arcturus. It is one of Arcturus' hydrogen-helium gas giants, Eirene has infrastructure in place for fueling civilian and military starships with helium-3 and antiprotons.

Additional information:

Orbital Distance	6.8 AU
Orbital Period	3.6 Earth Years
Radius	44,077 km
Day Length	10.3 Earth Hours
Satellites	N/A

Eunomia is the third planet orbiting the star Arcturus. It is largely made of ice – frozen around a metal-poor core. Its deposits were of little use to the humans building Arcturus Station, who favored materials from the asteroids towed into the system. Eunomia lies neglected in the void.

Additional information:

Orbital Distance	13.4 AU
Orbital Period	10.0 Earth Years
Radius	4,758 km
Day Length	63.6 Earth Hours
Atm. Pressure	Trace
Surface Temp	-170 °C
Surface Gravity	0.36 *g*
Satellites	N/A

Arcturus Station

Arcturus Station is a 5-kilometer diameter Stanford Torus-type space station, at the trailing Lagrange point (L_5) of the gas giant Themis. Construction on Arcturus Station began in 2151 and concluded in 2162, utilising many metal-rich asteroids that remain nearby, housing transient populations. Arcturus Station was inaugurated in 2156, and has served as the military and political headquarters of the Systems Alliance since the First Contact War. Arcturus Station currently has a permanent population of 45,000

As the headquarters of the Alliance Navy, Arcturus Station is the command center of the fleet, and is conveniently located at the nexus of several mass relays. Furthermore, it guards the mass relay leading to Earth. Arcturus's centralized location makes it an ideal choke point for defense as well as a jumping-off point for further exploration. It also serves as a shipyard, as the dreadnought SSV Aconcagua was constructed there. Admiral Hackett commands the Fifth Fleet from Arcturus.

1st asteroid belt: orbits Arcturus at a distance of 1 AU. The belt also has various asteroids towed to the system to help build Arcturus Station. The largest of them being Alcyoneus.

Becaue of that, many of the asteroids possess transient communities, mostly human.

Euler

Euler is a medium system with four planets.

The star and at least some of the planets in the system are named after human physicists and mathematicians. In particular, the star is possibly named after Leonhard Euler, a Swiss physicist.

Distance from Arcturus: 12 light-years

Fuel Depot: Euler has fuel depots orbiting Silva.

Fermi is the first planet orbiting the star Euler. It is a rock wrapped in a haze of carbon dioxide and oxygen, though its temperatures and concentrations make it difficult to support life. Many moons and debris are in its immediate vicinity, leading researchers to believe that at some point Fermi was impacted by something large, launching fragments of the planet into orbit.

Additional information:

Orbital Distance	0.6 AU
Orbital Period	0.4 Earth Years
Radius	4,194 km
Day Length	60.0 Earth Hours
Atm. Pressure	8.09 atm
Surface Temp	358 °C
Surface Gravity	0.63 *g*
Satellites	>1

Benning is the second planet orbiting the star Euler. It is the nearest garden world to Arcturus Station, is the primary source of its food supply and an important staging area for starship maintenance and repair.

Additional information:

Orbital Distance	1.1 AU
Orbital Period	0.9 Earth Years
Radius	9,362 km
Day Length	N/A
Atm. Pressure	1.13 atm
Surface Temp	63 °C
Surface Gravity	1.14 *g*
Satellites	N/A

Colony	
Species	Human
Capital	Joughin
Colony Founded	2153
Population	2.25 million

Yukawa is the third planet orbiting the star Euler. It is a small rock planet with a thin atmosphere of carbon dioxide. After a labor dispute with companies shipping metallic asteroids to the nearby Arcturus system, Yukawa's iron core and blanket of hematite were briefly mined to aid in the construction of Arcturus Station. Yukawa's reputation as "the scab planet" persists to this day, as its other resources are not particularly notable.

Additional information:

Orbital Distance	2.2 AU
Orbital Period	2.7 Earth Years
Radius	2,943 km
Day Length	64.9 Earth Hours
Atm. Pressure	Trace
Surface Temp	-27 °C
Surface Gravity	N/A
Satellites	N/A

Silva is the fourth planet orbiting the star Euler. Named for Mateus Silva, leader of the prospector team that unearthed the Prothean Archives on Mars, this ice giant is home to a large recovery operation for helium-3.

Additional information:

Orbital Distance	4.1 AU
Orbital Period	6.8 Earth Years
Radius	31,096 km
Day Length	17.7 Earth Hours
Satellites	1

Argos Rho

The known systems of Argos Rho are named after creatures from Greek mythology.

Argos Rho has three known star systems: the Gorgon system, the Hydra system and the Phoenix system.

The cluster's Mass Relay is located in the Hydra system.

Gorgon

Gorgon is a medium system with five planets.

The system is named after the gorgons of Greek mythology. Medusa, who was slain by Perseus, is the best known of the three named gorgons. The ancient stories speak of Medusa transforming men into stone when they gazed directly at her. This is reminiscent of how the tidally-locked planets of the system, Wuo and Camaron, have the side that is facing Gorgon perpetually scorched, with the opposite side being completely frozen, thus making colonization impractical at best. Gorgon is classified as a B-type star.

Warning: due to the huge distance between planets, it is not advisable to travel to Gorgon without a ship with a high fuel capacity.

Distance from Hydra: 5.6 light-years

Distance from Phoenix: 10 light-years

Wuo is the first planet orbiting the star Gorgon. It is a terrestrial planet only known from scan data picked up by unmanned probes. Though over 76 AU from the blue giant Gorgon, temperatures in Wuo's orbit are still dangerously high. Only ships with very powerful heat radiating systems can venture that deep into the system.

Fortunately, Wuo is not a terribly interesting world. It has a thin atmosphere of nitrogen and methane, and the scorching surface is mainly composed of alumina with deposits of platinum. The world is tidally locked to Gorgon, leaving the sunward side a scorched and irradiated wasteland, and the dark side frigid and ice-crusted.

Additional information:

Orbital Distance	76.4 AU
Orbital Period	158.0 Earth Years
Radius	6,959 km
Day Length	158.0 Earth Years
Atm. Pressure	0.44 atm
Surface Temp	1,157 °C
Surface Gravity	0.66 *g*
Satellites	N/A

Vectra is the second planet orbiting the star Gorgon. It is a typical hydrogen-helium gas giant with traces of methane and sodium in its atmosphere. The heat of the star Gorgon is slowly

blasting away the gas giant's massive atmosphere, which is visible as a long, dim tail that trails behind the planet.

Additional information:

Orbital Distance	99.45 AU
Orbital Period	234.7 Earth Years
Radius	69,833 km
Day Length	234.7 Earth Years
Satellites	N/A

Camaron is the third planet orbiting the star Gorgon. It is a terrestrial world with a thin atmosphere of carbon dioxide and argon. The surface is scorching hot, primarily composed of iron with deposits of nickel. Like Wuo, Camaron is tide-locked to the blue giant, forever "looking into the face of the Gorgon."

Additional information:

Orbital Distance	199.0 AU
Orbital Period	664.8 Earth Years
Radius	5,198 km
Day Length	664.8 Earth Years
Atm. Pressure	0.23 atm
Surface Temp	747 °C
Surface Gravity	0.55 *g*
Satellites	N/A

Sharblu is the fourth planet orbiting the star Gorgon. It is a standard hydrogen-helium gas giant, the methane in Sharblu's atmosphere gives it an azure hue.

The asari crew who initially surveyed the system (during Earth's 17th century) named Sharblu after a then-popular soprano. The singer was renowned for her unusual skin tone, which was quite similar to that of the planet.

Additional information:

Orbital Distance	373.63 AU
Orbital Period	1,711.0 Earth Years
Radius	43,342 km
Day Length	1,711.0 Earth Years
Satellites	N/A

Slekon is the fifth planet orbiting the star Gorgon. Orbiting at an unbelievable distance of 710 AU (over 66 billion kilometers) from Gorgon, Slekon is a huge gas giant, with an atmosphere tainted by methane and chlorine.

Additional information:

Orbital Distance	709.9 AU
Orbital Period	4,483.1 Earth Years
Radius	77,115 km
Day Length	4,483.1 Earth Years
Satellites	N/A

Hydra

Hydra is a medium system with five planets.

It is named after the Lernaean Hydra, a monster from Greek mythology with nine heads that is killed by Hercules during his Twelve Labors.

Distance from Gorgon: 5.6 light-years

Distance from Phoenix: 5 light-years

Mass Relay: Orbits Hydra at a distance of 35 AU

Varmalus is the first planet orbiting the star Hydra. It is a terrestrial world that has a thick atmosphere of nitrogen and helium. Its surface is scorching hot, and mainly composed of alumina with deposits of borax. The planet has an extensive network of subterranean caves, formed over the millennia by volcanic processes. In these relatively cool areas, some primitive life has developed.

Additional information:

Orbital Distance	0.5 AU
Orbital Period	0.4 Earth Years
Radius	9,593 km
Day Length	19.4 Earth Hours
Atm. Pressure	1.3 atm
Surface Temp	503 °C
Surface Gravity	1.2 *g*
Satellites	N/A

Metgos is the second planet orbiting the star Hydra. It is a large terrestrial planet with an atmosphere of carbon dioxide and nitrogen. Its hot surface is mainly composed of nickel with deposits of potassium and heavy metals. It is a mineralogical treasure trove, with concentrated heavy elements constantly being brought to the surface by volcanic activity.

Metgos is inhospitable and dangerous, and expeditions must be well-prepared to survive any length of time. With its high mass, heat-trapping clouds and constant volcanic venting, Metgos seems well on its way to becoming a Venusian "pressure cooker" world.

Additional information:

Orbital Distance	2.0 AU
Orbital Period	2.8 Earth Years
Radius	7,301 km
Day Length	47.2 Earth Hours
Atm. Pressure	1.00 atm
Surface Temp	169 °C
Surface Gravity	1.1 *g*
Satellites	N/A

Theyar is the third planet orbiting the star Hydra. It is a large gas giant with traces of chlorine and sodium in its atmosphere. It also has a significant amount of water vapor in the clouds of its upper atmosphere.

Theyar was struck by an asteroid at least 12 kilometers in diameter within the last hundred years. The superheating caused by the impactor's atmospheric passage created a large bank of vicious storms along the equatorial band.

Additional information:

Orbital Distance	5.45 AU
Orbital Period	12.8 Earth Years
Radius	60,774 km
Day Length	11.8 Earth Hours
Satellites	N/A

Canrum is the fourth planet orbiting the star Hydra. It is a small, rocky world with a trace atmosphere of methane and krypton. Its surface is mainly composed of magnesium and silicates with deposits of carbon.

Canrum was the site of the warlord Shiagur's defeat by turian peacekeeping forces during the Krogan Rebellions. While this band was not especially powerful, Shiagur was a female warlord – and one of the few remaining fertile females, at that. She had, through viciousness and cunning, parlayed her unique value into a position of power. Krogan males competed for the right to join her band and lie with her.

When Shiagur's death was announced, vengeful male krogan admirers near and far swore blood oaths against the participating turian crews. In the end, several thousand of the turian participants were killed in open combat or through assassination. To this day, many krogan proudly proclaim that they have the "blood of Shiagur."

Additional information:

Orbital Distance	16.52 AU
Orbital Period	67.3 Earth Years
Radius	5,220 km
Day Length	32.5 Earth Hours
Atm. Pressure	0.07 atm
Surface Temp	-132 °C
Surface Gravity	0.55 *g*
Satellites	N/A

Syba is the fifth planet orbiting the star Hydra. It is a standard Neptune-type gas giant, the upper cloud decks of its hydrogen-helium atmosphere tinted a dramatic blue by traces of methane.

Additional information:

Orbital Distance	29.66 AU
Orbital Period	162.1 Earth Years
Radius	45,145 km
Day Length	12.8 Earth Hours
Satellites	N/A

Phoenix

Phoenix is a medium system with five planets and two asteroid belts. It is also the system where Pinnacle Station is.

This system may be named for the phoenix, a mythical bird from Arabia that burns itself in a fire and is reincarnated from the ashes every 500 years.

Distance from Gorgon: 10 light-years

Distance from Hydra: 5 light-years

Patashi is the first planet orbiting the star Phoenix. It is a sun-blasted terrestrial world whose atmosphere was blasted away millennia ago by the star Phoenix. The surface is scorching hot, and mainly composed of iron with deposits of tin.

Due to its relatively low density, Patashi is tidally locked to Phoenix. Seas of molten light metals cover much of the sunward side.

Additional information:

Orbital Distance	0.5 AU
Orbital Period	0.3 Earth Years
Radius	7,082 km
Day Length	0.3 Earth Years
Atm. Pressure	0.00 atm
Surface Temp	546 °C
Surface Gravity	0.75 *g*
Satellites	N/A

Sylsalto is the second planet orbiting the star Phoenix. It is a standard Neptune-type "ice giant". It has no remarkable features.

Additional information:

Orbital Distance	13 AU
Orbital Period	36.0 Earth Years
Radius	56,621 km
Day Length	13.6 Earth Hours
Satellites	N/A

Intai'sei is the third planet orbiting the star Phoenix. An atmosphere similar to Earth's made Intai'sei an early candidate for human colonization. However, prohibitively high temperatures and an arid climate have proven a hindrance to terraforming and agriculture. A few human cities were founded, but the majority of the human population on Intai'sei remains scattered across the vast deserts, operating wind farms and geological research stations.

Additional information:

Orbital Distance	15.68 AU
Orbital Period	47.8 Earth Years
Radius	5,897 km
Day Length	27.6 Earth Hours
Atm. Pressure	0.95 atm
Surface Temp	46 °C
Surface Gravity	0.8 *g*
Satellites	N/A

Colony	
Species	Human
Capital	Thoreau Mesa
Colony Founded	2166 CE
Population	150,000

Tuntau is the fourth planet orbiting the star Phoenix. It is an enormous, low-density terrestrial planet, with a thick atmosphere of methane and helium. Despite being nearly 20 AU from Phoenix, the star's great heat and the insulating thickness of the atmosphere make the surface surprisingly temperate.

The crust is mainly composed of sodium and silicon dioxide with deposits of various light metals. While Tuntau is not habitable, the relative pleasantness of the surface conditions make it a popular location for small ships traveling through the Argos Rho cluster to land for drive discharge.

Additional information:

Orbital Distance	19.01 AU
Orbital Period	63.8 Earth Years
Radius	11,867 km
Day Length	69.7 Earth Hours
Atm. Pressure	3.12 atm
Surface Temp	21 °C
Surface Gravity	1.1 *g*
Satellites	N/A

Vebinok is the fifth planet orbiting the star Phoenix. It is a small terrestrial world with a thin atmosphere of krypton and xenon. Its frozen surface is mainly composed of carbonaceous material, water ice, and low-density silicates. Rare but concentrated lodes of light metals have been deposited by asteroid impacts.

One hemisphere of Vebinok is covered by surface deposits of oxidized copper. Approximately 270 years ago a turian bulk gas transport was attacked by pirates in the Phoenix system. Damaged, it made a rough landing on Vebinok. The heat of the landing melted significant quantities of surface ice, and ruptured shipping containers spilled LOX across the surface. Before this evaporated and escaped Vebinok's weak gravity, it reacted to cause the widespread rust.

Additional information:

Orbital Distance	24.7 AU
Orbital Period	94.5 Earth Years
Radius	3,379 km
Day Length	68.3 Earth Hours
Atm. Pressure	0.27 atm
Surface Temp	−154 °C
Surface Gravity	0.28 *g*
Satellites	N/A

Pinnacle Station was built on an asteroid, in the second asteroid belt. It was originally constructed as a concealed command center during the Krogan Rebellions. It has been retrofitted as a military training facility for all high-level special

operations teams employed by the Council. The station's combat simulator allows teams to train under a variety of hazardous conditions.

The station has three notable sections. After the airlock, visitors enter the command center, where the station's operators and commanding officer can be found. The command centre shows evidence of the station's turian heritage as, like the construction of the SSV Normandy's CIC, the CO is placed behind and above his subordinates to look over them. The command centre also offers a spectacular view of Vebinok and the local asteroid field.

The second section, the observation deck, is where competitors rest between scenarios, check their scores, and watch other competitors going through the simulator. Ochren, the simulator's designer, is on hand here to set up new scenarios and monitor the simulation.

The third section is the simulator itself. Using a combination of sophisticated combat VIs, holographic images and kinetic barriers, the simulator can produce small-scale combat scenarios to test the competitors, using kinetic slugs to simulate damage (though they hurt as much as real rounds, and actually cause damage if they penetrate shields).

1st asteroid belt: orbits Phoenix at a distance of 9 AU
2nd asteroid belt: orbits Phoenix at a distance of 20 AU

Artemis Tau

The Artemis Tau cluster is named after Artemis the huntress, who was the Greek goddess of forests and hills.

The four star systems of the Artemis Tau cluster are named after cities or kingdoms in ancient Greece and Crete.

The cluster's Mass Relay is located in the Athens system.

Athens

Athens is a medium system with five planets and an asteroid belt. It is named after the classical Greek city-state of Athens. All the planets in the system are named after characters and locations associated with ancient Greece.

Distance from Knossos: 4 light-years
Distance from Macedon: 5 light-years
Distance from Sparta: 7 light-years

Mass Relay: Orbits Hydra at a distance of 42 AU

Salamis is the first planet orbiting the star Athens. The geological properties of Salamis have been scanned from orbit, but little else is known about it. Due to its thick carbon dioxide atmosphere and proximity to the energetic star Athens, the equatorial daytime temperatures have been known to turn the surface molten. The crust is composed of iron with deposits of platinum group metals.

Additional information:

Orbital Distance	0.55 AU
Orbital Period	0.4 Earth Years
Radius	6,894 km
Day Length	58.6 Earth Hours
Atm. Pressure	1.40 atm
Surface Temp	520 °C
Surface Gravity	1.3 *g*
Satellites	N/A

Proteus is the second planet orbiting the star Athens. Like the hanar homeworld, Proteus has more than 90% oceanic cover. The incredible heat thrown off from Athens raises global humidity to 100%, creates constant cloud cover, and powers colossal typhoons that rage across the surface year-round.

Hot, humid, and storm-wracked, Proteus' rare combination of oxygen-nitrogen atmosphere and carbon-based biosphere nevertheless recommend it for colonization. A pilot program is studying the possibility of colonies below the ocean surface, safe from the worst effects of the weather.

Additional information:

Orbital Distance	3 AU
Orbital Period	4.9 Earth Years
Radius	10,210 km
Day Length	51.4 Earth Hours
Atm. Pressure	1.21 atm
Surface Temp	34 °C
Surface Gravity	1.3 *g*
Satellites	N/A

Colony	
Species	Human
Capital	Ithaka
Colony Founded	2179
Population	12,470

Nausicaa is the third planet orbiting the star Athens. It is a standard gas-giant. Traces of sodium in the atmosphere give Nausicaa its overall dark grey color, but it is otherwise a typical hydrogen-helium gas giant. An abundance of water vapor in the upper atmosphere account for its white clouds.

Additional information:

Orbital Distance	14.91 AU
Orbital Period	57.6 Earth Years
Radius	59,729 km
Day Length	14.0 Earth Hours
Satellites	N/A

Circe is the fourth planet orbiting the star Athens. It is a modestly Neptune-type planet with traces of sulphur and chlorine. These give it its striking yellow-green tint. As the development of the Proteus colony continues, Circe will likely be developed for helium-3 mining.

Additional information:

Orbital Distance	27.2 AU
Orbital Period	141.9 Earth Years
Radius	22,479 km
Day Length	10.9 Earth Hours
Satellites	N/A

Pharos is the fifth planet orbiting the star Athens. It has seen only a cursory examination by an unmanned probe. It has a trace atmosphere of nitrogen and argon. Its surface is mainly composed of tin with deposits of carbon. Deeper craters have been partly filled by ice, suggesting there may be a significant amount of water locked up beneath its frozen surface. A large, ice-bright crater in the southern hemisphere makes the planet visible from the inner system, leading to the planet's name.

Additional information:

Orbital Distance	42.3 AU
Orbital Period	275.4 Earth Years
Radius	7,623 km
Day Length	47.4 Earth Hours
Atm. Pressure	0.04 atm
Surface Temp	−176 °C
Surface Gravity	0.9 *g*
Satellites	1

1st asteroid belt: orbits Athens at a distance of 4.6 AU

Knossos

Knossos is a medium system with five planets and two asteroid belts. It is named after the classical Minoan (and, later, Greek) city of Knossos. Fittingly, all the planets in the Knossos system (with the exception of Therum) are named for ancient Minoan cities and monuments.

Distance from Athens: 4 light-years
Distance from Macedon: 8 light-years
Distance from Sparta: 4 light-years

Fuel Depot: Knossos has a fuel depot orbiting at a distance of 30 AU

Phaistos is the first planet orbiting the star Knossos. It is a small terrestrial with a trace atmosphere of carbon dioxide and xenon. The surface is scorching hot, and mainly composed of sulphur and various silicates. There is little of interest on this desolate world.

Additional information:

Orbital Distance	0.5 AU
Orbital Period	0.3 Earth Years
Radius	4,238 km
Day Length	57.2 Earth Hours
Atm. Pressure	0.27 atm
Surface Temp	551 °C
Surface Gravity	0.63 *g*
Satellites	N/A

Therum is the second planet orbiting the star Knossos. It is a distant but rich industrial world claimed by the human Systems Alliance. Its plentiful heavy metals have fueled the recent manufacturing boom on Earth. Core samples rich with the fossils of simple silicon-based organisms indicate Therum was more habitable in the past than it is at present. Perhaps this explains the many Prothean ruins dotting the surface, most of which have been looted by mining corporations.

Additional information:

Orbital Distance	4 AU
Orbital Period	6.4 Earth Years
Radius	6,724 km
Day Length	28.3 Earth Hours
Atm. Pressure	0.68 atm
Surface Temp	59 °C
Surface Gravity	1.12 *g*
Satellites	N/A

Colony	
Species	Human
Capital	Nova Yekaterinburg
Colony Founded	2167
Population	34,000

Zakros is the third planet orbiting the star Knossos. It is a terrestrial world with a nitrogen-methane atmosphere containing trace amounts of hydrocarbons. Its frigid surface is mainly composed of water ice and hydrocarbon slush. Most of the surface is not solid enough to support the full weight of a landed ship. If approach is necessary, use shuttles or keep the ship's mass effect envelope up.

Additional information:

Orbital Distance	11 AU
Orbital Period	33.9 Earth Years
Radius	4,572 km
Day Length	45.6 Earth Hours
Atm. Pressure	0.40 atm
Surface Temp	-71 °C
Surface Gravity	0.4 *g*
Satellites	N/A

Armeni is the fourth planet orbiting the star Knossos. It is a terrestrial world with an unusually thin atmosphere of krypton and xenon. Its surface is composed of silica with deposits of carbonaceous materials. The initial flyby probe of Armeni detected multiple areas at the equator with oddly regular surface protrusions.

Closer investigation revealed these as millions of elaborate crypts a few meters below the surface, left by a long-extinct space-faring species called the zeioph. Many human universities wish to perform archaeological excavations. Council law holds grave sites as sacrosanct, however, and the matter has been tied up in court for a decade.

Additional information:

Orbital Distance	28.9 AU
Orbital Period	151.3 Earth Years
Radius	6,077 km
Day Length	57.8 Earth Hours
Atm. Pressure	0.18 atm
Surface Temp	−168 °C
Surface Gravity	0.8 *g*
Satellites	N/A

Archanes is the fifth planet orbiting the star Knossos. It is a small "ice giant". The planet has been developed as a full-featured, if modest, stopover for ships hauling refined materials from Therum. In addition to a powerful magnetic field to dump drive charge, Archanes has a largely automated infrastructure of helium-3 refining and deuterium mining on its many water ice moons.

Additional information:

Orbital Distance	60.6 AU
Orbital Period	470.2 Earth Years
Radius	14,549 km
Day Length	16.2 Earth Hours
Satellites	> 1

1st asteroid belt: orbits Knossos at a distance of 1.8 AU
2nd asteroid belt: orbits Knossos at a distance of 37 AU

Macedon

Macedon is a medium system with four planets and an asteroid belt. It is named after the ancient Greek kingdom of Macedon.

Distance from Athens: 5 light-years
Distance from Knossos: 8 light-years
Distance from Sparta: 6 light-years

Sharjila is the first planet orbiting the star Macedon. It has a very dense atmosphere of ammonia and oxygen. Its temperate surface is mainly composed of alumina with deposits of sulfur. Comm buoys in the system have recently logged a number of unregistered vessels operating nearby.

Sharjila has an extensive silicon-based, oxygen-breathing ecology. Heavily populated areas are covered with fine silica (silicon dioxide) dust, the respiratory by-product of the world's higher animal forms. High-speed surface winds, often laden with abrasive silica dust, present a hazard. In areas where the wind deposits a great deal of silica, footing can be treacherous. EVAs are discouraged.

Additional information:

Orbital Distance	0.67 AU
Orbital Period	1.0 Earth Year
Radius	5,693 km
Day Length	40.6 Earth Hours
Atm. Pressure	39.16 atm
Surface Temp	25 °C
Surface Gravity	0.9 *g*
Satellites	N/A

Porolan is the second planet orbiting the star Macedon. It is an enormous terrestrial planet, half again the size of Earth. Despite its thick atmopshere, the weak output of the red dwarf Macedon leaves its surface biting cold. The crust is mainly composed of silica, but significant deposits of iron and other industrial metals are present. These lodes may prove rich enough to be profitably mined despite the heavy gravity.

Orbital Distance	5.07 AU
Orbital Period	21.0 Earth Years
Radius	9,749 km
Day Length	45.4 Earth Hours
Atm. Pressure	1.4 atm
Surface Temp	-197 °C
Surface Gravity	1.5 *g*
Satellites	N/A

Patavig is the third planet orbiting the star Macedon. It is the second of the Macedon system's giant terrestrial planets, and by far the more interesting. Most of the surface is covered by a vast sea of liquid ammonia, in which a unique aquatic ammonia-based biosphere has developed. While the frozen continents are largely bereft of life, a rich bounty of complex organisms – many larger than a human – flourish in the chilly, toxic seas.

While dreadfully inhospitable to humans, Patavig is suitable for colonization by the volus. Negotiations between the Systems Alliance and the volus' patrons, the Turian Hierarchy, have made good progress.

Additional information:

Orbital Distance	11.3 AU
Orbital Period	69.8 Earth Years
Radius	10,529 km
Day Length	30.4 Earth Hours
Atm. Pressure	22.4 atm
Surface Temp	−230 °C
Surface Gravity	1.6 *g*
Satellites	N/A

Fargeluse is the fourth planet orbiting the star Macedon. It is a standard "ice giant" with an abundance of airborne hydrocarbons.

Additional information:

Orbital Distance	15.46 AU
Orbital Period	111.7 Earth Years
Radius	40,394 km
Day Length	19.1 Earth Hours
Satellites	N/A

1st asteroid belt: orbits Macedon at a distance of 13AU

Sparta

Sparta is a medium system with five planets and two asteroid belts. It is probably named for the ancient Greek city-state of Sparta.

Distance from Athens: 7 light-years

Distance from Knossos: 4 light-years

Distance from Macedon: 6 light-years

Tremanre is the first planet orbiting the star Sparta. It is a dwarf planet composed of light magnesium silicates, with deposits of aluminum. Its surface is covered by wide swathes of ancient, dark basaltic lava, possibly indicating the world was created through an impact with some other body in the system.

Tremanre's magnetic field is nonexistent. This makes it impossible for ships to dump their drive core charge from orbit. That said, Tremanre's minuscule gravity allows even cruiser-sized vessels to land safely for direct grounding.

Additional information:

Orbital Distance	0.9 AU
Orbital Period	1.0 Earth Year
Radius	1,528 km
Day Length	1.0 Earth Hour
Atm. Pressure	0.00 atm
Surface Temp	55 °C
Surface Gravity	0.1 *g*
Satellites	N/A

Edolus is the second planet orbiting the star Sparta. It is a terrestrial planet with an atmosphere of carbon dioxide and nitrogen. Edolus' surface is covered by wide deserts of silicate sand, with only a few areas of igneous rock highlands to break the abrasive, dust-choked wind.

Edolus' orbit is congested with debris thrown inwards by the gravity of the gas giant Ontamalca. Due to a high rate of meteor impacts, exploration is highly dangerous.

Additional information:

Orbital Distance	1.75 AU
Orbital Period	2.7 Earth Years
Radius	5,729 km
Day Length	50.3 Earth Hours
Atm. Pressure	0.8 atm
Surface Temp	−1 °C
Surface Gravity	0.87 *g*
Satellites	N/A

Altaaya is the third planet orbiting the star Sparta. It is an unusually large terrestrial world with a trace atmosphere of methane and ammonia. The surface is frozen, and mainly composed of sandstone and other sedimentary rocks with deposits of iron and chlorides. Judging by the sedimentary composition of the crust, it appears that Altaaya once possessed an atmosphere thick enough to support some form of liquid. What cataclysm stripped the atmosphere and left the planet to freeze is not currently known.

Orbital Distance	6.34 AU
Orbital Period	18.1 Earth Years
Radius	11,190 km
Day Length	47.2 Earth Hours
Atm. Pressure	0.20 atm
Surface Temp	-136 °C
Surface Gravity	1.7 *g*
Satellites	N/A

Ontamalca is the fourth planet orbiting the star Sparta. It is a large hydrogen-helium gas giant with traces of chlorine and sulphur in the atmosphere. Its massive gravity well tugs many asteroids from the outer belt inwards, past the orbit of Altaaya and Edolus and eventually settle into the inner belt.

Ontamalca's orbit is congested with hundreds of captured moons. Most last only a few thousand years before being ejected, dragged down into the atmosphere, or ripped apart by

tidal forces and added to the gas giant's immense rings. Attempting to navigate this chaotic environment is hazardous at best. Ships without military grade kinetic barriers are likely to suffer catastrophic impacts.

Additional information:

Orbital Distance	10.5 AU
Orbital Period	39.1 Earth Years
Radius	81,764 km
Day Length	17.7 Earth Hours
Satellites	hundreds

Alsages is the fifth planet orbiting the star Sparta. It is a small terrestrial, with a trace atmosphere of methane and argon. The surface is composed of water ice and calcium with occasional deposits of light metals.

During the Alliance's pirate suppression campaign in the 2160's, the batarian Eluam Ran'perah was caught with his frigate Tunerron grounded on Alsages for drive discharge. When challenged by the cruiser Hyderabad, Ran'perah refused to surrender. The Tunerron was destroyed attempting to take off. The debris is strewn across the southern hemisphere.

Additional information:

Orbital Distance	15.9 AU
Orbital Period	73.8 Earth Years
Radius	4,926 km
Day Length	23.3 Earth Hours
Atm. Pressure	0.00 atm
Surface Temp	-193 °C
Surface Gravity	0.7 *g*
Satellites	N/A

1st asteroid belt: orbits Macedon at a distance of 1.1AU
2nd asteroid belt: orbits Phoenix at a distance of 13 AU

Attican Beta

The Attican Beta cluster is named after the Greek region of Attica. The name might also refer to its position near the Attican Traverse.

The star systems of the Attican Beta cluster are named after heroes from Ancient Greece.

Prior to the First Contact War, a remote, frigid terrestrial world in Attican Beta hosted half of a turian interferometric telescope array. Connected by an expensive chain of FTL comm buoys to a similar telescope hosted at Gromar in the Voyager Cluster, the two functioned as a virtual "lens" with an effective aperture equal to the thousands of light years between them. The turians used this to map the Terminus Systems with great accuracy.

The cluster's Mass Relay is located in the Hercules system.

Hercules

Hercules is a medium system with four planets. The star is named for the mythological hero Hercules.

Distance from Theseus: 7 light-years

Mass Relay: Orbits Hercules at a distance of 35 AU

Xathorron is the first planet orbiting the star Hercules. It is a small rock planet, with a thin atmosphere of carbon dioxide and hydrogen sulfide. The surface is scorching hot, and mainly composed of sulfur with deposits of boron.

Additional information:

Orbital Distance	5.35 AU
Orbital Period	9.5 Earth Years
Radius	3,537 km
Day Length	64.9 Earth Hours
Atm. Pressure	0.37 atm
Surface Temp	388 °C
Surface Gravity	0.39 *g*
Satellites	N/A

Syided is the second planet orbiting the star Hercules. It is a terrestrial world larger than Earth. The proximity of the energetic star Hercules causes constant blue and violet auroras in Syided's nitrogen-argon atmosphere. During periods of increased solar flares, the auroras are bright enough to read by on the surface, and can be seen with off-the-shelf optics from a distance of several AU.

Syided's scorching hot surface is mainly composed of magnesium with deposits of iron. A surprising variety of simple carbon-based life flourishes in a complex network of cave systems that wind through the crust, protected from Hercules' heat and radiation.

Additional information:

Orbital Distance	6.93 AU
Orbital Period	14 Earth Years
Radius	7,702 km
Day Length	67.0 Earth Hours
Atm. Pressure	1.18 atm
Surface Temp	523 °C
Surface Gravity	1.3 *g*
Satellites	N/A

Eletania is the third planet orbiting the star Hercules. It appears to be a world eminently suited for colonization. Sadly, appearances are deceiving. It is covered by a verdant carpet of mosses, algae, and lichen, and possesses a thick oxygenated atmosphere, but the animal kingdom is a web of microscopic symbiotic creatures. These are impossible to filter from the air and necessary for the native life to thrive. Unfortunately, they also cause anaphylactic shock when inhaled by non-native life.

In short, settlement requires either fully sealed environment suits, or replacement of the entire world's ecosystem. Some have proposed limited colonization at altitudes above the symbiotes' range, or in areas where favorable winds keep the air clear.

Additional information:

Orbital Distance	12.6 AU
Orbital Period	34.4 Earth Years
Radius	8,864 km
Day Length	35.6 Earth Hours
Atm. Pressure	2.1 atm
Surface Temp	13 °C
Surface Gravity	1.2 *g*
Satellites	1

Zatorrus is the fourth planet orbiting the star Hercules. It is a hydrogen-helium gas giant, with high-level decks of sulphur clouds. A layer of hydrocarbons has formed deeper in the atmosphere. Vast electrical storm fronts can be seen flickering across the dark side.

Additional information:

Orbital Distance	27.85 AU
Orbital Period	113.1 Earth Years
Radius	52,290 km
Day Length	17.2 Earth Hours
Satellites	>1

Theseus

Hercules is a medium system with five planets. It is named for the mythological Greek hero Theseus. Theseus was said to have slain the Minotaur in the Cretan Labyrinth.

Distance from Hercules: 7 light-years

Sytau is the first planet orbiting the star Theseus. It is shrouded by a high-pressure atmosphere composed of carbon dioxide and sulphuric acids. The surface is composed of geologically young plains of volcanic basalts and rhyolites, with high concentrations of carbon and radioactives.

Sytau is rabidly volcanic; a dozen "supervolcanoes" 50-120 kilometers wide are erupting across the planet. Sytau's carbon content and constant volcanism make natural diamonds plentiful, if extremely costly and dangerous to recover.

Additional information:

Orbital Distance	1.05 AU
Orbital Period	1.1 Earth Years
Radius	9,547 km
Day Length	32.2 Earth Hours
Atm. Pressure	94.51 atm
Surface Temp	343 °C
Surface Gravity	1.7 *g*
Satellites	N/A

Feros is the second planet orbiting the star Theseus. Two-thirds of the habitable surface is covered with the ruins of crumbling Prothean megalopolis. In the millennia since the Prothean extinction, the ruins have been picked over by looters many times.

Feros was considered a poor prospect for colonization, as little open ground remains for agriculture. The only sizable fresh water sources are the poles, which are tapped by the decaying Prothean aqueduct system. The dead cities, while in good condition considering their antiquity, are of uncertain stability. Ground level is congested by a dozen meters of fallen debris, and the air is fouled by dust.

In 2178, the human ExoGeni Corporation announced its intention to place a permanent colony on Feros, to thoroughly explore the ruins. The pioneer settlement was placed on the upper levels of the several intact skyscrapers, using the surviving Prothean aqueducts and rooftop hydroponics gardens to support the population.

Additional information:

Orbital Distance	2.15 AU
Orbital Period	3.2 Earth Years
Radius	8,366 km
Day Length	30.3 Earth Hours
Atm. Pressure	5.44 atm
Surface Temp	10 °C
Surface Gravity	1.1 *g*
Satellites	2

Colony	
Species	Human
Capital	Zhu's Hope
Colony Founded	2178
Population	300

Sharring is the third planet orbiting the star Theseus. It is a standard hydrogen-helium gas giant. The atmosphere contains traces of ammonia, methane, and surprisingly large amounts of water vapor, making the atmosphere a striking mix of browns, blues, and whites. Of Sharring's 60-odd moons, two have diameters of over 3,000 kilometers. Both have signs of former Prothean development, suggesting Sharring may have been mined for helium-3.

Additional information:

Orbital Distance	12.93 AU
Orbital Period	46.6 Earth Years
Radius	55,721 km
Day Length	14.6 Earth Hours
Satellites	> 60

Quana is the fourth planet orbiting the star Theseus. The planet's frozen surface is rich with heavy metals, and the planet's higher than average density suggests further mineral richness in the depths. The atmosphere is composed of nitrogen and carbon monoxide.

The remains of a well-developed Prothean mining infrastructure dot the planet. Abandoned mines are connected to dead cities by collapsed maglev lines. Unlike the crumbling skyscrapers of Feros, Quana's ruins are reasonably intact. Unfortunately, this only made it easier for looters to strip the silent necropolis of anything valuable.

Additional information:

Orbital Distance	20.07 AU
Orbital Period	90 Earth Years
Radius	7,271 km
Day Length	67.8 Earth Hours
Atm. Pressure	0.91 atm
Surface Temp	-141 °C
Surface Gravity	1.2 *g*
Satellites	N/A

Logan is the fifth planet orbiting the star Theseus. It is a standard hydrogen-helium gas giant. The survey team who charted the system twenty years ago reported many strange disturbances in Logan's cloud bands, suggesting many remarkably large solid objects were present beneath the cloud tops. As the ship approached, however, they subsided one by one. These disturbances have not been reported again.

Additional information:

Orbital Distance	23.27 AU
Orbital Period	112.6 Earth Years
Radius	66,341 km
Day Length	18.6 Earth Hours
Satellites	N/A

Exodus Cluster

The Exodus Cluster is probably named for the story of the Exodus of the Jews, who were led from Egypt to the promised land by Moses.

Exodus is Greek for "departure". The systems and planets it contains are named for the ideal planes of various belief systems.

This cluster was one of the first extrasolar clusters reached by humans, and it was one of the first to be colonized by the System Alliance. The Mass Relay to Earth's cluster, however, actually goes to Arcturus Station rather than to the Charon Relay directly.

The cluster's Mass Relay is located in the Utopia system.

Asgard

Asgard is a medium system with four planets and 90 moons. It is named for the home of the Norse gods; three of its planets are named after members from the pantheon.

Distance from Utopia: 10 light-years

Terra Nova is the first planet orbiting the star Argard. It was one of the Class-1 colonization prospects discovered by the first wave of Alliance surveys in 2150. It was the second human extrasolar colony, and the first beyond the Charon Relay. It currently has the highest population of any Alliance colony.

Though banded by a harsh equatorial desert, areas closer to the poles are temperate. The pace of development was modest until extensive deposits of platinum were discovered in the 2170s. This rare metal, required in the clean-burning hydrogen cells that power private vehicles, attracted a 'platinum rush' of immigrants and investment from throughout Alliance space. In the past twelve years, Terra Nova has seen a 30% rise in population, and growth does didn't slow down until a terrorist batarian group seized the asteroid X57 and attempted to propel it to the surface of the planet, hoping to completely kill the human presence in the system. The attempt was stopped by Commander Shepard but it was still enough to scare thousands into seeking safer places to live.

Additional information:

Orbital Distance	1.3 AU
Orbital Period	1.5 Earth Years
Radius	5,261 km
Day Length	37.3 Earth Hours
Atm. Pressure	0.91 atm
Surface Temp	56 °C
Surface Gravity	0.95 *g*
Satellites	N/A

Colony	
Species	Human
Capital	Scott
Colony Founded	2152
Population	4.4 million (2183) 4,150,000 (2186)

Borr is the second planet orbiting the star Argard. It is a huge hydrogen-helium gas giant with over 90 moons. Its striking coloration is caused by the light of ionized hydrogen filtering through an upper cloud deck of sodium. The source of the ionization has not yet been confirmed, but Borr's mass (equal to six Jupiters) and high temperature suggest it may be a small "brown dwarf", a large gas giant that gained nearly enough mass to ignite into a small star.

Through Borr's deep gravity well makes mining operations difficult, it is the only gas giant in the system. The hydrogen needed for the local fuel cell industry, combined with the ever-present need for helium-3 fusion torch fuel, make it economical to mine.

Additional information:

Orbital Distance	2.2 AU
Orbital Period	3.3 Earth Years
Radius	74,612 km
Day Length	8.8 Earth Hours
Satellites	> 90

Tyr is the third planet orbiting the star Argard. It is compositionally quite similar to Earth. However, it lies over 4 AU from Asgard, and possesses an atmosphere primarily composed of nitrogen and ethane. While a potential target for terraforming, the presence of the 'shirt sleeves' habitable Terra Nova relegated Tyr to a support role.

Nearly a hundred corporations – human and alien – have constructed extensive teleoperated mining, refining, and manufacturing facilities across the face of Tyr. Combined with the platinum lodes of Terra Nova, the resources they produce are driving development of the local hydrogen fuel cell industries. The Asgard system now supplies nearly 4% of the galactic market.

Additional information:

Orbital Distance	4.0 AU
Orbital Period	8.05 Earth Years
Radius	6,332 km
Day Length	46.2 Earth Hours
Atm. Pressure	0.8 atm
Surface Temp	−73 °C
Surface Gravity	0.95 *g*
Satellites	N/A

Colony	
Species	Human
Capital	Kaldidalur
Colony Founded	2156
Population	47,000 (2183) 44,000 (2186)

Loki is the fourth planet orbiting the star Argard. It is a small terrestrial world with little to recommend it. One hemisphere is largely covered by an ice cap, and the other by craggy basaltic highlands. The rough, varied terrain suggests an ancient cataclysm caused significant damage to the planet. This is seemingly reinforced by its unusually elliptical orbit, which reaches 6.5 AU at perigee and 7.1 AU at apogee.

Penetrating scans of Loki's ice cap reveal a network of crisscrossing subterranean tunnels. Because some of the tunnels were surprisingly regular in shape and size, early expeditions looked for signs of excavation. It was concluded they formed by natural processes.

Loki's thin atmosphere is mostly composed of krypton and xenon. When it approaches perigee, frozen sulphur trioxides and dioxides can evaporate into clouds on the hemisphere facing Asgard.

Additional information:

Orbital Distance	6.8 AU
Orbital Period	17.8 Earth Years
Radius	3,630 km
Day Length	61.3 Earth Hours
Atm. Pressure	0.2 atm
Surface Temp	−135 °C
Surface Gravity	0.22 *g*
Satellites	N/A

Utopia

Utopia is a medium system with five planets and one moon. The system and the planets within it are named after various idealized locations or states of mind.

Distance from Asgard: 10 light-years

Mass Relay: Orbits Utopia at a distance of 103 AU

Fuel Depot: Utopia has fuel depots orbiting Zion

Arcadia is the first planet orbiting the star Utopia. It is an unusually large terrestrial world, Arcadia has a dense atmosphere compound of nitrogen and helium. Its scorching hot surface is mainly composed of alkaline basalts, but metal deposits are plentiful.

Although several spectacular examples of columnar basalt formations offer scenic beauty, Arcadia's hostile environment has precluded commercial development.

Additional information:

Orbital Distance	0.7 AU
Orbital Period	0.6 Earth Years
Radius	10,893 km
Day Length	25.6 Earth Hours
Atm. Pressure	16.17 atm
Surface Temp	358 °C
Surface Gravity	5.0 *g*
Satellites	N/A

Eden Prime is the second planet orbiting the star Utopia. This idyllic agrarian world was one of the first human colonies established beyond the Charon mass relay. Eden Prime's biosphere is unusually well-suited for importation of Earth-native life. This fertility drew heavy immigration and development by the Systems Alliance and various corporations.

Today Eden Prime is a model of sustainable, organized development. The population is housed in space-efficient arcologies that tower over thousands of kilometers of green fields and orchards.

Eden Prime is a human colony founded on the borders of the Terminus Systems. Known for its pristine, Earth-like greenery and suitability for sustaining life, it has become a kind of symbol for humanity's ability to create functioning colonies in an interstellar community. Eden Prime is known for being a beautiful paradise for all species. Most long time colonists are in the agriculture business.

Additional information:

Orbital Distance	1.85 AU
Orbital Period	2.5 Earth Years
Radius	7,026 km
Day Length	64.1 Earth Hours
Atm. Pressure	1.45 atm
Surface Temp	23 °C
Surface Gravity	1.04 *g*
Satellites	N/A

Colony	
Species	Human
Capital	Constant
Colony Founded	2152
Population	3.7 million (2183) 4.2 million (2186)

Zion is the third planet orbiting the star Utopia. It is a hydrogen-helium gas giant even larger than Jupiter. Despite its deep gravity well and lethal radiation, it supports a small helium-3 mining industry. The reason is simple: as the only gas giant in the Utopia system, it is the only local source for fuel for Eden Prime's power stations and spaceports.

Zion has 112 satellites, ranging from orbiting asteroids to the moon of Asphodel, which is large enough to retain a thick atmosphere.

Additional information:

Orbital Distance	14.05 AU
Orbital Period	52.8 Earth Years
Radius	74,333 km
Day Length	10.5 Earth Hours
Satellites	112

Colony	
Species	Human
Population	1,061 (2183) 1,062 (2186)

Nirvana is the fourth planet orbiting the star Utopia. It is a rocky world that has a trace atmosphere of xenon and krypton. The surface is a mix of water ice and iron oxides, with cryovolcanic plumes of potassium concentrated around the equatorial ridge.

Nirvana has little of commercial or scientific interest. Though a few geological research stations were constructed in the early 2160s, all have been shut down for years. The Alliance maintains an automated ice cracking station, which has quietly stockpiled a large amount of deuterium fuel for use by the fleet.

Additional information:

Orbital Distance	25.6 AU
Orbital Period	129.9 Earth Years
Radius	3,212 km
Day Length	63.9 Earth Hours
Atm. Pressure	0.02 atm
Surface Temp	-203 °C
Surface Gravity	0.2 *g*
Satellites	N/A

Xanadu is the fourth planet orbiting the star Utopia. Its atmosphere is composed of methane and argon, while the planet's frozen surface is largely potassium with deposits of calcium. Its location in the deep cold of the outer system and its lack of valuable resources leave little to recommend it.

Additional information:

Orbital Distance	101.7 AU
Orbital Period	1,029.9 Earth Years
Radius	3,730 km
Day Length	69.8 Earth Hours
Atm. Pressure	0.19 atm
Surface Temp	-216 °C
Surface Gravity	0.3 *g*
Satellites	N/A

Gemini Sigma

The Gemini Sigma cluster might be named for the Gemini constellation. The constellation represents the Dioscuri, Castor and Pollux. The systems in this cluster are named after Chinese Imperial dynasties.

The cluster's Mass Relay is located in the Han system.

Han

Han is a medium system with five planets. It is named for the Chinese Han Dynasty (汉朝)

Distance from Ming: 16 light-years

Mass Relay: Orbits Utopia at a distance of 50 AU

Paravin is the first planet orbiting the star Han. It is a small, unremarkable rock world. The surface is scorching hot, and mainly composed of calcium with deposits of aluminum. Paravin's low mass has left it tidally locked to the star Han. If there were any resources of value, mining stations could be established on the relatively temperate "twilight band".

Additional information:

Orbital Distance	0.65 AU
Orbital Period	0.5 Earth Years
Radius	4,839 km
Day Length	0.5 Earth Years
Atm. Pressure	0.0 atm
Surface Temp	414 °C
Surface Gravity	0.5 *g*
Satellites	N/A

Huningto is the second planet orbiting the star Han. It is a Jovian-sized gas giant with a standard hydrogen-helium atmosphere. Traces of methane give the planet its distinct cobalt blue tint. Spectral analysis indicates its extensive ring system is mostly composed of ice crystals. Huningto has an exceptionally powerful magnetic field, which creates strong radio interference throughout the inner system.

Additional information:

Orbital Distance	10.025 AU
Orbital Period	31.8 Earth Years
Radius	73,733 km
Day Length	16.7 Earth Hours
Satellites	N/A

Mavigon is the third planet orbiting the star Han. It is a small rock and ice planet with a thin atmosphere of ammonia and methane. The surface is frozen, and mainly composed of tin with deposits of potassium.

The planet has rudimentary ammonia-based life, mainly concentrated around geothermal vents deep underground. Severe storm cycles are common; due to limited visibility, navigation may be difficult.

Additional information:

Orbital Distance	12.125 AU
Orbital Period	42.3 Earth Years
Radius	4,906 km
Day Length	52.0 Earth Hours
Atm. Pressure	0.82 atm
Surface Temp	−124 °C
Surface Gravity	0.8 *g*
Satellites	N/A

Forcrothu is the fourth planet orbiting the star Han. A standard hydrogen-helium gas giant, Farcrothu is only distinguished by its moons; several dozen of them have been sculpted into the likenesses of an arthropodal alien race not yet known to Council science. Radiometric dating suggests the moons were worked over half a million years ago.

Additional information:

Orbital Distance	23.2 AU
Orbital Period	112.1 Earth Years
Radius	66,014 km
Day Length	8.4 Earth Hours
Satellites	>12

Patatanlis is the fifth planet orbiting the star Han. It is a large rock world, with an unusually thin atmosphere of hydrogen and carbon monoxide. The frigid world's crust contains extensive deposits of uranium, and occasional lodes of naturally occurring plutonium. With a total mass more than four times that of Earth, Patatanlis should have a significantly thicker atmosphere. This unusual feature has flagged it as worthy of scientific investigation, but the need for expensive amounts of radiation shielding has deterred interest.

Additional information:

Orbital Distance	44.45 AU
Orbital Period	297.4 Earth Years
Radius	8,927 km
Day Length	36.0 Earth Hours
Atm. Pressure	0.06 atm
Surface Temp	-174 °C
Surface Gravity	2.8 *g*
Satellites	N/A

Ming

Ming is a small system with three planets and an asteroid belt. It is described as an "energetic blue giant"; the mass is derived from rounding up the minimum Keplerian ratio allowed by Parag. It is probably named for the Chinese Ming Dynasty（明朝)

Warning: due to the huge distance between planets, it is not advisable to travel to Ming without a ship with a high fuel capacity.

Distance from Han: 16 light-years

Antiroprus is the first planet orbiting the star Ming. It is a hydrogen-helium gas giant that formed in the outer regions of Ming's system, and is in the process of migrating inwards. In a few million years the planet's atmosphere will begin to "boil away" into space.

There is a sizable temperature difference between the side of Antiroprus facing the energetic blue giant primary and the side facing the cold of deep space. This variance powers massive cyclonic wind systems. The intense heat it absorbs from the sun, in addition to its own internal heat engine, causes the planet's dark side to radiate faintly in the infrared.

Additional information:

Orbital Distance	168.7 AU
Orbital Period	284.2 Earth Years
Radius	57,948 km
Day Length	10.8 Earth Hours
Satellites	N/A

Parag is the second planet orbiting the star Ming. It is a large rock planet, with an atmosphere composed of nitrogen and argon. Despite lying over 600 AU from Ming, its surface is scorching hot, and mainly composed of alumina with deposits of silver. Due to the radiation and heat, landing on Parag's sunward side with anything less than warship-grade shielding will likely be fatal. Parag rotates at a retrograde to the rest of the Ming system, indicating it is likely a captured body.

Additional information:

Orbital Distance	604.72 AU
Orbital Period	1,930.3 Earth Years
Radius	7,979 km
Day Length	22.4 Earth Hours
Atm. Pressure	1.58 atm
Surface Temp	1,117 °C
Surface Gravity	2.0 *g*
Satellites	N/A

Altanorch is the third planet orbiting the star Ming. It is a typical “ice giant” with no outstanding features. Its combination of strong magnetic field and relatively shallow gravity well make it a popular "stopover" world for discharging FTL drive cores.

Additional information:

Orbital Distance	983.6 AU
Orbital Period	4,005.7 Earth Years
Keplerian Ratio	59.306
Radius	32,605 km
Day Length	16.3 Earth Hours
Satellites	N/A

1st asteroid belt: orbits Ming at a distance of 700 AU

Hades Gamma

The Hades Gamma cluster was previously known as Crab Nebula. It is now named for the ancient Greek underworld. "Gamma" is the third letter in the Greek alphabet. The systems in this cluster are all named for characters or places from the *Inferno*, the first canticle of the *Divine Comedy* by the poet Dante Alighieri.

The Anansi-Ishtar shipping lane passes through the Farinata / Cacus side of this cluster, passing near to Farinata and uses Treyarmus as a convenient discharge point. Quarian starships often take advantage of the heavy shipping traffic near Treyarmus to sell salvage or refreshments; the number of merchant vessels along the Anansi-Ishtar route also makes it a popular 'hiding place' for any unregistered ship wishing to obfuscate its signal.

The cluster's Mass Relay is located in the Anteous system.

Anteous

Antaeus is a large system with six planets. It is named for the giant Antaeus and is a reference to Dante's *Inferno*, the first canticle of his Divine Comedy. In the Divine Comedy, Antaeus is one of the guardians of the ninth circle of Hell.

Distance from Cacus: 4 light-years
Distance from Dis: 7.2 light-years
Distance from Farinata: 8 light-years
Distance from Plutus: 3.6 light-years

Mass Relay: Orbits Antaeus at a distance of 19.1 AU

Ageko is the first planet orbiting the star Antaeus. It is a standard terrestrial with a thin atmosphere of krypton and xenon. Its crust is mainly composed of magnesium with deposits of cobalt and other heavy metals. Due to extremely rough, cratered terrain, starships are discouraged from landing.

During the initial survey of the Antaeus system, only a single fly-by probe was spared for the small, scorched world of Ageko. It revealed a planet unusually rich in heavier elements, given its size.

Additional information:

Orbital Distance	0.25 AU
Orbital Period	0.1 Earth Years
Radius	2,147 km
Day Length	59.9 Earth Hours
Atm. Pressure	0.27 atm
Surface Temp	346 °C
Surface Gravity	0.25 *g*
Satellites	N/A

Trebin is the second planet orbiting the star Antaeus. It is a modest terrestrial world, with an atmosphere composed of nitrogen and argon. Its surface is mainly composed of nickel with deposits of silver.

Trebin's environment is relatively mild, but the scarcity of water or similar enabling substances has prevented the development of any biosphere. ExoGeni Corp recently performed a test impact of a single water-ice comet into the surface, the first step of a long-term plan to thicken the atmosphere and introduce water to the environment.

Additional information:

Orbital Distance	1.0 AU
Orbital Period	1.1 Earth Years
Radius	5,489 km
Day Length	41.8 Earth Hours
Atm. Pressure	0.84 atm
Surface Temp	8 °C
Surface Gravity	0.86 *g*
Satellites	2

Edmos is the third planet orbiting the star Antaeus. It is a Neptune-type "ice giant" with traces of methane in its atmosphere. If Trebin's terraforming is successful, it is expected that a helium-3 fuel refining facility for the system will be set up here.

Additional information:

Orbital Distance	3.65 AU
Orbital Period	7.8 Earth Years
Radius	36,826 km
Day Length	13.7 Earth Hours
Satellites	N/A

Ploba is the fourth planet orbiting the star Antaeus. It the second, and by far the larger, of Antaeus' two gas giants. Active scans by survey ships have returned tantalizing indications of massive, solid structures deep within the atmosphere, too regular in pattern to be anything natural.

Some believe Ploba is a "Jupiter Brain", a planet-sized supercomputer. Adherents of this theory have fruitlessly beamed signals toward the sunken megastructures, hoping to get the machine's attention.

Others believe that an ancient spacefaring race disposed of their weapons of war by dumping them into the planet. The last attempt to reach and salvage Ploba's "Deep Anomalies" went tragically wrong, and ended with a crew of 12 being trapped and crushed in the gas giant's lower atmosphere.

Additional information:

Orbital Distance	6.93 AU
Orbital Period	20.4 Earth Years
Radius	74,221 km
Day Length	17.3 Earth Hours
Satellites	N/A

Vemal is the fifth planet orbiting the star Antaeus. It is an enormous terrestrial world of mixed rock and ice with an atmosphere of methane and ethane. Its frozen surface is mainly composed of calcium with deposits of iron. Because of noxious surface gases, explorers are warned to use extreme caution.

Additional information:

Orbital Distance	10.38 AU
Orbital Period	37.5 Earth Years
Radius	10,314 km
Day Length	36.3 Earth Hours
Atm. Pressure	1.0 atm
Surface Temp	−61 °C
Surface Gravity	1.1 *g*
Satellites	N/A

Hunidor is the sixth planet orbiting the star Antaeus. It is a moderately sized ice world with an extremely thin atmosphere composed of krypton and xenon. Its frozen surface is unusually smooth, suggesting widespread "repaving" by cryovolcanic processes though no such activity is currently evident.

Additional information:

Orbital Distance	18.68 AU
Orbital Period	90.5 Earth Years
Radius	3,686 km
Day Length	48.2 Earth Hours
Atm. Pressure	0.2 atm
Surface Temp	-202 °C
Surface Gravity	0.22 *g*
Satellites	N/A

Cacus

Cacus is a medium system with five planets and an asteroid belt. It is named for the 'centaur' Cacus and is a reference to Dante's *Inferno*, the first canticle of his Divine Comedy. In the Divine Comedy, Cacus is one of the guardians of the eighth circle of Hell.

Distance from Antaeus: 4 light-years
Distance from Dis: 7.16 light-years
Distance from Farinata: 4 light-years
Distance from Plutus: 4.5 light-years

Zayarter is the first planet orbiting the star Cacus. It is an enigmatic terrestrial planet. It has a hazy atmosphere of nitrogen and argon. The surface is scorching hot, and mainly composed of calcium with deposits of sodium.

Three times in the last century, ships stopping to discharge at Treyarmus reported geometric patterns of lights on the dark side of Zayarter. Attempts at further investigation proved fruitless; the lights disappear when ships approach the inner system.

Additional information:

Orbital Distance	2 AU
Orbital Period	2.1 Earth Years
Radius	5,535 km
Day Length	53.8 Earth Hours
Atm. Pressure	0.5 atm
Surface Temp	166 °C
Surface Gravity	0.7 *g*
Satellites	N/A

Chohe is the second planet orbiting the star Cacus. It is a terrestrial planet whose surface is mainly composed of aluminum, with numerous deposits of calcium. Though it has enough mass to retain a dense atmosphere, Chohe is nearly a vacuum. This lack of atmosphere allows a moderate average temperature, but the differences between night and day are extreme.

The surface of Chohe's sunward-facing side is usually covered by a haze of volatiles (mainly water vapor and carbon dioxide), which return to the ground as frost over the course of the long, cold night.

The Sirta Foundation has established a research outpost on Chohe to investigate the native subterranean life of Chohe, which shows incredible resilience to extremes of heat and cold.

Additional information:

Orbital Distance	3.7 AU
Orbital Period	5.4 Earth Years
Radius	8,000 km
Day Length	54.5 Earth Hours
Atm. Pressure	0.00 atm
Surface Temp	11 °C
Surface Gravity	1.0 *g*
Satellites	1

Xamarri is the third planet orbiting the star Cacus. It is a small, airless, cratered terrestrial – a lifeless rock quite similar to Luna. Its frozen surface is mainly composed of silicates, though one hemisphere has several "seas" of dark basaltic rock.

Additional information:

Orbital Distance	13.03 AU
Orbital Period	36.1 Earth Years
Radius	2,236 km
Day Length	42.1 Earth Hours
Atm. Pressure	0.00 atm
Surface Temp	−117 °C
Surface Gravity	0.19 *g*
Satellites	N/A

Faringor is the fourth planet orbiting the star Cacus. It is a large but low-density, terrestrial world. It is generally believed to consist mainly of water ice. Occasional upwelling of metals, caused by the interacting tidal forces of several large moons, suggest the core is small, but extremely dense.

Faringor has a thin atmosphere of carbon dioxide and ethane. Its frozen surface is mainly composed of dark carbon-laced water ice.

Ten years ago, Faringor's grim surface color and dim illumination drew the cinematographer Risa Uvarsen to film the exterior scenes of "Starless" on location. Acknowledged as a masterpiece of gothic horror, the sets – well preserved by the vacuum – draw hundreds of tourists to the backwater system every year.

Additional information:

Orbital Distance	20.2 AU
Orbital Period	69.8 Earth Years
Radius	11,129 km
Day Length	69.6 Earth Hours
Atm. Pressure	0.00 atm
Surface Temp	−144 °C
Surface Gravity	N/A
Satellites	> 2

Treyarmus is the fifth planet orbiting the star Cacus. It is a Neptune-type “ice giant”. It has a strong magnetic field, making it a popular discharge point for freighters working on the Anansi-Ishtar shipping route.

It is popular enough, in fact, that quarian ships can often be found loitering in orbit, selling the freighter crews cheap refreshments, salvage, and odd craftworks assembled by their children. There are no ships in orbit at present, however.

Additional information:

Orbital Distance	51.75 AU
Orbital Period	286.7 Earth Years
Radius	42,211 km
Day Length	12.8 Earth Hours
Satellites	N/A

1st asteroid belt: orbits Cacus at a distance of 15.5 AU

Dis

Dis is a medium system with five planets and an asteroid belt. It is named for the City of the Dead in Dante's *Inferno*, the first canticle of his Divine Comedy. In the Divine Comedy, Dis is located in the sixth circle of Hell.

Distance from Antaeus: 7.2 light-years
Distance from Cacus: 7.16 light-years
Distance from Farinata: 7.55 light-years
Distance from Plutus: 3.6 light-years

Jartar is the first planet orbiting the star Dis. It is a terrestrial world with a trace atmosphere of krypton and xenon. The surface is hot, and mainly composed of unremarkable silicates. Occasional deposits of aluminum, magnesium, and other light metals can be found.

Jartar is noted for the discovery of the "Leviathan of Dis," the apparent corpse of a genetically engineered living starship. The Leviathan was found in the bottom of a crater by a batarian survey team, and estimated to be nearly a billion years old. It "disappeared" after a visit to the system by a batarian dreadnought in 2163

Additional information:

Orbital Distance	3.02AU
Orbital Period	2.8 Earth Years
Radius	1,410 km
Day Length	2.8 Earth Hours
Atm. Pressure	0.00 atm
Surface Temp	82 °C
Surface Gravity	0.17 *g*
Satellites	N/A

Nearrum is the second planet orbiting the star Dis. It is a terrestrial world with a thin atmosphere of methane and argon. Its frozen surface is mainly composed of basaltic rock. Its most prominent feature is the Ellos Rift Valley, a long volcanic divergence zone that stretches across half of the northern hemisphere.

Additional information:

Orbital Distance	5.18 AU
Orbital Period	6.3 Earth Years
Radius	6,779 km
Day Length	31.7 Earth Hours
Atm. Pressure	0.67 atm
Surface Temp	58 °C
Surface Gravity	0.82 *g*
Satellites	≥ 1

Klensal is the third planet orbiting the star Dis. It is a terrestrial world slightly smaller than Earth. It has a thin atmosphere of carbon dioxide and ethane. Its first geological surveys were performed by batarians, and suggested areas of great mineral wealth. Human mining concerns spent billions of credits hustling to the distant system and sinking test bores to claim the planet for humanity.

But Klensal had only an average level of mining wealth – valuable, but hardly worth the rush and expense. Merida Industria, a small Mexican company hoping to strike it rich in their first extrasolar mining venture, had to file for bankruptcy protection.

Investigation revealed the batarian crew had deliberately falsified their surveys, hoping it would encourage human rivals to invest in a costly boondoggle. While unethical, this was not technically illegal, and the batarian government disavowed the "personal actions of a few misguided patriots." The planet is still littered with abandoned mining bases, which are often used as temporary meeting places for criminals.

Additional information:

Orbital Distance	11.7 AU
Orbital Period	21.4 Earth Years
Radius	5,447 km
Day Length	37.2 Earth Hours
Atm. Pressure	0.58 atm
Surface Temp	-35 °C
Surface Gravity	0.86 *g*
Satellites	1

Gremar is the fourth planet orbiting the star Dis. It is an icy terrestrial world with a thin atmosphere of carbon dioxide and krypton. Its surface is mainly composed of frozen ammonia with deposits of tin and other light metals.

When exposed to sunlight, Gremar's ammonia can melt, forming equatorial seas of the toxic chemical. This allowed a profusion of simple fungus and lichens to evolve in the low-energy environment. A by-product of their metabolism causes them to glow very faintly. While the light of an individual is insignificant, large patches seem to reinforce the light of one another, and are visible from space.

Additional information:

Orbital Distance	16.37 AU
Orbital Period	35.4 Earth Years
Radius	3,691 km
Day Length	61.7 Earth Hours
Atm. Pressure	0.27 atm
Surface Temp	-84 °C
Surface Gravity	0.28 *g*
Satellites	N/A

Raysha is the fifth planet orbiting the star Dis. It is a Neptune-type “ice giant”. It has traces of sodium and ammonia in its atmosphere.

During the brief "gold rush" to Klensal, a few companies established an infrastructural for helium-3 skimming and deuterium mining on Raysha's icy moons. When Klensal proved to be less wealthy than expected, the facilities were stripped for parts and abandoned.

Additional information:

Orbital Distance	29.47 AU
Orbital Period	85.5 Earth Years
Radius	34,914 km
Day Length	11.5 Earth Hours
Satellites	>1

1st asteroid belt: orbits Dis at a distance of 15 AU

Farinata

Farinata is a small system with three planets and two asteroid belts. It is named for Farinata degli Uberti and is a reference to Dante's *Inferno*, the first canticle of his Divine Comedy. In the Divine Comedy, Dante speaks with Farinata in the sixth circle of Hell.

Warning: due to the huge distance between planets, it is not advisable to travel to Farinata without a ship with a high fuel capacity.

Distance from Antaeus: 8 light-years
Distance from Cacus: 4 light-years
Distance from Dis: 7.55 light-years
Distance from Plutus: 6.8 light-years

Tunshagon is the first planet orbiting the star Farinata. It is a superterrestrial protoplanet with traces of chlorine and nitrogen in its atmosphere.

Additional information:

Orbital Distance	6.95 AU
Orbital Period	3.2 Earth Years
Radius	42,418 km
Day Length	9.1 Earth Hours
Satellites	7

Juntauma is the second planet orbiting the star Farinata. It is a small, broiling terrestrial world. Its thin atmosphere of carbon dioxide and ethane is being steadily "blown off" by the powerful solar wind from the star Farinata. The surface is scorching hot, and mainly composed of sulphur with deposits of copper. Its density is low enough to leave the world tidally locked to Farinata.

The Alliance Defense Data Network notes that several ships have been spotted cruising near Juntauma with transponders turned off. While an Alliance patrol attempted pursuit of one, the unidentified vessel "rabbited" to FTL. Its trail was lost when it obscured its light trace in the confusion of signals along the Anansi-Ishtar shipping lane.

Additional information:

Orbital Distance	69.9 AU
Orbital Period	102.0 Earth Years
Radius	4,227 km
Day Length	102.0 Earth Years
Atm. Pressure	0.36 atm
Surface Temp	1,176 °C
Surface Gravity	0.38 *g*
Satellites	N/A

Nepneu is the third planet orbiting the star Farinata. It is a small terrestrial planet, with a thin atmosphere of carbon dioxide and krypton. As with all the worlds of Farinata, its surface is scorching hot. The crust mainly consists of silicates laced with iron. With a rare combination of features, Nepneu is of particular interest to the scientific community.

Additional information:

Orbital Distance	144.128 AU
Orbital Period	302.0 Earth Years
Radius	3,742 km
Day Length	30.1 Earth Hours
Atm. Pressure	0.23 atm
Surface Temp	848 °C
Surface Gravity	0.27 *g*
Satellites	≥ 1

1st asteroid belt: orbits Farinata at a distance of 18 AU
2nd asteroid belt: orbits Farinata at a distance of 47.3 AU

Plutus

Plutus is a medium system with five planets and an asteroid belt. Plutus is a blue star. It is named for the 'demon' Plutus, one of the guardians of the fourth circle of Hell in Dante's *Inferno*, the first canticle of the Divine Comedy.

Warning: due to the huge distance between planets, it is not advisable to travel to Plutus without a ship with a high fuel capacity.

Distance from Antaeus: 3.6 light-years
Distance from Cacus: 4.5 light-years
Distance from Dis: 3.6 light-years
Distance from Farinata: 6.8 light-years

Mingito is the first planet orbiting the star Plutus. It is a sunbaked wasteland of sodium, chlorates, and radioactives. Its relatively light mass has left it tidally locked to Plutus, with a day side "hot pole" and a night side "cold pole". The powerful solar wind has stripped most of the atmosphere away.

Additional information:

Orbital Distance	3.1 AU
Orbital Period	1.4 Earth Years
Radius	4,384 km
Day Length	1.4 Earth Years
Atm. Pressure	0.2 atm
Surface Temp	675 °C
Surface Gravity	0.44 *g*
Satellites	N/A

Maidla is the second planet orbiting the star Plutus. It is a terrestrial planet with a light atmosphere of carbon dioxide and hydrogen sulfide. The surface is hot, and mainly composed of magnesia with deposits of sulfur. Over a dozen volcanoes are erupting across the surface.

Additional information:

Orbital Distance	5.45 AU
Orbital Period	3.3 Earth Years
Radius	6,914 km
Day Length	33.4 Earth Hours
Atm. Pressure	0.48 atm
Surface Temp	497 °C
Surface Gravity	0.88 *g*
Satellites	N/A

Clocrolis is the third planet orbiting the star Plutus. It is a modest rock planet, roughly the size of Mars. It has a thin atmosphere of carbon dioxide and ethane. Its scorching hot surface is mainly composed of silicate rock with deposits of aluminum and other light metals.

Clocrolis has a very weak magnetic field. In addition to high levels of solar radiation, it is not suitable for mass effect drive discharge operations.

Additional information:

Orbital Distance	21.2 AU
Orbital Period	25.2 Earth Years
Radius	3,675 km
Day Length	57.0 Earth Hours
Atm. Pressure	0.37 atm
Surface Temp	161 °C
Surface Gravity	0.39 *g*
Satellites	N/A

Nonuel is the fourth planet orbiting the star Plutus. It is a terrestrial world. Though it is one of the oldest entries in the star charts, Nonuel has not yet been fully mapped. It is the largest body in the asteroid belt of the blue star Plutus, not only large enough to maintain a spherical shape, but also massive enough to maintain the noxious carbon and sulphur dioxides venting from its many volcanoes as an atmosphere.

Nonuel is rabidly volcanic, and the source of its great heat is also the source of its inordinate mass. Nonuel is a "secondary source" of element zero, coalesced around a large chunk of eezo ejected by a supernova billions of years ago.

Surface conditions are extremely hazardous. In addition to the thin crust and numerous magma flows, wide stretches of the landscape are coated with slippery ash and cinders ejected from the volcanoes.

Additional information:

Orbital Distance	51 AU
Orbital Period	94.0 Earth Years
Radius	4,439 km
Day Length	46.9 Earth Hours
Atm. Pressure	0.88 atm
Surface Temp	127 °C
Surface Gravity	0.85 *g*
Satellites	N/A

Veyaria is the fifth planet orbiting the star Plutus. It is a huge hydrogen-helium gas giant with traces of methane in its atmosphere.

Additional information:

Orbital Distance	95.03 AU
Orbital Period	239.2 Earth Years
Radius	78,204 km
Day Length	10.0 Earth Hours
Satellites	N/A

1st asteroid belt: orbits Plutus at a distance of 72 AU

Horse Head Nebula

The Horse Head Nebula (also known as Barnard 33 in bright nebula IC 434) takes its name from the horse head shape in its middle. The first human to discover it was Williamina Fleming in 1888 at Harvard University.

It is lately discovered that Cerberus holds a strong presence in the cluster, with one large space station, the Minuteman Station being present in the cluster and most importantly the HQ for the entire organization – the Cronos Station, which orbits the red supergiant Anadius. This star is a minor footnote on the star maps of the Horsehead Nebula: a cold, dying star of about 20 solar masses and 1500 times Sol's radius. No Cerberus station listed on any charts, and Cronos Station is nearly imperceptible in the star's periodic bursts of solar output.

The cluster's Mass Relay is located in the Pax system.

Fortuna

Fortuna is a medium system with four planets.

Fortuna is a red dwarf. Its name is Latin for "fate", "fortune" or "luck" and is used as the proper name of the Roman goddess of fortune and fate.

The Fortuna system was initially charted by the Alliance starship Kupe, though only a small probe could be spared for Wentania. One of her crewmen was the poet Sofia Cabral, who was aboard during her tour of duty with the Alliance and who named the planet Amaranthine. Kupe is named after the Polynesian who -- according to some Maori mythologies -- discovered Aotearoa (New Zealand).

Distance from Strennus: 12 light-years

Distance from Pax: 15 light-years

Maganlis is the first planet orbiting the star Fortuna. It is a rock terrestrial with an atmosphere of sulphur dioxide and trace amounts of helium. Scans reveal ancient lava plains on the surface, implying a geologically active past. The crust consists of sulphur and basalts, but the planet's mass suggests a core of iron and heavier materials. Cursory drill coring suggests the possibility of simple subterranean life.

Additional information:

Orbital Distance	1.32 AU
Orbital Period	2.4 Earth Years
Radius	7,708 km
Day Length	33.2 Earth Hours
Atm. Pressure	1.03 atm
Surface Temp	−150 °C
Surface Gravity	1.1 *g*
Satellites	N/A

Amaranthine is the second planet orbiting the star Fortuna. It is a chilly rock world with an atmosphere of carbon dioxide and nitrogen. Its frozen surface consists largely of light titanium and aluminum oxides, with deposits of thorium and other heavy metals located in the deep crust. Amaranthine was named by the human poet Sofia Cabral during her tour of duty aboard the Alliance surveyor ship Kupe. Under the dim light of the red dwarf Fortuna, the surface of this world is lit in rich twilight blues and purples even at midday.

Additional information:

Orbital Distance	3.86 AU
Orbital Period	12.0 Earth Years
Radius	6,694 km
Day Length	59.7 Earth Hours
Atm. Pressure	1.19 atm
Surface Temp	−178 °C
Surface Gravity	1.16 *g*
Satellites	1

Therumlon is the third planet orbiting the star Fortuna. It is a terrestrial world with a thick nitrogen-argon atmosphere. The crust contains silicates and unremarkable ores, but is surprisingly rich in phosphates. Since the atmosphere lacks free oxygen, the phosphates are relatively pure and could be of value in the manufacture of fertilizer and incendiary ammunition.

Additional information:

Orbital Distance	7.33 AU
Orbital Period	31.4 Earth Years
Radius	5,492 km
Day Length	69.0 Earth Hours
Atm. Pressure	17.11 atm
Surface Temp	−134 °C
Surface Gravity	0.7 *g*
Satellites	N/A

Wentania is the fourth planet orbiting the star Fortuna. It is a small rocky world. Hard data on Wentania is very limited. When the system was charted by the Alliance surveyor Kupe, only a small, unmanned flyby probe was spared for the distant world. It is a small rock and ice planet, with a trace atmosphere of krypton and sulfur dioxide. While it is largely water ice, mapping of mass concentrations suggests it has a core of pure aluminum.

Additional information:

Orbital Distance	13.93 AU
Orbital Period	82.2 Earth Years
Radius	3,198 km
Day Length	32.5 Earth Hours
Atm. Pressure	0.03 atm
Surface Temp	-237 °C
Surface Gravity	0.2 *g*
Satellites	N/A

Pax

Fortuna is a medium system with four planets.

Distance from Fortuna: 15 light-years

Distance from Strennus: 10 light-years

Mass Relay: Orbits Pax at a distance of 27 AU

Fuel Depot: Pax has one fuel depot orbiting the start at 12 AU

Svarog is the first planet orbiting the star Pax. It is a typical ice giant whose orbit is quite close to the star. It is unusual for a star with a close orbiting gas giant to have a habitable world. Svarog is Pax's only gas giant, but its temperature, powerful winds, and high orbital velocity make it a poor candidate for helium-3 mining. While Noveria enjoys plentiful deuterium for its fusion plants, it imports all of its helium-3 from out-system.

Like most pegasids, Svarog is thought to have formed outside the frost line of its parent star and migrated inward due to an unstable orbit. Its small size compared to the usual hydrogen-helium gas giants is likely due to hydrodynamic escape. Since it orbits closer than 0.015 AU, the planet's atmosphere is likely soon to be consumed. Scientific debate continues on how the other planets in the system survived Svarog's migration, as its gravity may have played havoc with them early in their formation.

Additional information:

Orbital Distance	0.32 AU
Orbital Period	0.2 Earth Years
Radius	32,285 km

Day Length	13.4 Earth Hours
Satellites	N/A

Noveria is the second planet orbiting the star Pax. It is a snowy, rocky world, with most of its hydrosphere locked up in massive glaciers. A privately-chartered colony world, the planet is owned by Noveria Development Corporation holding company. The NDC is funded by investment capital from two dozen high technology development firms, and administrated by an Executive Board representing their interests.

The investors built remote hot labs in isolated locations across Noveria's surface. These facilities are used for research too dangerous or controversial to be performed elsewhere, as Noveria is technically not part of Citadel space and therefore exempt from Council law.

By special arrangement, Citadel Council Special Tactics and Reconnaissance agents have been granted extraterritorial privileges, but it remains to be seen how committed the Executive Board is to that principle. Given its unique situation, it is understandable that Noveria is often implicated in all manner of wild conspiracy theories.

Additional information:

Orbital Distance	0.9 AU
Orbital Period	0.9 Earth Years
Radius	5,656 km
Day Length	52.0 Earth Hours
Atm. Pressure	0.87 atm
Surface Temp	-1 °C
Surface Gravity	0.81 *g*
Satellites	N/A

Colony	
Species	Human
Capital	Port Hanshan
Colony Founded	2163
Population	361,400 (2183) 405,200 (2186)

Morana is the third planet orbiting the star Pax. It is an icy planetoid smaller than Earth's moon. Many planetary geologists suspect it was once an Oort cloud "ice dwarf" which migrated inwards after an encounter with some other body. While the crust is frozen water ice, deeper layers are mostly silicates, with pockets of magnesium and aluminum. Morana is tidally locked to Pax; the same side always faces the sun.

Additional information:

Orbital Distance	6.3 AU
Orbital Period	17.7 Earth Years
Radius	1,089 km
Day Length	17.7 Earth Years
Atm. Pressure	0.0 atm
Surface Temp	-158 °C
Surface Gravity	0.1 *g*
Satellites	N/A

Veles is the fourth planet orbiting the star Pax. It is a terrestrial world. Veles has a thin atmosphere of xenon and krypton – most other materials have frozen and fallen as snow. Its surface is composed of potassium with deposits of magnesium. While investigating the primitive anaerobic life of Veles, Binary Helix survey teams discovered a cunningly hidden anchorage of the ancient krogan warlord Moro. Many records and artifacts of the Krogan Rebellions were recovered and sold at auction. The empty base is now abandoned.

Additional information:

Orbital Distance	24.5 AU
Orbital Period	136.6 Earth Years
Radius	7,547 km
Day Length	62.0 Earth Hours
Atm. Pressure	0.07 atm
Surface Temp	-220 °C
Surface Gravity	1.7 *g*
Satellites	N/A

Strennus

Fortuna is a medium system with five planets.
Distance from Fortuna: 12 light-years
Distance from Pax: 10 light-years

Yunthorl is the first planet orbiting the star Strennus. It is a terrestrial world. Shrouded by a thick atmosphere of complex hydrocarbons, Yunthorl has never been fully mapped. The surface is hot, and completely covered by a global ocean of liquid hydrocarbons. There are indications of primitive organic life developing deep within the global ocean.

Additional information:

Orbital Distance	3 AU
Orbital Period	5.8 Earth Years
Radius	5,905 km
Day Length	55.2 Earth Hours
Atm. Pressure	2.1 atm
Surface Temp	68 °C
Surface Gravity	0.8 *g*
Satellites	N/A

Antitarra is the second planet orbiting the star Strennus. It is a standard ice giant with traces of ammonia. Hydrocarbons in the atmosphere lend it a distinct brown tint.

Additional information:

Orbital Distance	13 AU
Orbital Period	52.0 Earth Years
Radius	35,417 km
Day Length	14.7 Earth Hours
Satellites	N/A

Trelyn is the third planet orbiting the star Strennus. It is a lifeless rock with a trace atmosphere of nitrogen and xenon. Its surface contains large amounts of iron and magnesium silicates. Due to the heavy cratered terrain, starships are discouraged form landing. A salarian religious cult claims that a certain pattern of overlapping craters in the southern hemisphere resembles their goddess.

Additional information:

Orbital Distance	16 AU
Orbital Period	74.9 Earth Years
Radius	1,163 km
Day Length	36.7 Earth Hours
Atm. Pressure	0.00 atm
Surface Temp	-147 °C
Surface Gravity	0.1 *g*
Satellites	N/A

Xawin is the fourth planet orbiting the star Strennus. It is a terrestrial world with a thin atmosphere of carbon dioxide and ethane. The surface is frozen, and mainly composed of cobalt with deposits of copper. Planetside conditions are hazardous, with constant ice storms wracking the surface.

Additional information:

Orbital Distance	19 AU
Orbital Period	97.3 Earth Years
Radius	5,756 km
Day Length	21.8 Earth Hours
Atm. Pressure	0.79 atm
Surface Temp	−131 °C
Surface Gravity	0.8 *g*
Satellites	N/A

Thesalgon is the fifth planet orbiting the star Strennus. It is a standard hydrogen-helium gas giant. Its atmosphere is tinted blue by trace quantities of methane.

Orbital Distance	30 AU
Orbital Period	173.4 Earth Years
Radius	53,520 km
Day Length	15.5 Earth Hours
Satellites	N/A

Local Cluster

The Local Cluster contains Sol, the system which contains the human home planet, Earth.

The Local Cluster has one system: Sol. It is there its Mass Relay is located.

Sol

Sol is a large system with nine planets and an asteroid belt.

Sol is the home system to the humans and the Systems Alliance.

Mass Relay: Orbits the planet Pluto at a distance of 39.5 AU from Sol.

Fuel Depot: Sol has fuel depots orbiting Saturn, Uranus and Neptune.

Mercury is the first planet orbiting the star Sol. It is a small terrestrial world. A handful of solar power stations exist on "peaks of eternal light" at the north and south poles of Mercury. The difficulties imposed by the planet's proximity to the sun and high orbital velocity have limited development.

Additional information:

Orbital Distance	0.39 AU
Orbital Period	88 Earth Days
Radius	2,440 km
Day Length	58.7 Earth Days
Atm. Pressure	Trace
Surface Temp	430 °C
Surface Gravity	0.38 *g*
Satellites	N/A

Colony	
Species	Human
Population	340

Venus is the second planet orbiting the star Sol. It is a terrestrial world. With its molten temperatures, sulphuric acid clouds, and crushing carbon dioxide atmosphere, Venus has only a handful of aerostat research outposts.

Additional information:

Orbital Distance	0.72 AU
Orbital Period	224.7 Earth Days
Radius	6,052 km
Day Length	243 Earth Days
Atm. Pressure	90 atm
Surface Temp	465 °C
Surface Gravity	0.88 *g*
Satellites	N/A

Colony	
Species	Human
Population	800 (aerostat habitats)

Earth is the third planet orbiting the star Sol. It is a terrestrial world well suited for most life.

Earth's orbit is riddled with debris generated by "bootstrap" space development; use of kinetic barriers is recommended at altitudes over 85 km.

The homeworld and capital of humanity is entering a new golden age. The resource wealth of a dozen settled colonies and a hundred industrial outposts flows back to Earth, fueling great works of industry, commerce, and art. The great cities are greening as arcology skyscrapers and telecommuting allow more efficient use of land.

Earth is still divided among nation-states, though all are affiliated beneath the overarching banner of the Systems Alliance. While every human enjoys longer and better life then ever, the gap between rich and poor widens daily. Advanced nations have eliminated most genetic disease and pollution. Less fortunate regions have not progressed beyond 20th century technology, and are often smog-choked, overpopulated slums.

Sea levels have risen two meters in the last 200 years, and violent weather is common due to environmental damage inflicted during the late 21st century. The past few decades, however, have seen significant improvement due to recent technological advances.

Additional information:

Orbital Distance	1 AU
Orbital Period	1 Earth Year
Radius	6,378 km
Day Length	23.9 Earth Hours
Atm. Pressure	1 atm
Surface Temp	23 °C
Surface Gravity	1.0 *g*
Satellites	Luna

Homeworld	
Species	Human
Population	11.4 billion
Population (L4 and L5 stations)	250,000

Earth's Moon: Luna

Luna is the only moon of Earth. An early source of helium-3, it is now mined for materials used in space habitat construction. Two dozen major stations have been constructed at Earth's L4 and L5 Lagrange points, all from lunar resources.

Additional information:

Orbital Distance	384,403 km (from Earth)
Orbital Period	27.3 Earth Days
Radius	1,737 km
Day Length	27.3 Earth Days
Atm. Pressure	Trace
Surface Temp	−53 °C
Surface Gravity	0.1654 *g*
Satellites	N/A

Colony	
Species	Human
Capital	Armstrong
Colony Founded	2069
Population	4,1 million

Mars is the fourth planet orbiting the star Sol. It is a terrestrial world much smaller than Earth.

Once considered a prospect for terraforming and colonization, the discovery of faster than light travel turned Mars into a quiet backwater. Its southern pole is a historical preserve centered on the Prothean ruins found there. Immigration and development are restricted as the search for Prothean artifacts continues.

Mars was explored via various robotic expeditions for nearly a century before the first manned research stations were placed in the 2080s. The first permanent settlement on Mars was Lowell City, founded in 2103 by the European Space Agency, and based in Eos Chasma. Within a decade, both the US and China had founded permanent settlements as well. However, satellites near Promethei Planum began reporting strange phenomena that gave the region a 'Bermuda Triangle' reputation, mostly unexplained magnetic field shifts.

In 2148, a prospecting team led by Mateus Silva began exploring near the Deseado Crater, and found the source of these disturbances when they unearthed a subterranean Prothean ruin. The ruins contained a malfunctioning mass effect core and several starships, as well as refined element zero. After a global effort, the information remaining in the ruins' computers was translated, identifying the structure as a former observation and biosciences station, set up to receive and process data from Earth as the Protheans studied Cro-Magnon humans.

The motives and conclusions of the Prothean observers remained unknown, but the ruins' data cache, though fragmented, accelerated human sciences by roughly two hundred years. It paved the way for the development of FTL drives and, later, mass effect field technology.

Some of the refined element zero in the ruins, however, fell into less responsible hands. Criminal triads on Mars used it to create red sand; the drug may have taken its name from Mars' distinctive colouring and arid surface.

Additional information:

Orbital Distance	1.52 AU
Orbital Period	1.88 Earth Years
Radius	3,402 km
Day Length	24.6 Earth Hours
Atm. Pressure	Trace
Surface Temp	-138 °C
Surface Gravity	0.38 *g*
Satellites	2

Colony	
Species	Human
Capital	Lowell City
Colony Founded	2103
Population	3.4 million

Jupiter is the fifth planet orbiting the star Sol. It is a standard gas-giant. Jupiter's deep gravity well and lethal radiation have kept its moons from being significantly exploited. The largest outpost is Binary Helix Corporation's Nautilus facility, attached to the underside of Europa's ice sheet.

Additional information:

Orbital Distance	5.2 AU
Orbital Period	11.7 Earth Years
Radius	71,492 km
Day Length	9.93 Earth Hours
Satellites	63

Colony	
Species	Human
Population	9,100 (all moons)

Saturn is the sixth planet orbiting the star Sol. It is a gas giant. It has been a major source of helium-3 fuel for fusion plants since the 2150s. The moon of Titan is mined for hydrocarbons, and used as a hostile environment training facility for Alliance Marines.

Additional information:

Orbital Distance	9.5 AU
Orbital Period	29.5 Earth Years
Radius	60,268 km
Day Length	10.3 Earth Hours
Satellites	60

Colony	
Species	Human
Capital	Huygens Dome
Population	117,000 (orbitals and Titan)

Uranus is the seventh planet orbiting the star Sol. It is an ice giant. After the development of mass effect FTL drive, distant Uranus was the target of a "land rush" to exploit its combination of plentiful helium-3 fuel and shallow gravity well. Today Uranus is the largest producer of He-3 in Alliance space.

Additional information:

Orbital Distance	19.2 AU
Orbital Period	84.3 Earth Years
Radius	25,559 km
Day Length	17.3 Earth Hours
Satellites	27

Colony	
Species	Human
Capital	Sakharov Station
Population	371,000

Neptune is the eigth planet orbiting the star Sol. It is an ice giant. Though Neptune, like Uranus, has plentiful helium, its remoteness made it an unpromising target for mining before the development of mass effect drive. With Uranus cheaper to exploit, it has never seen extensive development. The only permanent human presence is a small research facility on Triton.

Additional information:

Orbital Distance	29.1 AU
Orbital Period	164.8 Earth Years
Radius	24,764 km
Day Length	16.1 Earth Hours
Satellites	14

Colony	
Species	Human
Population	70 (Triton)

Pluto is the ninth planet orbiting the star Sol. It is one of Sol's numerous "ice dwarf" terrestrial worlds. It is mainly of note for being the gravitational "anchor" for the Mass Relay to Arcturus. Pluto and the Charon Relay (formerly encased in ice, and considered a moon) orbit each other. Pluto's orbit was

circularized in 2157 as a side effect of the Charon Mass Relay recovery operations.

Additional information:

Orbital Distance	39.5 AU
Orbital Period	247.7 Earth Years
Radius	1,151 km
Day Length	9.4 Earth Hours
Atm. Pressure	Trace
Surface Temp	-229 °C
Surface Gravity	0.06 *g*
Satellites	3

1st asteroid belt: orbits Sol at a distance of 2.4 AU

Petra Nebula

The Petra Nebula was named after the archaeological city in what is now Jordan. Many locations in this cluster, with the notable exception of Elysium, were also named after places from this region.

Petra Nebula has only one known system: the Vetus system.

Vetus

Vetus is a medium system with five planets and an asteroid belt.

Mass Relay: Orbits Vetus at a distance of 25 AU

Fuel Depot: Vetus has fuel depots orbiting Joppa.

Tyre is the first planet orbiting the star Vetus. It is a terrestrial world wrapped in a crushing atmosphere of nitrogen and carbon monoxide that make for a blistering oven of a planet. Clouds of ash from volcanic eruptions trigger frequent lightening storms on the surface, and the majority of its mineral deposits are metal-poor, not worth the expense of mining.

Additional information:

Orbital Distance	0.65 AU
Orbital Period	0.5 Earth Years
Radius	5,864 km
Day Length	23.2 Earth Hours
Atm. Pressure	21.61 atm
Surface Temp	414 °C
Surface Gravity	0.473 *g*
Satellites	N/A

Elysium is the second planet orbiting the star Vetus. It is terrestrial garden world. When searching for a colony to retire to, Alliance hero Jon Grissom said he wanted "the one where the sun has the decency to set at a reasonable time". Elysium fulfilled this criteria and many more, featuring low gravity, tolerable atmospheric pressure, and a suitable climate. Humans and aliens alike flocked to the "alpine paradise" early in its colonial years, and the planet remains a vibrant hub for both visitors and permanent residents.

Founded in 2160, Elysium is humanity's oldest colony in the Skyllian Verge, only a few hours travel from Sidon. Strategically placed at the nexus of several primary and secondary mass relays, the colony quickly became a major hub for travel and commerce. The population grew fast: in 2165, only five years after its founding, it boasted a population of several million inhabitants, nearly half of them aliens. Due to the fact half of Elysium's population is non-human, requiring extra screening procedures, security there is very tight.

Its remote location in the Skyllian Verge was ideal for the retirement of Alliance hero Jon Grissom. He arrived on the colony in 2160 and five years later became involved in an investigation into the attack on an Alliance research station. In 2176, the Jon Grissom Academy space station was commissioned in Grissom's honor. Grissom himself always refused invitations and never visited the station. He remained on Elysium until his death in 2186, at the age of 75.

In 2176, the colony was attacked by a large force of mercenaries and pirates under the command of Elanos Haliat in what would become known as the Skyllian Blitz. The Alliance repulsed that attack, leading to significant increases in patrols throughout the Terminus Systems.

Additional information:

Orbital Distance	1.3 AU
Orbital Period	1.5 Earth Years
Radius	5,723 km
Day Length	27.9 Earth Hours
Atm. Pressure	1.3 atm
Surface Temp	8 °C
Surface Gravity	0.695 *g*
Satellites	N/A

Colony	
Species	Human
Capital	Illyria
Colony Founded	2160 CE
Population	8.3 million
Population (Orbital Stations)	223,500

Sidon is the third planet orbiting the star Vetus. It is a large terrestrial planet with wide, cold deserts, Sidon has a trace atmosphere that is principally carbon monoxide. Alliance planners found its gravity agreeable, however, and built a small domed research facility on the planet in the 2160s. The project was classified until recently, when Blue Suns mercenaries who allegedly attacked the facility were apprehended and brought to trial, revealing the facility's existence in open court.

Eager to counter the negative publicity, Elysium investment firms now advertise that Sidon is free of military facilities and just "minutes away" from the garden world, thanks to recent improvements in faster-than-light travel. Whether or not the marketing attracts development remains to be seen.

Additional information:

Orbital Distance	2.3 AU
Orbital Period	3.5 Earth Years
Radius	7,645 km
Day Length	31.6 Earth Hours
Atm. Pressure	Trace
Surface Temp	-62 °C
Surface Gravity	0.947 *g*
Satellites	N/A

Joppa is the fourth planet orbiting the star Vetus. It is a modestly sized hydrogen-helium Jovian planet and close enough and reflective enough to be seen in Elysium's night sky. It orbits in retrograde, possibly indicating that it was an extrasolar capture. Human and alien consortiums compete fiercely for the rights to gather helium-3 from the planet, since Elysium's favorable position along trade routes means high profits.

Additional information:

Orbital Distance	4.4 AU
Orbital Period	9.2 Earth Years
Radius	58,415 km
Day Length	8.7 Earth Hours
Satellites	N/A

Gilead is the fifth planet orbiting the star Vetus. The largest object in the Klein Belt, Gilead is a stony dwarf planet of rock and ice, mined for its nickel. It is notable for a recent collision with another asteroid. The residents had several weeks of advance warning and set up recording devices before they evacuated the planet. After selling footage of the asteroid strike to extranet news corporations, the residents found they were now somewhat famous – as well as a little wealthier than before. Of the 221 residents, all but 25 proceeded to leave the nickel business.

Additional information:

Orbital Distance	8.7 AU
Orbital Period	25.7 Earth Years
Radius	2,102 km
Day Length	24.7 Earth Hours
Atm. Pressure	Trace
Surface Temp	-164 °C
Surface Gravity	0.315 *g*
Satellites	N/A

Colony	
Species	Human
Capital	Ephesus
Colony Founded	2180 CE
Population	25

Grissom Academy Space Station

The stated mission of the Jon Grissom Academy, commissioned in 2176, is to "serve a student population demonstrating excellence and passion for math, science, and the liberal arts." Its entirely human student body ranges in age from the early teens to the mid-twenties. Although the fact is not heavily advertised, the institution also offers classes for students with biotic capability. The school's Ascension Project seeks to train these students and integrate them into normal society.

Population: 8,620

Station Length: 1.1 km

1st asteroid belt: orbits Vetus at a distance of 8.7 AU

Voyager Cluster

The Voyager Cluster has its name from the Voyager program, a space probe program.

The systems in the cluster are named for rivers, that the name is derived from the French term *voyageur*, a licensed French fur trader in 17th and 18th century North America; in the era before roads, they frequently used rivers for travel and shipment of goods.

The cluster's Mass Relay is located in the Yangtze system.

Amazon

Amazon is a medium system with five planets. All of the systems in this cluster are named after rivers. This one is named after the Amazon River.

Amazon is a long-period intrinsic variable red giant, currently at the nadir of a 16-year cycle. At peak, its energy output doubles.

Distance from Columbia: 31 light-years

Distance from Yangtze: 14 light-years

Agebinium is the first planet orbiting the star Amazon. It is a small terrestrial world with an extremely thin atmosphere of carbon dioxide and krypton. Though the planet has sufficient mass to maintain a much thicker atmosphere, much of it has been blasted away.

The red giant Amazon is a long-period variable star, currently at the nadir of a 16-year cycle. At peak, its energy output doubles, lashing Agebinium with intense heat and radiation.

The crust is mainly composed of aluminum with deposits of tin. Much of the surface is coated with fine silicate dust, which easily penetrates the smallest cracks to foul machinery.

Additional information:

Orbital Distance	1.6 AU
Orbital Period	1.8 Earth Years
Radius	4,910 km
Day Length	42.1 Earth Hours
Atm. Pressure	0.17 atm
Surface Temp	−72 °C
Surface Gravity	0.79 *g*
Satellites	N/A

Dernuca is the second planet orbiting the star Amazon. It is an enormous terrestrial world, nearly twice the size of Earth. Its environment is similar to that of Mars; arid, and a mix of craggy basalt highlands and sand-scoured deserts of iron-laced silcate dust.

Derneuca's atmosphere mainly consists of carbon dioxide and argon, but the planet's mass is great enough that measurable amounts of helium, and even molecular hydrogen, remain trapped in its atmosphere.

The planet's gravity well is deep enough that it has collected nearly a dozen small satellites, most captured asteroids. Its surface is scarred by many large craters, marking the final resting place of other captured asteroids.

Additional information:

Orbital Distance	2.31 AU
Orbital Period	3.1 Earth Years
Radius	11,728 km
Day Length	65.5 Earth Hours
Atm. Pressure	1.93 atm
Surface Temp	-60 °C
Surface Gravity	1.8 *g*
Satellites	~ 12

Sonedma is the third planet orbiting the star Amazon. It is the second of the Amazon system's arid "super-terrestrial" worlds. It is considerably less dense than its neighbor Derneuca and has an atmosphere of carbon dioxide and ethane. Its frozen surface is mainly composed of iron-laced silicates with deposits of sulfur.

Additional information:

Orbital Distance	3.66 AU
Orbital Period	6.2 Earth Years
Radius	9,647 km
Day Length	44.7 Earth Hours
Atm. Pressure	1.16 atm
Surface Temp	-108 °C
Surface Gravity	1.2 *g*
Satellites	N/A

Sybin is the fourth planet orbiting the star Amazon. It is a small rock and ice planet with an extremely thin atmosphere of hydrogen sulfide and ethane. Its frozen surface is mainly composed of magnesium and silicates with deposits of iron.

Sybin's crust contains significant deposits of green serpentine, a mineral formed by volcanic activity. This suggests Sybin was a more geologically active world in the distant past.

Additional information:

Orbital Distance	6.63 AU
Orbital Period	15.1 Earth Years
Radius	4,645 km
Day Length	62.6 Earth Hours
Atm. Pressure	0.18 atm
Surface Temp	−169 °C
Surface Gravity	0.5 *g*
Satellites	N/A

Tremar is the fifth planet orbiting the star Amazon. It is a standard hydrogen-helium gas giant with traces of methane and nitrogen in its upper atmosphere.

Additional information:

Orbital Distance	11.26 AU
Orbital Period	33.4 Earth Years
Radius	61,266 km
Day Length	12.5 Earth Hours
Satellites	N/A

Columbia

Columbia is a medium system with four planets and two asteroid belts. This one is named for the Columbia River.

Distance from Amazon: 31 light-years
Distance from Yangtze: 35 light-years

Clojiia is the first planet orbiting the star Columbia. It is a "hothouse" terrestrial world with a dense atmosphere of nitrogen and sulphur dioxide. The surface is scorching hot, and mainly composed of iron with deposits of gold.

The core of Clojiia is very hot and tectonically active. Volcanic eruptions are common, and the outgassing continues to add to the density of the atmosphere. The largest active volcano has a caldera nearly 100 kilometers in diameter, and its basalt floods have covered an area roughly equivalent to the size of the Earth continent of Australia.

Additional information:

Orbital Distance	0.45 AU
Orbital Period	0.3 Earth Years
Radius	7,074 km
Day Length	47.6 Earth Hours
Atm. Pressure	18.33 atm
Surface Temp	312 °C
Surface Gravity	1.1 *g*
Satellites	N/A

Nepheron is the second planet orbiting the star Columbia. It is a barren, volcanic terrestrial world with an atmosphere of carbon dioxide and krypton. Its surface is mainly composed of sodium with deposits of magnesium.

Aside from displays of geologic beauty (including many spectacular volcanoes), this barren world is of little interest. Entries relating to Nepheron in the astronomical database are sparse.

Additional information:

Orbital Distance	0.86 AU
Orbital Period	0.8 Earth Years
Radius	6,865 km
Day Length	56.2 Earth Hours
Atm. Pressure	0.73 atm
Surface Temp	37 °C
Surface Gravity	0.88 *g*
Satellites	1

Ontaheter is the third planet orbiting the star Columbia. It is an unusually large ice world, with a core of silicate rock and light metals, and a trace atmosphere of krypton and xenon. The crust is mainly composed of water ice. Ontaheter's ice sheets show obvious signs of large scale fracture and refreezing, centered on a massive crater near the south pole.

A recent extranet meme suggests that a Prothean ship crashed through the crust of the planet before the collapse of their empire, and might still be recovered from the planetary core. This is purportedly the source of the planet's unusually high mass. Careful mapping of the planet's gravity field have proved that the planetary core is entirely normal.

Additional information:

Orbital Distance	3 AU
Orbital Period	5.2 Earth Years
Radius	3,718 km
Day Length	56.3 Earth Hours
Atm. Pressure	0.06 atm
Surface Temp	-124 °C
Surface Gravity	N/A
Satellites	N/A

Gromar is the fourth planet orbiting the star Columbia. It is a rocky, terrestrial world with a trace atmosphere of krypton and xenon. The frozen surface is mainly composed of copper with deposits of calcium. Prior to the Alliance's expansion into the Voyage Cluster, Gromar hosted half of a turian interferometric telescope array. Connected with similar telescope in the Attican Beta cluster by an expensive chain of FTL comm buoys, the two functioned as a virtual "lens" with an effective aperture equal to the thousands of light years between them. The turians used this to map the Terminus Systems with great accuracy.

Additional information:

Orbital Distance	23.73 AU
Orbital Period	115.6 Earth Years
Radius	4,911 km
Day Length	30.3 Earth Hours
Atm. Pressure	0.13 atm
Surface Temp	-218 °C
Surface Gravity	0.28 *g*
Satellites	N/A

1st asteroid belt: orbits Columbia at a distance of 0.7 AU.
2nd asteroid belt: orbits Columbia at a distance of 13 AU

Yangtze

Sol is a medium system with five planets. This system is named after the Yangtze River.

Mass Relay: Orbits Yangtze at a distance of 60 AU

Renshato is the first planet orbiting the star Yangtze. It is a dense ice giant with traces of sulphur in its hydrogen-helium atmosphere. The disruptive gravity well of the gas giant prevented any planets from forming nearby.

Renshato is well within the Frost Line, where gas giants usually don't form. As such, it is believed to be an extrasolar capture.

Additional information:

Orbital Distance	0.794 AU
Orbital Period	0.5 Earth Years
Radius	25,957 km
Day Length	18.1 Earth Hours
Satellites	N/A

Binthu is the second planet orbiting the star Yangtze. It is a terrestrial world with an atmosphere of carbon dioxide, a permanent haze of toxic chlorine and clouds of sulphur dioxide that periodically drop torrents of acidic rain on the surface. Its crust is mainly composed of sulphur with deposits of calcium.

Like most worlds in the Voyager Cluster, Binthu has only been charted within the last 20 years by Alliance surveyors. It has no known native ecology. Data about the world is surprisingly brief and generic, painting a picture of an unpleasant and uninteresting place.

Additional information:

Orbital Distance	3.68 AU
Orbital Period	5 Earth Years
Radius	5,935 km
Day Length	53.2 Earth Hours
Atm. Pressure	0.91 atm
Surface Temp	94 °C
Surface Gravity	0.94 *g*
Satellites	1

Dregir is the third planet orbiting the star Yangtze. It is a small, barren rock world with a trace atmosphere of krypton and xenon. The surface is frigid, and mainly composed of silicates with deposits of magnesium, aluminum, and other light metals. Dregir has a weak magnetic field, making it unsuitable for drive discharge operations.

Additional information:

Orbital Distance	10.4 AU
Orbital Period	23.7 Earth Years
Radius	2,843 km
Day Length	34.0 Earth Hours
Atm. Pressure	0.00 atm
Surface Temp	-96 °C
Surface Gravity	0.28 *g*
Satellites	N/A

Alrumter is the fourth planet orbiting the star Yangtze. It is a small, rocky terrestrial planet with a trace atmosphere of nitrogen and krypton. Its frigid surface is mainly composed of light metals with deposits of frozen ammonia.

Additional information:

Orbital Distance	13.53 AU
Orbital Period	35.2 Earth Years
Radius	3,718 km
Day Length	39.5 Earth Hours
Atm. Pressure	0.00 atm
Surface Temp	-96 °C
Surface Gravity	0.39 *g*
Satellites	N/A

Patakiri is the fifth planet orbiting the star Yangtze. It is a terrestrial world with a thin atmosphere composed of neon and chlorine. Its frozen surface is mainly composed of silica with deposits of copper. During the long, cold night, the chlorine in the atmosphere falls to the ground in the form of frost.

Additional information:

Orbital Distance	31.26 AU
Orbital Period	123.6 Earth Years
Radius	7,304 km
Day Length	57.7 Earth Hours
Atm. Pressure	0.42 atm
Surface Temp	-118 °C
Surface Gravity	0.99 *g*
Satellites	N/A

Attican Traverse

Located near the lawless Terminus Systems, the Attican Traverse is the true frontier of Citadel-controlled space. The area contains many worlds once inhabited by the Protheans, and many mass relays are located throughout the systems of the Traverse. Colonies established in the Traverse are subject to constant raids and attacks from the nearby Terminus Systems, but the presence of multiple worlds both rich in resources and Prothean ruins, continues to draw colonizing interest.

Though the Citadel officially claims the region as its own, the forces of the Terminus Systems have claimed many of the planets and systems to be under their control. Unwilling to engage in an all-out war against the Terminus Systems, the Citadel has adopted a military non-interference policy in the region. However, the Council makes no objection to the Systems Alliance's expansion in the Traverse, because the large Alliance Navy can settle unstable regions without the Council needing to get involved.

Armstrong Nebula

The Armstrong Nebula is named after Neil Armstrong, the first human to walk on the moon. The systems themselves are named for landmarks in human space exploration.

Armstrong has five known star systems: the Gagarin system, the Grissom system, the Hong system, the Tereshkova system and the Vamshi system.

This cluster's Mass Relay is located in the Gagarin system.

Gagarin

Gagarin is a medium system with five planets.

It is named after the Soviet cosmonaut Yuri Gagarin. He is best remembered as the first human who orbited the Earth, during the Vostok 1 flight of 1961.

Distance from Grissom: 4 light-years
Distance from Tereshkova: 5.4 light-years
Distance from Hong: 10.2 light-years
Distance from Vamshi: 19 light-years

Mass Relay: Orbits Gagarin at a distance of 7 AU

Junthor is the first planet orbiting the star Gagarin. It is a large terrestrial planet with a thick atmosphere of carbon dioxide and chlorine. The surface is mainly composed of aluminum with deposits of nickel.

Surveyors found the ruins of a technical civilization near the equator – evidently the colony of an ancient spacefaring race. The ruins had subsided to almost nothing – merely wind hollowed husks of arcologies and other megastructures. In the center of the ruins was a single column whose inscriptions defied translation for several centuries.

When asari linguists finally managed a translation, the elaborate relief carvings said merely, "Walk among these works, and know our greatness." The crude scratches on the base of the reverse side said, "Monsters from the id."

It is a scientific mystery how the planet's temperatures are so low, given its proximity to Gagarin. Due to the instability of the region, and the difficulty of setting up research outposts, this mystery isn't likely to be solved in the near future.

Additional information:

Orbital Distance	0.34 AU
Orbital Period	0.3 Earth Years
Radius	10,480 km
Day Length	56.7 Earth Hours
Atm. Pressure	0.96 atm

Surface Temp	-49 °C
Surface Gravity	0.98 *g*
Satellites	> 1

Pressha is the second planet orbiting the star Gagarin. It is a standard Neptune-type "ice giant" with large amounts of hydrocarbons in the middle layers of the atmosphere.

When the Krogan Rebellions ended three millennia ago, the turian chief of naval operations, a distinguished soldier named Mehrkuri, declared his immediate retirement. He disappeared into what was then uncharted territory. It was only two hundred years ago that his ship was found on the surface of Pressha's largest moon. It had landed gently and been deliberately shut down. Of Admiral Mehrkuri, however, no trace was ever found.

Pressha is well within the frost-line so it could not have formed naturally. Most likely it formed well within outside the frost-line and later on migrated to its current orbit.

Additional information:

Orbital Distance	0.78 AU
Orbital Period	0.7 Earth Years
Radius	38,482 km
Day Length	16.2 Earth Hours
Satellites	> 1

Rayingri is the third planet orbiting the star Gagarin. It is a small, barren terrestrial world. While it possesses a reasonably temperate climate and a number of useful resources, no mining corporation is willing to risk investment.

A rogue planetoid, dubbed Vahtz by the initial salarian surveyor team, entered the system approximately ten thousand years ago, and was trapped in a decaying orbit around Rayingri. It is nearing the end of its slow spiral inwards. Earthquakes and cyclonic windstorms are increasingly common on Rayingri.

Within a few hundred years, the planets will rip each other apart. Some asari travel consortiums have already announced sponsorship of cruises to observe the spectacle.

Additional information:

Orbital Distance	1.07 AU
Orbital Period	1.1 Earth Years
Radius	5,171 km
Day Length	60.5 Earth Hours
Atm. Pressure	0.84 atm
Surface Temp	46 °C
Surface Gravity	0.87 *g*
Satellites	1

Sogelrus is the fourth planet orbiting the star Gagarin. It is a small terrestrial planet with a thin atmosphere of nitrogen and argon. The frigid surface is mainly composed of water ice, which can be plainly seen in the bottoms of recent craters. The dark coloration of the surface is caused by a carbon and ferrous material, pushed up from the denser core by cryovolcanic processes.

Additional information:

Orbital Distance	1.5 AU
Orbital Period	1.8 Earth Years
Radius	4,327 km
Day Length	63.9 Earth Hours
Atm. Pressure	0.52 atm
Surface Temp	−136 °C
Surface Gravity	0.46 *g*
Satellites	N/A

Antirumgon is the fifth planet orbiting the star Gagarin. It is a small rock and ice planet, with a trace atmosphere of methane and ethane. The frozen surface is mainly composed of carbon with deposits of calcium.

Antirumgon has been used as a crude anchorage for Terminus pirates for many years. The shells of temporary dwellings blasted by Alliance frigate patrols dot the surface. But always, the pirates return to ground their ships' drive charges, chip out some water ice, and trade slaves and stories.

The deeper layers of Antirumgon's interior are semi-liquid slush, due to the presence of methanol. It is thought that bacterium in the deep core create this natural anti-freeze. Some species of Terminus pirate drill through the ice crust to recover this natural alcohol.

Additional information:

Orbital Distance	2.52 AU
Orbital Period	4.0 Earth Years
Radius	9,508 km
Day Length	32.1 Earth Hours
Atm. Pressure	0.00 atm
Surface Temp	−178 °C
Surface Gravity	0.90 *g*
Satellites	N/A

Grissom

Grissom is a small system with three planets, and two asteroid belts. It is named after Virgil 'Gus' Grissom, the second American into space and one of the first American astronauts to have died in the line of duty (Apollo 1).

Warning: due to the huge distance between planets, it is not advisable to travel to Grissom without a ship with a high fuel capacity.

Distance from Gagarin: 4 light-years
Distance from Hong: 8.7 light-years
Distance from Tereshkova: 6 light-years
Distance from Vamshi: 14 light-years

Benda is the first planet orbiting the star Grissom. It has a dense atmosphere of sulfur dioxide and chlorine. Though technically classified as a "terrestrial" world, the surface of the planet has never cooled enough for a crust to form. It is a global sea of molten rock. Like Zaherux, its atmosphere is being blasted away by the solar wind. Once its thick atmosphere is gone, Benda's surface will be a "mere" 400 degree C.

Additional information:

Orbital Distance	73 AU
Orbital Period	127.3 Earth Years
Radius	6,788 km
Day Length	41.2 Earth Hours
Atm. Pressure	26.35 atm
Surface Temp	3,151 °C
Surface Gravity	N/A
Satellites	N/A

Zaherux is the second planet orbiting the star Grissom. The planet's nitrogen-argon atmosphere is being blasted away by the solar wind of the blue giant Grissom. Its surface consists of "seas" of loose silica dust, some kilometers deep, which periodically swirl into global sandstorms.

Many unmanned probes to Zaherux have been lost over the years. Though investigation has attributed all to mechanical failure or computational error, a popular extranet meme insists the entire planet is composed of dormant nanotechnology, created millennia ago by a race even more advanced than the Protheans.

According to the story, Zaherux's silica dust is actually "disassembler" robots which periodically awaken to defend

themselves. Though discounted by every reputable scientist, this theory has been popularized by a series of sensationalistic texts by asari author Delsae Orthysa.

Additional information:

Orbital Distance	119.5 AU
Orbital Period	266.8 Earth Years
Radius	6,729 km
Day Length	51.5 Earth Hours
Atm. Pressure	0.32 atm
Surface Temp	959 °C
Surface Gravity	0.61 *g*
Satellites	1

Notanban is the third planet orbiting the star Grissom. It is a hydrogen-helium gas giant with traces of ammonia. Molecular nitrogen is present in the highest levels of the atmosphere, giving the planet its odd violet tint.

The upper levels of Notanban's atmosphere are inhabited by "shoals" of tiny ammonia-based lifeforms, no larger or more complex than the plankton of Earth's oceans. Held aloft by air pressure and wind, these bioluminescent creatures constantly flee from the approach of the terminator. Should they be exposed to the light and heat of Grissom, they die. How is it possible for these life-forms to have come to existence, and how they manage to avoid the day-light is a complete mystery, since they need to be travelling at speeds higher than 27000 km/h, something hard to achieve even by taking advantage of the upper winds.

Additional information:

Orbital Distance	286.62 AU
Orbital Period	990.5 Earth Years
Radius	73,314 km
Day Length	16.9 Earth Hours
Satellites	> 1

1st asteroid belt: orbits Grissom at a distance of 26 AU
2nd asteroid belt: orbits Phoenix at a distance of 35 AU

Hong

Hong is a medium system with five planets. It named after China's first successful satellite, the Dong Fang Hong I (东方红一号, "Red East 1").

Distance from Gagarin: 10.2 light-years
Distance from Grissom: 8.7 light-years
Distance from Tereshkova: 6 light-years
Distance from Vamshi: 9 light-years

Pomal is the first planet orbiting the star Hong. It is an enormous terrestrial planet, with a very dense atmosphere of carbon dioxide and sodium. The surface is scorching hot, and mainly composed of sodium oxides and deposits of nickel. There is evidence that Pomal was once covered with broad, shallow seas. Should a probe ever be sent to the surface, a check for ancient fossil life might prove valuable.

Additional information:

Orbital Distance	0.63 AU
Orbital Period	0.5 Earth Years
Radius	9,616 km
Day Length	47.0 Earth Hours
Atm. Pressure	31.59 atm
Surface Temp	492 °C
Surface Gravity	1.2 *g*
Satellites	N/A

Casbin is the second planet orbiting the star Hong. It is a classic "pre-garden" terrestrial world, with conditions similar to those on Earth millions of years ago. Its hot, humid atmosphere is mainly composed of nitrogen and carbon dioxide. An increasing amount of the surface is covered by simple lichen and algae. Should no unexpected calamity occur, these tiny plants will change the atmosphere to an Earth-like nitrogen-oxygen mix over the next few millennia.

Due to its potential for future habitability and sapient life, Casbin has been designated a Sanctuary World by the Citadel Council. Landing is prohibited by law, and any disturbance of the fragile young ecosystem will result in harsh fines and imprisonment.

At present, the planet is passing through the debris trail of a long-period comet.

Additional information:

Orbital Distance	1.07 AU
Orbital Period	1.1 Earth Years
Radius	7,819 km
Day Length	44.6 Earth Hours
Atm. Pressure	1.1 atm
Surface Temp	99 °C
Surface Gravity	1.1 *g*
Satellites	N/A

Matar is the third planet orbiting the star Hong. It is a terrestrial planet with a thick atmosphere composed of nitrogen and krypton. Its frigid surface is mainly composed of sodium oxide with deposits of copper. Because of noxious surface gases, explorers are warned to use extreme caution.

Matar lacks a magnetic field. This makes it useless for discharging FTL drive cores in orbit. The energetic particles of solar wind from Hong strike the upper atmosphere directly, ionizing the krypton. This gives the planet its distinctive "minty" green-white hue.

Additional information:

Orbital Distance	9.61 AU
Orbital Period	29.8 Earth Years
Radius	4,599 km
Day Length	54.5 Earth Hours
Atm. Pressure	3.72 atm
Surface Temp	−64 °C
Surface Gravity	0.57 *g*
Satellites	N/A

Theshaca is the fourth planet orbiting the star Hong. It is a standard hydrogen-helium gas giant. In the past, it was often used as a drive discharge point for pirates raiding human settlements from the Terminus Systems. In 2178 the Alliance set up a network of covert sensing devices on Theshaca's moons. Recordings of pirate FTL exit vectors over the course of six months led the Alliance Navy to eight major pirate anchorages. Since the "Theshaca Raids," no ships from the Terminus have been reported in the Hong system.

Additional information:

Orbital Distance	20 AU
Orbital Period	84.4 Earth Years
Radius	65,976 km
Day Length	14.0 Earth Hours
Satellites	> 1

Treagir is the fifth planet orbiting the star Hong. It is a tiny "ice dwarf", with a trace atmosphere of xenon and krypton. The frozen surface is mainly composed of water ice and ammonia. Cryovolcanic processes are gradually repaving the surface with sheets of fresh ice.

Additional information:

Orbital Distance	38.5 AU
Orbital Period	238.8 Earth Years
Radius	1,402 km
Day Length	30.2 Earth Hours
Atm. Pressure	0.04 atm
Surface Temp	-211 °C
Surface Gravity	0.1 *g*
Satellites	N/A

Tereshkova

Tereshkova is a large system with six planets and an asteroid belt. It is named after Valentina Tereshkova, the first woman to fly in space.

Tereshkova is a binary system with Tereshkova-A in the center; unlike Vamshi their combined energy is low. It appears to be in a state of change. Patamalrus is set to lose its atmosphere and Mawinor to be ejected entirely.

Distance from Gagarin: 5.4 light-years
Distance from Grissom: 6 light-years
Distance from Hong: 6 light-years
Distance from Vamshi: 15 light-years

Antibaar is the first planet orbiting the star Tereshkova. It is a cold terrestrial world with an atmosphere of methane and argon. Its frozen surface is mainly composed of iron with deposits of magnesium. The world has been noted as a possible target for long-term terraforming; if the atmosphere could be increased to the thickness of Earth's, the global average temperature would rise by 10 degrees Celsius.

Antibaar's combination of low temperatures, high speed surface winds, and low visibility make it dangerous to explore.

Additional information:

Orbital Distance	1.6 AU
Orbital Period	3.2 Earth Years
Radius	6,501 km
Day Length	54.1 Earth Hours
Atm. Pressure	0.79 atm
Surface Temp	−34 °C
Surface Gravity	1.1 *g*
Satellites	N/A

Patamalrus is the second planet orbiting the star Tereshkova. Its atmosphere is very similar to Venus in terms of pressure and temperature. Unlike Venus, however, Patamalrus' atmosphere has a significant quantity of oxygen, both free and bound in sulphur dioxides. The surface is largely composed of magnesia with deposits of carbon. It is possible, if unlikely, that simple life may be developing on Patamalrus.

Computer modeling suggests that the powerful solar winds from the Tereshkova stars will blow off Patamalrus' atmosphere in a few million years, lowering the temperature on the surface to the -70 ºC.

Additional information:

Orbital Distance	4.54 AU
Orbital Period	15.3 Earth Years
Radius	5,831 km
Day Length	47.1 Earth Hours
Atm. Pressure	90.47 atm
Surface Temp	451 °C
Surface Gravity	0.78 *g*
Satellites	N/A

Hunsalra is the third planet orbiting the star Tereshkova. It is a small “ice giant”. It has unusually large amounts of nitrogen in the upper atmosphere, which glow purple when ionized by the solar wind. Hunsalra's convenience as a place to dump drive charge has left its orbit littered with debris "dumped overboard" by visiting crews

Additional information:

Orbital Distance	9.5 AU
Orbital Period	46.2 Earth Years
Radius	11,496 km
Day Length	18.6 Earth Hours
Satellites	N/A

Thegeuse is the fourth planet orbiting the star Tereshkova. It is a terrestrial world with an atmosphere of chlorine and krypton. The surface is mainly composed of silicates with deposits of carbon. Thegeuse has a low mass for its size, and is tidally locked to the star Tereshkova-A. The temperature difference between the sunward "hot pole" and the dark side "cold pole" creates constant gale-force winds across the terminator.

Additional information:

Orbital Distance	10.3 AU
Orbital Period	52.3 Earth Years
Radius	5,130 km
Day Length	25.3 Earth Years
Atm. Pressure	0.49 atm
Surface Temp	-141 °C
Surface Gravity	0.47 *g*
Satellites	N/A

Solmarlon is the fifth planet orbiting the star Tereshkova. It is one of Tereshkova's two outer worlds. Significantly removed from the rest of the system, and with unstable elliptical orbits, it is thought they may have formed within 3 AU of the binary stars, and were hurled outward due to the instability of such an orbit.

Solmarlon is a hydrogen-helium gas giant with significant quantities of sodium in the upper atmosphere, giving it a distinct grey color.

Additional information:

Orbital Distance	39.4 AU
Orbital Period	399.7 Earth Years
Radius	69,862 km
Day Length	14.4 Earth Hours
Satellites	N/A

Mawinor is the sixth planet orbiting the star Tereshkova. It is the second of Tereshkova's outer worlds. It is essentially a rock of unremarkable ores with some deposits of water ice, but no minerals of value. The frozen surface is composed of silica.

Like the gas giant Solmarlon, it is thought that Mawinor formed too close to the Tereshkova stars and was thrown outwards by gravitational effects. Computer models suggest it will be ejected from the system in a few hundred thousand years.

Additional information:

Orbital Distance	56 AU
Orbital Period	662.7 Earth Years
Radius	1,170 km
Day Length	61.8 Earth Hours
Atm. Pressure	0.00 atm
Surface Temp	-228 °C
Surface Gravity	0.08 *g*
Satellites	N/A

1st asteroid belt: orbits Tereshkova at a distance of 1 AU

Vamshi

Vamshi is a small system with three planets. Vamshi is a binary system. Vamshi-A is a main-sequence white dwarf of spectral class A4 V 1 whose surface temperature is over 8667 K, giving it mass 2.1 and radius 1.7 sols (a bit more than A5 Beta Pictoris). Vamshi-B is an aging red giant of class M5 III 1 (temperature under 3500 K), over 220 times the diameter (and radius) of Sol: so, a radius on the order of 1 AU.

Distance from Gagarin: 19 light-years
Distance from Grimson: 14 light-years
Distance from Hong: 9 light-years
Distance from Tereshkova: 15 light-years

Maji is the first planet orbiting the star Vamshi. It has a thin atmosphere of methane and carbon monoxide. The difference in temperature between the hemisphere facing the suns and that facing deep space causes constant wind, stirring the silica and sodium dust of the surface.

Unsavory characters from the Terminus Systems occasionally use Maji for forms of cruel sport, dumping slaves, hostages, quarreling shipmates, or even (when bored) vicious animals on the surface. One must kill the other before they will be rescued from the lethal radiation of the giant stars.

Additional information:

Orbital Distance	3.4 AU
Orbital Period	5.9 Earth Years
Radius	5,727 km
Day Length	55.3 Earth Hours
Atm. Pressure	0.42 atm
Surface Temp	-121 °C
Surface Gravity	0.85 *g*
Satellites	N/A

Pregel is the second planet orbiting the star Vamshi. It is an enormous terrestrial world with an atmosphere of chlorine and ethane. Its surface is mainly composed of sulphur with deposits of aluminum. No landing has ever been attempted.

Additional information:

Orbital Distance	6.82 AU
Orbital Period	17.8 Earth Years
Radius	10,510 km
Day Length	49.8 Earth Hours
Atm. Pressure	1.0 atm
Surface Temp	−131 °C
Surface Gravity	1.1 *g*
Satellites	N/A

Almos is the third planet orbiting the star Vamshi. It is a hydrogen-helium gas giant with traces of sodium darkening its atmosphere.

Additional information:

Orbital Distance	13 AU
Orbital Period	46.7 Earth Years
Radius	60,948 km
Day Length	67.1 Earth Hours
Satellites	N/A

Caleston Rift

A cluster in the Attican Traverse and bordering the Terminus Systems. Though technically under the protection of the Citadel Council, Caleston Rift sees a lot of pirate and criminal activity coming from the nearby Terminus Systems.

Caleston Rift has five known star systems: the Aysur system, the Balor system, the Solveig system, the Talava system and the Yakawa system.

This cluster's Mass Relay is located in the Balor system.

Aysur

Aysur is a large system with six planets and an asteroid belt. Aysur is a pale yellow star.

Distance from Balor: 10 light-years
Distance from Solveig: 10.5 light-years
Distance from Talava: 13 light-years
Distance from Yakawa: 7.6 light-years

Agnin is the first planet orbiting the star Aysur. It is a hothouse terrestrial planet. Agnin's scorching clouds of methane and sulfur dioxide give the planet a pale green color in visible light. The SO_2 from volcanic activity rains down as sulfuric acid in the upper atmosphere, but this is boiled away before the liquid reaches the surface. Agnin's harsh environment has prevented exploration by anything except probes.

Additional information:

Orbital Distance	0.7 AU
Orbital Period	0.6 Earth Years
Radius	4,834 km
Day Length	61.1 Earth Hours
Atm. Pressure	86.87 atm
Surface Temp	684 °C
Surface Gravity	0.5 *g*
Satellites	N/A

Shasu is the second planet orbiting the star Aysur. It is a dwarf planet that is believed to have been ejected from Agnin during a giant impact with another planet-sized body. At the time, Agnin had a magma ocean covering much of its surface, and the liquid rock sprayed into space, where it coalesced and cooled over millions of years. The theory is that during the cooling Shasu first orbited Agnin but was eventually pulled from that orbit by the gravity wells of other planets, primarily Dranen.

Today Shasu is relatively temperate, with a light hydrogen-helium atmosphere attracted spacers who use its atmosphere to refuel. Its crust composition is similar to Agnin, as is evident in its high sulfur content.

Additional information:

Orbital Distance	1.4 AU
Orbital Period	1.7 Earth Years
Radius	1,454 km
Day Length	37.4 Earth Hours
Atm. Pressure	0.34 atm
Surface Temp	23 °C
Surface Gravity	0.1 *g*
Satellites	N/A

Dranen is the third planet orbiting the star Aysur. A sizable hydrogen-nitrogen gas giant just on the far side of its pale yellow star's frost line, Dranen is known for its spectacular storms. At least three persistent observable "spots", actually cyclonic and anticyclonic storms, have lasted for over 544 years – significantly longer than Jupiter's Great Red Spot. The largest of these spots, the Ishna, has consistently held a diameter over three times that of Earth.

Dranen has 44 moons. Two of them are of special interest to the Citadel Committee on Habitable Worlds. The first, Arvuna, is a life-bearing world that has already been colonized. The second, Alahya, is slowly being terraformed into an ammonia-based world for volus populations.

Additional information:

Orbital Distance	2.5 AU
Orbital Period	4.0 Earth Years
Radius	72,021 km
Day Length	17.1 Earth Hours
Satellites	44

Dranen's Moon: Arvuna

Arvuna is one of Dranen's many moons. It is classified as a water world because oceans or ice cover 90% of its surface. Besides prodigious sea life, Arvuna is home to a host of venomous arthropodal pests in the tropical zone with metallic carapaces similar to those found on Palaven to resist radiation coming from Dranen's magnetosphere. There are several well-shielded human colonies on Arvuna, although they are alienated from the Council and politically insignificant to the Traverse and Terminus Systems.

Additional information:

Orbital Distance	2.5 AU
Orbital Period	66 days
Radius	6,448 km
Day Length	29.2 Earth Hours
Atm. Pressure	1.45 atm
Surface Temp	1 °C
Surface Gravity	1.1 *g*
Satellites	N/A

Colony	
Species	Human
Capital	Asa
Colony Founded	2160 CE
Population	948,700

Alformus is the fourth planet orbiting the star Aysur. A hydrogen-helium gas giant, Alformus had its helium-3 refueling stations destroyed in an attack by Grow Zero, an anti-population terrorist group that wanted no more immigration to Arvuna. A consortium of Arvuna-based corporations is currently rebuilding the stations.

Alliance Advisory: Alformus is not considered vital to the stability of the Aysur system. Civilians working on the helium-3 platforms should not expect Alliance military intervention in case of kidnapping or other violence.

Additional information:

Orbital Distance	10.1 AU
Orbital Period	32.2 Earth Years
Radius	67,626 km
Day Length	8.8 Earth Hours
Satellites	N/A

Shir is the fifth planet orbiting the star Aysur. It is a small terrestrial world capped in ice. Shir has been exploited by Arvunan corporations for its minerals. Home to gold ore, which is used in spaceship shielding as well as jewelry, and to cobalt deposits used in high-tensile alloys. Shir shows no signs of being exhausted anytime soon. A light gravity helps keep the planetary exploration process cheap.

Additional information:

Orbital Distance	20.0 AU
Orbital Period	89.7 Earth Years
Radius	4,900 km
Day Length	31.0 Earth Hours
Atm. Pressure	Trace
Surface Temp	−185 °C
Surface Gravity	0.7 *g*
Satellites	N/A

Tamgauta is the sixth planet orbiting the star Aysur. It is a remote and largely unexplored terrestrial world. Its carbon dioxide atmosphere has long since frozen into fields of dry ice.

Additional information:

Orbital Distance	42.2 AU
Orbital Period	275.1 Earth Years
Radius	3,354 km
Day Length	64.8 Earth Hours
Atm. Pressure	Trace
Surface Temp	−216 °C
Surface Gravity	0.2 *g*
Satellites	N/A

1st asteroid belt: orbits Aysur at a distance of 5 AU

Balor

Balor is a medium system with four planets and an asteroid belt.

Balor is a red dwarf star. It produces a weak solar output; however, during solar flares, the luminosity of this star can double or triple. Balor is named after a king of the Fomorians in Irish mythology, and several of the system's planets are also named after figures from the Irish Mythological Cycle.

Distance from Aysur: 10.5 light-years
Distance from Solveig: 7.6 light-years
Distance from Talava: 6 light-years
Distance from Yakawa: 13 light-years

Mass Relay: Orbits Balor at a distance of 13 AU

Fuel Depot: Balor has one fuel depot orbiting .at a distance of 6 AU

Cernunnos is the first planet orbiting the star Balor. It is a sizable gas giant with a hydrogen-nitrogen atmosphere. It is believed to be extrasolar capture due to its close stellar location. In a rare phenomenon, it is near enough to its red dwarf star to be within the life zone, though its massive size prevents the tidal lock that usually occurs at such a range. While nothing could survive on the surface of a planet with such crushing gravity, Cernunnos's moon Caleston is habitable. Cernunnos is skimmed for its abundant hydrogen, and refineries on Caleston process it into a metastable metallic form for use as starship fuel.

Additional information:

Orbital Distance	0.07 AU
Orbital Period	31 Earth Days
Radius	49,231 km
Day Length	17 Earth Hours
Satellites	> 1

Cernunnos' Moon: Caleston

The hostile moon Caleston is the largest satellite of the gas giant Cernunnos. An ancient asteroid strike deposited major lodes of element zero within the molten sulfur mantle. Eldfell-Ashland Energy's mining operations have made it the largest source of starship drive core material in the Attican Traverse.

Caleston is wracked with volcanism due to tidal stresses from Cernunnos. Because of the weak solar output, plant-like life on Caleston is not carbon-based and photosynthetic but silicon-based and thermosynthetic, requiring heat rather than sunlight to power its chemical reactions. These organisms flourish in volcanic vents and during solar flares, when Balor

can double or triple in luminosity. Sadly, sapient habitation is not possible here, and Caleston's biodiversity is considered "threatened" by the Citadel Council Committee on Habitable Worlds.

Additional information:

Orbital Distance	0.07 AU (orbits Cernunnos)
Orbital Period	21.5 Earth Hours (around Cernunnos)
Radius	6,600 km
Day Length	21.5 Earth Hours
Atm. Pressure	0.9 atm
Surface Temp	30 °C
Surface Gravity	1.2 *g*
Satellites	N/A

Colony	
Capital	Syneu
Colony Founded	1975 CE
Population	1,802,705,000

Bres is the second planet orbiting the star Balor. A member of the Fomor Belt, Bres is a dwarf planet with no atmosphere. It is, however, rich in lithium, which is integral to the heat sinks of starships and hand-held weapons. A large robo-mining operation from Caleston can be found here.

Additional information:

Orbital Distance	2.9 AU
Orbital Period	4.9 Earth Years
Radius	975 km
Day Length	23.3 Earth Hours
Atm. Pressure	0.00 atm
Surface Temp	−146 °C
Surface Gravity	0.173 *g*
Satellites	N/A

Elatha is the third planet orbiting the star Balor. A tiny rock planet, Elatha is noted for its frigid temperatures and crushing nitrogen and krypton atmosphere. Lying out beyond the Fomor Belt, it has little to recommend it.

Additional information:

Orbital Distance	5.5 AU
Orbital Period	23.6 Earth Years
Radius	1,812 km
Day Length	57.3 Earth Hours
Atm. Pressure	43.34 atm
Surface Temp	−72 °C
Surface Gravity	0.1 *g*
Satellites	N/A

Partholon is the fourth planet orbiting the star Balor. It is a large planet composed of ice surrounding a rocky core with trace gases of nitrogen and carbon monoxide. Its crushing gravity makes for an inhospitable stay and mining largely infeasible. However, its orbit's proximity to the mass relay in the system means space travelers will, for the next few years, use it for a gravitational slingshot to add speed on their way to and from Caleston.

Additional information:

Orbital Distance	11.2 AU
Orbital Period	68.6 Earth Years
Radius	11,921 km
Day Length	28.2 Earth Hours
Atm. Pressure	Trace
Surface Temp	−236 °C
Surface Gravity	6.6 *g*
Satellites	N/A

1st asteroid belt: named Fomor Belt, this asteroid belt is so massive that its innermost layer orbits Balor at a distance of 2.9 AU and its outermost laywer orbits the star at a distance of 5.5 AU.

Solveig

Solveig is a small system with two planets.

Solveig is evolving prematurely into a red giant star. The name Solveig is of Norse origin, but has different meanings, the closest of which is "strong sun"; from the Norse word for sun "Sol" and the Norse word for strength "veig". The planets in this system all have Norse names.

Distance from Aysur: 10 light-years
Distance from Balor: 7.6 light-years
Distance from Talava: 7.6 light-years
Distance from Yakawa: 9 light-years

Fuel Depot: Solveig has fuel depots orbiting Thrivaldi.

Surtur is the first planet orbiting the star Solveig. It is a small but dense desert planet close to its parent star. All but traces of its nitrogen-carbon monoxide atmosphere have burned away, leaving it cooler than similar planets in other systems. Robo-mining has proved lucrative, as it has developed significant deposits of beryllium and palladium.

Surtur's moon, Sinmara, has been used for many generations to monitor its parent star Solveig. It has no atmosphere to interfere with solar observational equipment, which is critical at this juncture; the star recently showed signs of erupting prematurely into a red giant. In preparation for the day when the critical warning goes out, the extranet channel from Sinmara's research station is given top priority throughout the comm buoys in the system. The chances of such a signal being received over the sun's magnetic interference at that time is low, but relegating it to a lower channel proved politically untenable.

Additional information:

Orbital Distance	0.7 AU
Orbital Period	0.6 Earth Years
Radius	4,433 km
Day Length	65.0 Earth Hours
Atm. Pressure	Trace
Surface Temp	126 °C
Surface Gravity	0.8 *g*
Satellites	1

Thrivaldi is the second planet orbiting the star Solveig. It is an ice giant. Thrivaldi's refueling stations provide helium-3 for commercial spacecraft visiting the system. It has nine known moons and many smaller bodies in its rings.

Travel Advisory: Recent attacks by pirates have targeted Thrivaldi's refueling stations. Authorities list the perpetrators as "at large." Travel is not recommended.

Additional information:

Orbital Distance	1.5 AU
Orbital Period	1.8 Earth Years
Radius	35,957 km
Day Length	11 Earth Hours
Satellites	9

Talava

Talava is a medium system with four planets.

Talava is named after an ancient county of Latgale in present-day Latvia. Talava is an F-class star

Distance from Aysur: 13 light-years

Distance from Balor: 6 light-years
Distance from Solveig: 7.6 light-years
Distance from Yakawa: 16.6 light-years

Aitarus is the first planet orbiting the star Talava. It is a large rock planet. It is pummeled by radiation, heavy gravity, and tectonic activity. Its crust is mostly silicates and of little value. Travel is not advised.

Additional information:

Orbital Distance	0.5 AU
Orbital Period	0.3 Earth Years
Radius	8,945 km
Day Length	65.1 Earth Hours
Atm. Pressure	Trace
Surface Temp	549 °C
Surface Gravity	2.8 *g*
Satellites	N/A

Kaushus is the second planet orbiting the star Talava. It is a young terrestrial planet with extreme tectonic and volcanic activity. It is also home to the spectacular Infinity Caldera. With nine supervolcanoes that can throw out at least 1,000 cubic kilometers of dense rock equivalents each, and Kaushus' activity has put its atmosphere in a state of shroud. It will likely suffer from global dimming for at least the next 10 years. Though much of the surface is no more dangerous than many other inner-ring planets, this extreme tectonic activity has given Kaushus a bad reputation and discouraged all resources exploitation.

Additional information:

Orbital Distance	1.2 AU
Orbital Period	1.0 Earth Year
Radius	6,212 km
Day Length	42.6 Earth Hours
Atm. Pressure	Trace
Surface Temp	249 °C
Surface Gravity	1.0 *g*
Satellites	N/A

Maitrum is the third planet orbiting the star Talava. It is a small hot rock with few resources. It is used by the turian armed forces for its maximum security prison and interrogation centers. The temperatures are high enough to prevent any escape without an environmental suit, but low enough that construction of additional buildings will not be hindered.

Over 500,000 prisoners are detained on Maitrum, only a handful of which have ever managed even a temporary escape. A small supply economy and prefab-habitats support the prison staff, who usually work only for two-year tours of duty before they are rotated out to less stressful positions.

Additional information:

Orbital Distance	2.8 AU
Orbital Period	3.6 Earth Years
Radius	4,642 km
Day Length	N/A
Atm. Pressure	Trace
Surface Temp	74 °C
Surface Gravity	0.4 *g*
Satellites	N/A

Colony	
Species	Turian
Population	Over 500,000 (mostly prisoners)

Taitus is the fourth planet orbiting the star Talava. It is a terrestrial world. A desert of whitish potassium salts and reddish iron oxides, Taitus is far enough away from its parent star to have a tolerable surface temperature. Though it has only a trace atmosphere of carbon dioxide and oxygen, it is still hospitable enough for criminals in the Terminus Systems to use it as a staging base. Turian patrols sometimes fly through the area, looking to pre-empt jailbreak attempts on Maitrum's prisons.

Travel Advisory: Unregistered starships have been spotted in the vicinity of Taitus. Civilian travel is not recommended.

Additional information:

Orbital Distance	4.0 AU
Orbital Period	6.1 Earth Years
Radius	6,045 km
Day Length	22.2 Earth Hours
Atm. Pressure	Trace
Surface Temp	−1 °C
Surface Gravity	0.9 *g*
Satellites	N/A

Yakawa

Talava is a medium system with five planets.
Distance from Aysur: 7.6 light-years
Distance from Balor: 13 light-years
Distance from Solveig: 9 light-years
Distance from Talava: 16.6 light-years

Fuel Depot: Yakawa has fuel depots orbiting Nambu and Kobayashi

Sakata is the first planet orbiting the star Yakawa. It is a large Venusian hothouse planet. Its rough weather and active magnetosphere has a reputation for confounding or destroying space probes launched to investigate it. What has been discovered is that its dense atmosphere is largely carbon dioxide and sodium and its surface, lime. Its magnetosphere suggests an iron-rich core, but its heavy gravity precludes most development.

Additional information:

Orbital Distance	0.6 AU
Orbital Period	0.5 Earth Years
Radius	11,672 km
Day Length	35.8 Earth Hours
Atm. Pressure	13.68 atm
Surface Temp	374 °C
Surface Gravity	3.5 *g*
Satellites	N/A

Nambu is the second planet orbiting the star Yakawa. It is a small hydrogen-helium gas giant. It has an extensive ring system but only twenty moons - comparatively few. Its moon Sumiko is the smallest moon known to be tectonically active in the Milky Way, covered by bright factures. Visitors to Maskawa often take advantage of Nambu's refueling platforms.

Additional information:

Orbital Distance	1.1 AU
Orbital Period	1.2 Earth Years
Radius	47,852 km
Day Length	15.5 Earth Hours
Satellites	20

Maskawa is the third planet orbiting the star Yakawa. It is a dense rock planet with a thick methane-ammonia atmosphere. Because of its similar conditions to the volus homeworld Irune

billions of years ago when it first formed life, a large volus university, the Ten-Clan Academy, hosts symposia on the planet's surface. Unfortunately, despite their security precautions, pirates, organ-leggers, and slavers throughout the Terminus Systems have learned that kidnapped students and professors are a source of easy money. This only adds to the university's reputation as a visit or tenure at the Academy is a clear mark of commitment on any scientific resume.

Additional information:

Orbital Distance	2.0 AU
Orbital Period	2.8 Earth Years
Radius	7,105 km
Day Length	37.6 Earth Hours
Atm. Pressure	3.35 atm
Surface Temp	52 °C
Surface Gravity	1.4 *g*
Satellites	N/A

Colony	
Species	Volus
Capital	Sahime
Colony Founded	2098
Population	40,250

Karumto is the fourth planet orbiting the star Yakawa. An Earth-sized planet wrapped in an impermeable haze of carbon dioxide and ash, Karumto is an unforgiving place. Earthquakes, volcanic gases, and shrouds of dust have prevented any major settlements. Its sulfurous crust has yet to produce resources of interest.

Additional information:

Orbital Distance	2.3 AU
Orbital Period	3.8 Earth Years
Radius	6,529 km
Day Length	33.4 Earth Hours
Atm. Pressure	33.72 atm
Surface Temp	150 °C
Surface Gravity	1.1 *g*
Satellites	N/A

Kobayashi is the fifth planet orbiting the star Yakawa. A small ice giant, it has a faint ring system. A "rust belt" of decrepit refueling stations and abandoned habitats on its moons have attracted vorcha, krogan, and other ne'er-do-wells. Living a hand-to-mouth existence with no garden planet supplying them, they trade helium-3 fuel and recycled waste products to survive. Kidnapees from Maskawa are typically brought to Kobayashi to be released or sold as chattel to out-of-system slavers.

Travel Advisory: Law enforcement authorities of Maskawa categorically state that their effective range does not extend as far as Kobayashi. A statistically significant number of distress signals have been broadcast from within the one-million-kilometer mark of Kobayashi. Civilian traffic is not advised.

Additional information:

Orbital Distance	3.9 AU
Orbital Period	7.7 Earth Years
Radius	30,698 km
Day Length	11.3 Earth Hours
Satellites	>1

Eagle Nebula

The Eagle Nebula is also known as Messier 16 or NGC 6611. The Eagle Nebula was one of eight nebulae discovered in 1745-46 by Swiss astronomer Jean-Philippe de Cheseaux.

Eagle Nebula has five known star systems: the Amun system, the Imir system, the Malgus system, the Relic system and the Strabo system.

This cluster's Mass Relay is located in the Imir system.

Amun

Aysur is a medium system with five planets. Amun is named after the god of creation in the ancient Egyptian pantheon. Its planets are named after other deities of the ancient Egyptian pantheon.

Distance from Imir: 7.5 light-years
Distance from Malgus: 7 light-years
Distance from Relic: 5 light-years
Distance from Strabo: 15 light-years

Fuel Depot: Amun has fuel depots orbiting Sekhmet

Sekhmet is the first planet orbiting the star Amun. A very small hydrogen-helium gas giant believed to have entered Amun's system within the last billion years. Sekhmet was the site of an important battle in the Anhur Rebellions. When the Eclipse mercenary company sought to capture the refueling stations to deny the rebels supplies, a fighter wing hiding in Sekhmet's rings ambushed them. Eclipse suffered heavy initial losses but destroyed two rebel carriers and forced them to retreat into FTL. This was considered the "high water mark" of the rebellion: at no point after the battle of Sekhmet did the rebels have a victory.

Today Sekhmet is home to refueling stations and a small war memorial in orbit at the planet's L5 Lagrange point.

Additional information:

Orbital Distance	0.4 AU
Orbital Period	0.3 Earth Years
Radius	38,347 km
Day Length	9.0 Earth Hours
Satellites	N/A

Sobek is the second planet orbiting the star Amun. It is a hydrogen-nitrogen gas giant believed to be an extrasolar capture. Its low-G moons were the sites of many batarian labor camps during the Anhur Rebellions, generating raw materials for the war. When the slaves were finally liberated by Eclipse the mercenaries found abysmal conditions, including whole camps that lacked mass effect fields to keep the gravity at habitable levels. The widespread bone loss among the slaves was part of their masters' final degradation – it would cripple them if they ever left for a standard-gravity world.

The plight of the slaves soon garnered galactic media attention, and several charities sprang up to pay for their physical therapy and find them gainful employment. Eclipse mercenaries, normally reviled for their cutthroat tactics and criminal employees, found themselves painted as heroes. The mercenary company still retains an office on Sobek's moon Heqet, out of nostalgia as much as a business strategy.

Additional information:

Orbital Distance	0.8 AU
Orbital Period	0.7 Earth Years
Radius	72,530 km
Day Length	12.4 Earth Hours
Satellites	> 1

Anhur is the third planet orbiting the star Amun. It is a garden world with heavy populations of humans and batarians. Anhur was home to one of the ugliest violations of sapient rights in modern human history. A consortium of corporations and corrupt politicians, fearing batarian economic competition due to

their custom of legal slavery, passed a resolution that abolished the minimum wage - effectively relegalizing slavery on a human-dominated world.

Opponents of the motion quickly turned to activism and violence. A civil war erupted as one side sought to end slavery throughout the system and the other, primarily a batarian faction called the Na'hesit, sought to keep the slaves they had. The Anhur Rebellions raged from 2176 to 2178. The Na'hesit had a significant advantage in ships, labor, and weapons, forcing the Anhur militias to hire mercenary companies to even the odds. In the end the abolitionists won out, though at the cost of much of their infrastructure. Though Anhur today still has significant natural wealth, it is economically depressed save for the reconstruction industry.

Additional information:

Orbital Distance	1.7 AU
Orbital Period	2.2 Earth Years
Radius	6,829 km
Day Length	18.0 Earth Hours
Atm. Pressure	0.6 atm
Surface Temp	7 °C
Surface Gravity	1.3 *g*
Satellites	N/A

Colony	
Capital	New Thebes
Colony Founded	2165
Population	208,587,000

Neith is the fourth planet orbiting the star Amun. It is a Cold and dry terrestrial world, with a thin nitrogen atmosphere and vast salt flats at its equator, which is warm enough for liquid water to pool during the summer period. The revealed salt is collected and sold to sodium-poor planets for agricultural purposes.

During the Anhur Rebellions, Neith was a staging ground for Eclipse ships and was the site of their first defeat when enemy Na'hesit surprised and routed them with a superior force. Some wreckage from the battle can still be found on the planet today.

Additional information:

Orbital Distance	3.4 AU
Orbital Period	6.3 Earth Years
Radius	7,008 km
Day Length	54.7 Earth Hours
Atm. Pressure	0.7 atm
Surface Temp	−25 °C
Surface Gravity	1.4 *g*
Satellites	N/A

Bast is the fifth planet orbiting the star Amun. It is a small ice giant. Bast and its moons served as the Eclipse mercenary company's fallback position after their defeat on Neith. Once they had gathered their strength they leaked a false position to the Na'hesit consortium to lure them into a trap, which devolved into a pitched battle. Both sides claimed victory. Na'hesit lost more ships but could afford the setback in a way Eclipse could not.

Additional information:

Orbital Distance	7.0 AU
Orbital Period	18.6 Earth Years
Radius	18,557 km
Day Length	13.6 Earth Hours
Satellites	> 1

Imir

Imir is a medium system with four planets and an asteroid belt. Imir is a gateway system, and is classified as a G-class star.

Distance from Amun: 7.5 light-years
Distance from Malgus: 6 light-years
Distance from Relic: 5.5 light-years
Distance from Strabo: 10 light-years

Mass Relay: Orbits Imir at a distance of 13 AU

Fuel Depot: Imir has one fuel depot orbiting .at a distance of 7 AU and others orbiting Quodis

Osalri is the first planet orbiting the star Imir. It is a boiling hot dwarf planet close to the G-class star Imir. Too hot for lucrative exploitation, its only satellites are defunct solar arrays destroyed by pirates long ago.

Additional information:

Orbital Distance	0.6 AU
Orbital Period	0.5 Earth Years
Radius	2,622 km
Day Length	33.4 Earth Hours
Atm. Pressure	1.86 atm
Surface Temp	229 °C
Surface Gravity	0.1 *g*
Satellites	N/A

Korlus is the second planet orbiting the star Imir. It is a terrestrial world. "A garbage scow with a climate" was how one Citadel Council member described Korlus at the turn of the century, and ever since then the Korlus Tourist Board has been attempting to re-brand their planet. It hasn't worked – though they have tried calling it "the recycling center of the galaxy", corruption scandals and a staggering murder rate ensure that Korlus's image is permanently stained.

Korlus's biggest business is the recycling of decommissioned or junked spacecraft into their component parts. While the invention of omni-gel has made this process significantly cleaner it is still a dirty business that chokes Korlus's sky with smog and fills its ports with megatons of scrap. A shady hospitality industry and a scavenger underclass round out the spectacle of urban decay.

Travel Advisory: Korlus ranks second in murder per capita in the Terminus Systems and first in offworld murder. Civilian traffic is encouraged to employ security professionals when visiting.

Additional information:

Orbital Distance	1.3 AU
Orbital Period	1.5 Earth Years
Radius	6,850 km
Day Length	28.9 Earth Hours
Atm. Pressure	1.5 atm
Surface Temp	28 °C
Surface Gravity	1.3 *g*
Satellites	N/A

Colony	
Capital	Choquo (disputed)
Colony Founded	1781
Population	3,800,000,000

Quodis is the third planet orbiting the star Imir. It is a small hydrogen-helium gas giant. Quodis is used by countless spaceships to discharge their drive cores after coming into the

system. Commercial vessels restock on their supplies of helium-3 from one of its many orbital platforms.

Travel Advisory: Piracy at helium-3 refueling stations is common in the Imir system. Visitors are encouraged to use the escorts provided by the Korlus Security Fleet to and from the system's mass relay. To prevent escort fraud always ask for identification from the escort ships and compare them to those found on the Korlus Security Fleet's extranet sites.

Additional information:

Orbital Distance	5.0 AU
Orbital Period	11.2 Earth Years
Radius	48,918 km
Day Length	13.3 Earth Hours
Satellites	N/A

Gregas is the fourth planet orbiting the star Imir. Cold and distant, Gregas is currently 65 percent rock by mass and 35 percent frozen methane and nitrogen ices. In the planet's "summer years" these percentages change as the sun heats its ice and it evaporates into a thin atmosphere. Its calcium-heavy crust has been scouted by countless Korlus surveying teams, most of whom came back empty-handed.

Additional information:

Orbital Distance	10.0 AU
Orbital Period	31.7 Earth Years
Radius	5,240 km
Day Length	69.9 Earth Hours
Atm. Pressure	Trace
Surface Temp	−170 °C
Surface Gravity	0.7 *g*
Satellites	N/A

1st asteroid belt: orbits Imir at a distance of 3 AU

Malgus

Imir is a small system with three planets. Malgus is an orange star.

Distance from Amun: 7 light-years
Distance from Imir: 6 light-years
Distance from Relic: 7 light-years
Distance from Strabo: 9.5 light-years

Uzin is the first planet orbiting the star Malgus. It is a gas giant named for one of many krogan gods of vengeance. **Uzin** is close enough to its orange sun that none of its moons are considered habitable. Its composition is largely hydrogen and methane, with traces of xenon that the krogan collect for use in ion drives. Uzin is well within the "frost line" where gas giants usually do not form, leading astronomers to believe that its orbit used to be further from the star. If so this would indicate a seriously unstable orbit, and the planet may plunge into its star within a few million years.

Additional information:

Orbital Distance	0.3 AU
Orbital Period	0.2 Earth Years
Radius	74,137 km
Day Length	12.4 Earth Hours
Satellites	> 1

Wrill is the second planet orbiting the star Malgus. A planet only a vorcha could love, Wrill is a terrestrial world notable for its "near miss" climate: punishing heat and a thin toxic methane-ethane atmosphere. Its surface is dotted with krogan and vorcha habitats eking out a meager living off the planet's tin and copper deposits and killing anyone who cuts into their profits.

Travel Advisory: Krogan can survive in the heat with the use of a breathing mask. All other species require environmental suits to avoid heat exhaustion and burns. Liquid water can be found in large lakes on the surface. This can be used for thermoregulation, but it is not potable without processing.

Alliance Bulleting: Large-scale gang warfare is a regular occurrence on Wrill. Civilian traffic is not advised.

Additional information:

Orbital Distance	0.6 AU
Orbital Period	0.5 Earth Years
Radius	5,999 km
Day Length	30.1 Earth Hours
Atm. Pressure	Trace
Surface Temp	56 °C
Surface Gravity	0.9 *g*
Satellites	N/A

Flett is the third planet orbiting the star Malgus. It is a terrestrial world. Uninhabitable by most species, Flett is home to the Blood Pack's vorcha training and breeding grounds. The thick atmosphere is nearly all nitrogen and lacks oxygen, which poses no hazard to the vorcha. Needing little but imports of food and water, vorcha mercenaries and mercenaries-to-be train religiously to overpower and kill whoever the company is at war with this time.

Travel Advisory: Flett's spaceports are wholly owned subsidiaries of the Blood Pack mercenary company, a corporation undergoing numerous criminal investigations for capital crimes. Civilian traffic to Flett is strongly discouraged.

Additional information:

Orbital Distance	1.2 AU
Orbital Period	1.5 Earth Years
Radius	5,623 km
Day Length	48.2 Earth Hours
Atm. Pressure	2.49 atm
Surface Temp	16 °C
Surface Gravity	0.7 *g*
Satellites	N/A

Relic

Relic is a large system with seven planets and an asteroid belt.

Distance from Amun: 15 light-years
Distance from Imir: 10 light-years
Distance from Malgus: 7 light-years
Distance from Strabo: 11.3 light-years

Murky Waters is the first planet orbiting the star Relic. It is a large terrestrial world. Despite the name, the planet has yet to show any signs of having any water whatsoever. Its name is a literal translation from the original hanar, who consider murky water a sign of danger. Murky Water has a hazy crushing atmosphere of carbon dioxide and methane that brings the surface heat to boiling levels. It remains unexploited - its gravity and temperature are too high to bother.

Additional information:

Orbital Distance	0.7 AU
Orbital Period	0.7 Earth Years
Radius	10,551 km
Day Length	53.9 Earth Hours
Atm. Pressure	19.46 atm
Surface Temp	225 °C
Surface Gravity	4.6 *g*
Satellites	N/A

Fitful Current is the second planet orbiting the star Relic. It is a large terrestrial world. It was so named because it orbits in retrograde, indicating that it may have been an extrasolar planet that was captured by the Relic System's gravity well. Large for a rock planet, Fitful Current has only traces of hydrogen in its extremely thin atmosphere. Hanar robo-miners have recovered some uranium and thorium deposits from its depths.

Additional information:

Orbital Distance	1.2 AU
Orbital Period	1.6 Earth Years
Radius	9,260 km
Day Length	41.9 Earth Hours
Atm. Pressure	Trace
Surface Temp	−47 °C
Surface Gravity	3.1 *g*
Satellites	N/A

First Land is the third planet orbiting the star Relic. It is a hydrogen-helium gas giant believed to be an extrasolar capture. First Land is home to many space stations supporting the ubiquitous refueling platforms. A thriving community of drell and hanar make their homes in orbit here, giving the solar system's robo-miners somewhere to go when the 50-hour days and nights are driving them mad.

Additional information:

Orbital Distance	2.1 AU
Orbital Period	3.4 Earth Years
Radius	53,826 km
Day Length	10.9 Earth Hours
Satellites	N/A

Colony	
Species	Hanar

Island Wind is the fourth planet orbiting the star Relic. It is a large hydrogen-nitrogen gas giant. Island Wind is named for the sweet-smelling land breezes that come off of the archipelagos of Kahje in the evening. As tumultuous as any other Jovian giant, Island Wind has cyclones that span tens of thousands of kilometers.

Additional information:

Orbital Distance	3.9 AU
Orbital Period	7.7 Earth Years
Radius	73,088 km
Day Length	17.0 Earth Hours
Satellites	N/A

Rough Tide is the fifth planet orbiting the star Relic. It is a dwarf planet with a shroud of carbon monoxide and dioxide that keeps it warm. Rough Tide was so named when large veins of platinum and palladium were struck and miners from all over the cluster came in to stake their claims. Hanar police and their drell enforcers clashed with krogan and vorcha in an ugly series of race riots in the late 2170s, and the planet has only grudgingly kept a shaky peace since then.

Additional information:

Orbital Distance	7.8 AU
Orbital Period	21.8 Earth Years
Radius	2,125 km
Day Length	67.7 Earth Hours
Atm. Pressure	7.89 atm
Surface Temp	1 °C
Surface Gravity	0.1 *g*
Satellites	N/A

Preying Mouth is the sixth planet orbiting the star Relic. It is a hydrogen-helium gas giant. Preying Mouth is a ship-killing enigma – the Bermuda Triangle of the Terminus Systems. There are many theories why ships never return from there: undetectable space debris: old disruptor torpedoes and magnetic mines from a long-forgotten war; even miniature black holes. But what is clear is that too many ships have been lost there for it to be happenstance.

Travel Advisory: Due to the large number of ships lost when attempting to discharge their drive cores in Preying Mouth, the Relic system highly recommends using First Land's complimentary discharge stations instead.

Additional information:

Orbital Distance	16.0 AU
Orbital Period	64.2 Earth Years
Radius	40,775 km
Day Length	11.7 Earth Hours
Satellites	N/A

Beach Thunder is the seventh planet orbiting the star Relic. It is a terrestrial world. Beach Thunder lives and dies on the price of titanium – the metal being the only reason to come to this frozen rock. A best-selling novel, "The Hard Stuff", has popularized the story of the miners on the planet. It follows the hanar and drell robo-miners competing with krogan and vorcha, who simply put on environmental suits and lase the titanium out more or less by hand. As the novel's promotional screed says "accidents are frequent, rivalry is fierce, and vengeance served up fast."

Additional information:

Orbital Distance	33.0 AU
Orbital Period	190.2 Earth Years
Radius	8,058 km
Day Length	54.1 Earth Hours
Atm. Pressure	1.25 atm
Surface Temp	−157 °C
Surface Gravity	2.1 *g*
Satellites	N/A

1st asteroid belt: orbits Relic at a distance of 8.5 AU

Strabo

Strabo is a small system with one planet and an asteroid belt. Strabo is named after the Greek geographer of the same name.

Distance from Amun: 5 light-years
Distance from Imir: 5.5 light-years
Distance from Malgus: 9.5 light-years
Distance from Relic: 11.3 light-years

Antigar is the first planet orbiting the star Strabo. Charted by a salarian mining expedition that went off course due to computer error, Antigar is a hydrogen and helium gas giant with 11 known moons and dusty rings.

Additional information:

Orbital Distance	4.0 AU
Orbital Period	8.0 Earth Years
Radius	24,193 km
Day Length	11.2 Earth Hours
Satellites	11

1st asteroid belt: orbits Strabo at a distance of 2 AU

Hades Nexus

The Hades Nexus is named after Hades, the Greek god of the underworld and wealth.

Hades Nexus has four known star systems: the Hekate system, the Hoplos system, the Pamyat system and the Sheol system.

This cluster's Mass Relay is located in the Hekate system.

Hekate

Century is a medium system with four planets.

It is a gateway system. Hekate is named after a goddess of the paranormal and magic in the Greek mythology.

Distance from Hoplos: 5 light-years
Distance from Pamyat: 5 light-years
Distance from Sheol: 9 light-years

Mass Relay: Orbits Hekate at a distance of 11 AU

Fuel Depot: Hekate has one fuel depot orbiting .at a distance of 5.3 AU

Asteria is the first planet orbiting the star Hekate. It is a terrestrial world. A habitable planet known for its arid sulfurous deserts, Asteria is colonized near the poles to avoid the uncomfortable temperatures that can reach 65 degrees Celsius in more southern latitudes. While the seas contain primitive animal life, little of it can live on land, leaving the soil to hardy plants that can survive in the extreme heat. Asteria is home to thriving human and asari agrarian colonies but little in the way of manufacturing or mining.

Travel Advisory: Carbon dioxide concentrations can reach 2,500 parts per million in Asteria's atmosphere. Citizens should carry supplemental oxygen for children and the elderly. Consult with local governments to discuss animal companion detection systems or other preparatory measures.

Additional information:

Orbital Distance	1.3 AU
Orbital Period	1.5 Earth Years
Radius	5,900 km
Day Length	21.4 Earth Hours
Atm. Pressure	1.2 atm
Surface Temp	25 °C (habitable zone)
Surface Gravity	0.8 *g*
Satellites	N/A

Colony	
Species	Asari
Capital	Blackdamp
Colony Founded	2044 CE
Population	188 million

Ker is the second planet orbiting the star Hekate. It is a dry desolate terrestrial planet. Ker is temperate but supports little life above the microscopic level. Its Earth-like temperatures and gravity make it an appealing place to build habitation hideaways, attracting batarian slavers and criminals who can't afford more luxurious safehouses on other planets. Its forgiving nitrogen-helium atmosphere makes EVAs possible with a minimal amount of equipment; a breathing mask and warm clothing are usually sufficient. Mining and other legitimate activities are few and far between on Ker. The planet's crust is largely free of precious metals, instead producing kilometers upon kilometers of dolomitic limestone calcite and gypsum.

Additional information:

Orbital Distance	2.2 AU
Orbital Period	3.3 Earth Years
Radius	6,420 km
Day Length	61.7 Earth Hours
Atm. Pressure	1.2 atm
Surface Temp	−4 °C
Surface Gravity	1.1 *g*
Satellites	N/A

Triodia is the third planet orbiting the star Hekate. It is a modestly sized ice giant with an icy core and has a hydrogen and methane atmosphere that gives it a bluish color. It has 14 moons named after asari virtues.

Additional information:

Orbital Distance	4.8 AU
Orbital Period	10.5 Earth Years
Radius	27,206 km
Day Length	18.7 Earth Hours
Satellites	14

Bothros is the fourth planet orbiting the star Hekate. It is a rock and ice planet and home to a scientific curiosity. Evidence of a primate-like spacefaring civilization was found frozen in its equatorial ice, ranging from melted fragments of metal to preserved remains of the creatures still wearing suits for extravehicular activity. Further exploration revealed that their habitation centers were vaporized by orbital bombardments from railgun-like weapons hitting with a force of approximately 120 kilotons of TNT. Only those that fled or happened to be away from the habitats were preserved in the ice, where they died of asphyxiation.

Additional information:

Orbital Distance	8.5 AU
Orbital Period	24.8 Earth Years
Radius	7,191 km
Day Length	51.0 Earth Hours
Atm. Pressure	Trace
Surface Temp	−142 °C
Surface Gravity	1.5 *g*
Satellites	N/A

Hoplos

Century is a medium system with four planets.

Hoplos is an ancient Greek term referring to a mythical armored beast, from which the term hoplite is derived. Fittingly, the planets in the system bear names associated with ancient Greek weapons and raiment.

Distance from Hekate: 5 light-years
Distance from Pamyat: 7.1 light-years
Distance from Sheol: 12.4 light-years

Talaria is the first planet orbiting the star Hoplos. It is a rock with all traces of atmosphere burned away. Talaria orbits the star Hoplos at a blistering pace: every 36 days. Though tidally locked, even its twilight belt and shaded side are too barren to support life. With so many resources on its sister planet Trident, Talaria has largely been ignored by the galactic surveying community.

Additional information:

Orbital Distance	0.1 AU
Orbital Period	0.1 Earth Years
Radius	3,569 km
Day Length	0.1 Earth Years (tidal lock)

Atm. Pressure	Trace
Surface Temp	908 °C
Surface Gravity	0.2 *g*
Satellites	N/A

Makhaira is the second planet orbiting the star Hoplos. It is a small rock planet with a thin atmosphere and high albedo that keeps it from being much hotter than it is. The crust is high in sodium oxide, giving the planet a whitish tinge.

Additional information:

Orbital Distance	0.5 AU
Orbital Period	129 Earth Days
Radius	4,733 km
Day Length	34.9 Earth Hours
Atm. Pressure	Trace
Surface Temp	206 °C
Surface Gravity	0.5 *g*
Satellites	>1s

Makhaira's Moon: Kopis

Makhaira's largest moon, Kopis, is a desolate place with an extremely thin atmosphere. Its crust is largely silica-based, and there are no signs of water. Like its parent planet, its high albedo keeps it from being a total inferno, and when occluded by Makhaira, its temperatures can be nearly tolerable. Its low gravity can easily be countered by a vehicular or personal mass effect field for comfortable exploration.

Additional information:

Orbital Distance	55,000 km (from Makhaira)
Orbital Period	2.84 Earth Days
Radius	1,733 km
Day Length	21.3 Earth Days
Atm. Pressure	Trace
Surface Temp	51 °C
Surface Gravity	0.1 *g*
Satellites	N/A

Trident is the third planet orbiting the star Hoplos. A human-dominated world with over 95% of its surface covered by salt water, Trident is home to a dazzling array of life. The oceans are filled with creatures ranging from tiny bivalves to mammoth vertebrates unequaled even by Earth's whales and ichthyosaurs. Small archipelagos create what little land there is, and its valuable real estate is fought over constantly.

Underwater extraction operations have recovered a number of valuable minerals from the ocean floor, including iridium, uranium, and dust-form element zero. A largely lawless world, Trident is home to a rogues' gallery of unethical corporations exploiting the resources of the planet and actual rogues – criminals, slavers and mercenaries - working the shadows.

Travel Advisory: Due to extreme weather conditions during hurricane season, all traffic to the surface is grounded. Trident spaceport control states this condition will persist until the end of hurricane season.

Additional information:

Orbital Distance	2.0 AU
Orbital Period	2.8 Earth Years
Radius	6,905 km
Day Length	27.6 Earth Hours
Atm. Pressure	1.4 atm
Surface Temp	27 °C
Surface Gravity	1.1 *g*
Satellites	N/A

Colony	
Species	Human
Capital	New Cousteau
Colony Founded	2144 CE
Population	6,800,000

Aegis is the fourth planet orbiting the star Hoplos. It is a hydrogen-helium gas giant. Aegis was the site of an unparalleled cosmic event roughly 1.8 million years ago. An extrasolar body about 200 square kilometers in size was drawn into Aegis' gravity well and struck the Jovian planet, blasting enough dust and material into orbit to create a ring.

An urban legend has grown over this event. The story goes that if the extrasolar body (usually called a comet) was unaffected by the gravity well of Aegis, it would have coincided with an orbit of Trident and created an extinction-level event on that planet. Prevailing scientific opinion holds that this is an exaggeration at best.

Additional information:

Orbital Distance	4.5 AU
Orbital Period	9.6 Earth Years
Radius	53,682 km
Day Length	11.6 Earth Hours
Satellites	N/A

Pamyat

Pamyat is a medium system with four planets and an asteroid belt.

Pamyat is Russian for "memory." The system's planets are named for Georgy Dobrovolski, Vladislav Volkov, Viktor Patsayev and Vladimir Komarov, all Soviet cosmonauts who died during spaceflight.

Distance from Hekate: 5 light-years
Distance from Hoplos: 7.1 light-years
Distance from Sheol: 7.5 light-years

Komarov is the first planet orbiting the star Pamyat. It is an earth-sized terrestrial world. It has little atmosphere to speak of, but this has not stopped exploration by robo-miners, who have recovered iridium from the planet's crust. It was first charted by the asari but colonized by humans.

Additional information:

Orbital Distance	1.0 AU
Orbital Period	1.0 Earth Year
Radius	6,861 km
Day Length	39.6 Earth Hours
Atm. Pressure	Trace
Surface Temp	55 °C
Surface Gravity	1.3 *g*
Satellites	N/A

Colony	
Species	Human

Dobrovolski is the second planet orbiting the star Pamyat. It is another near-Earth-sized rock planet without much atmosphere to speak of. Dobrovolski is home to Altai Mineral Works, a local extraction company noted for its success in eezo refining. The planet itself provides aluminum for local fabricators, which are churning out habitats at an astonishing rate for a system that has no garden planets. With its ore supply coming all the way from the Sheol system Dobrovolski is held up as the proof of the miner's cliche: "Where there's eezo there's an economy."

Additional information:

Orbital Distance	2.3 AU
Orbital Period	3.5 Earth Years
Radius	6,972 km
Day Length	59.1 Earth Hours
Atm. Pressure	0.21 atm
Surface Temp	−46 °C
Surface Gravity	0.9 *g*
Satellites	N/A

Colony	
Species	Human

Patsayev is the third planet orbiting the star Pamyat. A rock planet encased in frozen oceans, Patsayev was notable for the largest written message ever created by a human being. Andrei Kobzar, a disgruntled miner whose fortunes were spent prospecting for eezo, used the mass accelerator cannon of a local mercenary group's A-61 Mantis gunship to carve a 208-kilometer long message in the ice saying "Zdes' nichego net," Russian for "There's nothing here."

The message used to be visible from low orbit. Ironically, the message itself appears to have been melted away by another determined individual with heavy equipment, and now, truly, there is nothing here.

Additional information:

Orbital Distance	4.2 AU
Orbital Period	8.6 Earth Years
Radius	6,351 km
Day Length	18.9 Earth Hours
Atm. Pressure	Trace
Surface Temp	−118 °C
Surface Gravity	1.0 *g*
Satellites	N/A

Volkov is the fourth planet orbiting the star Pamyat. A dwarf planet with a thick atmosphere of nitrogen and krypton. Home to a thriving iridium mining community, Volkov has a reputation that is summed up as "rich but dangerous". Pirates often lurk behind Volkov's two moonlets, Zenevieva and Alena, and cripple freighters leaving the atmosphere. To make matters worse, Volkov sits in the Chazov Belt, a field of asteroids and other small bodies that leads to frequent meteor strikes on the planet. Meteor-related casualties remain rare, but on Volkov the chances of such a death are high enough that they are factored into insurance premiums.

Additional information:

Orbital Distance	8.5 AU
Orbital Period	24.8 Earth Years
Radius	1,705 km
Day Length	68.2 Earth Hours
Atm. Pressure	3.75 atm
Surface Temp	−59 °C
Surface Gravity	0.1 *g*
Satellites	2

Colony	
Species	Human
Population	3,600 (2185) 3,800 (2186)

1st asteroid belt: known as Chazov Belt, orbits Pamyat at a distance of 8.5 AU

Sheol

Pamyat is a small system with one planet.

The star Sheol is a red dwarf, and is named after the abode of the dead in Judaism.

Distance from Hekate: 9 light-years
Distance from Hoplos: 12.4 light-years
Distance from Pamyat: 7.5 light-years

Gei Hinnom is the first planet orbiting the star Sheol. It is a nearly atmosphere-less, tidally locked planet orbiting a red dwarf star. Gei Hinnom was the first place human explorers discovered a dedicated Prothean burial ground. While a few sites were saved for posterity, Eldfell-Ashland Mining successfully lobbied to scout the rest of the planet for element zero and soon was embroiled in a scandal. Mining teams were looting gravesites searching for eezo and other treasures, and many got rich off the so-called "cemetery business". While EAM officially brought a stop to the looting, its mining teams remain on the planet prospecting the unclaimed territory and taking their ore to the Pamyat system for refining.

Additional information:

Orbital Distance	0.83 AU
Orbital Period	0.8 Earth Years
Radius	2,379 km
Day Length	0.8 Earth Years
Atm. Pressure	Trace
Surface Temp	35 °C (habitable zone) 108 °C / −120 °C (uninhabitable)
Surface Gravity	0.1 *g*
Satellites	N/A

Colony	
Species	Human
Population	11,503

Hawking Eta

The Hawking Eta cluster is named after the renowned astrophysicist and theoretician Stephen Hawking, notable for his work concerning black holes. The cluster lies uncomfortably close to the 5 kpc ring around the galactic core, which contains a large fraction of the Milky Way's hydrogen as well as most of its star formation activity. Much of this area is too dangerous to safely travel.

Hawking Eta has five known star systems: the Century system, the Chandrasekhar system, the Schwarzschild system, the Thorne system and the Verr system.

This cluster's Mass Relay is located in the Chandrasekhar system.

Century

Century is a medium system with four planets.

Distance from Chandrasekhar: 4.5 light-years
Distance from Schwarzschild: 15 light-years
Distance from Thorne: 8 light-years
Distance from Verr: 4.5 light-years

Tamahera is the first planet orbiting the star Century. It has a thin atmosphere of carbon dioxide and xenon. The surface is icy, and composed of sodium oxide with deposits of calcium. It contains a few unremarkable metals, but mainly consists of rock. The presence of canyons and flood plains indicates that liquid water once existed, suggesting Tamahera had a thicker insulating atmosphere in the past.

Additional information:

Orbital Distance	1.16 AU
Orbital Period	1.4 Earth Years
Radius	6,302 km
Day Length	40.1 Earth Hours
Atm. Pressure	0.34 atm
Surface Temp	−30 °C
Surface Gravity	0.66 *g*
Satellites	N/A

Klendagon is the second planet orbiting the star Century. It is an arid terrestrial, slightly larger than Earth, but with a lower density that reflects its relative lack of heavier elements. The crust is composed of tin and aluminum, with wide deserts of dust-fine sand that are easily stirred by the wind.

Klendagon's most striking feature is, of course, the Great Rift valley that stretches across the southern hemisphere. What is most fascinating about the Rift is that it does not appear to be natural. The geological record suggests it is the result of a "glancing blow" by a mass accelerator round of unimaginable destructive power. This occurred some thirty-seven million years ago.

Additional information:

Orbital Distance	1.615 AU
Orbital Period	2.3 Earth Years
Radius	7,377 km
Day Length	53.6 Earth Hours
Atm. Pressure	0.64 atm
Surface Temp	−53 °C
Surface Gravity	0.88 *g*
Satellites	1 (Presrop)

Klendagon's Moon: Presrop

Presrop is the moon of Klendagon. It is a frigid, barren world, with an extremely thin atmosphere of carbon dioxide and ethane. The crust contains plentiful deposits of heavy metals. The Alliance has opened bidding for the moon's mineral rights, but exploitation will be complicated by the system's proximity to the "Five Kiloparsec Ring" around the galactic core. The Ring is an area of intense star formation, and too dangerous to safely travel.

Presrop's landscape is a nightmare of jagged, overlapping ridges and geological shock zones created by some ancient disaster. This has not deterred a generation of illegal "wildcat miners" from attempting to exploit the moon's mineral riches. Unfortunately, many have lost their lives.

Additional information:

Orbital Distance	168,500 km (from Klendagon)
Orbital Period	10.8 Earth Days
Radius	4,113 km
Day Length	10.8 Earth Days
Atm. Pressure	0.1 atm
Surface Temp	-73 °C
Surface Gravity	0.88 *g*
Satellites	N/A

Canctra is the thrid planet orbiting the star Century. It is a terrestrial world of average size. Its atmosphere is composed of nitrogen and argon and its frozen surface is mainly composed of tin with deposits of calcium. Aside from some spectacular formations of water-ice at the poles, the planet has little to recommend it.

Additional information:

Orbital Distance	14.3 AU
Orbital Period	60.6 Earth Years
Radius	5,471 km
Day Length	66.7 Earth Hours
Atm. Pressure	0.83 atm
Surface Temp	−175 °C
Surface Gravity	0.7 *g*
Satellites	N/A

Tharopto is the fourth planet orbiting the star Century. It is a typical hydrogen-helium gas giant with traces of chlorine and sulphur in its atmosphere. It has over 100 moons and an extensive ring system composed of pulverized rock, presumably the debris from shattered moons.

Additional information:

Orbital Distance	23.6 AU
Orbital Period	128.2 Earth Years
Radius	68,714 km
Day Length	17.5 Earth Hours
Satellites	> 100

Chandrasekhar

Chandrasekhar is a small system with two planets.

Chandrasekhar is a gateway system and named after Subrahmanyan Chandrasekhar, a renowned astrophysicist and Nobel laureate known for his theoretical work on black holes, notably establishing the eponymous Chandrasekhar limit for white dwarfs.

Distance from Century: 4.5 light-years
Distance from Schwarzschild: 11 light-years
Distance from Thorne: 7.5 light-years
Distance from Verr: 8.4 light-years

Mass Relay: Orbits Chandrasekhar at a distance of 2 AU

Fuel Depot: Chandrasekhar has one fuel depot orbiting Hebat.

Teshub is the first planet orbiting the star Chandrasekhar. It is a standard gas-giant composed mainly of hydrogen and helium. The brown and orange coloration in its upper cloud decks is caused by the upwelling of sulfur from lower levels of the atmosphere.

Additional information:

Orbital Distance	0.9 AU
Orbital Period	1.6 Earth Years
Radius	63,568 km
Day Length	16.6 Earth Hours
Satellites	N/A

Hebat is the second planet orbiting the star Chandrasekhar. It is a methane-ammonia ice giant. When Heavy Metals Exomining of China won the bidding rights to develop the moon of Presrop in the Century system it began by establishing a helium-3 refueling facility on Hebat. The station is considered a model facility by the executives of the state-run company. Though the station produces more than enough fuel to supply the HMEC ships running to and from Century, it has a crew of only a dozen for maintenance and oversight. Nearly all day-to-day operations are automated.

Additional information:

Orbital Distance	1.35 AU
Orbital Period	2.9 Earth Years
Radius	36,257 km
Day Length	17.1 Earth Hours
Satellites	N/A

Schwarzschild

Schwarzschild is a medium system with four planets.

Schwarzschild is named after Karl Schwarzschild, a German astrophysicis

Distance from Century: 15 light-years
Distance from Chandrasekhar: 11 light-years
Distance from Thorne: 13 light-years
Distance from Verr: 17.6 light-years

Athil is the first planet orbiting the star Schwarzschild. It is a typical Venusian "greenhouse" world with only a few scattered craters of note. Though flattened by millions of years of high pressure the marks of orbital bombardment strikes are unmistakable. It is generally accepted among academics that whoever hailed from or settled Schwarzschild's second planet, Etamis, must have had outposts on Atahil as well.

Additional information:

Orbital Distance	0.9 AU
Orbital Period	1 Earth Year
Radius	5,230 km
Day Length	28.8 Earth Hours
Atm. Pressure	62 atm
Surface Temp	348 °C
Surface Gravity	0.79 *g*
Satellites	N/A

Etamis is the second planet orbiting the star Schwarzschild. It is a superterrestrial world a third larger than Earth. It is in a "post-garden" state that clearly shows evidence of attack from space. While it's now waterless, the shores of former oceans show patterns of cratering too regular to be anything but saturation bombardment by dreadnought-class kinetic weapons, although it is unclear how most of the atmosphere has been lost. Archaeologists have found little of note. It appears that all settled regions were touched by the global bombardment. The few relics found suggest an advanced spacefaring culture thrived on the world from approximately 20 to 40 million years ago. The level of antiquity makes it impossible to estimate the world's former population or guess whether it was the race's homeworld or a colony.

Additional information:

Orbital Distance	1.35 AU
Orbital Period	1.6 Earth Years
Radius	9,577 km
Day Length	51.6 Earth Hours
Atm. Pressure	0.2 atm
Surface Temp	−49.6 °C
Surface Gravity	3.4 *g*
Satellites	N/A

Linossa is the third planet orbiting the star Schwarzschild. It is a hydrogen-helium gas giant. It is surrounded by several thin rings of debris. Analysis of this debris has been difficult due to extreme age and fragility, but several apparently nano-manufactured materials have been identified. The leading theory is that the inhabitants of Etamis mined the atmosphere for helium-3.

Additional information:

Orbital Distance	3.34 AU
Orbital Period	6.8 Earth Years
Radius	55,806 km
Day Length	17.8 Earth Hours
Satellites	N/A

Rihali is the fourth planet orbiting the star Schwarzschild. It is a typical hydrogen-helium gas giant. It is notable because none of its moons is larger than 12 kilometers in diameter, a rare trait among the charted gas giants of the galaxy.

Additional information:

Orbital Distance	6.34 AU
Orbital Period	17.9 Earth Years
Radius	70,778 km
Day Length	15.4 Earth Hours
Satellites	> 1

Thorne

Thorne is a small system with one planet and one asteroid belt.

The system is named after Kip Thorne, one of the world's leading experts on Einstein's general theory of relativity.

Distance from Century: 8 light-years
Distance from Chandrasekhar: 7.5 light-years
Distance from Schwarzschild: 13 light-years
Distance from Verr: 7 light-years

Mnemosyne is the first planet orbiting the star Thorne. It is a brown dwarf of approximately 37 Jupiter-masses. It is young enough that some nuclear fusion still occurs within its depths. It is luminous, and radiates more heat than it receives from the star Thorne, with an atmospheric temperature in excess of 1,800 degrees Kelvin (1,500 degrees Celsius).

Early probes of Thorne showed evidence of a minor gravitic anomaly in the northern hemisphere. This area of unexpectedly low mass did not move with the prevailing wind patterns. While an investigation was planned by the Besaral Institute of Planetary Science, the school ultimately sent an expedition to study the famed "deep anomalies" of the gas giant Ploba instead.

Additional information:

Orbital Distance	0.81 AU
Orbital Period	0.8 Earth Years
Radius	72,451 km
Day Length	18.7 Earth Hours
Atm. Pressure	N/A
Surface Temp	1,500 °C
Surface Gravity	N/A
Satellites	≥ 1 (largest moon: Lethe)

Mnemosyne's Moon: Lethe

Lethe is the largest moon of Mnemosyne, massive enough to retain its own thin atmosphere of methane and nitrogen, and heated by the brown dwarf to relatively moderate temperatures. While nearly the size of Earth, its overall density is low, suggesting a paucity of valuable heavy metals. It is tidally locked to Mnemosyne, one hemisphere always bathed in the brown dwarf's heat and dim red light.

The moon experiences constant weak tectonic activity, driven by the tidal fluxes of Mnemosyne's gravity rather than Lethe's own internal heat. Several large, ancient volcanoes release wide-ranging flows of molten silicate.

Additional information:

Orbital Distance	2,323,500 km (from Mnemosyne)
Orbital Period	16.4 Earth Days
Radius	5,663 km
Day Length	16.4 Earth Days
Atm. Pressure	0.58 atm
Surface Temp	31 °C
Surface Gravity	0.59 *g*
Satellites	N/A

1st asteroid belt: orbits Thorne at a distance of 0.3 AU

Verr

Thorne is a small system with three planets
Distance from Century: 4.5 light-years
Distance from Chandrasekhar: 8.4 light-years
Distance from Schwarzschild: 17.6 light-years
Distance from Thorne: 7 light-years

Fuel Depot: Ver has fuel depots orbiting Allusah.

Corang is the first planet orbiting the star Verr. It is a terrestrial world smaller than Earth. Initial surveys of Corang noted its high density and active plate tectonics, suggesting a high internal heat fueled by a greater than normal concentration of heavy elements and radioactives. Early test cores proved the mineral richness of the world, but distance from the mass relay in the Chandrasekhar system made it unprofitable to develop until late 2183.

The atmosphere is a smog of methane, ammonia, and water vapor, a so-called "primordial soup" similar to the conditions of early Earth. However, there is no evidence of life developing on Corang's surface beyond the level of simple dextro-amino acids. The minimal energy input of the red dwarf Verr have created an energy-starved surface environment, through the planet's volcanism does hold open some possibility for subterranean development.

Additional information:

Orbital Distance	0.7 AU
Orbital Period	0.9 Earth Years
Radius	4,911 km
Day Length	53.2 Earth Hours
Atm. Pressure	0.73 atm
Surface Temp	58 °C
Surface Gravity	N/A
Satellites	0

Allusah is the second planet orbiting the star Verr. It is a small, dense "ice giant" with high concentrations of water, ammonia, and methane. A few automated helium-3 fuel stations have been established to refuel the ore freighters shuttling to and from Corang.

Additional information:

Orbital Distance	1.19 AU
Orbital Period	2.4 Earth Years
Radius	25,652 km
Day Length	18.1 Earth Hours
Satellites	N/A

Serao is the third planet orbiting the star Verr. It is a standard hydrogen-helium gas giant. Its more obvious features are a pair of gigantic storm cells, one in the northern hemisphere, and one in the south. While richer in helium-3 than Allusah, the difficulties of extraction from Serao's gravity well and stormy atmosphere lead to the other gas giant's development.

Serao has over 80 moons, ranging from a radius of 50 to 2,000 kilometers. The asari Tersicor Council has established an observation post on one of the larger moons to study the planet's twin storm systems.

Additional information:

Orbital Distance	2.14 AU
Orbital Period	5.7 Earth Years
Radius	70,881 km
Day Length	9.7 Earth Hours
Satellites	> 80

Ismar Frontier

A huge nebula, on the outer reaches of the galaxy, that borders the Attican Traverse and the Outer Council Space.

Ismar Frontier has three known star systems: the Aquila system, the Elysta system and the Faia system.

This cluster's Mass Relay is located in the Aquila system.

Aquila

Aquila is a medium system with five planets.

Aquila means "eagle" in both Latin and Italian. The names of the planets in the Aquila system refer to certain locations in central and southern Italy. Aquila is a gateway system.

Distance from Elysta: 8 light-years
Distance from Faia: 6 light-years

Mass Relay: Orbits Aquila at a distance of 10 AU.

Fuel Depot: Aquila has one fuel depot orbiting Metaponto.

Lepini is the first planet orbiting the star Aquila. It is a hydrogen-methane gas giant. Lepini and its moons have been cursorily scanned by space probes and found to have little in the way of rare resources. The galaxy at large considers it unremarkable. Lepini is well within the 'frost line', where gas giants do not form, so it is most likely an extrasolar capture.

Additional information:

Orbital Distance	0.5 AU
Orbital Period	0.4 Earth Years
Radius	56,666 km
Day Length	9.2 Earth Hours
Satellites	> 1

Vecchio is the second planet orbiting the star Aquila. It is a moderately-sized terrestrial world with a thin, hot atmosphere of carbon dioxide and nitrogen. Initial surveys found trace amounts of iridium, but little else of interest in the silicate desert sands that cover much of the surface of the planet.

On a recent tour, the Alliance surveyor ship Kupe discovered a group of partial graves hidden in the equatorial mountain ranges. The ancient skeletons in the burial sites were obviously humanoid but incomplete and poorly preserved, which has made them difficult to identify. Fragments of primitive ceramic grave goods were also found nearby. This raises further questions about who once traveled to this inhospitable planet since the closest garden world, Volturno, has no intelligent life. Human universities are planning further archeological investigations.

Additional information:

Orbital Distance	1.1 AU
Orbital Period	1.2 Earth Years
Radius	6,443 km
Day Length	39.1 Earth Hours
Atm. Pressure	0.79 atm
Surface Temp	58 °C
Surface Gravity	0.82 *g*
Satellites	N/A

Volturno is the third planet orbiting the star Aquila. It is a so-called "super-Earth". Volturno is home to organic life but is nevertheless uninhabitable for the near future. Currently in an ice age, most of the planet from the latitude of 30 degrees north or south is a frozen wasteland, and so most organic life, limited to algae and lichens, resides near the equator. The strong gravity prevents any sapient species but elcor from thriving on the planet, and the elcor cannot breathe the planet's atmosphere,

which contains lethal amounts of carbon dioxide in addition to its oxygen. Small packs of vorcha squatters are attempting to take the planet for themselves illegally, but most of them live miserable existences in the planet's crushing gravity and die from falls and medical complications. Only terraforming on a massive scale would turn Volturno into a habitable world, and the elcor lack the political capital with the Citadel Council to begin such an effort.

Additional information:

Orbital Distance	2.1 AU
Orbital Period	3.0 Earth Years
Radius	11,177 km
Day Length	26.8 Earth Hours
Atm. Pressure	0.83 atm
Surface Temp	−10 °C
Surface Gravity	3.3 *g*
Satellites	N/A

Metaponto is the fourth planet orbiting the star Aquila. It is a hydrogen-helium gas giant. Metaponto has developed a helium-3 fueling station funded by elcor business interests who hope to bring enough attention to the system to attract terraforming investors and thus eventually develop Volturno as a habitable world. Thus far, they have met with little success.

Additional information:

Orbital Distance	4.2 AU
Orbital Period	8.6 Earth Years
Radius	70,520 km
Day Length	12.1 Earth Hours
Satellites	N/A

Pollino is the fifth planet orbiting the star Aquila. It is a small ice giant. Pollino remains undeveloped while its sister planet Metaponto garners all the attention. This was not always the case - in 2180, news stories seeded throughout the extranet claimed that element zero was being found on Pollino's moons in record lodes. This turned out to be a scam spread by the Dunawurachum Consortium, an elcor corporation trying to scare up investors. After a small fleet of space probes scouted the area, the hype quickly deflated, and the myth only persists now in unwanted extranet e-mail messages.

Additional information:

Orbital Distance	8.0 AU
Orbital Period	22.7 Earth Years
Radius	37,052 km
Day Length	16.5 Earth Hours
Satellites	> 1

Elysta

Elysta is a medium system with five planets.
Distance from Aquila: 8 light-years
Distance from Faia: 8 light-years

Saleas is the first planet orbiting the star Elysta. It is a small terrestrial world. Saleas' cratered surface is ancient; parts of the highlands have been unchanged for nearly three billion years. The layers of overlapping craters stand as testament to the violence of the system's creation. Saleas is tidally locked to Elysta and has a trace atmosphere of krypton and xenon, with helium constantly "blowing in" via solar winds.

Additional information:

Orbital Distance	0.4 AU
Orbital Period	0.3 Earth Years
Radius	3,485 km
Day Length	0.3 Earth Hours
Atm. Pressure	Trace
Surface Temp	138 °C
Surface Gravity	0.32 *g*
Satellites	N/A

Zeona is the second planet orbiting the star Elysta. It is a terrestrial world with a thin atmosphere of sulfur dioxide and trioxide, created by volcanic outgassing. There are traces of water vapor in the atmosphere, but over the last five centuries of observation particle counts have decreased 4%.

While not habitable by any spacefaring species, there is an abundance of native sulfur-devouring bacteria that thrives around the world's many volcanic vents. Interestingly, these bacterium bear genetic similarities to the native life of Illium, suggesting either a "panspermia" spread of microbes via asteroids, or accidental contamination of the original environment by careless spacefarers.

Additional information:

Orbital Distance	0.64 AU
Orbital Period	0.6 Earth Years
Radius	4,734 km
Day Length	49.6 Earth Hours
Atm. Pressure	0.55 atm
Surface Temp	68 °C
Surface Gravity	0.57 *g*
Satellites	N/A

Odasst is the third planet orbiting the star Elysta. It is a terrestrial world with an abundance of heavy metals and radioactives. It is heavily exploited by mining concerns based on Illium. Forty-three years ago, a Council Spectre arrived to investigate reports that the businesses were selling platinum – a strategic metal – to pirate groups in the Terminus Systems. The results of the investigation were never released, but no deaths were reported.

Additional information:

Orbital Distance	0.96 AU
Orbital Period	1.1 Earth Years
Radius	6,882 km
Day Length	28.3 Earth Hours
Atm. Pressure	1.1 atm
Surface Temp	20 °C
Surface Gravity	1.2 *g*
Satellites	N/A

Colony	
Capital	Jorass
Population	11,640

Hesano is the fourth planet orbiting the star Elysta. It is a small hydrogen-helium gas giant. Two hundred years ago, an independent volus prospector found the mangled wreck of a Prothean starship trapped within the trailing Lagrange point. Few artifacts from the wreckage have been recovered.

The prospector, Lumen Kreop, was canny enough to keep the hulk's existence to himself. He sold its location to a turian paleotechnology firm for nearly a million credits. Since then, Hesano's Lagrange points, rings, and moons have been combed over by fortune hunters seeking to strike it rich the same way. Thus far, no additional artifacts have been recovered.

Additional information:

Orbital Distance	1.82 AU
Orbital Period	2.7 Earth Years
Radius	34,035 km

Day Length	13.1 Earth Hours
Satellites	>1

Melile is the fifth planet orbiting the star Elysta. It is a common ammonia-methane ice giant with 23 moons. It has no particularly distinctive features.

Additional information:

Orbital Distance	3.1 AU
Orbital Period	6.1 Earth Years
Radius	28,684 km
Day Length	8.6 Earth Hours
Satellites	23

Faia

Faia is a medium system with four planets.
Distance from Aquila: 6 light-years
Distance from Elysta: 8 light-years

Fuel Depot: Faia has fuel depots orbiting Hito.

Imaen is the first planet orbiting the star Faia. It is a small, cratered rock. Its crust contains various light metals, though none in any concentration worth the trouble of mining. While the rest of the Faia system has seen extensive industrialization, Imaen lies fallow.

Additional information:

Orbital Distance	0.6 AU
Orbital Period	0.8 Earth Years
Radius	2,370 km
Day Length	62.1 Earth Hours
Atm. Pressure	Trace
Surface Temp	108 °C
Surface Gravity	0.24 *g*
Satellites	N/A

Zorya is the second planet orbiting the star Faia. It is a terrestrial world. "Bring firearms and antihistamines" is what veteran guides say about this lush garden world. First colonized in 2160, Zorya's temperate and tropical zones are overrun with plants and fungi of all kinds. As a result, the air in most habitable areas is choked with pollen and spores that range from benign to deadly. The scattered colonies across the planet have resorted to clear-cutting and slash-and-burn farming to create habitable zones, and the more rural areas, where the spores are thickest are populated only by vorcha. Lax ecological laws allow mining and manufacturing industries to flourish and pollute cheaply, as the planet's carrying capacity far outstrips the current size of its colonies.

Zorya is also home to the Blue Suns mercenary company who dominate the colonies' security forces. The Suns enjoy nearly unlimited influence with local politicians and judges, ensuring no other private military contractors can compete with them economically. Nearly every colony has a Suns recruiting station, if not a training camp, though this has hardly made the planet any safer. Piracy, drugs and vice, and political violence are commonplace.

Additional information:

Orbital Distance	1.8 AU
Orbital Period	2.4 Earth Years
Radius	6,247 km
Day Length	28.4 Earth Hours
Atm. Pressure	1.22 atm
Surface Temp	33 °C
Surface Gravity	1.0 *g*
Satellites	2

Colony	
Capital	Thun
Colony Founded	2160
Population	148,000,000

Viantel is the third planet orbiting the star Faia. Though a dwarf planet, Viantel's large amounts of water have led to heavy development by water-cracking industries seeking to turn the planet into hydrogen-oxygen fuel for starship thrusters. The surface is blanketed with habitation modules, mining equipment, and cracking stations.

Since the initial settlement of Illium in the nearby Tasale system, the radius of Viantel has decreased by two kilometers, indicating removal of over 50,000,000 cubic kilometers of ice. Some groups are concerned that the rate of loss may cause instability in the remaining structure.

Additional information:

Orbital Distance	3.0 AU
Orbital Period	5.2 Earth Years
Radius	1,381 km
Day Length	28.4 Earth Hours
Atm. Pressure	Trace
Surface Temp	−150 °C
Surface Gravity	0.11 *g*
Satellites	N/A

Colony	
Capital	None; largest port is Kyleios Station 04
Population	10,400

Hito is the fourth planet orbiting the star Faia. As the only gas giant in the Faia system, Hito is heavily developed by rival helium-3 mining concerns. The world has three major and 26 minor moons, each of which is claimed by a different company. Those based on moons deeper into the gravity well tend to specialize on helium-3 extraction and refining, while those on the farther moons specialize in refueling services and shipment.

Additional information:

Orbital Distance	6.3 AU
Orbital Period	15.8 Earth Years
Radius	24,984 km
Day Length	14.3 Earth Hours
Satellites	29

Colony	
Capital	None; largest port is Shol Prime
Population	953,000

Kepler Verge

This cluster is named for the German astronomer and mathematician Johannes Kepler. The systems within are named after other great human astronomers.

Kepler Verge has two known star systems: the Herschel system and the Newton system.

This cluster's Mass Relay is located in the Newton system.

Herschel

Herschel is a medium system with four planets and an asteroid belt. It is named for Sir William Herschel, the astromer who discovered the planet Uranus. Herschel is an "energetic blue star".

Warning: due to the huge distance between planets, it is not advisable to travel to Herschel without a ship with a high fuel capacity.

Distance from Newton: 13.6 light-years

Tungel is the first planet orbiting the star Herschel. It is a massive terrestrial world, nearly twice the size of Earth, with a dense atmosphere of nitrogen and ethane. Its scorching hot surface is mainly composed of iron, with extensive deposits of heavy metals and radioactives. It is a mineralogical treasure trove, and many corporations are lobbying for mining rights.

Additional information:

Orbital Distance	66.53 AU
Orbital Period	85.8 Earth Years
Radius	11,539 km
Day Length	42.4 Earth Hours
Atm. Pressure	2.0 atm
Surface Temp	242 °C
Surface Gravity	1.9 *g*
Satellites	N/A

Matol is the second planet orbiting the star Herschel. It is a typical, lifeless terrestrial world. Several attempts to chart Matol have been made, but none have been successful. By normal standards a small rock planet, Matol has a dense atmosphere composed of carbon dioxide and argon, with a surprising amount of water vapor. Fogs and rain are common on the barren, lifeless surface.

Matol is pleasant enough to be considered a terraforming prospect, though its low mass and high radiation from the energetic blue star Herschel place it fairly far down on the list.

Additional information:

Orbital Distance	119.8 AU
Orbital Period	207.3 Earth Years
Radius	4,077 km
Day Length	34.6 Earth Hours
Atm. Pressure	0.49 atm
Surface Temp	33 °C
Surface Gravity	0.5 *g*
Satellites	N/A

Clugon is the third planet orbiting the star Herschel. It is a massive terrestrial world so uninviting that no probes were sent to the surface. Clugon's hydrogen-helium atmosphere is given a fairly dramatic emerald tint by chlorine and ionized gases. It has nearly 100 moons.

Additional information:

Orbital Distance	345.11 AU
Orbital Period	1,013.71 Earth Years
Radius	17,988 km
Day Length	19.2 Earth Hours
Satellites	> 100

Clobaka is the fourth planet orbiting the star Herschel. It is a moderately sized terrestrial world with a hazy hydrocarbon atmosphere. Its surface is mainly composed of chlorides with deposits of solid and liquid form hydrocarbons.

Orbital Distance	552.31 AU
Orbital Period	2,052.3 Earth Years
Radius	8,198 km
Day Length	59.7 Earth Hours
Atm. Pressure	0.81 atm
Surface Temp	7 °C
Surface Gravity	0.88 *g*
Satellites	N/A

1st asteroid belt: orbits Herschel at a distance of 43ti0 AU

Newton

Herschel is a medium system with four planets and no asteroid belts. It is named for the polymath astronomer Sir Isaac Newton.

Distance from Herschel: 13.6 light-years

Mass Relay: Orbits Newton at a distance of 2 AU

Ontarom is the first planet orbiting the star Newton. It is an Earth-sized terrestrial world, with life of its own.

Though Ontarom's surface is uncomfortably hot, its nitrogen-oxygen atmosphere and abundant, shallow seas make it an ideal candidate for habitation by most known species.

Unfortunately, the orbit of the moon of Thonal has been slowly decaying since the system coalesced. Its proximity is beginning to have tidal effects, and its dynamo-like revolution through Ontarom's magnetic field is generating increasingly powerful electric storms.

While some have suggested emplacement of mass effect drives in an attempt to lighten the moon and correct its orbit, the scale of such a project – tens of thousands of drives, costing enough to bankrupt the governments of all the Citadel races – make it a pipe dream. A multi-racial effort is underway to catalogue and preserve the unique genetic diversity of Ontarom's vibrant young biosphere. ExoGeni Corp. and Heyuan Genomics represent the Alliance's share of the effort.

When humans settled on Ontarom, the asari derided it as foolish, but today the humans look prescient. The communications hub they set up on the planet has hundreds of quantum communicators, whose information is spread through broadcast on the planet and beamed out via comm buoy.

Additional information:

Orbital Distance	1.1 AU
Orbital Period	1.2 Earth Years
Radius	6,443 km
Day Length	39.1 Earth Hours
Atm. Pressure	0.79 atm
Surface Temp	58 °C
Surface Gravity	0.82 *g*
Satellites	2

Colony	
Species	Human

Klencory is the second planet orbiting the star Newton. It is a rock and ice planet with an atmosphere composed of chlorine and argon. The frozen surface is mainly composed of potassium with deposits of iron.

Klencory is famously claimed by the eccentric volus billionaire Kumun Shol. He claims that a vision of a higher being told him to seek on Klencory the "lost crypts of beings of light." These entities were supposedly created at the dawn of time to protect organic life from synthetic "machine devils."

Shol has been excavating on Klencory's toxic surface for two decades, at great expense. No government has valued the world enough to evict his small army of mercenaries.

Additional information:

Orbital Distance	7.5 AU
Orbital Period	20.6 Earth Years
Radius	7,677 km
Day Length	18.3 Earth Hours
Atm. Pressure	1.01 atm
Surface Temp	-109 °C

Surface Gravity	0.82 *g*
Satellites	N/A

Juncro is the third planet orbiting the star Newton. It is a hydrogen-helium gas giant with traces of chlorine and sodium in its upper atmosphere. Like Uranus in the Sol system, it is "tipped on its side," its north pole facing the star Newton.

Additional information:

Orbital Distance	15.3 AU
Orbital Period	60.0 Earth Years
Radius	66,642 km
Day Length	16.8 Earth Hours
Satellites	N/A

Sesmose is the fourth planet orbiting the star Newton. It is an ice dwarf world, its surface composed almost entirely of frozen water. Normally a planetoid this small would not rate inclusion on the system's charts, but Sesmose's unusually large and beautiful ring of ice crystals has made it a popular subject for visual artists.

The ring is the result of a glancing equatorial impact, which left a large "trench" and threw a great deal of melted water into the atmosphere. The rings are a temporary feature that will completely decay in a few thousand years.

Additional information:

Orbital Distance	41.9 AU
Orbital Period	272.2 Earth Years
Radius	3,111 km
Day Length	23.9 Earth Hours
Atm. Pressure	0.00 atm
Surface Temp	-188 °C
Surface Gravity	0.09 *g*
Satellites	N/A

Maroon Sea

A cluster with names after famous seas/lakes.

Maroon Sea has three known star systems: the Caspian system, the Matano system and the Vostok system.

This cluster's Mass Relay is located in the Vostok system.

Caspian

Caspian is a medium system with four planets and an asteroid belt. It is named for the Caspian Sea. The star is a hot young blue star.

Warning: due to the huge distance between planets, it is not advisable to travel to Caspian without a ship with a high fuel capacity.

Distance from Matano: 15 light-years

Distance from Vostok: 7 light-years

Clotanca is the first planet orbiting the star Caspian. It is a large but low-density terrestrial world with an atmosphere of nitrogen and carbon monoxide. Its crust is mainly composed of sulphur and unremarkable silicates. Occasional deposits of heavy metals, usually the result of meteor strikes, dot the surface.

High speed winds, powered by the hot blue star Caspian, present a constant hazard. Atmospheric entry is hazardous, and EVAs are discouraged.

Additional information:

Orbital Distance	86.76 AU
Orbital Period	124.7 Earth Years
Radius	7,810 km
Day Length	19.7 Earth Hours
Atm. Pressure	0.73 atm
Surface Temp	92 °C
Surface Gravity	0.78 *g*
Satellites	N/A

Farnuri is the second planet orbiting the star Caspian. It is a large terrestrial world. Farnuri has a trace atmosphere of carbon dioxide and helium. The surface is mainly composed of silica laced with iron oxides, indicating the world had an oxygenated atmosphere at some time in the past. Given the relative youth of the blue star Caspian and the significant gravity well of Farnuri, this must have occurred with astonishing swiftness, perhaps a result of some cataclysmic event. Further research is required.

Additional information:

Orbital Distance	173.52 AU
Orbital Period	352.7 Earth Years
Radius	8,968 km
Day Length	67.8 Earth Hours
Atm. Pressure	0.00 atm
Surface Temp	-98 °C
Surface Gravity	1.2 *g*
Satellites	N/A

Almarcrux is the third planet orbiting the star Caspian. It is a small terrestrial world. It has an atmosphere of methane and ethane.

Despite the distance from Caspian, the energetic young star heats the surface to almost temperate levels. Thick ground fogs are common at the terminator, where water ice frozen during the long dark side night meets the warm air masses from the day side. The crust is mainly composed of copper with deposits of sodium.

Almarcrux's abundant water and relatively mild temperature and gravity have placed it on the short list of terraforming candidate worlds. However, there is significant opposition from eco-ethics groups, who assert that Almarcrux's primitive methanotrophic bacteria may be a precursor to a full-fledged native ecology.

Additional information:

Orbital Distance	243 AU
Orbital Period	584.1 Earth Years
Radius	4,715 km
Day Length	64.7 Earth Hours
Atm. Pressure	0.76 atm
Surface Temp	31 °C
Surface Gravity	0.78 *g*
Satellites	N/A

Antida is the fourth planet orbiting the star Caspian. It is standard ice giant. Its atmosphere is darkened by traces of sodium. It is one of relatively few planets known with an orbital period of more than a millennium.

Additional information:

Orbital Distance	413.21AU
Orbital Period	1,296.1 Earth Years
Radius	29,657 km
Day Length	12.8 Earth Hours
Satellites	N/A

1st asteroid belt: orbits Caspian at a distance of 18 AU

Matano

Matano is a medium system with five planets and two asteroid belts. It is named for Lake Matano. All of the planets in this system are named after various deities of Inca mythology.

Distance from Caspian: 15 light-years

Distance from Vostok: 16.6 light-years

Init is the first planet orbiting the star Matano. It is a large terrestrial planet with an atmosphere composed of ammonia and helium. Its surface is mainly composed of sodium oxide with deposits of magnesium. Its density is rather low, leaving the planet tide-locked to Matano.

Inti is an unremarkable world, drawing little more than a cursory scan for surface pirate anchorages when Alliance patrols enter the system.

Additional information:

Orbital Distance	0.7 AU
Orbital Period	0.6 Earth Years
Radius	9,032 km
Day Length	0.6 Earth Years
Atm. Pressure	0.56 atm
Surface Temp	157 °C
Surface Gravity	0.99 *g*
Satellites	N/A

Chasca is the second planet orbiting the star Matano. It is a large, but low density terrestrial world, fundamentally similar to its inner neighbor Inti. Like Inti, Chasca is tidally-locked to Matano. The same side always faces the sun, resulting in a scorching day side and a frozen night side. In the temperate areas around the terminator, temperatures average around 30 Celsius. Combined with a nitrogen-oxygen atmosphere, this slender band of habitable terrain allows limited colonization by humans.

Chasca's ring is unique. It appears to be, for lack of a better term, a massive piece of alien "installation art." The rings are made of small pieces of synthetic material, and are almost invisible from space. From the ground, they catch and scatter the light of Matano in picturesque ways. It is not known who created the ring or when.

Chasca is very early in development, with little more than a few pioneer teams scattered across the surface. Information is being collated about native hazards and ecology, while a massive colonist recruiting drive is gearing up back on Earth.

Additional information:

Orbital Distance	1.19 AU
Orbital Period	1.3 Earth Years
Radius	8,059 km
Day Length	1.3 Earth Years
Atm. Pressure	0.86 atm
Surface Temp	67 °C
Surface Gravity	0.88 *g*
Satellites	N/A

Colony	
Species	Human
Capital	(none)
Colony Founded	2183
Population	150

Apo is the third planet orbiting the star Matano. It is a craggy world of igneous and basaltic mountains. Apo is wracked by constant geologic activity. While volcanic hotspots are rare, continental plates are constantly piling up new mountains, subducting old ones, or causing slips along transform faults.

Apo has a dense atmosphere composed of nitrogen and carbon monoxide. Due to the constant earthquakes and landslide activity, surface exploration is not advised. The rubble-covered wrecks of a half-dozen expeditionary ships stand in mute testament to the planet's instability.

Additional information:

Orbital Distance	9.6 AU
Orbital Period	29.7 Earth Years
Radius	6,843 km
Day Length	56.7 Earth Hours
Atm. Pressure	1.2 atm
Surface Temp	-116 °C
Surface Gravity	1.1 *g*
Satellites	N/A

Illapa is the fourth planet orbiting the star Matano. It is a hydrogen-helium gas giant with an unusual ruby color caused by contaminants in the atmosphere. The world has over 120 moons, one of the highest totals of all known systems.

Once full development of Chasca colony begins, a helium-3 refining infrastructure will be developed in the Illapa system, concentrated on the large ice moon of Coniraya.

Additional information:

Orbital Distance	17.64 AU
Orbital Period	74.1 Earth Years
Radius	72,820 km
Day Length	15.7 Earth Hours
Satellites	> 120

Supay is the fifth planet orbiting the star Matano. It is a small terrestrial world. The planet has the composition of an ice dwarf planet, but is unusually large for such a body. It has a trace atmosphere of krypton and xenon. The frozen surface is dotted with deposits composed of potassium and light metals, brought to the surface by cryovolcanic processes.

Supay's icy surface was often used as a source of potable water by passing merchant vessels. Since the Alliance claimed the inner system world of Chasca, satellites placed in orbit automatically bill any vessel landing on the world for the mass of water removed from the surface.

ExoGeni has had a difficult time keeping these satellites operational; they often meet with "accidents" caused by impact with jettisoned ship debris.

Additional information:

Orbital Distance	42.3 AU
Orbital Period	275.5 Earth Years
Radius	4,317 km
Day Length	63.4 Earth Hours
Atm. Pressure	0.00 atm
Surface Temp	−216 °C
Surface Gravity	0.25 *g*
Satellites	N/A

1st asteroid belt: orbits Matano at a distance of 3 AU

2nd asteroid belt: orbits Matano at a distance of 22 AU

Vostok

Vostok is a medium system with four planets and an asteroid belt. It is probably named for Lake Vostok, an Antarctic lake named in honor of the Vosto Program, a Soviet space program which resulted in the first manned space flight.

Distance from Caspian: 7 light-years

Distance from Matano: 16.6 light-years

Mass Relay: Orbits Vostok at a distance of 29.5 AU

Clomarthu is the first planet orbiting the star Vostok. It is a terrestrial world with a reducing atmosphere of methane and nitrogen. The surface is hot, and is mainly composed of sodium with deposits of uranium. In terms of size and orbit, Clomarthu could be Earth's twin, but utterly lacks life.

Additional information:

Orbital Distance	1.14 AU
Orbital Period	1 Earth Year
Radius	6,028 km
Day Length	18.8 Earth Hours
Atm. Pressure	0.9 atm
Surface Temp	95 °C
Surface Gravity	0.9 *g*
Satellites	N/A

Nodacrux is the second planet orbiting the star Vostok. It is a verdant terrestrial world with abundant water, temperate climate, a thick oxygen-nitrogen atmosphere and a rich ecosystem. It would seem to be perfect for life. The relatively high percentage of oxygen makes humans feel energized and alive, though it has also allowed insect analogues to grow to frightful sizes.

Unfortunately, Nodacrux is a case of "almost but not quite." Thunderstorms are as common as on Earth, but in Nodacrux's thicker, oxygen-rich atmosphere, they are deafening and spark constant wildfires. More damning, however, are the large and ubiquitous tufts of pollen that float in the high-pressure air. In humans and other oxygen-breathing species, they cause severe or lethal allergic reactions.

Additional information:

Orbital Distance	2.7 AU
Orbital Period	3.6 Earth Years
Radius	5,988 km
Day Length	22.2 Earth Hours
Atm. Pressure	2.63 atm
Surface Temp	23 °C
Surface Gravity	0.9 *g*
Satellites	N/A

Alko is the third planet orbiting the star Vostok. The geological properties of Alko have been scanned from orbit, but little else is known about it. A fairly typical mix outer terrestrial of rock and ice, Alko has a trace atmosphere of xenon and krypton. Its crust is composed of silicates and water ice with deposits of aluminum. Unregistered starship traffic has been recorded around the planet. Travel is not advised.

Additional information:

Orbital Distance	10.73AU
Orbital Period	28.7 Earth Years
Radius	4,949 km
Day Length	45.2 Earth Hours
Atm. Pressure	0.00 atm
Surface Temp	-167 °C
Surface Gravity	0.5 *g*
Satellites	N/A

Pataiton is the fourth planet orbiting the star Vostok. It is a rather small ice giant. Its atmosphere contains large quantities of chlorine.

Additional information:

Orbital Distance	26.32 AU
Orbital Period	110.2 Earth Years
Radius	16,622 km
Day Length	18.6 Earth Hours
Satellites	N/A

1st asteroid belt: orbits Vostok at a distance of 6 AU

Ninmah Cluster

The Ninmah Cluster is named after the Sumerian earth goddess Ninhursag, also referred to as Ninmah. The star systems have names from the Sumerian language, as well as most of the celestial bodies within them.

Ninmah Cluster has two known star systems: the Maskim Xul system and the Mulla Xul system.

This cluster's Mass Relay is located in the Maskim Xul system.

Maskim Xul

Maskim Xul is a small system with three planets and an asteroid belt.

Maskim Xul may be a reference to the Simon Necronomicon, where it is alleged to mean "Evil Fiend" in Sumerian, which refers to it being the home system of the rachni.

Distance from Mulla Xul: 7.5 light-years

Mass Relay: Orbits Maskim Xul at a distance of 10 AU

Fuel Depot: Maskim Xul has a fuel depot orbiting Damkianna.

Suen is the first planet orbiting the star Maskim Xul. It is a small terrestrial world. Suen is the rachni homeworld and is tidally locked to the system's red dwarf. With one side constantly bombarded by the sun and the other completely frozen, life evolved in the terminator, the perpetual twilight zone between Suen's two extremes. The rachni mainly foraged underground: Suen's abundant subterranean rivers presented them with a place to thrive. Wrestling with the engineering problems of Suen's extreme surface environment may have given the rachni their first insights into how to build interstellar spacecraft.

Suen was the site of the last battle in the Rachni Wars. When krogan forces bombarded the planet, the rachni abandoned their surface buildings for the security of their tunnels. The krogan, resistant to Suen's toxic atmosphere, carried weapons of mass destruction into the secret chambers of the rachni queens, and detonated explosions so powerful the sinkholes are still visible today.

Additional information:

Orbital Distance	0.3 AU
Orbital Period	0.3 Earth Years
Radius	3,029 km
Day Length	0.2 Earth Years
Atm. Pressure	0.88 atm
Surface Temp	40 °C
Surface Gravity	0.71 *g*
Satellites	N/A

Homeworld	
Species	Rachni

Kashshaptu is the second planet orbiting the star Maskim Xul. It is a very small terrestrial world. It was the first planet the rachni visited after achieving spaceflight. Although most of

Kashshaptu is composed of silicate minerals, the rachni made an important discovery when they charted "the howling gulf," an enormous crater near the planet's equator. The depression was caused by the impact of several dozen extrasolar asteroids containing large quantities of Element Zero. The rachni took samples of the new element back to Suen for further study.

Centuries later, when the rachni captured the Citadel expedition that opened the relay to their system, their research on eezo helped them reverse-engineer the ships' FTL drives. The rachni built faster-than-light vessels of their own and rapidly expanded beyond their own stars.

Additional information:

Orbital Distance	2.2 AU
Orbital Period	6 Earth Years
Radius	1,258 km
Day Length	52.5 Earth Hours
Atm. Pressure	0.8 atm
Surface Temp	462 °C
Surface Gravity	0.24 *g*
Satellites	N/A

Damkianna is the third planet orbiting the star Maskim Xul. It is an ice giant. Damkianna, as the main source of helium-3 in the Maskim Xul system, is orbited by abandoned recovery stations that the rachni built during their days of conquest. Because the rachni trusted in their high tolerance for radiation, the stations were poorly shielded against cosmic rays and have deteriorated over time. The Citadel species built their own stations during the Rachni War, several of which have been maintained to this day.

Additional information:

Orbital Distance	5.6 AU
Orbital Period	24.2 Earth Years
Radius	27,231 km
Day Length	8.7 Earth Hours
Satellites	N/A

Listening Post X-19

Listening Post X-19 was built shortly after the Rachni Wars, just in case any rachni survived the annihilation of Suen. The post orbits the mass relay and is still manned and maintained, although today it largely exists as a customs checkpoint for researchers studying the rachni homeworld. Among members of the Council militaries, being assigned to the station is seen as a form of punishment or exile, considering that there have been no signs of sapient life on Suen for over a thousand years.

Population: 340

Station Length: 332m

1st asteroid belt: orbits Maskim Xul at a distance of 7 AU

Mulla Xul

Mulla Xul is a small system with three planets and an asteroid belt.

Distance from Maskim Xul: 7.5 light-years

Maldor is the first planet orbiting the star Mulla Xul. It is a terrestrial world. The krogan surveying team that first reported back from Maldor said, in characteristic understatement, that the planet had "a bit of the good stuff, if you can get past a little acid." Although Maldor's mineral wealth includes uranium, iridium, and other heavy metals, miners must contend with crushing gravity and atmosphere, boiling temperatures, and clouds of sulfur dioxide. As such, once the planet's most accessible ores were depleted, the mining interests that exploited the planet quickly departed.

Additional information:

Orbital Distance	0.9 AU
Orbital Period	1.0 Earth Year
Radius	8,356 km
Day Length	36.0 Earth Hours
Atm. Pressure	52.73 atm
Surface Temp	361 °C
Surface Gravity	1.88 *g*
Satellites	N/A

Utukku is the second planet orbiting the star Mulla Xul. It is a terrestrial world. Although Utukku is habitable, extreme temperatures and violent weather have discouraged colonization. Because the planet has little liquid water to retain heat, surface temperatures regularly oscillate between 70 C to -60 C. Utukku's vegetation is notable for having evolved flexible central stalks to survive high-speed winds as well as leathery leaves to shrug off the planet's frequent sandstorms. Animal life is mostly confined to the planet's small oceans. Utukku has few valuable minerals.

Additional information:

Orbital Distance	1.7 AU
Orbital Period	2.5 Earth Years
Radius	6,865 km
Day Length	64.2 Earth Hours
Atm. Pressure	2.2 atm
Surface Temp	10 °C
Surface Gravity	0.82 *g*
Satellites	N/A

Utukku is the second planet orbiting the star Mulla Xul. It is a hydrogen-helium gas giant. Records show that the planet should have a helium-3 mining infrastructure, but scans find nothing of the sort. There are neither abnormal heat sources nor space junk from destroyed refineries. If the infrastructure was removed, it was removed entirely, and within the last few years.

Additional information:

Orbital Distance	5.8 AU
Orbital Period	15.7 Earth Years
Radius	70,912 km
Day Length	17.6 Earth Hours
Satellites	N/A

1st asteroid belt: orbits Maskim Xul at a distance of 3 AU

Nubian Expanse

The Nubian Expanse is a cluster located on the eastern edge of the Milky Way. The cluster, as well as the systems in it, have names of Egyptian origin.

Nubian Expanse has three known star systems: the Dakka system, the Kalabsha system and the Qertassi system.

This cluster's Mass Relay is located in the Dakka system.

Dakka

Dakka is a medium system with five planets.

It is named after a temple in ancient Egypt dedicated to the god Thoth.

Distance from Kalabsha: 6 light-years

Distance from Qertassi: 16.6 light-years

Mass Relay: Orbits Dakka at a distance of 12 AU

Fuel Depot: Dakka has a fuel depot orbiting Alkonost.

Bannik is the first planet orbiting the star Dakka. It is a large, superterrestrial "hothouse" with a crushing carbon dioxide atmosphere. A high density of over 7 grams per cubic centimeter indicates that Bannik is a mineralogical treasure trove. If only there were some way to safely reach its seas of molten metal and lodes of radioactives. The planet's mass is so great that trace amounts of helium and molecular hydrogen can be found in the atmosphere.

Additional information:

Orbital Distance	0.73 AU
Orbital Period	0.6 Earth Years
Radius	7,963 km
Day Length	54.8 Earth Hours
Atm. Pressure	65.4 atm
Surface Temp	599 °C
Surface Gravity	1.6 *g*
Satellites	N/A

Pragia is the second planet orbiting the star Dakka. It is a terrestrial garden world. Choked by the hyper growth of non-native plant species, Pragia serves as a galactic reminder about the imperative for careful regulation during colonization.

In 1985, batarian agribusiness chose uninhabited Pragia as their empire's breadbasket. Colonization authorities introduced non-native, industrially-mutated plants that flourished in the world's fertile volcanic soil. Synergizing with Pragia's natural geothermal conditions and chemotropic microbes the imported species soon became a nightmare. Mutant strains of poisonous and even carnivorous plants arose, overgrowing colonies in days instead of years and causing the batarians to abandon their holdings. Because the planet's small animal population is insufficient to check its plant growth, Alliance ecologists predict soil exhaustion in 400 years.

Due to its relative isolation and lack of population, Pragia has become a regional haven for drug-runners, weapons-smugglers, pirates, mercenaries, terrorists, and intelligence agents seeking secrecy.

Additional information:

Orbital Distance	1.3 AU
Orbital Period	1.5 Earth Years
Radius	5,137 km
Day Length	29.6 Earth Hours
Atm. Pressure	0.84 atm
Surface Temp	54 °C
Surface Gravity	0.87 *g*
Satellites	N/A

Alkonost is the third planet orbiting the star Dakka. It is a standard ice giant with a methane-ammonia atmosphere. It has an unusually strong magnetic field, which is occasionally useful when ships need to discharge their drives.

Additional information:

Orbital Distance	2.47 AU
Orbital Period	3.9 Earth Years
Radius	17,946 km
Day Length	18.8 Earth Hours
Satellites	N/A

Gamayun is the furth planet orbiting the star Dakka. It is a hydrogen-helium gas giant with six large, icy moons. The outermost one, Gigula, is of note for a well-preserved wreckage of an ancient starship that was recognized by a turian military surveyor. Little information has been released to the public on the vessel, aside from a scholarly paper regarding how the internal layout suggests a horizontally-oriented race.

Additional information:

Orbital Distance	5.19 AU
Orbital Period	11.8 Earth Years
Radius	50,875 km
Day Length	65.6 Earth Hours
Satellites	6

Zirnitra is the fifth planet orbiting the star Dakka. It is an ice dwarf. Cold, distant Zirnitra has an extremely low density and is thought to be mainly ice around a small rocky core. It has little to recommend it.

Additional information:

Orbital Distance	7.78 AU
Orbital Period	21.8 Earth Years
Radius	2,683 km
Day Length	44.9 Earth Hours
Atm. Pressure	Trace
Surface Temp	−158 °C
Surface Gravity	0.16 *g*
Satellites	N/A

Kalabsha

Dakka is a small system with 2 planets.
It is named after an ancient Egyptian city.
Distance from Dakka: 6 light-years
Distance from Qertassi: 16.6 light-years

Fuel Depot:

Kalabsha has a fuel depot orbiting Tefnut.

Yamm is the first planet orbiting the star Kalabsha. It is a terrestrial world with over 90 percent of its surface covered in oceans. Yamm is a habitable nitrogen-oxygen world, but its extremes can be quite hostile to sapient life. The heat from its extremely long days reaches dangerous levels ranging from 24 Celsius at night to 53 in the afternoon in the temperate zones. Hurricanes run unchecked across the oceans, with winds reaching up to 250 kilometers per hour. While there are some arthropod-like animals, the predominant forms of life are various kinds of toxic algae blooms that stretch hundreds of kilometers across. However, other biohydrocarbon algae blooms are suitable for use as a biofuel, and farming the "green gold" forms the backbone of Yamm's economy

Additional information:

Orbital Distance	2.0 AU
Orbital Period	2.8 Earth Years
Radius	6,501 km
Day Length	69.6 Earth Hours
Atm. Pressure	1.8 atm
Surface Temp	34 °C (temperate zone)
Surface Gravity	1.1 *g*
Satellites	N/A

Colony	
Capital	New Karnak
Colony Founded	2170
Population	488,504

Tefnut is the second planet orbiting the star Kalabsha. It is a hydrogen-helium gas giant. Tefnut is home to a helium-3 collection and the refueling facility nearest to the Nubian Expanse's mass relay. As such it is a major gateway to the Verge and Terminus Systems and has become famous for its hospitality industry. Tefnut's motto is known throughout the

galaxy: "Like home, only better." Visitors here can stay at expansive resort stations, watch locally produced entertainment, buy mind-affecting substances not welcome in Citadel space, and rent companionship. Resources are shipped in from Yamm at substantial discounts, allowing the small space stations to have surprising luxuries, such as edible arthropods and large amounts of fresh water.

Additional information:

Orbital Distance	4.1 AU
Orbital Period	8.3 Earth Years
Radius	57,010 km
Day Length	8.8 Earth Hours
Satellites	N/A

Colony	
Population	33,810

Qertassi

Dakka is a small system with one planet.

Qertassi is an elderly metal-poor Population II star broadly similar to Arcturus.

Distance from Dakka: 6 light-years
Distance from Kalabsha: 16.6 light-years

Norehsa is the first planet orbiting the star Qertassi. It is an unremarkable methane-ammonia ice giant with a small family of ice moons. It is likely that the Qertassi system had additional worlds earlier in its history, but these have been swallowed by the aging giant star.

Additional information:

Orbital Distance	6.17 AU
Orbital Period	2.4 Earth Years
Radius	42,214 km
Day Length	19.2 Earth Hours
Satellites	> 1

Pangaea Expanse

A cluster named after Earth's ancient 'super-continent' of Pangaea that existed 230 million years ago.

Pangaea Expanse has only one star system: the Refuge system.

Refuge

Refuge is a small system with three planets. It is a binary star-system.

Mass Relay: Orbits the binary star Refuge at a distance of 25 AU

Agetoton is the first planet orbiting the binary star Refuge. It is a terrestrial world. It has a pressure-cooker atmosphere composed of carbon dioxide and ethane. Its scorching hot surface is mainly composed of sulfur with deposits of gold. Surface gravity is comfortable at 1.0 standard *g*'s.

There are several areas of debris that may be the wreckage of downed Prothean aerostat colonies. Based on the size of the debris fields, a population of over 100,000 was likely.

Additional information:

Orbital Distance	0.54 AU
Orbital Period	0.4 Earth Years
Radius	6,172 km
Day Length	53.5 Earth Hours
Atm. Pressure	84.30 atm
Surface Temp	510 °C
Surface Gravity	1.0 *g*
Satellites	N/A

Ilos is the second planet orbiting the binary star Refuge. It is a terrestrial world. In the golden age of the Protheans, Ilos was a verdant world, dotted with the spires and arches of magnificent cities. Even casual observation shows this is no longer the case. Ilos has been devastated by means unknown, its entire surface changed to the color of rust. The atmosphere shows heightened levels of oxygen. Wildfires, presumably ignited by lightning strikes, can be seen burning on the dark side. This indicates that most – if not all – respiring animal life forms have died off.

Additional information:

Orbital Distance	0.8 AU
Orbital Period	261 Earth Days
Radius	8,607 km
Day Length	54.5 Earth Hours
Atm. Pressure	11.26 atm
Surface Temp	38 °C
Surface Gravity	1.17 *g*
Satellites	N/A

Zafe is the third planet orbiting the binary star Refuge. It is an ice giant. There are several tenuous belts of debris in the equatorial orbit. Spectral analysis of the material suggests artificial origin, perhaps the remains of stations that once mined Zafe for helium-3.

Additional information:

Orbital Distance	10.5 AU
Orbital Period	33.8 Earth Years
Radius	30,488 km
Day Length	12.2 Earth Hours
Satellites	N/A

Pylos Nebula

A nebula that borders the Terminus Systems. It is named after a Peloponnesian settlement in Greece.

Pylos Nebula has five known star systems: the Dirada system, the Kriseroi system, the Nariph system, the Satent system and the Zaherin system.

This cluster's Mass Relay is located in the Nariph system.

Dirada

Dirada is a large system with six planets and an asteroid belt.

Warning: due to the huge distance between planets, it is not advisable to travel to Dirada without a ship with a high fuel capacity.

Distance from Kriseroi: 30 light-years
Distance from Nariph: 6 light-years
Distance from Satent: 15 light-years
Distance from Zaherin: 10 light-years

Siano is the first planet orbiting the star Dirada. It is a small terrestrial world. Siano, named for an ancient asari philosopher known for being a contrarian, orbits Dirada at a retrograde. It is believed to be an object that fell into the system millions of years of ago from parts unknown. The outermost layers of Dirada's inner asteroid belt is thought to have been a small planetoid that was broken up by Siano's passage into the system. Siano is formed of low-density rock and is tidally locked to Dirada; the same hemisphere always faces the star. There is evidence that a complex of artificial structures once existed in

the north of the sunward-facing hemisphere, but they have been badly degraded by millennia of heat and radiation. Several bunkers of radioactive waste, apparently byproducts of primitive fission plants, have been discovered on the far side.

Additional information:

Orbital Distance	12.9 AU
Orbital Period	26 Earth Years
Radius	4,925 km
Day Length	26 Earth Hours
Atm. Pressure	Trace
Surface Temp	79 °C
Surface Gravity	0.47 *g*
Satellites	N/A

Thenusi is the second planet orbiting the star Dirada. It is a small barren rock. Though there is evidence that it once had an atmosphere of carbon dioxide, only trace amounts of krypton and xenon remain. Like Siano, it is tidally locked to Dirada.

Additional information:

Orbital Distance	25.7 AU
Orbital Period	73.1 Earth Years
Radius	3,602 km
Day Length	73.1 Earth Years
Atm. Pressure	Trace
Surface Temp	−10 °C
Surface Gravity	0.33 *g*
Satellites	N/A

Canalus is the third planet orbiting the star Dirada. It is a small terrestrial world. It is smaller than Earth but has unusually high density. The high level of tectonic activity indicates that the density is caused by an abundance of radioactive materials in the core. These, combined with the planet's unusually high rate of spin, raise the planet's internal temperature and cause volcanism. While several companies performed mineral assays in the late 2170s, the world's geological instability precluded development.

Additional information:

Orbital Distance	46.3 AU
Orbital Period	176.8 Earth Years
Radius	4,618 km
Day Length	9.8 Earth Hours
Atm. Pressure	0.83 atm
Surface Temp	99 °C
Surface Gravity	0.85 *g*
Satellites	N/A

Zeth is the fourth planet orbiting the star Dirada. It is a common hydrogen-helium gas giant. An abundance of sulfur in the upper atmosphere gives it a distinct yellow color.

Additional information:

Orbital Distance	69.5 AU
Orbital Period	325.2 Earth Years
Radius	60,327 km
Day Length	14.8 Earth Hours
Satellites	N/A

Sineus is the fifth planet orbiting the star Dirada. It is a standard hydrogen-helium gas giant. It has more than 80 moons.

Additional information:

Orbital Distance	138.9 AU
Orbital Period	919.2 Earth Years
Radius	63,748 km
Day Length	16.4 Earth Hours
Satellites	> 80

Vioresa is the sixth planet orbiting the star Dirada. It is methane-ammonia ice giant. With an orbital period nearly two millennia long, the cold and distant Vioresa was actually missed in the initial asari survey of the system. Only a follow-up mineral assay sent to Canalus by a volus mining concern noticed its subtle movement across the stars.

Vioresa is circled by a retinue of deep-frozen moons. Its remoteness makes it a popular drive discharge point for pirates working the Pylos Nebula cluster. In the last two years, several dozen ships have disappeared while passing through the Dirada system. As Pylos is currently unclaimed by any sovereign power, Council naval patrols are few and far between. Thus far none of the pirates responsible have been apprehended.

Additional information:

Orbital Distance	222.2 AU
Orbital Period	1,860.4 Earth Years
Radius	26,566 km
Day Length	12.7 Earth Hours
Satellites	many

1st asteroid belt: orbits Dirada at a distance of 6 AU

Kriseroi

Kriseroi is a medium system with five planets.
It is a red dwarf star.
Distance from Dirada: 30 light-years
Distance from Nariph: 25 light-years
Distance from Satent: 15 light-years
Distance from Zaherin: 16 light-years

Neidus is the first planet orbiting the star Kriseroi. It is a terrestrial world. Neidus lies improbably close to the red dwarf Kriseroi. This allows it to approach habitability though it is quite frigid. It is tidally locked, with a "hot pole" and a "cold pole". Along the terminator the temperature averages just above freezing. On the lee side the temperatures are well below freezing. Neidus has developed a limited native ecology. Much of it clusters permanently attached around geothermal vents. There are, however, more advanced forms of life. Several arthropodal herbivore species wander back and forth across the terminator because they require nutrients available in both environments for sustenance. More dangerous are the omnivorous predator species that devour the arthropods. Most animal life on Neidus has limited vision but a finely developed thermal sense.

Additional information:

Orbital Distance	0.1 AU
Orbital Period	0.1 Earth Years
Radius	4,875 km
Day Length	0.1 Earth Hours
Atm. Pressure	0.84 atm
Surface Temp	2 °C
Surface Gravity	0.87 *g*
Satellites	N/A

Theonax is the second planet orbiting the star Kriseroi. It is a large terrestrial world. Its surface is covered by water and ammonia-hydrate ices, which are constantly repaved by cryovolcanic processes. The world's size and density suggest the core contains heavier elements and retains much of the heat of the system's formation.

Additional information:

Orbital Distance	0.18 AU
Orbital Period	0.1 Earth Years
Radius	10,442 km

Day Length	69.9 Earth Hours
Atm. Pressure	1.3 atm
Surface Temp	−70 °C
Surface Gravity	1.3 *g*
Satellites	N/A

Uzin is the third planet orbiting the star Kriseroi. It is a typical methane-ammonia ice giant with 37 moons of various sizes. Chithess, one of the largest, orbits at a retrograde, suggesting it was a planetesimal that was captured by the gas giant gravity well. The planet itself is believed to be an extrasolar capture as well, though millions of years before Chithess came on the scene. Evidence collected by planetary geologists suggest that Chithess was for many centuries a water-world heated by tidal flexing as its orbit circularized by Uzin. The planetary ocean, once hundreds of kilometers deep, must now be frozen solid. Some have recommended drilling test bores to see if life ever developed in Uzin's seas, but the question is considered academic.

Additional information:

Orbital Distance	0.31 AU
Orbital Period	0.3 Earth Years
Radius	31,982 km
Day Length	15.2 Earth Hours
Satellites	37

Geus is the fourth planet orbiting the star Kriseroi. It is a methane-ammonia gas giant very similar to its near-twin, Uzin. It presents a nearly featureless robin's-egg-blue face to the universe.

Additional information:

Orbital Distance	0.64 AU
Orbital Period	0.9 Earth Years
Radius	33,036 km
Day Length	9.9 Earth Hours
Satellites	N/A

Tenoth is the fifth planet orbiting the star Kriseroi. It is little more than a glorified "ice dwarf" that has drifted inwards from Kriseroi's Oort Cloud over the millennia. Its extremely elliptical orbit is ultimately unstable. Computer projections suggest it will impact the atmosphere of Geus in a few billion years.

Additional information:

Orbital Distance	1.86 AU
Orbital Period	2.6 Earth Years
Radius	1,411 km
Day Length	17.9 Earth Hours
Atm. Pressure	Trace
Surface Temp	−220 °C
Surface Gravity	.09 *g*
Satellites	N/A

Nariph

Nariph is a small system with two planets. It is a gateway system.

Distance from Dirada: 6 light-years
Distance from Kriseroi: 25 light-years
Distance from Satent: 12 light-years
Distance from Zaherin: 7 light-years

Mass Relay: Orbits Nariph at a distance of 3 AU

Fuel Depot: Nariph has a fuel depot orbiting Jonus.

Isake is the first planet orbiting the star Nariph. It is a standard hydrogen-helium gas giant. Though gas giants are known for their powerful magnetic fields, Isale's field is stronger than current models predict. Within the "frost line" of its solar system, where gas giants do not usually form, Isale is believed to have once been extrasolar.

Additional information:

Orbital Distance	0.5 AU
Orbital Period	0.6 Earth Years
Radius	64,005 km
Day Length	17.7 Earth Hours
Satellites	N/A

Jonus is the second planet orbiting the star Nariph. It is a methane-ammonia ice giant, is being developed as a fuel depot serving the Pylos Cluster. Eldfell-Ashland Energy has established a base on one of its moons to crack ice into hydrogen and oxygen and skim helium-3 from its atmosphere. Jonus is also believed to be an extrasolar planet captured by its star. From orbit, any ship can pick out a hand-painted sign some waggish employee has left outside the complex: "Last chance fuel for 100 light years."

Additional information:

Orbital Distance	0.65 AU
Orbital Period	1 Earth Year
Radius	20,312 km
Day Length	15.1 Earth Hours
Satellites	N/A

Satent

Satent is a medium system with five planets.

Distance from Dirada: 15 light-years
Distance from Kriseroi: 15 light-years
Distance from Nariph: 12 light-years
Distance from Zaherin: 14 light-years

Rescel is the first planet orbiting the star Satent. It is a massive "hot Jupiter" gas giant that whips around the star Satent once every four and a half days. Like most planets of its type it migrated inwards from its initial position in the system (thought to be around 0.3 AU). Rescel is one of the few close-orbiting gas giants to show a marked temperature difference in its sun-facing and dark-side hemispheres. The atmosphere absorbs and re-radiates Satent's heat too quickly for winds to carry the heat to the dark side. There is a temperature difference of over 1,000 degrees between the gas giant's "hot" and "cold" poles.

Additional information:

Orbital Distance	0.02 AU
Orbital Period	4.56 Earth Days
Radius	69,155 km
Day Length	4.56 Earth Days
Satellites	N/A

Raisaris is the second planet orbiting the star Satent. It is an airless terrestrial world of mixed light ores. Raisaris is only of note for the Teryinu impact crater. It was a relatively recent asteroid strike (within the last million years), and the core of the object was partly composed of element zero. It struck at a low enough velocity that the eezo remained near the surface. Over the years many pirates and "wildcat" miners have attempted to extract the ore. It is believed that the Teryinu debris originated in the pulsar system AAP34211+19. The supernova that formed the pulsar also created the red emission nebula that human spacers have unofficially named the Sakura Nebula.

Additional information:

Orbital Distance	0.6 AU
Orbital Period	0.5 Earth Years
Radius	3,790 km
Day Length	66.3 Earth Hours
Atm. Pressure	Trace
Surface Temp	56 °C
Surface Gravity	0.24 *g*
Satellites	N/A

Anedia is the third planet orbiting the star Satent. It is a small ice body with very low density: its mass is only 4 percent that of Earth. It appears to be composed mainly of carbon and water ice, but over the millennia it has accrued a trace atmosphere of krypton and xenon. While Anedia's gravity is weak enough that a cruiser could land on it safely, there is no particular reason one would want to. Pirates have been known to land to recover ice for cracking into hydrogen and oxygen. One area in the southern hemisphere, the so-called "Anedian Scrapes", is so frequently used for this purpose that higher-albedo raw ice can be easily seen into orbit.

Additional information:

Orbital Distance	1.14 AU
Orbital Period	1.4 Earth Years
Radius	2,949 km
Day Length	38.6 Earth Hours
Atm. Pressure	Trace
Surface Temp	−41 °C
Surface Gravity	0.19 *g*
Satellites	N/A

Boro is the fourth planet orbiting the star Satent. It is a large terrestrial world. Boro is a young volus colony settled in defiance of a threat by Terminus pirate groups. The pirates, who can't use the world themselves, have "suggested" that the volus "hire" them to protect the colony. The volus responded by requesting military protection from their turian allies. Although uncomfortably hot by volus standards, Boro has the rare combination of high pressure and ammonia, an ecology the volus require. Development of the colony is proceeding rapidly.

Additional information:

Orbital Distance	2.1 AU
Orbital Period	3.4 Earth Years
Radius	10,573 km
Day Length	31.0 Earth Hours
Atm. Pressure	1.6 atm
Surface Temp	−57 °C
Surface Gravity	1.66 *g*
Satellites	N/A

Colony	
Species	Volus
Capital	Yila
Colony Founded	2180
Population	1,617

Nataisa is the fifth planet orbiting the star Satent. It is an unremarkable methane-ammonia gas giant. Nataisa would be of no consequence if it weren't the only approachable gas giant in the Satent system. Boro's volus colony has set up a few automated ice cracking stations around the planet, and Narhu Combine has been contracted to set up a helium-3 extraction facility. Construction has lagged due to the CEO's arrest in a kickback scandal that reaches to the highest levels of the Vol Ministry of the Frontier.

Additional information:

Orbital Distance	4.1 AU
Orbital Period	8.3 Earth Years
Radius	23,623 km
Day Length	8.9 Earth Hours
Satellites	N/A

Zaherin

Zaherin is a medium system with four planets.
Distance from Dirada: 10 light-years
Distance from Kriseroi: 16 light-years
Distance from Nariph: 7 light-years
Distance from Satent: 14 light-years

Ehstag is the first planet orbiting the star Zaherin. It is a terrestrial world. It was discovered by a joint asari-vorcha exploration team and abandoned shortly thereafter. The planet's light atmosphere of nitrogen and krypton is not overtly hostile to vorcha, but its heat makes it uninhabitable except in expensive habitats. Its low density precludes the presence of many valuable minerals, and so settling the planet was deemed not worth the effort.

Additional information:

Orbital Distance	0.5 AU
Orbital Period	0.4 Earth Years
Radius	6,773 km
Day Length	63.6 Earth Hours
Atm. Pressure	0.56 atm
Surface Temp	115 °C
Surface Gravity	0.62 *g*
Satellites	N/A

Namakli is the second planet orbiting the star Zaherin. It is an arid but habitable planet. Namakli was briefly colonized by the Pyrena Corporation, a consortium of asari colonists and socialized vorcha laborers. After an economic downturn, however, many asari left the planet, and the vorcha population kept growing to the point where they bred faster than could be educated. Soon they turned violent and uncontrollable, and the colonies essentially self-destructed.

Today, Namakli is a wasteland with little population, but vorcha packs are scattered across the deserts. Settlers frequently run into these packs, discouraging recolonization. The lack of complex biota and scarcity of profitable metals drove the last few proverbial nails into Namakli's coffin: no one has stepped forth in the past few years with the will, the funding, or the firepower to establish a permanent colony.

Additional information:

Orbital Distance	0.8 AU
Orbital Period	0.8 Earth Years
Radius	10,133 km
Day Length	23.8 Earth Hours
Atm. Pressure	0.87 atm
Surface Temp	41 °C
Surface Gravity	1.26 *g*
Satellites	N/A

Azharas is the third planet orbiting the star Zaherin. It is a hothouse terrestrial world rich in nitrogen, methane, and ethane. Similar to Namakli, it is metal-poor. Additionally, it is suspected that few asteroid impacts have struck it over the millenia, precluding accessible deposits of common precious metals in the crust. Decrepit asari orbital stations from scientific expeditions long ago circle the planet. None display signs of occupation.

Additional information:

Orbital Distance	1.45 AU
Orbital Period	1.95 Earth Years
Radius	4,715 km
Day Length	36.1 Earth Hours
Atm. Pressure	57.28 atm
Surface Temp	274 °C
Surface Gravity	0.57 *g*
Satellites	N/A

Rotesk is the fourth planet orbiting the star Zaherin. It is a methane-soaked gas giant. Rotesk featured helium-3 collection machinery serving the colonists of Namakli, but it appears their kinetic barriers failed long ago due to neglect. The apparatus was destroyed by meteorites

Additional information:

Orbital Distance	6.1 AU
Orbital Period	16.9 Earth Years
Radius	19,174 km
Day Length	10.8 Earth Hours
Satellites	N/A

Sentry Omega

Omega is the final letter of the Greek alphabet and is often used metonymically to mean 'last' or 'final'. Sentry is a guardian or a gate, so the cluster's name can be taken to mean "last guard" or "final guard".

Sentry Omega has only one known star system: the Hoc system.

Hoc

Hoc is a small medium with five planets.

Mass Relay: Orbits the star Hoc at a distance of 32 AU

Jarfor is the first planet orbiting the star Hoc. It is a close-orbiting "hot Jupiter" hydrogen-helium gas giant with clouds of airborne silicate and deeper layers of sodium. In composition, it is extraordinarily similar to 51 Pegasi's planet Bellerophon (one of the first extrasolar planets discovered by humanity in the late 20th century).

Despite its great size, Jarfor is actually rather low-mass; the incredible heat of the star Hoc has caused its atmosphere to expand. In fact, Jarfor is so low-mass, it is tidally locked to Hoc. The temperature difference between the sunward "hot pole" and the dark side "cold pole" creates constant hurricane-force winds.

Additional information:

Orbital Distance	1.72 AU
Orbital Period	1.3 Earth Years
Radius	63,169 km
Day Length	1.3 Earth Years
Satellites	N/A

Nemata is the second planet orbiting the star Hoc. It is a terrestrial planet with a thick, hazy atmosphere of ammonia, methane, and a cocktail of other hydrocarbon gasses. The surface is scorching hot, and mainly composed of nickel with deposits of iron.

With a density 1.4 times that of Earth, it is obvious that Nemata is rich with heavier elements. Mining could be extremely profitable, though the lethal heat and high gravity make initial development costly. Given the political instability of the nearby Terminus Systems, investment is unlikely.

Additional information:

Orbital Distance	3.32 AU
Orbital Period	3.5 Earth Years
Radius	7,318 km
Day Length	70.4 Earth Hours
Atm. Pressure	1.6 atm
Surface Temp	168 °C
Surface Gravity	1.4 *g*
Satellites	N/A

Virmire is the third planet orbiting the star Hoc. It is a lush frontier terrestrial world, ideal for colonization by carbon-based species. Its vast seas and orbital position on the inner life zone have created a wide equatorial band of humid, tropical terrain. Unfortunately, the political instability of the nearby Terminus Systems has impeded colonization efforts – the high risk of raids by pirates and slavers makes it an unappealing homestead.

Additional information:

Orbital Distance	6.33 AU
Orbital Period	9.2 Earth Years
Radius	6,440 km
Day Length	22.3 Earth Hours
Atm. Pressure	0.9 atm
Surface Temp	32 °C
Surface Gravity	0.86 *g*
Satellites	N/A

Cloroplon is the fourth planet orbiting the star Hoc. It is an ice giant with a haze of methane in the upper atmosphere.

Additional information:

Orbital Distance	19 AU
Orbital Period	47.8 Earth Years
Radius	32,191 km
Day Length	13.4 Earth Hours
Satellites	N/A

Prescyla is the fifth planet orbiting the star Hoc. It is a terrestrial world so small, it cannot even retain a trace atmosphere. The surface is frozen and composed mostly of magnesium silicates with carbonaceous deposits.

In its recent past, a pirate gang from the Terminus Systems carved a message into the surface using ship-based laser weapons. In hundred-meter-wide batarian syllabic, the message proclaims the military prowess and virility of one "Captain Zaysh". A smaller postscript alludes to the questionable parentage of all humans.

Additional information:

Orbital Distance	32.85 AU
Orbital Period	108.7 Earth Years
Radius	2,075 km
Day Length	24.9 Earth Hours
Atm. Pressure	0.00 atm
Surface Temp	-158 °C
Surface Gravity	0.1 *g*
Satellites	N/A

Shadow Sea

Home to a single system, Iera.

Iera

Iera is a medium system with four planets.

It is a gateway system; however, unlike most other gateway systems, this system has no fuel depot. Iera (ιερά) is Greek for holy, or sacred.

Mass Relay: Orbits the star Iera at a distance of 5AU

Venture is the first planet orbiting the star Iera. It is a pressure-cooker of a planet with a thick nitrogen-based atmosphere that is also the source of wealth for a small colonist industry. While Venture's high temperatures are brutal, the primordial soup is not as acidic as on other hothouse planets, and xenon can be readily collected and isolated from the lower troposphere by recovery bots. This xenon is then sold for use in ion drives and electric lights. Venture's gravity is relatively low for a planet of its size, making the recovery more economical than would otherwise be expected.

Additional information:

Orbital Distance	0.7 AU
Orbital Period	0.6 Earth Years
Radius	10,659 km
Day Length	26.1 Earth Hours
Satellites	N/A

Prospect is the second planet orbiting the star Iera. It is a hydrogen-nitrogen gas giant with 13 known moons, most of which seemed to have dense heavy metal deposits on first scan, starting a resource rush by the colonists from nearby Horizon. In a tragic turn of events, a galactic uranium surplus drove half the mining firms out of business, and the surfaces of some moons are littered with the bodies of executives who committed suicide by airlock. Today's mining corporations have reached a much more palatable equilibrium and hold more diversified and sustainable portfolios. Prospect is within the "frost line" of its solar system, where ice giants do not normally form. For this reason it is believed to have been an extrasolar capture.

Additional information:

Orbital Distance	1.2 AU
Orbital Period	1.3 Earth Years
Radius	45,277 km
Day Length	18.1 Earth Hours
Satellites	13

Horizon is the third planet orbiting the star Iera. It is a temperate terrestrial world that hit the "sweet spot" for carbon-based life. Horizon has a nitrogen-oxygen atmosphere maintained by abundant indigenous photosynthetic plants and bacteria. While the native plants are very palatable to humans, the soil conditions are such that a handful of introduced Earth species have flourished, and the colonists must take strict care to prevent ecological disasters. Genetically engineered "terminator seeds" that grow nutritious but sterile crops to minimize outbreaks are the rule rather than the exception. Animals on Horizon appear to be exploding in diversity similar to during Earth's Cambrian period. Large flying insect analogs take advantage of the thicker-than-Earth atmosphere and low gravity to grow enormous. Microbial life has proven relatively benign; a series of vaccinations for the most virulent strains of soil-borne diseases is all that is required for a visit.

Additional information:

Orbital Distance	2.1 AU
Orbital Period	3.0 Earth Years
Radius	5,402 km
Day Length	37.8 Earth Hours
Atm. Pressure	1.68 atm
Surface Temp	13 °C
Surface Gravity	0.7 *g*
Satellites	N/A

Colony	
Species	Human
Capital	Discovery
Colony Founded	2168 CE
Population	654,930 (2185) Unknown, est. 800,000 - 1.5 million (2186)

Watchman is the fourth planet orbiting the star Iera. Perched on the outer edge of Iera's small solar system, Watchman is a mid-sized rock and ice planet that has picked up a dozen moon-sized objects. Its nitrogen-oxygen atmosphere is too thin to support life, with solid ice covering its calcium-heavy rocky core. Footprints of the first surveying teams to come to the planet can still be seen on its practically airless surface. The planet, devoid of valuable resources, has seen few visitors since.

Additional information:

Orbital Distance	4.1 AU
Orbital Period	8.3 Earth Years
Radius	5,728 km
Day Length	28.6 Earth Hours
Atm. Pressure	N/A
Surface Temp	−116 °C
Surface Gravity	0.8 *g*
Satellites	12

Styx Theta

The Styx Theta cluster probably derives its name from the river Styx, which divided the Earth from Hades (the underworld). The systems in this cluster are named for other geographic aspects of the ancient Greek underworld.

The cluster lies uncomfortably close to the "Five Kiloparsec Ring" around the galactic core. Much of this area is too dangerous to safely travel.

Styx Theta has two known star systems: the Erebus system, and the Acheron system.

This cluster's Mass Relay is located in the Acheron system.

Acheron

Acheron is a medium system with four planets and an asteroid belt. Acheron, although strictly a branch of the river Styx, was also frequently used as a synonym for Hades itself.

Distance from Erebus: 20 light-years

Mass Relay: Orbits the star Acheron at a distance of 24 AU

Farthorl is the first planet orbiting the star Acheron. It is a modest terrestrial planet, with an atmosphere of carbon dioxide and chlorine. The crust is mainly composed of sulfur with deposits of nickel. The terrain is extremely rough – a patchwork of craggy, overlapping craters dating back to the formation of the solar system. Farthorl is tidally locked to the star Acheron. The day side has never been fully mapped.

Additional information:

Orbital Distance	0.32 AU
Orbital Period	0.2 Earth Years
Radius	6,506 km
Day Length	0.2 Earth Years
Atm. Pressure	0.69 atm
Surface Temp	239 °C
Surface Gravity	0.8 *g*
Satellites	N/A

Altahe is the second planet orbiting the star Acheron. It is a small terrestrial world. Altahe is an exceptional form of planet called a Roche World. Put simply, it is one half of a pair of small and unusually dense terrestrial worlds (Altahe and Ontahe) that orbit each other so closely, they effectively share a single atmosphere. That does not mean one could fly from one to the other, but both have identical atmospheres and dust from one often can be found on the other.

Both worlds share an atmosphere of nitrogen and ethane. The surface is warm, and mainly composed of silica dust and dark basaltic rocks, with extensive deposits of heavy metals and radioactives. Tidal effects from Ontahe create constant heavy wind.

Additional information:

Orbital Distance	0.8 AU
Orbital Period	0.8 Earth Years
Radius	4,404 km
Day Length	53.8 Earth Hours
Atm. Pressure	0.98 atm
Surface Temp	36 °C
Surface Gravity	1.1 *g*
Satellites	1 (Ontahe)

Grosalgen is the third planet orbiting the star Acheron. It is an enigmatic rock and ice planet with a thin atmosphere of carbon dioxide and ethane. The surface is composed of frozen water and chlorine.

Additional information:

Orbital Distance	11.13 AU
Orbital Period	41.5 Earth Years
Radius	5,198 km
Day Length	28.9 Earth Hours
Atm. Pressure	0.53 atm
Surface Temp	-175 °C
Surface Gravity	0.6 *g*
Satellites	N/A

Imaneya is the fourth planet orbiting the star Acheron. It is an exceptionally large for a terrestrial world, composed of water ice with a core of various carbonaceous compounds. It has a density only half that of Earth, and an atmosphere of nitrogen and carbon monoxide. The surface is composed of surprisingly pure water ice, with a high albedo.

Additional information:

Orbital Distance	22.2 AU
Orbital Period	117.7 Earth Years
Radius	11,621 km
Day Length	56.4 Earth Hours
Atm. Pressure	0.88 atm
Surface Temp	-185 °C
Surface Gravity	0.9 *g*
Satellites	N/A

1st asteroid belt: orbits Acheron at a distance of 3 AU

Erebus

Erebus is a medium system with four planets and an asteroid belt. The name of Erebus, a god representing the personification of darkness and shadow, came to be applied to a portion of the underworld itself.

Erebus was surveyed by the Systems Alliance ship Ibn Battuta, which specifically surveyed Chofen and Quaji. The ship is named after Ibn Battuta, a famous 14th century Moroccan traveller and explorer who has a crater on the Moon named after him.

Distance from Acheron: 20 light-years

Nepmos is the first planet orbiting the star Erebus. It is a resource-rich terrestrial world somewhat larger than Earth, with a dense atmosphere of sulphur dioxide and argon. Nepmos' crust is very thin and unstable, not more than 8 kilometers deep in any location. Subsurface magma flows are a hazard to ground travel, and earthquakes are frequent. While heavy metals and radioactives are plentiful, this geological instability has deterred investment by mining concerns.

An additional complication is that the Styx Cluster lies uncomfortably close to the "Five Kiloparsec Ring" around the galactic core. The Ring contains a great deal of molecular hydrogen, fueling the majority of the galaxy's star formation. This area is too dangerous to safely travel.

Additional information:

Orbital Distance	0.73 AU
Orbital Period	0.7 Earth Years
Radius	7,593 km
Day Length	68.1 Earth Hours
Atm. Pressure	1.12 atm
Surface Temp	68 °C
Surface Gravity	1.2 *g*
Satellites	N/A

Quaji is the second planet orbiting the star Erebus. It is a terrestrial planet with an atmosphere of methane and ethane. The surface is composed of silica with deposits of uranium and heavy metals. Clouds of small water ice crystals are common. Quaji's skies are full of fine silica dust. From the surface, the sky has a pronounced salmon hue.

The cursory initial scans from the Alliance surveyor ship Ibn Battuta showed geometric patterns in the northern hemisphere deserts, visible only in the ultraviolet band.

Additional information:

Orbital Distance	1.9 AU
Orbital Period	2.9 Earth Years
Radius	5,160 km
Day Length	38.7 Earth Hours
Atm. Pressure	0.83 atm
Surface Temp	-7 °C
Surface Gravity	0.8 *g*
Satellites	N/A

Wermani is the third planet orbiting the star Erebus. It has only been visited once by a single, unmanned probe. It is a standard hydrogen-helium gas giant with large formations of water vapor clouds in the atmosphere.

Additional information:

Orbital Distance	4.28 AU
Orbital Period	9.9 Earth Years
Radius	71,541 km
Day Length	9.2 Earth Hours
Satellites	N/A

Chofen is the fourth planet orbiting the star Erebus. It is an unusual ice giant, with traces of sulphur and hydrocarbons in the atmosphere. The Alliance surveyor ship Ibn Battuta provided inconclusive evidence of hydrocarbon life in the atmosphere (over 1000 meters below the cloud tops), where pressure compresses Chofen's hydrogen into a liquid state.

Proof of life in the atmosphere would prove many long-standing theories. Unfortunately, only a probe with extremely expensive mass effect generators could survive the crushing pressure long enough to send back useful data – and the probe

would be lost in the attempt. Simple expense makes investigation doubtful.

Additional information:

Orbital Distance	13.73 AU
Orbital Period	56.9 Earth Years
Radius	21,481 km
Day Length	13.7 Earth Hours
Satellites	N/A

1st asteroid belt: orbits Erebus at a distance of 1.6 AU

Terminus Systems

The Terminus Systems are located on the far side of the Attican Traverse, beyond the space administered by the Citadel Council or claimed by the human Systems Alliance. These systems are populated by a loose affiliation of minor species, united only in their refusal to acknowledge the political authority of the Council or adhere to the Citadel Conventions.

Their independence comes at a price; the Terminus is fraught with conflict. War among the various species is common, as governments and dictators constantly rise and fall. The region is a haven for illegal activities, particularly piracy and the slave trade. The prevalence of batarian criminal gangs has led to the batarian language becoming a "lingua franca" in the Terminus. The Terminus Systems have no government, but the Omega station serves as a trade capital.

At least once a year, a fleet from the Terminus invades the nearby Attican Traverse. These attacks are typically small raids against poorly-defended colonies. The Council rarely retaliates, as sending patrols into the Terminus Systems could unify the disparate species against their common foe, triggering a long and costly war.

Despite the dangers, Citadel races have not been deterred from traveling through and even extensively colonizing the Terminus Systems themselves. Humans, turians, salarians, elcor, asari, and volus each have a sizable colonial presence there. Since the Citadel Council's authority is nonexistent, these colonies are often fully independent from any interplanetary government. The Terminus Systems also encompass the homeworlds of the quarians and the vorcha.

Before the Alliance expanded into the Voyager Cluster, the turians mapped the Terminus Systems in great detail using an interferometric array, with one end in the Attican Beta cluster and the other at the planet Gromar.

Crescent Nebula

The Crescent Nebula is a medium sized cluster at the edge of asari space. It contains four systems and includes the asari settled world Illium.

The Crescent Nebula stands as a doorway for the Terminus Systems. Though it is controlled by a powerful Asari world, Illium, the entire region is independent from Citadel Law and conventions.

Crescent Nebula has three known star systems: the Lusarn system, the Ondeste system, the Tasale system and the Zelene system.

The cluster's Mass Relay is located in the Tasale system.

Lusarn

Lusarn is a medium system with five planets and an asteroid belt.

Distance from Ondeste: 8 light-years
Distance from Tasale: 9.1 light-years
Distance from Zelene: 13 light-years

Jontan is the first planet orbiting the star Lusarn. It is a fairly standard close-orbiting Pegasid gas giant orbiting the star Lusarn at high velocity and heated to temperatures of over 1,000 degrees. Analysis of its orbit has revealed a core of heavy elements with a mass double that of the planet's hydrogen-helium atmosphere.

Additional information:

Orbital Distance	0.2 AU
Orbital Period	25 Earth Days
Radius	67,428 km
Day Length	25 Earth Days
Satellites	N/A

Euntanta is the second planet orbiting the star Lusarn. It is a terrestrial world remarkably close to Earth. Its orbital distance is similar, and while slightly larger its reduced density yields similar mass, atmospheric pressure, and gravity. There the similarities end, for Lusarn is a hot class F star emitting over eight times the energy of Sol. Euntanta is a parched wasteland, its water long since boiled into its nitrogen-carbon dioxide atmosphere.

A handful of mining outposts dot the hellishly hot surface. The crews remain in underground bunkers, sending remotely controlled machines out at night to do surface work and load cargo for shipment

Additional information:

Orbital Distance	1.04 AU
Orbital Period	0.3 Earth Years
Radius	7,740 km
Day Length	24.2 Earth Hours
Atm. Pressure	0.98 atm
Surface Temp	415 °C
Surface Gravity	1.0 *g*
Satellites	N/A

Colony	
Population	230

Doriae is the third planet orbiting the star Lusarn. It is a large hot terrestrial world with a poisonous atmosphere of acidic nitrogen oxides. While the planet is too close to Lusarn for this to condense and fall as rain it makes the environment too hostile for forms of life more sophisticated than bacteria to evolve.

Additional information:

Orbital Distance	2.48 AU
Orbital Period	3.0 Earth Years
Radius	8,700 km
Day Length	63 Earth Hours
Atm. Pressure	1.17 atm
Surface Temp	204 °C
Surface Gravity	1.2 *g*
Satellites	N/A

Tarith is the fourth planet orbiting the star Lusarn. It is a broadly Earth-like terrestrial world with a fatal flaw: it has a relatively high amount of chlorine in its atmosphere, which is the reason for the greenish haze that becomes apparent when looking at the horizon. Chlorine has become a vital component in Tarinth's plant life; as a defense mechanism against native herbivores, many species evolved the ability to release clouds of toxic chlorine when disturbed. This gas is heavier than the atmospheric oxygen and tends to settle in low places. While avoidable, this has placed Tarith near the bottom of the lists for colonization.

Additional information:

Orbital Distance	7.8 AU
Orbital Period	16.7 Earth Years
Radius	5,677 km
Day Length	27.7 Earth Hours
Atm. Pressure	0.84 atm
Surface Temp	21 °C
Surface Gravity	0.87 *g*
Satellites	N/A

Xetic is the fifth planet orbiting the star Lusarn. A common methane-ammonia gas giant, Xetic is best known for the infamous Kal'thor Camp. Established on the ice moon of Gesis, Kal'thor was a Blue Suns hostile environment training facility run by a cadre of former batarian Special Intervention Unit operators. In 2168 a cluster-wide scandal broke out when it was revealed that the mortality rate of recruits sent to the camp might be as high as 18 percent.

Investigation by asari authorities based on Illium uncovered group graves around the facility containing the remains of several hundred recruits dating back two decades. The camp was immediately closed and the remains sent back to their worlds of origin. An inquest by the Blue Suns found the batarian commandos had used harsh training methods but ones that were consistent with their own training to join the SIU. The batarians were exonerated, though Kal'thor was shut down and they were reassigned to other units. As the Crescent Nebula is beyond the sphere of Council law, no civil charges could be filed against the Blue Suns.

Additional information:

Orbital Distance	15.6 AU
Orbital Period	47.4 Earth Years
Radius	30,054 km
Day Length	13.7 Earth Hours
Satellites	1

Ondeste

Ondeste is a small system with three planets.
Distance from Lusarn: 8 light-years
Distance from Tasale: 17.1 light-years
Distance from Zelene: 21 light-years

Zesmeni is the first planet orbiting the star Ondeste. It is a cold, dim terrestrial world shrouded by a methane-ammonia atmosphere. It has nevertheless attracted development by asari mining concerns that service military industries. There are significant lodes of valuable light metals present, including titanium and lithium. Titanium is the primary material used in mass accelerator slugs, and lithium is used in the military-grade "droplet" heat radiators used aboard warships.

Additional information:

Orbital Distance	0.8 AU
Orbital Period	1.3 Earth Years
Radius	5,806 km
Day Length	37.6 Earth Hours
Atm. Pressure	0.64 atm
Surface Temp	−119 °C
Surface Gravity	0.66 *g*
Satellites	N/A

Colony	
Species	Asari
Population	620

Acaeria is the second planet orbiting the star Ondeste. It is a terrestrial world roughly the size of Earth but with only 28% of its mass. It has a trace atmosphere of neon and molecular nitrogen, but the predominant carbon dioxide has long since frozen and fallen to the surface as frost. While Acaeria has a core of heavy metals, the bulk of the planet's volume consists of water ice. Several unique forms of long-chain carbon molecules have been recovered on the surface, pushed up from beneath the ice by cryovolcanic processes. Acaeria has a large rocky moon, compositionally similar to Luna.

Additional information:

Orbital Distance	1.68 AU
Orbital Period	4.0 Earth Years
Radius	6,272 km
Day Length	36.2 Earth Hours
Atm. Pressure	Trace
Surface Temp	−178 °C
Surface Gravity	0.38 *g*
Satellites	N/A

Maisuth is the third planet orbiting the star Ondeste. Farthest from the dim red dwarf Ondeste, the ice dwarf Maisuth has attracted no interest beyond a cursory flyby by automated probe in 1874. No significant resources were noted.

Additional information:

Orbital Distance	2.35 AU
Orbital Period	6.6 Earth Years
Radius	3,893 km
Day Length	54.7 Earth Hours
Atm. Pressure	Trace
Surface Temp	−194 °C
Surface Gravity	0.25 *g*
Satellites	N/A

Tasale

Tasale is a large system with six planets and an asteroid belt.
Distance from Lusarn: 9.1 light-years
Distance from Ondeste: 17.1 light-years
Distance from Zelene: 11 light-years

Mass Relay: Orbits Tasale at a distance of 12 AU

Fuel Depot: Tasale has a fuel depot orbiting at a distance of 3.6 AU.

Beregale is the first planet orbiting the star Tasale. It is large terrestrial world. While not a classical "hothouse" world like Venus, Beregala is scarcely more hospitable. In addition to being the closest to the star Tasale, its core contains many radioactives and other heavy elements. These increase the heat of the planet and drive volcanism.

Beregale's crust is too rigid for plate tectonics to function, and the planet will go through cycles in which the pressure builds to a massive super volcanic eruption. These spew ejecta over thousands of kilometers, leave caldera a hundred kilometers across, and spew enough molten material to repave entire continents. The last such event was 812,000 years ago; the current rate of outgassing from volcanic hot spots suggests another will occur within the next 10 millennia.

Additional information:

Orbital Distance	0.6 AU
Orbital Period	0.5 Earth Years
Radius	10,640 km
Day Length	45.7 Earth Hours

Atm. Pressure	2.0 atm
Surface Temp	232 °C
Surface Gravity	2.1 *g*
Satellites	N/A

Illium is the second planet orbiting the star Tasale. It is a classic garden world, developed to serve as entrepot between the Terminus Systems and the Asari Republics. To abet this trade, the normally stringent customs laws of Council space on product safety, proscribed materials, and sapient trafficking are relaxed. Officially Illium is not an asari world; it is colonized and operated by asari corporate interests. This gives it the same legal latitude enjoyed by the human corporate research enclaves of Noveria.

Illium is one of the youngest asari colonies settled during the 7th Expansion Wave. The first child born on the world is only now reaching her middle-age. The world is hot and massive; ground settlement is only possible at the higher polar latitudes. In more equatorial locations, the population is housed in arcology skyscrapers to escape the heat of the surface.

Additional information:

Orbital Distance	1.3 AU
Orbital Period	1.5 Earth Years
Radius	7,431 km
Day Length	25 Earth Hours
Atm. Pressure	1.15 atm
Surface Temp	63 °C
Surface Gravity	1.2 *g*
Satellites	N/A

Colony	
Species	Asari
Capital	Nos Astra
Colony Founded	1617
Population	84,900,000 (2185) 84,950,000 (2186)
Population (L4 and L5 stations)	80,500

Ponolus is the third planet orbiting the star Tasale. It is a terrestrial world. A fairly typical Venusian "hothouse", Ponolus seems almost tame compared to the violent volcanic outbursts of the inner world Beregale. In contrast, Ponolus is nearly inert, with no active volcanoes or plate tectonics. The most dramatic event in the last million years was the foundering of the asari aerostat research platform Alviusic in 2092, which fell after being holed by an improbably unlucky meteor. Most of the crew successfully reached escape capsules, but six were lost. The crushed wreck of the platform now lies on the Kriusite Plain in the southern hemisphere.

Additional information:

Orbital Distance	2.08 AU
Orbital Period	3.0 Earth Years
Radius	5,489 km
Day Length	36.2 Earth Hours
Atm. Pressure	96.6 atm
Surface Temp	539 °C
Surface Gravity	0.78 *g*
Satellites	N/A

Teukria is the fourth planet orbiting the star Tasale. Named for a legendary asari archer from Thessia's Iron Age, Teukria is an asteroid large enough to qualify as a dwarf planet or, as some term it, a "mesoplanet". Its gravity is sufficient to give it a spherical shape. Developed for nickel and iron mining, Teukria was abandoned before the Reapers reached the system. Its facilities are now dark and cold.

Additional information:

Orbital Distance	3.05 AU
Orbital Period	5.33 Earth Years
Radius	1,120 km
Day Length	17.3 Earth Hours
Atm. Pressure	Trace
Surface Temp	-91 °C
Surface Gravity	0.157 *g*
Satellites	N/A

Thail is the fifth planet orbiting the star Tasale. It is a typical hydrogen-helium gas giant. Its complex system of rings is unstable, dating back only a few million years. They are thought to be the shattered remains of a comet.

Additional information:

Orbital Distance	4.46 AU
Orbital Period	9.4 Earth Years
Radius	55,263 km
Day Length	15.5 Earth Hours
Satellites	N/A

Naxell is the sixth planet orbiting the star Tasale. It is an ammonia-methane ice giant. Several smaller energy corporations shut out of the big market in the Faia gateway system are attempting to develop a local helium-3 fuel mining infrastructure to service Illium. The leading investor is the human corporation Eldfell-Ashland Energy. Their efforts have been hampered by the extralegal presence the "H-3 Cartels" in Faia system can bring to bear, from simple price undercuts to bureaucratic obstructions (denied permits and constant "health and safety" inspections).

Additional information:

Orbital Distance	9.37 AU
Orbital Period	28.8 Earth Years
Radius	22,981 km
Day Length	10.1 Earth Hours
Satellites	N/A

Colony	
Species	Human
Capital	EAE Krafla
Population	6,700

1st asteroid belt: orbits Erebus at a distance of 3.05 AU

Zelene

Zelene is a medium system with four planets.
Distance from Lusarn: 13 light-years
Distance from Ondeste: 21 light-years
Distance from Tasale: 11 light-years

Nepyma is the first planet orbiting the star Zelene. It is a small terrestrial world. Tidally locked to the star Zelene, Nepyma has the expected "hot pole" and "cold pole." Along the terminator is a thin band of nearly-habitable terrain. Unfortunately, the local biosphere is based on a chlorinated oxygen atmosphere. It is not sophisticated, but it has proven highly dangerous.

The asari surveyor Verallas landed on Nepyma in 1684 to study the local ecology. Unbeknownst to the crew, a handful of native chlorine-fixing microbes passed through biohazard screening and entered the ship. The Verallas returned to the port of Nos Parnalo on Illium, where the Nepyman microbes escaped into a temperate environment with plentiful unused chorine.

The microbes devoured the chlorides in the earth; as metabolic byproducts, they produced toxic polychlorinated biphenyls (PCBs). By the time the infestation was contained an area of nearly 30 square kilometers had been effectively turned into a toxic waste dump. Nos Parnalo had to be abandoned, accelerating the development of Nos Astra.

Additional information:

Orbital Distance	0.8 AU
Orbital Period	0.8 Earth Years
Radius	4,456 km
Day Length	40.4 Earth Hours
Atm. Pressure	0.55 atm
Surface Temp	32 °C
Surface Gravity	0.57 *g*
Satellites	N/A

Helyme is the second planet orbiting the star Zelene. It is a "post-garden" world that once enjoyed an Earth-like oxygen-nitrogen atmosphere. It is still blessed with plentiful water, but a generally cold climate (and extreme seasonal shifts, courtesy of a 38-degree axial tilt).

Helyme is thought to be the homeworld of the arthenn, a spacefaring species that disappeared approximately 300,000 years ago. Precisely what happened to Helyme is still under debate. It appears a global extinction occurred, wiping out all native animal life forms more complex than zooplankton. Plant forms were not affected, but the lack of oxygen-breathing life caused oxygenation of the atmosphere. Plant life was reduced after lighting storms ignited global wildfires.

The leading theory for Helyme's devastation is an out-of-control biological weapon. For this reason, landing is strictly prohibited. The corporations of Illium have emplaced a network of quarantine satellites to dissuade would-be looters from landing in the crumbling cities.

Additional information:

Orbital Distance	1.2 AU
Orbital Period	1.5 Earth Years
Radius	5,522 km
Day Length	44.4 Earth Hours
Atm. Pressure	0.84 atm
Surface Temp	−15 °C
Surface Gravity	0.87 *g*
Satellites	N/A

Epho is the third planet orbiting the star Zelene. It is a rocky world with an atmosphere of oxygen and carbon dioxide. There are large craters scattered across its surface, obviously from hypervelocity kinetic impactors. Stretching between these locations are the shattered remains of magnetic levitation rail lines, which strongly suggests the craters represent the former locations of arthenni mining outposts or other settlements. The equatorial region contains an extensive network of canyons, formed by the planet's abundant liquid water.

Travel Advisory: Epho's atmosphere is approximately 41% carbon dioxide at sea level. This is 4 to 6 times that necessary to render most species unconscious within a few minutes of breathing it. Breathing masks must be worn at all times when on the surface of Epho.

Additional information:

Orbital Distance	1.56 AU
Orbital Period	2.22 Earth Years
Radius	8,031 km
Day Length	70 Earth Hours
Atm. Pressure	0.98 atm
Surface Temp	−41 °C (12 equator)
Surface Gravity	1.0 *g*
Satellites	N/A

Gaelon is the fourth planet orbiting the star Zelene. It is a standard gas giant. It is surrounded by an extensive ring system. The inner rings are composed of pulverized nano-manufactured carbon materials, thought to be the remains of an arthenni helium-3 mining infrastructure. The few pieces of larger debris found indicate a materials technology at least equal to the current galactic state-of-the-art.

The outer rings consist of water-ice, silicate dust, and the odd bit of rock. Analysis of the debris often show shock damage and evidence of rapid heating. Some para-historical theorists insist that the outer rings represent debris from a moon or moons destroyed by mass accelerator bombardment. This has been rejected by every reputable xenoarcheologist; while it is theoretically possible to destroy a small moon utterly with dreadnought bombardment, no species sees a compelling reason to do so.

Additional information:

Orbital Distance	2.96 AU
Orbital Period	5.7 Earth Years
Radius	63,539 km
Day Length	8.9 Earth Hours
Satellites	N/A

Hourglass Nebula

Hourglass Nebula has four known star systems: the Faryar system, the Osun system, the Ploitari system and the Sowilo system.

The cluster's Mass Relay is located in the Osun system.

Faryar

Faryar is a large system with seven planets and an asteroid belt.

Distance from Osun: 1.15 light-years
Distance from Ploitari: 1 light-years
Distance from Sowilo: 0.3 light-years

Quarem is the first planet orbiting the star Faryar. It is a scorchingly hot terrestrial planet close to its parent star. Quarem was bombarded by comets and asteroids during its earliest geological periods. As the solar system stabilized, these occurrences leveled off until the planet became geologically inactive. Its nitrogen and helium atmosphere is extremely thick due to heavy metals making the planet's core very dense. Unfortunately, these metals are deep below the crust making mining impractical.

Additional information:

Orbital Distance	0.2 AU
Orbital Period	0.1 Earth Years
Radius	3,137 km
Day Length	53.1 Earth Hours
Atm. Pressure	2.22 atm
Surface Temp	558 °C
Surface Gravity	3.5 *g*
Satellites	N/A

Daratar is the second planet orbiting the star Faryar. It is a small terrestrial world. Though ancient riverbeds crisscross its plains, photodissociation has long since dried up the world. There are indications of ancient mining operations, but any structures have long since been buried or worn away by the planet's seasonal dust storms.

Additional information:

Orbital Distance	0.9 AU
Orbital Period	0.9 Earth Years
Radius	3,937 km
Day Length	62.8 Earth Hours
Atm. Pressure	0.49 atm
Surface Temp	−66 °C
Surface Gravity	0.5 *g*
Satellites	N/A

Tunfigel is the third planet orbiting the star Faryar. It is a large terrestrial world. First charted by the salarians, Tunfigel (which means "hard heart") is noted for its platinum and uranium deposits, making robo-mining a lucrative activity. While the surface temperature is well within the range of a comfortable EVA excursion, the extremely dense Tunfigel generates a dangerous gravitational pull five times that of Earth. The salarian miners exploiting the planet derisively nickname planets such as these "elcor tourist traps".

Additional information:

Orbital Distance	1.8 AU
Orbital Period	2.4 Earth Years
Radius	10,772 km
Day Length	35.5 Earth Hours
Atm. Pressure	0.03 atm
Surface Temp	−31 °C
Surface Gravity	5.1 *g*
Satellites	N/A

Nephros is the fourth planet orbiting the star Faryar. Nephros (which means "restless sleep") is a relatively small hydrogen-nitrogen gas giant. Its atmosphere is home to spectacular winds of up to 350 kilometers/hour and electrical systems up to 700 times the power of those on Earth, which indicate that its hydrogen clouds contain moderate amounts of water vapor.

Additional information:

Orbital Distance	7.5 AU
Orbital Period	20.6 Earth Years
Radius	44,750 km
Day Length	11.9 Earth Hours
Satellites	N/A

Alingon is the fifth planet orbiting the star Faryar. It is a small terrestrial world. Alingon (which means "deceptive") was so named by salarian scouts because as their probes landed on the planet their instruments started going awry. This turned out to be due to the high concentration of magnetically active periclase (magnesia) in the core and crust of the planet. This interferes with scans and broadcasts, which has given rise to countless spacer stories of pirates lying in wait in Alingon's magnetosphere or crashed ships with untold fortunes stranded on the surface. In reality, any pirates would have a hard time locating prey amid all the interference and would live lives cut off from the rest of the galaxy because the magnetosphere kills extraplanetary communication.

Alingon's other natural features are a thin atmosphere of carbon dioxide, spectacular dry ice formations, and xenon gas, which can be skimmed from the upper atmosphere and used in ion thrusters.

Additional information:

Orbital Distance	10.1 AU
Orbital Period	31.7 Earth Years
Radius	3,085 km
Day Length	56.3 Earth Hours
Atm. Pressure	0.04 atm
Surface Temp	−166 °C
Surface Gravity	0.5 *g*
Satellites	N/A

Wenrum is the sixth planet orbiting the star Faryar. It is a small terrestrial world. Wenrum ("white knight") takes its name from a salarian story in the Romantic period of a knight who refused all temptation to riches, carnality, and even flavorful food until justice was served to the poor and oppressed. The planet is named because of its white, highly reflective surface, composed mainly of titanium dioxide and ice and no atmosphere to speak of to dim its albedo.

Additional information:

Orbital Distance	11.8 AU
Orbital Period	40.6 Earth Years
Radius	1,574 km
Day Length	59.3 Earth Hours
Atm. Pressure	0.00 atm
Surface Temp	−178 °C
Surface Gravity	0.1 *g*
Satellites	N/A

Anticra is the seventh planet orbiting the star Faryar. It is a terrestrial world. Antictra (which means "fused metal") is so named because of its spectacular craters. A planet high in various grades of iron oxide, Antictra is regularly pummeled by loose asteroids in the nearby belt between it and Wenrum. The iron melted and fused by the incoming meteors makes for spectacular landscape shots that look alien no matter what part of the galaxy you may be from. However, due to frequent meteor impacts exploration is considered highly dangerous even to those with advanced kinetic barriers.

Additional information:

Orbital Distance	12.3 AU
Orbital Period	43.3 Earth Years
Radius	5,658 km
Day Length	21.1 Earth Hours
Atm. Pressure	0.00 atm
Surface Temp	−180 °C
Surface Gravity	0.8 *g*
Satellites	N/A

1st asteroid belt: orbits Erebus at a distance of 12 AU

Osun

Osun is a medium system with four planets.

Osun is a gateway system. The system and its planets all have names taken from Yoruba mythology. The Yoruba people are a Nigerian tribe.

Distance from Faryar: 1.15 light-years
Distance from Ploitari: 1 light-years
Distance from Sowilo: 1.3 light-years

Mass Relay: Orbits Tasale at a distance of 8 AU

Fuel Depot: Osun has a fuel depot orbiting at a distance of 5 AU.

Orunmila is the first planet orbiting the star Osun. It is a medium-sized gas giant. Orunmila is close enough to its parent star to suffer massive changes in temperature during its day and night periods. This leads to powerful convection currents and storms throughout its hydrogen/helium atmosphere. Gathering

helium-3 to refuel is possible for the hardiest of exploration craft, but lesser ships are nearly always lost in the attempt.

Orunmila is within the "frost line" of its solar system, where icy-cored gas giants do not usually form. For this reason it is believed to be an extrasolar planet captured by its star's gravity.

Additional information:

Orbital Distance	0.5 AU
Orbital Period	0.3 Earth Years
Radius	34,653 km
Day Length	13.7 Earth Hours
Satellites	N/A

Erinle is the second planet orbiting the star Osun. It is a terrestrial garden world in its last stages of habitability. While its soil still supports agriculture, its animal biodiversity has fallen to record lows, and the most successful remaining life forms are toxic blue-green algae and insect-like pest species. A large salarian colony is trying to restore biodiversity to the planet, but setbacks are a fact of life. Mineral and fuel mining remains lucrative, however, and Erinle has a thriving spaceport that refuels many ships passing through the Terminus Systems.

Additional information:

Orbital Distance	0.95 AU
Orbital Period	0.9 Earth Years
Radius	6,711 km
Day Length	32.4 Earth Hours
Atm. Pressure	1.1 atm
Surface Temp	32 °C
Surface Gravity	1.1 *g*
Satellites	N/A

Colony	
Species	Salarian

Aganju is the third planet orbiting the star Osun. It is a large rock planet with a thin atmosphere of hydrogen and carbon monoxide. Abundant in both copper and platinum, the crust has been scanned by mining bots from Erinle, but the specialized equipment to work in Aganju's heavy gravity (more than 5 Gs) has created prohibitive costs, and so Aganju is largely unexploited.

Additional information:

Orbital Distance	3.2 AU
Orbital Period	5.7 Earth Years
Radius	10,008 km
Day Length	23.3 Earth Hours
Atm. Pressure	0.02 atm
Surface Temp	−93 °C
Surface Gravity	5.3 *g*
Satellites	N/A

Olokun is the fourth planet orbiting the star Osun. Olokun ('sky harvest') is a standard gas giant composed of hydrogen and helium. The spacefarers from Erinle gather helium-3 from here rather than Orunmila, as its atmosphere is much more predictable.

Additional information:

Orbital Distance	6.0 AU
Orbital Period	14.7 Earth Years
Radius	64,718 km
Day Length	11.9 Earth Hours
Satellites	N/A

Prison Ship: Purgatory

Purgatory is a maximum security prison starship owned and run by the Blue Suns. There are about 30 blocks on Purgatory. In each block, there are many cells that are self-contained for their occupants and can be moved through use of mechanized claws.

Originally an "ark ship" designed to carry agricultural animals, the Purgatory was taken by the Blue Suns mercenary company during a large-scale battle in the Skyllian Verge. In a years-long reconstruction of its interior, the Blue Suns repurposed it to hold sapient prisoners, supposedly because they captured so many in their conflicts throughout the galaxy. When media outlets started investigating claims that the ship was used for slaving operations, the Blue Suns turned a public relations nightmare into a regular income source.

Claiming to be in full accordance with Citadel law. the crew of Purgatory now regularly lands on planets or space stations claiming that they can no longer hold their prisoners because of cost overruns. To avoid keeping prisoners under inhumane conditions, they will have to release them at the nearest port, dumping the scum of the galaxy directly into the local population. Faced with such a scenario, the government usually grants Purgatory's crew massive discounts in fuel, food, and repairs as long as they go away. Some even offload their own prisoners to Purgatory for a fee, grateful to have a problem relocated somewhere other than their backyard. Such unfortunates go in the dark depths of the ship, never to be seen again by their families or contacts.

Rumors abound that the Blue Suns turn skilled or fit prisoners over to batarian slavers, but few have ever seen the transaction and lived to tell about it. Its population is listed at 4,350, but independent journalists estimate it is nearly three times that in periods of overcrowding.

Purgatory is minimally armed with GARDIAN defenses. Though a cruiser-weight ship, it relies on the Blue Suns' fighters to prevent any attacks bent on a jailbreak or similar events.

Although a ship, Purgatory usually remains in the Osun system.

In 2185 CE, the ship suffers catastrophic damage to life support and structural integrity in various cell blocks. In addition, the warden and many of the guard are killed. Though this was due to a jail break perpetrated by Commander Shepard, the commander was merely acting in self-defense after being betrayed by the warden Kuril.

Ploitari

Ploitari is a medium system with four planets.

Distance from Faryar: 1 light-years

Distance from Osun: 1 light-years

Distance from Sowilo: 1.1 light-years

Aigela is the first planet orbiting the star Ploitari. Only known from scan data picked up by space probes, Aigela is currently classified as a dwarf planet. A warm barren rock, its thin atmosphere is composed of carbon dioxide and oxygen. Significant alumina deposits in its crust make its density and gravity very low indeed.

Additional information:

Orbital Distance	0.7 AU
Orbital Period	0.6 Earth Years
Radius	1,511 km
Day Length	19.3 Earth Hours
Atm. Pressure	0.03 atm
Surface Temp	125 °C
Surface Gravity	0.1 *g*
Satellites	N/A

Zanethu is the second planet orbiting the star Ploitari. Believed to be a post-garden world, Zanethu has large deposits of calcium carbonate in its sedimentary rocks, indicating it may have once had plate tectonics and even plant life. Its swirling clouds of dust and snow may have occurred more recently and blocked the sun, creating a mass extinction event. Its surface gravity is comfortable and its temperature tolerable by most sapient species.

Additional information:

Orbital Distance	1.9 AU
Orbital Period	2.6 Earth Years
Radius	6,619 km
Day Length	53.6 Earth Hours
Atm. Pressure	0.38 atm
Surface Temp	−16 °C
Surface Gravity	1.2 *g*
Satellites	N/A

Synalus is the third planet orbiting the star Ploitari. Space probes indicate the planet is nowhere near as hospitable as its neighbor, Zanethu. Synalus's hydrogen-argon atmosphere is thought to be anathema to life, but the presence of borax on the surface, spawned by a boron-heavy core, indicates the planet may once have had water.

Additional information:

Orbital Distance	2.2 AU
Orbital Period	3.3 Earth Years
Radius	5,391 km
Day Length	66.8 Earth Hours
Atm. Pressure	1.23 atm
Surface Temp	−3 °C
Surface Gravity	0.84 *g*
Satellites	N/A

Thegan is the fourth planet orbiting the star Ploitari. Thegan rounds out the trio of planets scouted only by space probe in this backwater solar system. A frozen ball with significant amounts of tin in its crust, Thegan has a fractional atmosphere with trace amounts of carbon dioxide and carbon monoxide. Strange radiation emissions have been charted coming off of Thegan, but it is unknown if these are from radioactive elements or merely a star's radiation reflected by a high-albedo surface.

Additional information:

Orbital Distance	4.1 AU
Orbital Period	8.3 Earth Years
Radius	3,581 km
Day Length	28.5 Earth Hours
Atm. Pressure	0.05 atm
Surface Temp	−116 °C
Surface Gravity	0.56 *g*
Satellites	N/A

Sowilo

Sowilo is a large system with six planets.

The Sowilo system and all of its planets likely derive their names from the Proto-Norse runic alphabet.

Distance from Faryar: 0.3 light-years
Distance from Osun: 1.3 light-years
Distance from Ploitari: 1.1 light-years

Fuel Depot: Sowilo has a fuel depot orbiting Thurisaz

Uruz is the first planet orbiting the star Sowilo. It is a large rock planet with a pressure-cooker atmosphere of nitrogen and argon. Uruz's silicate-rich crust is relatively low density. It was largely ignored by the salarian explorers who first charted the system.

Additional information:

Orbital Distance	0.25 AU
Orbital Period	0.1 Earth Years
Radius	9,266 km
Day Length	51.0 Earth Hours
Atm. Pressure	78.58 atm
Surface Temp	635 °C
Surface Gravity	2.1 *g*
Satellites	N/A

Kenaz is the second planet orbiting the star Sowilo. It is a terrestrial world with an extremely thin atmosphere is composed mostly of methane and helium. The salarian explorers who named the system set up a small mining presence for recovering nickel and chromium, used in making stainless steels.

Additional information:

Orbital Distance	0.55 AU
Orbital Period	0.5 Earth Years
Radius	5,501 km
Day Length	68.3 Earth Hours
Atm. Pressure	Trace
Surface Temp	72 °C
Surface Gravity	0.69 *g*
Satellites	N/A

Hagalaz is the third planet orbiting the star Sowilo. It is a second-tier garden world that receives little attention from the galactic community. A salarian mining expedition initially discovered the planet, which was promptly strong-armed away from them by organized crime figures. Hagalaz's exploration rights were then sold to the highest bidder, which led to a brief burst of mining colonies in the 2000s, but most of those were abandoned when other planets were found with more accessible resources.

Though Hagalaz has a nitrogen-oxygen atmosphere capable of supporting life, its rotational period is slower than Earth's, making its day and night 98 Earth hours long. The intense heat on one side of the planet and the extreme cold on the other make for violent storm cells wherever the sun is rising or setting. As a result, the flora and fauna of Hagalaz have developed the capability to live in cycles of ice, flooding, baking heat, and dramatic air pressure changes. The biota of the planet has been largely unexploited by the exotic pet and gardening trades, since simulating their natural conditions is problematic for the average consumer.

Additional information:

Orbital Distance	0.95 AU
Orbital Period	1.0 Earth Year
Radius	6,309 km
Day Length	98.3 Earth Days
Atm. Pressure	0.83 atm
Surface Temp	72 °C (day) −64 °C (night)
Surface Gravity	0.69 *g*
Satellites	N/A

Ansuz is the fourth planet orbiting the star Sowilo. It is a large rock planet. Ansuz was once under development by a consortium of robo-mining interests, but an epidemic of accidents and sabotage cost the lives of hundreds of workers and eventually drove them off the world. Despite numerous accusations among the mining corporations and a dozen or more

trials, popular opinion holds that the real saboteurs were never found.

Additional information:

Orbital Distance	1.6 AU
Orbital Period	2.0 Earth Years
Radius	8,795 km
Day Length	26.4 Earth Hours
Atm. Pressure	0.14 atm
Surface Temp	-7 °C
Surface Gravity	2.7 *g*
Satellites	N/A

Thurisaz is the fifth planet orbiting the star Sowilo. It is a hydrogen-helium gas giant. It has a decrepit automated infrastructure for refueling merchant vessels with helium-3. Painted onto the metal in a salarian dialect are the words "Self Serve."

Additional information:

Orbital Distance	3.0 AU
Orbital Period	5.2 Earth Years
Radius	57,287 km
Day Length	18.8 Earth Hours
Satellites	N/A

Isa is the sixth planet orbiting the star Sowilo. It is a rock and ice planet with a thin atmosphere of methane and ethane. Its borax deposits, largely trapped beneath the ice, were never considered valuable enough to mine since synthetic substitutes and alternative sources became widely available.

Additional information:

Orbital Distance	5.4 AU
Orbital Period	12.6 Earth Years
Radius	7,219 km
Day Length	66.5 Earth Hours
Atm. Pressure	Trace
Surface Temp	-135 °C
Surface Gravity	1.5 *g*
Satellites	N/A

Omega Nebula

The Omega Nebula contains the Omega space station, which serves as the central hub of the Terminus Systems, as well as the unmapped Omega 4 Relay.

Omega Nebula has six known star systems: the Amada system, the Arinlarkan system, the Batalla system, the Fathar system, the Kairavamori system and the Sahrabarik system.

The cluster's Mass Relay is located in the Sahrabarik system.

Amada

Amada is a medium system with five planets.

It is named after the ancient Egyptian temple Amada. Amada is an F-class star.

Distance from Arinlarkan: 6 light-years
Distance from Batalla: 6 light-years
Distance from Fathar: 13 light-years
Distance from Kairavamori: 9 light-years
Distance from Sahrabarik: 8 light-years

Takkan is the first planet orbiting the star Amada. It is a blistering, sun-blasted terrestrial world. Neither its carbon dioxide nor its weak magnetic field provides any protection from the star's harsh radiation. Fortunately, Takkan has few significant resources, and is only notable for an unusual purple desert in the southern hemisphere, thought to be the result of eroded spessartite.

Additional information:

Orbital Distance	1.2 AU
Orbital Period	1 Earth Year
Radius	4,312 km
Day Length	45.8 Earth Hours
Atm. Pressure	0.49 atm
Surface Temp	286 °C
Surface Gravity	0.5 *g*
Satellites	N/A

Karora is the second planet orbiting the star Amada. It is essentially a great rock in space, tidally locked to Amada. Its only notable feature is a chain of craters stitching across the northern hemisphere, thought to be the result of impacts by a swarm of meteors. Karora's low density suggests it contains no mineral wealth beyond common light metals. It maintains a tenuous atmosphere of krypton and xeon.

Additional information:

Orbital Distance	2.4 AU
Orbital Period	2.9 Earth Years
Keplerian Ratio	1.644
Radius	2,446 km
Day Length	63.6 Earth Hours
Atm. Pressure	0.14 atm
Surface Temp	99 °C
Surface Gravity	0.28 *g*
Mass	0.041 Earth Masses
Satellites	N/A

Eingana is the third planet orbiting the star Amada. It is a hot, beautiful, and deadly terrestrial world, covered with the debris of ancient starships. Approximately 127,000 years ago, a series of battles were fought over it by two organic species, the thoi'han and the inusannon. Although no records of the conflict remain, most historians agree that both races wanted to colonize Eingana, and neither were willing to share. The two lost hundreds of ships in a series of battles over Eingana and its moon, Barraiya; many of these were eventually pulled in by the planet's gravity well.

The mass effect drive cores of these ships broke apart, dumping refined element zero over large stretches of the landscape. This poisoned the environment and a wave of extinctions followed. Many of the animal species that remained showed a tendency to develop biotic powers. As the ecology of Eingana is energetic and aggressive, this makes colonization a deadly peril.

Additional information:

Orbital Distance	5.3 AU
Orbital Period	12.2 Earth Years
Radius	5,733 km
Day Length	20.8 Earth Hours
Atm. Pressure	0.84 atm
Surface Temp	36 °C
Surface Gravity	0.86 *g*
Satellites	1

Alchera is the fourth planet orbiting the star Amada. It is a large terrestrial world with a crust composed of carbon and water ice. While low density, its large size allows it to retain a thick atmosphere of methane and ammonia. It is believed that if Alchera had acquired a bit more mass when the Amada star system formed, it would have formed the core of a second outer-system gas giant. Alchera has three moons: Uluru, Wandjina, and Baiame.

Additional information:

Orbital Distance	9.5 AU
Orbital Period	29.4 Earth Years
Radius	9,229 km
Day Length	59.2 Earth Hours
Atm. Pressure	0.83 atm
Surface Temp	−22 °C
Surface Gravity	0.85 *g*
Satellites	3

Anjea is the fifth planet orbiting the star Amada. It is a typical ammonia-methane ice giant. Traces of chlorine in the atmosphere give it a distinct green tint. Penetrating scans have revealed large numbers of hollow, unpowered objects with dimensions of 3.14 by 12.56 by 28.26 circulating in the equatorial cloud bands. These objects appear to have "sails" or "wings" attached, allowing them to be borne aloft by Anjea's winds. While they are too deep to be reached for study, popular conjecture in xenoarchaeological circles holds that they are "coffins" of an ancient race who laid their dead to rest in the gas giant.

Additional information:

Orbital Distance	15.3 AU
Orbital Period	60 Earth Years
Radius	23,120 km
Day Length	17.4 Earth Hours
Satellites	N/A

Arinlarkan

Arinlarkan is a small system with one planet and an asteroid belt.

Distance from Amada: 6 light-years
Distance from Batalla: 12 light-years
Distance from Fathar: 15 light-years
Distance from Kairavamori: 6 light-years
Distance from Sahrabarik: 9.8 light-years

Utha is the first planet orbiting the star Arinlarkan. It is a terrestrial world covered by oceans. Punished with UV and gamma radiation from the Class F Star it orbits, Utha is no one's first choice for a planet to land on. Covered in seawater, Utha has a hydrosphere and ozone layer similar to Earth's, but that simply isn't enough to ward off the life-killing radiation. Its nitrogen-rich, oxygen-poor atmosphere goes unchanged by the few proteins that have managed to form in the ocean depths.

Utha, however, has served as a way station for slaves escaping their batarian masters. What little land it has is tectonically stable, and its considerable radiation belt and electrical storms grant cover from many common types of sensors. Fleeing ships typically hide on Utha long enough to discharge their drive cores and stock up on deuterium before trying to make it to the cluster's mass relay.

Additional information:

Orbital Distance	4.0 AU
Orbital Period	6.1 Earth Years
Radius	6,050 km
Day Length	49.4 Earth Hours
Atm. Pressure	1.2 atm
Surface Temp	40 °C
Surface Gravity	0.8 *g*
Satellites	N/A

1st asteroid belt: orbits Arinlarkann at a distance of 0.2 AU

Batalla

Batalla is a small system with three planets.

Distance from Amada: 6 light-years
Distance from Arinlarkan: 12 light-years
Distance from Fathar: 9 light-years
Distance from Kairavamori: 13 light-years
Distance from Sahrabarik: 7 light-years

Logasiri is the first planet orbiting the star Batalla. It is a small terrestrial world. Logasiri is a planet with a carbon-heavy crust and a trace atmosphere of CO_2 and helium. Its surface is cool enough to have liquid water, but it is rapidly drying out as it has lost the critical mass to have a self-sustaining hydrologic cycle.

Nevertheless, the batarians have colonized the world, forcing slaves to work in their mines and agri-habitats. The labor is hot, endless, and backbreaking, even in the low-G environment. Every horror story told by slaves elsewhere in the cluster seems to be topped by one from Logasiri. The most famous is that of the slaver Silparon, who worked to death 420 slaves over the course of a galactic standard year and ground up their bodies for compost in his greenhouses. He was eventually poisoned by his wife, but his shadow – and his business model – still hangs over this miserable planet.

Additional information:

Orbital Distance	0.6 AU
Orbital Period	0.5 Earth Years
Radius	5,014 km
Day Length	49.7 Earth Hours
Atm. Pressure	Trace
Surface Temp	56 °C
Surface Gravity	0.5 *g*
Satellites	N/A

Colony	
Species	Batarian

Thunawanuro is the second planet orbiting the star Batalla. It is an enormous terrestrial garden world. A strange island of peace in the lawless Terminus Systems, Thunawanuro is a planet of crushing gravity but abundant life. As its ponderous name indicates, it was colonized by the elcor, who have several booming industries on the planet. Hydroelectric dams and biofuels from tough woody algae provide much of the planet's energy. Mines export uranium, thorium, and gold taken to space with generous use of mass effect fields. Of course, pirates target the elcor's shipping as soon as it leaves orbit, but the elcor's deals with mercenary companies keep away all but the most foolhardy of attackers.

Additional information:

Orbital Distance	1.1 AU
Orbital Period	1.3 Earth Years
Radius	11,993 km
Day Length	51.7 Earth Hours
Atm. Pressure	2.86 atm
Surface Temp	32 °C
Surface Gravity	6.7 *g*
Satellites	N/A

Colony	
Species	Elcor
Capital	Nurhemathun
Colony Founded	2035
Population	3,769,400

Nearog is the third planet orbiting the star Batalla. It is an ice giant whose moons were once home to Essul, a batarian warlord who terrorized the Terminus Systems. Attempting to unite a pirate army under his banner, he successfully conducted a rapid blitz against 11 habitable worlds.

Fortunately for the rest of the galaxy, Essul's crimes caught the attention of the Spectres, who deduced his hidden location and assassinated him. Essul's empire, built on a hyperextended army, soon came crashing down. His lost stockpiles of element zero have become something of a legend, and foolish spacers have spent countless amounts of time and money searching the Batalla system, convinced they will be the ones that finally strike it rich.

Additional information:

Orbital Distance	4.8 AU
Orbital Period	11.8 Earth Years
Radius	19,976 km
Day Length	16.5 Earth Hours
Satellites	> 1

Fathar

Fathar is a small system with three planets.
Distance from Amada: 13 light-years
Distance from Arinlarkan: 15 light-years
Distance from Batalla: 9 light-years
Distance from Kairavamori: 10 light-years
Distance from Sahrabarik: 5 light-years

Lorek is the first planet orbiting the star Fathar. It is a low-density world composed of rock, light metals, and a water-based crust. It is tidally locked to Fathar with a sunward "hot pole" and shadowed "cold pole". Water on the sunward side evaporates quickly, traveling over the islands of the habitable terminator zone in the form of massive fast-moving thunderstorms and finally settling as snow on the frozen dark side. There are fears that the buildup of ice cap mass on the far side may cause axial reorientation over the course of several million years, but batarian officials dismiss the idea as an irresponsible theory disseminated by counter-hegemonist subversives.

Lorek is an extremely rare example of a habitable world circling a red dwarf star. Originally an independent asari colony named Esan, it was annexed by the Batarian Hegemony in 1913, causing a minor galactic incident. Despite several attempts, the local Terminus warlords have never been able to take Lorek for themselves.

Additional information:

Orbital Distance	0.2 AU
Orbital Period	59.6 Earth Days
Radius	6,754 km
Day Length	N/A
Atm. Pressure	0.4 atm
Surface Temp	40 °C
Surface Gravity	0.6 *g*
Satellites	N/A

Colony	
Species	Batarian
Capital	Jalnor
Colony Founded	1764
Population	4,700,000

Korar is the first planet orbiting the star Fathar. It is a small, lifeless rock blessed with significant deposits of thorium, which is used in radiation shielding and the manufacture of spaceframe alloys. A few miners eke out an existence on the surface, selling their ore at Lorek and praying that the intermittent raids by the Terminus pirate clans will pass their homestead by. There have been no children born on Korar since the infamous pirate raid of 2047, when every child on the planet was rounded up and taken as a slave. Any couple finding themselves pregnant preemptively moves offworld.

Additional information:

Orbital Distance	0.32 AU
Orbital Period	0.3 Earth Years
Radius	1,919 km
Day Length	N/A
Atm. Pressure	Trace
Surface Temp	−40 °C
Surface Gravity	0.19 *g*
Satellites	N/A

Colony	
Population	2,400

Dorgal is the third planet orbiting the star Fathar. It is a small terrestrial world. The surface of Dorgal is an ethane-soaked mush. The planet hovers near the boiling point of the hydrocarbon and supports a diverse if simple and slow-moving carbon-based ecology. The planet's gravity is strong enough to retain an atmosphere of molecular nitrogen and carbon monoxide, but the methane that dominated billions of years ago has long since been lost.

Additional information:

Orbital Distance	0.54 AU
Orbital Period	0.7 Earth Years
Radius	3,521 km
Day Length	51.4 Earth Hours
Atm. Pressure	0.43 atm
Surface Temp	−88 °C
Surface Gravity	0.44 *g*
Satellites	N/A

Kairavamori

Kairavamori is a small system with three planets.
Distance from Amada: 9 light-years
Distance from Arinlarkan: 6 light-years
Distance from Batalla: 13 light-years
Distance from Fathar: 10 light-years
Distance from Sahrabarik: 8 light-years

Sethor is the first planet orbiting the star Kairavamori. It is a rocky planet with a crushing atmosphere. Sehtor has been scanned from orbit but largely left unexplored due to its sweltering conditions. Its atmosphere contains nitrogen but also an unusually high percentage of ethane, which can coalesce in pockets near the surface. The alumina-heavy crust of the planet can reach glowing-hot temperatures during the daytime, reaching the ethane's auto-ignition temperature and creating pockets of flame across the landscape. For this reason extra-vehicular activities are discouraged on Sehtor, and no company has been willing to invest in exploration.

Additional information:

Orbital Distance	0.7 AU
Orbital Period	0.7 Earth Years
Radius	5,810 km
Day Length	47.8 Earth Hours
Atm. Pressure	47.73 atm
Surface Temp	470 °C
Surface Gravity	0.8 *g*

Satellites	N/A

Vatar is the second planet orbiting the star Kairavamori. It is a terrestrial world. Located within the life zone of a dimming orange sun, Vatar would be habitable except for its carbon-dioxide atmosphere and an icy surface that kills most oxygen-producing bacteria. Nonetheless, mercenary companies and slavers have numerous strongholds on the planet, out of reach of any galactic authority.

Travel Advisory: A statistically significant number of distress signals have originated within the 1-million-kilometer mark of Vatar. Civilian travel is not advised.

Additional information:

Orbital Distance	1.4 AU
Orbital Period	1.9 Earth Years
Radius	6,352 km
Day Length	18.0 Earth Hours
Atm. Pressure	0.77 atm
Surface Temp	−35 °C
Surface Gravity	1.0 *g*
Satellites	N/A

Uwan Oche is the third planet orbiting the star Kairavamori. It is a stony planet encased in ice under a methane-heavy sky. Named for the Uwan Consortium (Oche means "Prime"), the batarian manufacturing firm that financed its exploration, Uwan Oche's crust provides much of the boron allotropes used in omni-gel throughout the Terminus Systems. The area has naturally become a haven for pirates, who attempt to steal the refined gel or its ingredients as soon as the cargo ships leave the atmosphere.

Additional information:

Orbital Distance	2.7 AU
Orbital Period	5.0 Earth Years
Radius	6,529 km
Day Length	57.5 Earth Hours
Atm. Pressure	Trace
Surface Temp	−126 °C
Surface Gravity	1.1 *g*
Satellites	N/A

Sahrabarik

Sahrabarik is a small system with three planets and an asteroid belt. It is a gateway system.

Distance from Amada: 8 light-years
Distance from Arinlarkan: 9.8 light-years
Distance from Batalla: 7 light-years
Distance from Fathar: 5 light-years
Distance from Kairavamori: 8 light-years

Mass Relay: Orbits the star Sahrabarik at a distance of 8 AU. This system also possesses a second Mass Relay, known as the Omega-4 Relay. It has never been mapped and ships that travel through it never return. It is believed the homeworld of the Collector race lies beyond the Omega-4 Relay. The Omega-4 Relay orbits Sahrabarik at a distance of 4.5 AU.

Fuel Depot: Sahrabarik has a fuel depot orbiting Imorkan

Urdak is the first planet orbiting the star Sahrabarik. It is a close-orbiting brown dwarf; most red-brown dwarf binary systems have an average separation of 8 AU. The Sahrabarik system is about 12 billion years old and it has long since used up the deuterium used to fuel fusion, so Urdak is not luminous like some brown dwarfs are.

Urdak is a class L brown dwarf with a relatively low temperature of 1,300 degrees Celsius, but its heat and gravity have made it unpopular for development. There are rumors that the heads of several of Omega's crime syndicates maintain private residences on various moons. Whatever the truth of the matter, battles between syndicate vessels are often observed around the ring plane. News outlets on Omega maintain satellites at Urdak's Lagrange points for real-time coverage of these battles, which garner high viewer ratings.

Additional information:

Orbital Distance	0.8 AU
Orbital Period	1.3 Earth Years
Radius	72,512 km
Day Length	19.2 Earth Hours
Satellites	many

Imorkan is the second planet orbiting the star Sahrabarik. It is a small methane-ammonia gas giant and the main source of helium-3 fuel for ships coming to or from Omega. Most of its fueling stations are run by criminal cartels that engage in cutthroat (sometimes literally) pricing wars. Imorkan is also widely known for its layover stations, where pirates in a hurry can find fuel, ammunition, intoxicants, gambling, and sexual companionship at any hour.

Additional information:

Orbital Distance	3.4 AU
Orbital Period	11.5 Earth Years
Radius	53,491 km
Day Length	18.7 Earth Hours
Satellites	N/A

Bindur is the third planet orbiting the star Sahrabarik. It is a terrestrial world. If it were closer to Sahrabarik, Bindur would have an atmosphere of carbon dioxide and ethane. In the deep cold of the outer solar system, however, both elements have long since frozen to the ground.

Additional information:

Orbital Distance	6.12 AU
Orbital Period	27.7 Earth Years
Radius	4,907 km
Day Length	53.3 Earth Hours
Atm. Pressure	Trace
Surface Temp	−224 °C
Surface Gravity	0.55 *g*
Satellites	N/A

Omega Station was built in the mined-out husk of a metallic asteroid in the system's asteroid belt. Omega has been a haven for criminals, terrorists, and malcontents for thousands of years. At times the station has lain idle and abandoned for centuries, only to be reactivated by a new group of outlaws seeking a fresh start. The space station's original elegant design has given way to haphazard expansion by scrabbling factions of every species. There is no central government or unifying authority on Omega, and nobody can recall a time there ever was one.

Additional information:

Orbital Distance	2.43 AU
Orbital Period	6.9 Earth Years
Total Length	44.7 Km
Population	7.8 million

1st asteroid belt: orbits Sahrabarik at a distance of 2.43 AU

Rosetta Nebula

Rosetta Nebula has three known star systems: the Alpha Draconis system, the Enoch system and the Phi Clio system

This cluster's Mass Relay is located in the Enoch system.

Alpha Draconis

Alpha Draconis is a small system with two planets.

Alpha Draconis is a white dwarf star.

Distance from Enoch: 60 light-years

Distance from Phi Clio: 60 light-years

2175 Aeia is the first planet orbiting the star Alpha Draconis. It is a terrestrial garden world. Named after an asari scientist, this remote planet appears to have been on the list of forbidden mass relays that led to uncharted space. The little data available comes from one far-off probe that reports two planets orbiting a white dwarf star. Your own scans yield far more interesting results. The planet is within the habitable zone of the star. It has oceans of liquid water and a thin nitrogen-oxygen atmosphere consistent with carbon-based plant life. It is possible this is an as-yet-unexplored garden world.

Additional information:

Orbital Distance	4.5 AU
Orbital Period	7.3 Earth Years
Radius	6,521 km
Day Length	31.6 Earth Hours
Atm. Pressure	0.72 atm
Surface Temp	16 °C
Surface Gravity	1.1 *g*
Satellites	2

2175 AR2 is the econd planet orbiting the star Alpha Draconis. Still formally unnamed, this planet is a hydrogen-helium gas giant with 21 moon-sized objects.

Additional information:

Orbital Distance	9.3 AU
Orbital Period	28.4 Earth Years
Radius	62,775 km
Day Length	14.0 Earth Hours
Satellites	21

Enoch

Enoch is a medium system with four planets.

It is a gateway system. Enoch is named after Enoch of the Old Testament and the Judaic Torah. Likewise, the system's planets also follows a naming theme based on personalities from both sources mentioned above.

Distance from Alpha Draconis: 60 light-years

Distance from Phi Clio: 60 light-years

Mass Relay: Orbits the star Enoch at a distance of 8 AU

Fuel Depot: Enoch has a fuel depot orbiting Goliath

Lanban is the first planet orbiting the star Enoch. It is a desert world with sea upon sea of scorching hot iron oxide wearing away marbleized cliffs. Its atmosphere is thick and layered with significant levels of oxygen trapped under an upper helium layer. Initially, surveyors detected traces of iridium from orbit, only to find a surprising archaeological discovery - the iridium came from bunkers on the surface that were blown apart by a dreadnought-class weapon. The logical conclusion was that the civilization on Joab had reached Laban and its outposts here were destroyed to make their extermination complete.

Additional information:

Orbital Distance	0.6 AU
Orbital Period	0.5 Earth Years
Radius	7,658 km
Day Length	24.3 Earth Hours
Atm. Pressure	14.91 atm
Surface Temp	384 °C
Surface Gravity	1.8 *g*
Satellites	N/A

Mizraim is the second planet orbiting the star Enoch. It is a small gas giant. Mizraim is primarily hydrogen and methane around a rocky core. There is no remaining trace of the civilization from Joab on Mizraim itself, but debris orbiting the planet indicates that artificial satellites were once in place before being destroyed.

Additional information:

Orbital Distance	1.2 AU
Orbital Period	1.3 Earth Years
Radius	17,932 km
Day Length	10.9 Earth Hours
Satellites	N/A

Joab is the third planet orbiting the star Enoch. It is a two-mooned habitable planet that is most well known for its mass extinction event. Thousands of years ago Joab was home to a primate-like spacefaring civilization as well as abundant flora and fauna. However, this can only be deduced from time capsules put into the ground well outside habitation centers - all cities and detectable dwellings were targeted in a massive orbital bombardment that turned them into vapor. The resulting dust shroud killed all photosynthetic life and all fauna dependent on it. Today, humans have recolonized the planet and rapidly introducing their own species, beginning with cyanobacteria and heterotrophic bacteria, to bring a suitable level of oxygen and nitrogen for respiration.

Travel Advisory: Atmospheric pressure at sea level on Joab is double that of Earth. Visitors with upper-respiratory infections, emphesyma, cancer, or a history of thoracic surgery should consult their physician before landing on Joab.

Additional information:

Orbital Distance	2.3 AU
Orbital Period	3.5 Earth Years
Radius	6,709 km
Day Length	25.6 Earth Hours
Atm. Pressure	2.18 atm
Surface Temp	14 °C
Surface Gravity	1.2 *g*
Satellites	2

Colony	
Species	Human
Capital	New Jericho
Colony Founded	2171
Population	21,553,000

Goliath is the fourth planet orbiting the star Enoch. It is a hydrogen-helium gas giant. Goliath's orbit takes it near the system's mass relay, a useful event for drive core discharges and automated helium-3 refueling platforms. Unfortunately, its orbit is currently taking it away from the relay, and it will continue this inconvenience for the next three galactic standard years.

Additional information:

Orbital Distance	4.8 AU
Orbital Period	10.5 Earth Years

Radius	74,985 km
Day Length	14.1 Earth Hours
Satellites	N/A

Phi Clio

Phi Clio is a small system with two planets.
Distance from Alpha Draconis: 60 light-years
Distance from Enoch: 60 light-years

Fuel Depot: Phi Clio has a fuel depot orbiting Cyllene.

Cyllene is the first planet orbiting the star Phi Clio. It is a small-sized hydrogen-helium gas giant. Cyllene has an automated helium-3 refueling station, indicating that this remote system was once inhabited. Its distance from the mass relay and archaic design of the fuel station suggest that this system was mapped by someone who did not go through the relay but discovered it in independent FTL exploration. Cyllene is within the "frost line" of its parent star, where gas giants do not normally form.

Additional information:

Orbital Distance	0.5 AU
Orbital Period	0.4 Earth Years
Radius	38,920 km
Day Length	12.8 Earth Hours
Satellites	N/A

Paranassus is the second planet orbiting the star Phi Clio. It is a boiling hot rock planet with extreme tectonic activity. Parnassus is home to many volcanic mountains. Surface scans reveal several geothermal and solar power stations tapping the planet's abundant energy. There is no history of the planet or its government in Citadel Council records. Given its proximity to a mapped and recorded planet like Cyllene, someone must have deleted Parnassus from the database.

Additional information:

Orbital Distance	1.1 AU
Orbital Period	1.2 Earth Years
Radius	5,850 km
Day Length	50.2 Earth Hours
Atm. Pressure	4.71 atm
Surface Temp	158 °C
Surface Gravity	0.8 *g*
Satellites	N/A

Sigurd's Cradle

Sigurd may be named after the warrior hero in the Norse mythology whose exploits are recorded in the Volsunga Saga.

Sigurd's Cradle has five known star systems: the Decoris system, the Lenal system, the Mil system, the Psi Tophet system and the Skepsis system.

This cluster's Mass Relay is located in the Skepsis system.

Decoris

Decoris is a small system with two planets.
Distance from Lenal: 9 light-years
Distance from Mil: 13 light-years
Distance from Psi Tophet: 4 light-years
Distance from Skepsis: 7 light-years

Laena is the first planet orbiting the star Decoris. It is a methane-clouded hothouse planet. Its lack of a metal-rich core and significant magnetosphere allows for an easy scan, which reveals mining equipment on its surface. It can be deduced that this mining occurred within the last five years – any longer and the machines would have been worn to nothing by the excessive heat and dust storms of hot iron oxide.

Additional information:

Orbital Distance	1.4 AU
Orbital Period	1.7 Earth Years
Radius	6,197 km
Day Length	36.2 Earth Hours
Atm. Pressure	37.64 atm
Surface Temp	365 °C
Surface Gravity	1.0 *g*
Satellites	N/A

Sanctum is the second planet orbiting the star Decoris. It is a terrestrial world. Sanctum is proof of the old spacer adage "just because it's called a garden world doesn't mean it's a picnic." Freezing ice storms cover the poles and temperate zones, leaving a narrow strip of habitable land at the equator. Dry but windy, this area is home to Sanctum's minimal terrestrial plant life. The planet has yet to develop land-based animals, though invertebrates grow quite large in its pelagic seas. Mining referred to as "ice cracking" at anywhere but the equator is a common employment on Sanctum. The planet is rich in platinum and palladium deposits as well as boron, which is locally used in semiconductor doping.

Travel Advisory: Carbon dioxide levels on Sanctum can reach 5,000 parts per million during thermal inversions. Travelers should carry a breath mask at all times and consult the Sanctum World Weather Service for warnings.

In addition, piracy is at a 14-year global high on Sanctum. Visitors should take appropriate security precautions.

Additional information:

Orbital Distance	2.6 AU
Orbital Period	4.2 Earth Years
Radius	6,651 km
Day Length	69.4 Earth Hours
Atm. Pressure	0.4 atm
Surface Temp	−50 °C (mean), 4 °C (equator)
Surface Gravity	1.2 *g*
Satellites	N/A

Colony	
Capital	Vulpes
Colony Founded	2169
Population	257,300

Lenal

Lenal is a medium system with four planets.
Lenal is an F-class star.
Distance from Decoris: 9 light-years
Distance from Mil: 8 light-years
Distance from Psi Tophet: 10 light-years
Distance from Skepsis: 4.5 light-years

Laconix is the first planet orbiting the star Lenal. It is a large terrestrial world. Laconix is far enough from its F-class star that its temperatures are almost tolerable to sapient life, but its extremely thin atmosphere makes it almost as hostile as a vacuum. As such, the planet was uninhabited. Mining drones, piloted from orbital stations, would brave the high gravity to extract iridium, osmium, and other valuable heavy metals.

Additional information:

Orbital Distance	2.5 AU
Orbital Period	3.6 Earth Years
Radius	9,973 km
Day Length	22.1 Earth Hours
Atm. Pressure	N/A
Surface Temp	73 °C
Surface Gravity	1.89 *g*
Satellites	N/A

Triginta Petra is the second planet orbiting the star Lenal. It is a large terrestrial world. A low-density planet in comparison to Earth, Triginta Petra is also drier, with wide land masses that are largely desert. Its dextro-chirality native life has yet to make it out of the oceans, primarily producing cyanobacteria which provide a limited amount of oxygen in the atmosphere.

A handful of turians colonized the planet and attempted to introduce land plants. Their chief hurdle was the lack of good topsoil, which required imports and sophisticated farming practices to overcome. The farmer's maxim on Triginta Petra was "if you can last five seasons, you officially know what you're doing."

Preliminary scans of Triginta Petra suggest that the Reapers judged its population too low to harvest and struck its colonies with kinetic impactors. They then moved on, trusting that the destruction of the food supply's main arteries would finish off the inhabitants of such a biota-poor world.

Additional information:

Orbital Distance	4.8 AU
Orbital Period	9.6 Earth Years
Radius	8,287 km
Day Length	28.8 Earth Hours
Atm. Pressure	0.41 atm
Surface Temp	20 °C
Surface Gravity	0.88 *g*
Satellites	N/A

Colony	
Species	Turian
Capital	Licitron
Colony Founded	2120
Population	35,500

Choitadix is the third planet orbiting the star Lenal. It is a dwarf planet. Choitadix is notable for gold deposited by an asteroid strike that, geologically speaking, happened fairly recently. Surveyors suspected Choitadix was once larger but was reduced in size by the strike, which knocked enough material out of the planet to create misshapen moonlets. Its name, which means "gap-toothed" in a common turian language, was retroactively added once scientists confirmed this hypothesis.

It appears the pulverized orbital stations here were abandoned as a preemptive move before the Reapers reached the cluster. The fate of the refugees is unknown. If they fled to Triginta Petra, the outlook is particularly poor.

Additional information:

Orbital Distance	9.3 AU
Orbital Period	26.0 Earth Years
Radius	1,260 km
Day Length	62.0 Earth Hours
Atm. Pressure	Trace
Surface Temp	−88 °C
Surface Gravity	N/A
Satellites	>1

Nutus is the fourth planet orbiting the star Lenal. It is a hydrogen-helium gas giant with high nitrogen content. It had several colonized moons.

Nutus's moon Etrat was home to the small-time Terminus Systems warlord Rashtek Chass, who extracted tribute from the colonists on Triginta Petra and any travelers stopping by to refuel on helium-3.

Additional information:

Orbital Distance	17.4 AU
Orbital Period	66.5 Earth Years
Radius	50,752 km
Day Length	13.4 Earth Hours
Satellites	>1

Colony	
Species	Turian

Mil

Mil is a medium system with five planets and an asteroid belt.

Distance from Decoris: 13 light-years
Distance from Lenal: 8 light-years
Distance from Psi Tophet: 10 light-years
Distance from Skepsis: 5.5 light-years

Akraia is the first planet orbiting the star Mil. Tidally locked to its parent star, Mil, Akraia is a small rock-planet that never bore much development due to the asari on Chalkhos and Selvos having limited resources and instead focusing their efforts on more welcoming worlds. Old scans indicate that it may have an abundance of nickel.

Additional information:

Orbital Distance	0.4 AU
Orbital Period	0.3 Earth Years
Radius	2,800 km
Day Length	0.3 Earth Years
Atm. Pressure	Trace
Surface Temp	268 °C
Surface Gravity	0.39 *g*
Satellites	N/A

Lisir is the second planet orbiting the star Mil. It is a low-density terrestrial world notable for its appearance in the asarisploitation holo, "Blue Steel," one of humanity's first attempts to market entertainment galactically. The promotional campaign assured viewers that it was "filmed on location in the most dangerous section of the galaxy, the Terminus Systems!" In fact, the cast and crew were relatively safe, occupying a space station that orbited an unremarkable, lifeless planet.

Lisir's space stations housed a largely asari crew teleoperating robo-mining of uranium. When "Blue Steel" was released, human audiences still thought of this as an exotic profession. Today, it would induce yawns.

Additional information:

Orbital Distance	0.68 AU
Orbital Period	0.56 Earth Years
Radius	5,953 km
Day Length	34.7 Earth Hours
Atm. Pressure	Trace
Surface Temp	131 °C
Surface Gravity	0.66 *g*
Satellites	N/A

Chalkhos is the third planet orbiting the star Mil. It is a terrestrial world notable for being one of the few garden worlds in the Milky Way that is also part of a binary planet system: both it and its heavenly twin Selvos are in a stable orbit with one another in addition to orbiting the star Mil. Chalkhos's greenhouse gases lead to a hotter climate than Earth, and the solar eclipses caused by Selvos, while common, are not frequent enough to be a good solar shade.

This did not prevent a colony from springing up, largely asari and their varying species of mates. It was far from an idyllic settlement--like many Terminus worlds, it was rife with farmers growing psychoactive substances, armed gangs, and with genetic engineering that would be illegal in Council space – but aside from the maddening heat and photoperiod, it was quite inhabitable.

Additional information:

Orbital Distance	1.15 AU
Orbital Period	1.24 Earth Years
Radius	5,005 km
Day Length	68.6 Earth Hours
Atm. Pressure	0.66 atm
Surface Temp	57 °C
Surface Gravity	0.79 *g*
Satellites	N/A

Colony	
Species	Asari

Selvos is the fourth planet orbiting the star Mil. It is a terrestrial world. Chalkhos's binary twin is a barren world that's always seemed like a better terraforming prospect that it is. Its temperatures are quite tolerable for sapient life, and its gravity is suitable for retaining a thick atmosphere. Its location, close to Chalkhos, makes for a tempting investment--two garden worlds so close together would benefit from mutual trade and, if nothing else, tourism due to their near-unique status. However, Selvos has minimal water. Early attempts at creating a hydrosphere met with slow progress that only Chalkhos's asari could love.

Additional information:

Orbital Distance	1.15 AU
Orbital Period	1.24 Earth Years
Radius	6,062 km
Day Length	54.9 Earth Hours
Atm. Pressure	Trace
Surface Temp	32 °C
Surface Gravity	0.94 *g*
Satellites	N/A

Colony	
Species	Asari

Terapso is the fifth planet orbiting the star Mil. It is a hydrogen-helium gas giant with an abundance of nitrogen in its atmosphere. Terapso was notable because of its independence from the government of Chalkhos as well as from any other governing body. As a result, its colonized moons and orbital stations overseeing the helium-3 recovery were neutral meeting grounds for all manner of deals between Terminus governments, warlords, or crime figures.

Additional information:

Orbital Distance	4.53 AU
Orbital Period	9.66 Earth Years
Radius	63,374 km
Day Length	12.9 Earth Hours
Satellites	>1

Colony	
Species	Asari

Psi Tophet

Psi Tophet is a small system with three planets.

Distance from Decoris: 4 light-years
Distance from Lenal: 10 light-years
Distance from Mil: 10 light-years
Distance from Skepsis: 6 light-years

2181 Despoina is the first planet orbiting the star Psi Tophet. This planet was only spotted recently by human space probes, and no records indicate it has been explored since. Scans indicate it is covered in a ocean of liquid water and has a nitrogen-oxygen atmosphere. It is highly likely to have at least some photosynthetic life.

Additional information:

Orbital Distance	1.3 AU
Orbital Period	1.5 Earth Years
Radius	6,908 km
Day Length	22.7 Earth Hours
Atm. Pressure	1.3 atm
Surface Temp	29 °C
Surface Gravity	0.92 *g*
Satellites	N/A

2181 Arion is the second planet orbiting the star Psi Tophet. This rock planet is only known from space probes, and there are no records of its exploration. It appears to have a moderate atmosphere of hydrogen and helium over an icy surface.

Additional information:

Orbital Distance	2.45 AU
Orbital Period	3.84 Earth Years
Radius	4,404 km
Day Length	59.6 Earth Hours
Atm. Pressure	1.31 atm
Surface Temp	-13 °C
Surface Gravity	0.57 *g*
Satellites	N/A

2181 Eubolos is the third planet orbiting the star Psi Tophet. Like the other planets in this system, 2181 Eubolos is an unknown quantity. It appears to be a hydrogen-helium gas giant surrounded by the usual complement of moons and rings. Scans reveal no detectable artificial satellites.

Additional information:

Orbital Distance	5.2 AU
Orbital Period	11.9 Earth Years
Radius	66,580 km
Day Length	15.3 Earth Hours
Satellites	>1

Skepsis

Skepsis is a large system with six planets.

It is a gateway system. Skepsis is named for the plural form (Σκέψεις) of the Greek word "skepsi" (Σκέψη) which means thought. As such, all of the planets within the system are named after notable scientists.

Distance from Decoris: 7 light-years
Distance from Lenal: 4.5 light-years

Distance from Mil: 5.5 light-years
Distance from Psi Tophet: 6 light-years

Mass Relay: Orbits the star Skepsis at a distance of 20 AU

Fuel Depot: Skepsis has a fuel depot orbiting Pauling.

Wallace is the first planet orbiting the star Skepsis. It is an unusually small Pegasid or "hot Jupiter", Wallace was originally an extrasolar planet that entered this system and was captured by the gravity well of the G-class star Skepsis. Tidally locked, Wallace's "hot side" reaches temperatures over 2,500 degrees Celsius. While not large enough proportionate to the star to cause eclipses visible from Watson, it is easily seen at dawn or dusk as one of the brightest objects in the sky.

Additional information:

Orbital Distance	0.04 AU
Orbital Period	11 Earth Days
Radius	39,459 km
Day Length	11 Earth Days
Satellites	N/A

Darwin is the second planet orbiting the star Skepsis. A mid-sized rock planet, Darwin is ironically named, being one of the worst places for life in the galaxy. Its atmosphere is punishing, its temperature boiling, its chemical makeup toxic. Carbon monoxide and methane warp the planet in an unyielding haze, and scans of its surface show only silicates and molten tin. Its daily thermal fluctuations lead to hurricane-level vortices, two at each pole, forming "eyes" that can be seen from orbit. Despite all this Darwin is still used by spacers as a drive core discharge point - hydrogen pierces the clouds in the upper atmosphere making for a relatively benign appearance.

Additional information:

Orbital Distance	2.0 AU
Orbital Period	2.8 Earth Years
Radius	6,501 km
Day Length	69.6 Earth Hours
Atm. Pressure	1.8 atm
Surface Temp	340 °C
Surface Gravity	1.1 *g*
Satellites	N/A

Watson is the third planet orbiting the star Skepsis. Watson is known in human media for two things - its spectacular tides brought on by a large moon and the bureaucratic snafu over which Earth nations got to settle there first. Watson is a garden world first discovered in 2165 CE with credit claimed by the Chinese People's Federation, the United North American States, and the European Union. The Systems Alliance brokered the infamous "Rekjavik Compromise", allowing limited colonization from each coalition in cities comprised of populations from each nation. Watson itself trends colder than Earth, with a temperate zone measuring about 30 degrees latitude in either direction from the equator. Its life does not easily map to Earth's evolutionary eras - some islands have species that resemble terrestrial placental mammals, while others are overrun by arthropods. It is estimated that at least two more generations of xenozoologists will be needed to properly classify all the species of the planet.

Additional information:

Orbital Distance	2.1 AU
Orbital Period	3.0 Earth Years
Keplerian Ratio	1.029
Radius	6,733 km
Day Length	37.8 Earth Hours
Atm. Pressure	0.6 atm
Surface Temp	−18 °C (mean) 25 °C (habitable zone)
Surface Gravity	1.2 *g*
Mass	1.327 Earth Masses
Satellites	1

Colony	
Species	Human

Watson's Moon: Franklin

A large moon, Franklin retains a trace atmosphere of carbon dioxide, but its desolate surface holds no signs of water or life. In order to defend Watson from the pirates of the Terminus Systems, Franklin is home to two Alliance spaceports and naval bases capable of fielding six fighter squadrons each and a classified number of interplanetary ballistic missiles. Mass effect fields keep the gravity in its installations at a comfortable level for long-term living.

Additional information:

Orbital Distance	210,000 km
Orbital Period	9.57 Earth Days
Radius	2,405 km
Day Length	33 Earth Days
Atm. Pressure	Trace
Surface Temp	−116 °C
Surface Gravity	0.1 *g*
Satellites	N/A

Colony	
Species	Human

Crick is the fourth planet orbiting the star Skepsis. Known for its spectacular geysers that can be seen from orbit, Crick is a rock planet with expansive frozen oceans. Though it is within the temperature and pressure range for human habitation, its thick atmosphere is largely carbon dioxide and monoxide, making breath masks or environmental suits mandatory. The most abundant resources for exploitation are the potassium salts found in its seabeds, which fetch good prices on terraforming worlds.

Additional information:

Orbital Distance	4.3 AU
Orbital Period	8.9 Earth Years
Radius	4,738 km
Day Length	60.7 Earth Hours
Atm. Pressure	2.77 atm
Surface Temp	−32 °C
Surface Gravity	0.6 *g*
Satellites	N/A

Pauling is the fifth planet orbiting the star Skepsis. It is a hydrogen-methane gas giant. Pauling's gravitational field is believed to have cleared most of what would otherwise have been a sizable asteroid belt. The 2163 mission of the space probe 'Ultimate' gave the inhabitants of Watson reams of data reinforcing this theory, giving the colonist an accurate count of its moons (66), rings, moonlike ring objects, and more than 200 visible impact craters on its pockmarked surface. Ultimate has since been retrieved for re-use on subsequent missions within the solar system.

Additional information:

Orbital Distance	7.8 AU
Orbital Period	21.74 Earth Years
Radius	50,604 km
Day Length	85 Earth Hours

Satellites	66

Keimowitz is the fourth planet orbiting the star Skepsis. Named for the 21st century pioneer of groundwater remediation techniques, Keimowitz is an impressive layer of ice over a stony metallic core. Despite its size it has only one moon, Noa, which shares its carbonaceous composition, leading astronomers to believe it formed following a giant impact. Iridium deposits have attracted miners to the planet; they must work through robots and telepresence because of the planet's strong gravity.

Additional information:

Orbital Distance	16.8 AU
Orbital Period	69.1 Earth Years
Radius	9,586 km
Day Length	29.7 Earth Hours
Atm. Pressure	Trace
Surface Temp	−190 °C
Surface Gravity	3.4 *g*
Satellites	1

Shrike Abyssal

Shrike Abyssal is a nebula at the edge of the galaxy.

Shrike Abyssal has four known star systems: the Kyzil system, the Thal system, the Urla Rast system and the Xe Cha system.

This cluster's Mass Relay is located in the Xe Cha system.

Kyzil

Kyzil is a medium system with five planets.
Distance from Thal: 7 light-years
Distance from Urla Rast: 7 light-years
Distance from Xe Cha: 4 light-years

Fuel Depot: Kyzil has a fuel depot orbiting Lihrat.

Naskral is the first planet orbiting the star Kyzil. It is a small, hot, tidally locked inner planet that had modest minerals development on its dark side. Within a generation of the vorcha's first contact with spacefaring species, robo-mining interests attempted to exploit it only to find their trading partners violently overthrown on a regular basis. The vorcha's own culture disenfranchised them in Naskral's case, as their legal claims to the planet were inevitably backed up by violence as a show of dominance. This nuance was lost on the mining corporations, who hired mercenaries to guard their operations with lethal force and never surrendered it to vorcha claimants.

Additional information:

Orbital Distance	0.37 AU
Orbital Period	0.3 Earth Years
Radius	1,754 km
Day Length	0.3 Earth Years
Atm. Pressure	Trace
Surface Temp	156 °C
Surface Gravity	0.41 *g*
Satellites	N/A

Heshtok is the second planet orbiting the star Kyzil. It is a terrestrial world. A Systems Alliance official once summarized his tour of the vorcha homeworld as follows: "You can make your own Heshtok in two steps: take hell, then add vorcha." The planet is highly volcanically active, leading to periodic releases of toxic gases into the air and water supplies, as well as other extreme situations that gave rise to the vorcha's legendary adaptability. Overcrowding and the extermination of most of their ecology led to a planet covered in weeds and hardy vermin.

The vorcha do not have a recognized single government that would allow them membership in any galactic league. Alliances between bloodlines are tenuous at best, and the vorcha's short, violent lives ensure there are few lasting institutions.

Additional information:

Orbital Distance	0.75 AU
Orbital Period	0.72 Earth Years
Radius	3,902 km
Day Length	44.9 Earth Hours
Atm. Pressure	0.27 atm
Surface Temp	32 °C
Surface Gravity	0.695 *g*
Satellites	N/A

Homeworld	
Species	Vorcha
Capital	Hatash (disputed)
Population	Lack of census data spreads estimates from 6.0-9.3 billion

Parasc is the third planet orbiting the star Kyzil. It is a very small terrestrial world. A lifeless desert, Parasc was colonized soon after first contact with the vorcha. Several asari mining corporations, working with a asari-based charity called Mind and Hand, build settlements on the planet's surface and orbital stations. Adopting vorcha orphans from Heshtok, they raised them to live nonviolent lives and employed them in the mining industry.

While Mind and Hand's efforts were at first labeled colonialist, the orphans became minor celebrities when it was discovered that the vorcha habit of using violence to communicate was not completely innate. Several spoke throughout Citadel space on behalf of their species, but their short life spans kept their careers very brief. Even today, companies that want vorcha labor have the poor choice between adopting and educating them as youngsters just to watch them age and die or dealing with autonomous but violent adults.

Additional information:

Orbital Distance	1.7 AU
Orbital Period	2.5 Earth Years
Radius	2,283 km
Day Length	49.1 Earth Hours
Atm. Pressure	Trace
Surface Temp	-85 °C
Surface Gravity	0.32 *g*
Satellites	N/A

Colony	
Species	Vorcha

Lihrat is the fourth planet orbiting the star Kyzil. It is a standard gas giant.

Additional information:

Orbital Distance	3.5 AU
Orbital Period	7.3 Earth Years
Radius	72,280 km
Day Length	11.9 Earth Hours
Satellites	N/A

Rustaka is the fifth planet orbiting the star Kyzil. It is a standard methane-ammonia ice giant.

Additional information:

Orbital Distance	7.1 AU
Orbital Period	21.2 Earth Years
Radius	32,734 km
Day Length	14.5 Earth Hours
Satellites	N/A

Thal

Thal is a medium system with four planets and two asteroid belts.

Distance from Kyzil: 7 light-years
Distance from Urla Rast: 9 light-years
Distance from Xe Cha: 5 light-years

Garan is the first planet orbiting the star Thal. It is large terrestrial world. Garan is the innermost planet of the Thal system, which is less than 2.56 million kilometers from its K-class parent star. Temperatures on the sunward side of this tidally locked planet reach more than 2,800 Celsius, boiling away earth and stone. These gases are then carried away by wind from the hottest point to the zone where temperatures are cool enough for the gaseous mixture to recondense, leading to the unusual weather phenomenon of rains of rocks.

Garan remains largely unexploited by commercial interests, as the heat of the star tends to ward off all but well-funded collection ships like the so-called "Inferno-class" that mine eezo near energetic stars. Garan does not appear to have eezo and its other elements are not worth the setup cost.

Additional information:

Orbital Distance	0.0172 AU
Orbital Period	17.52 Earth Hours
Radius	11,703 km
Day Length	17.52 Earth Hours
Atm. Pressure	0.67 atm
Surface Temp	1,284 °C
Surface Gravity	1.56 *g*
Satellites	N/A

Sarait is the second planet orbiting the star Thal. It is a large terrestrial. Its methane-rich atmosphere might be mistaken for that of a true hothouse planet. However, some terraforming corporations have targeted it for development since Sarait has already given rise to some cyanobacteria in the liquid water that can be found near its poles. There is some evidence that the planet has been fluctuating between methane-heavy and oxygen-heavy atmospheres for several million years, each cycle dependent on the nutrients in the ocean that led to bacterial growth or crashes.

Additional information:

Orbital Distance	0.85 AU
Orbital Period	0.87 Earth Years
Radius	10,413 km
Day Length	65.0 Earth Hours
Atm. Pressure	5.18 atm
Surface Temp	94 °C
Surface Gravity	1.82 *g*
Satellites	N/A

Altakiril is the third planet orbiting the star Thal. It is a terrestrial garden world on the outer edge of its star's habitable zone. The planet is largely frozen, yet it features native dextro-amino-acid-based life in its lower latitudes. These species evolved to withstand periodic freezing and compensate for the cold with spectacular population explosions during the long, mild summers.

Hardy, independent-minded turians colonized the planet. The quarians briefly considered contesting them but were daunted by the virulence of the planet's infectious life during the growing season, not to mention the colonists who had ties to warlords elsewhere in the Shrike Abyssal.

Additional information:

Orbital Distance	1.6 AU
Orbital Period	2.3 Earth Years
Radius	4,145 km
Day Length	19.2 Earth Hours
Atm. Pressure	1.19 atm
Surface Temp	-24 °C
Surface Gravity	1.15 *g*
Satellites	N/A

Colony	
Species	Turian
Capital	Estivus Erax
Colony Founded	2021 CE
Population	13.5 million

Xerceo is the fourth planet orbiting the star Thal. It is a hydrogen-helium gas giant. Xerceo's many moons were developed along with the colonization of Altakiril. It is believed that the majority of them were military in nature, a common theme among turian colonies. Specifics are few. Altakiril's government kept its records classified.

Additional information:

Orbital Distance	5.4 AU
Orbital Period	18.1 Earth Years
Radius	74,616 km
Day Length	16.4 Earth Hours
Satellites	>2

1st asteroid belt: orbits Thal at a distance of 3 AU
2nd asteroid belt: orbits Thal at a distance of 8 AU

Urla Rast

Urla Rast is a small system with three planets.

Distance from Kyzil: 7 light-years
Distance from Thal: 9 light-years
Distance from Xe Cha: 5 light-years

Bovis Tor is the first planet orbiting the star Urla Rast. It is a terrestrial world. Named "the shining sea" in an old volus language, Bovis Tor is so named for its boiling surface rich in glowing-hot alumina flecked with dark ridges of carbon. Its thick atmosphere of nitrogen and oxygen is no indicator of life since the temperature are simply too high.

Additional information:

Orbital Distance	0.7 AU
Orbital Period	0.6 Earth Years
Radius	7,307 km
Day Length	33.5 Earth Hours
Atm. Pressure	8.39 atm
Surface Temp	253 °C
Surface Gravity	1.6 *g*
Satellites	N/A

Talis Fia is the second planet orbiting the star Urla Rast. It is a planet capable of supporting life - if that life happens to breathe ammonia. Discovered by asari explorers, the planet was used as a bargaining chip by the Citadel Council, who quickly drafted a colonization agreement with its wealthy client race, the

volus. The Council would fund the volus colonization effort in return for massive trade benefits. With uncharacteristic enthusiasm, an enormous volus influx ensued, and the Council reaped the economic benefits for a dozen years before the colonization bubble burst. Today the economic good times of Talis Fia are long gone, and modern volus businesses are cutthroat operations. Piracy is a grave threat to shipping, as well-armed criminals see the volus as easy prey.

Additional information:

Orbital Distance	1.6 AU
Orbital Period	2.0 Earth Years
Radius	7,550 km
Day Length	33.8 Earth Hours
Atm. Pressure	6.15 atm
Surface Temp	−25 °C
Surface Gravity	1.7 *g*
Satellites	N/A

Colony	
Species	Volus
Capital	Usra Dao
Colony Founded	385 CE
Population	3.8 billion

Doz Atab is the second planet orbiting the star Urla Rast. An ice giant, Doz Atab ("sky warden") has a bluish tinge from its hydrogen-methane atmosphere. Its axial tilt causes its season to vary wildly in temperature.

Additional information:

Orbital Distance	3.1 AU
Orbital Period	5.5 Earth Years
Radius	47,428 km
Day Length	10.3 Earth Hours
Satellites	N/A

Xe Cha

Xe Cha is a medium system with four planets.
Distance from Kyzil: 4 light-years
Distance from Thal: 5 light-years
Distance from Urla Rast: 5 light-years

Mass Relay: Orbits the star Xe Cha at a distance of 8 AU

Fuel Depot: Xe Cha has a fuel depot orbiting Vem Osca.

Zada Ban is the first planet orbiting the star Xe Cha. It is a large dense terrestrial world named for a volus god of punishment. Its crust is rich in uranium, eroded by winds to create large radioactive dust storms across its surface. The volus of Talis Fia have explored the planet thoroughly with space probes and telepresent robo-mining machines and discovered they are not the first to exploit the planet. Plastics from a mining station approximately 50,000 years old can be found near the planet's equator. Curiously, the mines nearby were not tapped out of uranium ore; they were instead abandoned at the height of their operation.

Additional information:

Orbital Distance	0.7 AU
Orbital Period	0.9 Earth Years
Radius	7,594 km
Day Length	70.0 Earth Hours
Atm. Pressure	0.0 atm
Surface Temp	94 °C
Surface Gravity	1.5 *g*
Satellites	N/A

Colony	
Species	Volus
Capital	None (largest station is Dolo Station)
Colony Founded	2154
Population	22,500 (in orbital stations)

Aphras is the second planet orbiting the star Xe Cha. It is a terrestrial world. A unique discovery, Aphras is a "heavenly twin" - a planet in a star system that has not one but two worlds of sufficient size to retain a nitrogen-oxygen atmosphere within the habitable life zone of its parent star. Fossil evidence shows abundant vertebrates and evidence of a sapient terrestrial avian species in its Bronze Age. However, the only trace of contemporary life on the planet is that of single-celled organisms in its seas. All else has suffered from an extinction event - a series of massive impacts that vaporized vast quantities of water and lofted dust into its atmosphere. Early theories that this event was a collision with a fragmenting asteroid have now been discounted - the impact craters were aimed directly at habitation centers.

Additional information:

Orbital Distance	1.4 AU
Orbital Period	2.0 Earth Years
Radius	4,530 km
Day Length	31.3 Earth Hours
Atm. Pressure	2.32 atm
Surface Temp	33 °C
Surface Gravity	0.7 *g*
Satellites	N/A

Tosal Nym is the third planet orbiting the star Xe Cha. It is a terrestrial world. The sister tragedy to the extinction event on Aphras, Tosal Nym was the rarest of jewels: a second garden planet within the same life zone as Aphras. Not as old as its sister planet, its fossil evidence indicates it was home to abundant invertebrate sea life. However, similar craters to those on Aphras created a dust shroud that killed 99 percent of biota on the planet. The even spacing of the craters indicates a coordinated simultaneous attack from points around the globe rather than an asteroid collision or supervolcanic scenario.

Additional information:

Orbital Distance	2.1 AU
Orbital Period	3.0 Earth Years
Radius	6,930 km
Day Length	19.8 Earth Hours
Atm. Pressure	1.86 atm
Surface Temp	18 °C
Surface Gravity	1.3 *g*
Satellites	N/A

Vem Osca is the fourth planet orbiting the star Xe Cha. A Jovian gas giant, Vem Osca ("weeping witness" in Iperian Volus) is a low-density hydrogen-helium planet with over 35 moons. Later this year, 33 of the moons will be visible from the planet's surface, an event that will be recorded by space probes from all over the galaxy.

Additional information:

Orbital Distance	**4**.6 AU
Orbital Period	9.9 Earth Years
Radius	64,826 km
Day Length	11.9 Earth Hours
Satellites	> 35

Titan Nebula

A nebula near the edge of the galaxy.

Titan Nebula has only one known star systems: the Haskins system.

Haskins

Haskins is a small system with one planet. Haskins is a gateway system; however, unlike most other gateway systems, this system has no fuel depot.

Mass Relay: Orbits the star Haskins at a distance of 6 AU

Capek is the first planet orbiting the star Dholen. Baked in the fierce heat of a white sun, Capek is a rocky waterless world wrapped in a haze of hydrogen and ethane. Sulfur and iron give yellowish and black tinges to much of the planet's surface. No registered settlements appear in the records, though there are clearly metallic anomalies that indicate roofed structures.

Additional information:

Orbital Distance	4.4 AU
Orbital Period	7.1 Earth Years
Radius	5,899 km
Day Length	18.7 Earth Hours
Atm. Pressure	0.95 atm
Surface Temp	65 °C
Surface Gravity	0.8 *g*
Satellites	N/A

Batarian Space

When the Batarians isolated themselves and closed down their embasy at the Citadel, right after the Council refused to help in their struggle against Humanity, they also retreated to their core worlds and abandoned all exploration efforts in what was once systems part of the Traverse and Inner Council Space but had now been granted to the Human Alliance. The humans moved in quickly, seasing clusters and creating colonies in rich worlds, while the batarians were forced to stay with only a small portion of space and available resources. Officially, Batarian space doesn't even exist, since the Human Alliance has actually made claims – accepted by the Citadel Council – on planets in the Kite's Nest, the Batarian's home system. This, of course, is a cause for great anger and the proud Batarian Hegemony spares no rage when it comes to accuse the Human Alliance from theft. To avoid another all-out war, the Human Alliance doesn't enforce the claims on Batarian controlled territory, but they are slowly moving and expanding much to the dismay, despair and anger of the Batarian people.

Ever since they isolated themselves, Batarian Space has only dwingled and though conflicts between the two factions are rare, they are in a permanent "Cold War" state. All-out conflict is inevitable but despite the attempts from fanatics and radicals, such conflict is not predicted to occur in the immediate future.

Kite's Nest

Kite's Nest is the batarian home cluster. It contains the batarian homeworld Khar'shan, situated in the Harsa system.

Kite's Nest has four known known star systems: the Harsa system, the Indris system, the Untrel system and the Vular system.

The batarians are receptive to any traveler with the ship associated with the humans or the Human Alliance. Those are usually taken or destroyed on sight.

This cluster's Mass Relay is located in the Harsa system.

Harsa

Harsa is a medium system with five planets and an asteroid belt. It is the batarian home system.

Mass Relay: Orbits the star Harsa at a distance of 25AU

Dezda is the first planet orbiting the star Harsa. A dwarf planet, Dezda was explored in the beginnings of the batarian space age and mined for its unusual occurrences of uranium, which was rare on Khar'shan. Whether the planet has been completely mined out is unclear – accurate data on the planet was lost after a power struggle within the batarian government. The Reaper attack has further worsened the information flow.

Additional information:

Orbital Distance	0.8 AU
Orbital Period	0.7 Earth Years
Radius	1,528 km
Day Length	68.6 Earth Hours
Atm. Pressure	16.28 atm
Surface Temp	322 °C
Surface Gravity	.28 *g*
Satellites	N/A

Khar'shan is the second planet orbiting the star Harsa. It is a terrestrial world. The batarian homeworld, is wrapped less in mystery than in outright lies. Batarian propaganda claims the world has 15 billion inhabitants and an economy that rivals the asari. Although the legal slave trade does boost the batarians' profits somewhat, Citadel sanctions have left a paper tiger of an empire, one that fights rivals through deniable terrorist actions rather than the wars of its heyday centuries ago.

Additional information:

Orbital Distance	1.45 AU
Orbital Period	1.7 Earth Years
Radius	5,222 km
Day Length	18.5 Earth Hours
Atm. Pressure	0.62 atm
Surface Temp	33 °C
Surface Gravity	0.96 *g*
Satellites	N/A

Homeworld	
Species	Batarian

Verush is the third planet orbiting the star Harsa. It is a hydrogen-helium gas giant named for an ancient batarian monarch whose empire spanned continents. He had such a penchant for mating that 0.6 percent of modern batarians claim to trace their lineage to him.

The planet's moons are named after his many recognized wives. The largest, Bira, concealed Prothean ruins that helped the batarians develop FTL travel. It is a batarian point of pride that, since the ruins were damaged by earthquakes, they had less information to go on than other spacefaring species.

Additional information:

Orbital Distance	5.4 AU
Orbital Period	12.6 Earth Years
Radius	53,150 km
Day Length	11.4 Earth Hours
Satellites	>1

Ilem is the fourth planet orbiting the star Harsa. It is a tiny rock and ice planet that is now missing much of its ice. Ilem was part of a grand project by a Hegemony dictator known as Grebosht the Mad. His aim was to drop enormous chunks of

Ilem's ice on the surfaces of otherwise uninhabitable desert planets in the hopes of creating sustainable lakes and seas. Wiser heads than he pointed out that diverting a comet was more plausible, but Grebosht executed those who disagreed with him. Grebosht's career was surprisingly long given his loose grip on reality, mostly because his projects employed large numbers of batarians.

Additional information:

Orbital Distance	11.3 AU
Orbital Period	38.1 Earth Years
Radius	2,179 km
Day Length	42.9 Earth Hours
Atm. Pressure	Trace
Surface Temp	-176 °C
Surface Gravity	0.06 *g*
Satellites	N/A

Spekilas is the fifth planet orbiting the star Harsa. It is a relatively large rock and ice planet known for its deposits of magnetically active periclase, which interferes with some starship scans. Conspiracy theories and pulp adventure claim that secret fortresses are concealed under the ice.

Additional information:

Orbital Distance	21 AU
Orbital Period	96.5 Earth Years
Radius	7,594 km
Day Length	49.9 Earth Hours
Atm. Pressure	Trace
Surface Temp	-194 °C
Surface Gravity	1.18 *g*
Satellites	N/A

1st asteroid belt: orbits Bahak at a distance of 3 AU

Indris

Indris is a medium system with five planets.

Cholis is the first planet orbiting the star Indris. It is a large rock planet wreathed in a haze of carbon dioxide and xenon. It was discovered by batarian astronomers during the last century and first visited in the 2150s by Hegemony survey teams. A small number of colonists lived in aerostat habitats above its oppressive cloud layer, harvesting carbon dioxide.

Additional information:

Orbital Distance	0.7 AU
Orbital Period	0.7 Earth Years
Radius	9,813 km
Day Length	8.1 Earth Hours
Atm. Pressure	103.93 atm
Surface Temp	494 °C
Surface Gravity	1.35 *g*
Satellites	N/A

Colony	
Species	Batarian

Camala is the second planet orbiting the star Indris. It is a relatively small but eezo-rich garden world recently colonized by the batarians. In an unusually open gesture, the batarians allowed immigration of free citizens of other species, so long as they came from independent colony planets such as those in the Traverse and Terminus and retained non-citizen status during their stay. These strictures were small obstacles compared to the economic lure of eezo, and soon the planet boasted spaceports and refineries that considerably enriched the Hegemony. The planet enjoyed relative peace and prosperity, with the major lifestyle inconvenience being fresh water shortages due to a dry climate.

Additional information:

Orbital Distance	1.4 AU
Orbital Period	1.9 Earth Years
Radius	4,866 km
Day Length	18.1 Earth Hours
Atm. Pressure	1.85 atm
Surface Temp	38 °C
Surface Gravity	0.924 *g*
Satellites	N/A

Colony	
Species	Batarian
Capital	Ujon
Colony Founded	2154 CE
Population	2,875,000

Ramlat is the third planet orbiting the star Indris. It is a small rock planet with a thin atmosphere of hydrogen and ethane. During the rush to exploit Camala for eezo and other minerals, Ramlat supported a small but steadily-growing population. Since the system was bereft of a significant asteroid belt, Ramlat became the go-to location for second-tier miners looking for work

Additional information:

Orbital Distance	2.5 AU
Orbital Period	4.4 Earth Years
Radius	4,526 km
Day Length	62.9 Earth Hours
Atm. Pressure	Trace
Surface Temp	−113 °C
Surface Gravity	0.71 *g*
Satellites	N/A

Colony	
Species	Batarian

Hiba is the fourth planet orbiting the star Indris. It is an hydrogen-helium gas giant with an unstable orbit, which over time has led to it clearing the space around it of asteroids and protoplanetary material. As a result, its rings are thick and quite visible.

Additional information:

Orbital Distance	5.1 AU
Orbital Period	12.9 Earth Years
Radius	58.278 km
Day Length	16.9 Earth Hours
Satellites	N/A

Maklan is the fifth planet orbiting the star Indris. It is the outermost planet of the Indris system, a ball of rock and ice with a methane-argon atmosphere. Like Hiba, it has an unstable orbit, but where Hiba is believed to have formed closer to the star and gradually moved outward, Maklan is believed to have formed further from Indris and moved inward. Far in the future, Maklan may become a satellite of its gas giant neighbor.

Additional information:

Orbital Distance	9.3 AU
Orbital Period	31.8 Earth Years
Radius	3,763 km
Day Length	38.1 Earth Hours
Atm. Pressure	2.71 atm

Surface Temp	-127 °C
Surface Gravity	0.55 *g*
Satellites	N/A

Kaver Station was a large station that orbited Hiba. Alliance intelligence reports the station was tasked with arming and refueling ships to repel pirates, slave revolts, and foreign invasion.

Untrel

Untrel is a medium system with four planets and an asteroid belt.

Fuel Depot: Untril as fuel depots orbiting Uza.

Ezkas is the first planet orbiting the star Untrel. It is a terrestrial world. According to batarian propaganda, the batarian population exceeds the Council races, the batarian military is the most powerful, and the batarians' unlivable hothouse planets are the hottest and most unlivable. Their best proof of this last point is Ezka, which closely orbits the scorching yellow-white star Untrel. Ezka's nitrogen-heavy atmosphere might once have held oxygen, but if so, it burned off long ago. Even robo-miners don't care for Ezka--although some modern mining equipment can withstand the heat, the machinery still gets stuck in the soup of molten light metals on the planet's surface.

Additional information:

Orbital Distance	1.2 AU
Orbital Period	1 Earth Year
Radius	6,372 km
Day Length	30 Earth Hours
Atm. Pressure	78.43 atm
Surface Temp	1,144 °C
Surface Gravity	1.33 *g*
Satellites	N/A

Klos is the second planet orbiting the star Untrel. It is a rock planet with almost no atmosphere to speak of. Consequently, the planet retains fairly little heat considering how close it orbits to an energetic star. The relatively mild temperature made Klos attractive for robo-mining, with an emphasis on platinum. the planet also has an abundance of sodium oxide, used in the manufacture of lye, but profit margins on that compound are thin by comparison.

Additional information:

Orbital Distance	2.3 AU
Orbital Period	2.7 Earth Years
Radius	10,116 km
Day Length	64.3 Earth Hours
Atm. Pressure	Trace
Surface Temp	88 °C
Surface Gravity	1.26 *g*
Satellites	N/A

Adek is the third planet orbiting the star Untrel. It is a brutally hot and wet garden world, covered with molds and lichen analogues. It has many viruses and bacteria lethal to batarian physiology. The hegemony colonized Adek early in its expansion, but few of the colonists wanted to stay. The result was domination by a class of landed slave-owners. A small cadre of well-paid engineers and skilled laborers kept the planet's mechs and infrastructure functioning.

Additional information:

Orbital Distance	4.5 AU
Orbital Period	7.3 Earth Years
Radius	5,075 km
Day Length	58 Earth Hours
Atm. Pressure	0.45 atm
Surface Temp	60 °C
Surface Gravity	0.78 *g*
Satellites	N/A

Colony	
Species	Batarian
Population	>6 million

Uza is the fourth planet orbiting the star Untrel. It is a methane-rich gas giant.

Additional information:

Orbital Distance	18 AU
Orbital Period	58.7 Earth Years
Radius	37,445 km
Day Length	14 Earth Hours
Satellites	N/A

1st asteroid belt: orbits Uza at a distance of 7 AU

Vular

Vular is a small system with three planets and three asteroid belts.

Erszbat is the first planet orbiting the star Vular. It is a terrestrial world. It is also a wealthy batarian colony, rich in farmland, minerals and manufacturing infrastructure. Little recent information about it has escaped this section of space – but radio traffic from the planet paints a dire picture.

Additional information:

Orbital Distance	0.9 AU
Orbital Period	1 Earth Year
Radius	4,187 km
Day Length	59 Earth Hours
Atm. Pressure	1.37 atm
Surface Temp	41 °C
Surface Gravity	0.76 *g*
Satellites	N/A

Colony	
Species	Batarian

Azimir is the second planet orbiting the star Vular. It is a hydrogen-helium gas giant whose gravitational pull perturbs the orbit of two nearby asteroid fields, adding momentum so that asteroids shatter during collisions rather than accrete into planets.

Additional information:

Orbital Distance	3.6 AU
Orbital Period	6.2 Earth Years
Radius	53,592 km
Day Length	15.5 Earth Hours
Satellites	N/A

Vana is the thrid planet orbiting the star Vular. It is a large terrestrial planet. Vana is covered in prodigious amounts of dry ice, leaving only thin traces of gas for its atmosphere. Uranium deposits drew batarian miners to Vana long ago, and when that was exhausted, they moved on to its magnesium.

Additional information:

Orbital Distance	13.3 AU
Orbital Period	44.4 Earth Years
Radius	10,925 km
Day Length	41.4 Earth Hours
Atm. Pressure	Trace
Surface Temp	-192 °C
Surface Gravity	1.39 *g*
Satellites	N/A

Colony	
Species	Batarian

1st asteroid belt: orbits Vular at a distance of 0.35 AU
2nd asteroid belt: orbits Vular at a distance of 8 AU
3rd asteroid belt: orbits Vular at a distance of 16 AU

Viper Nebula

A nebula near the edge of the galaxy colonized and explored by the Batarians.

Though the map doesn't show, the Viper Nebula has a connection with the Mass Relay in Kite's Nest.

The batarians are receptive to any traveler with the ship associated with the humans or the Human Alliance. Those are usually taken or destroyed on sight.

Viper Nebula has only one known star systems: the Bahak system.

Bahak

Bahak is a medium system with five planets and an asteroid belt. It was later discovered, in the prelude to the War with the Reapers, that the relay in the Bahak system – formely called Alpha Relay – could be used programed to extend its reach as far as to the Serpent Nebula and thus acted like a backdoor to the Citadel. The Batarian Hegemony has long been aware of Alpha's capabilities, but has covered them up to avoid retaliation by other races who would view the relay as a direct threat to their territories.

The Relay was destroyed by Commander Shepard to slow down the Reaper invasion in 2186, by forcing a huge asteroid into the Relay. The explosion had the same yield as a supernova and thus obliterated the entire system.

Mass Relay: Orbits the star Bahak at a distance of 12 AU

Fuel Depot: Bahak has a fuel depot orbiting Urmola, but that is restricted for ships of the Hegemony, and another one orbiting Bastzuda, which can be used by any ship allowed into the system.

Clogon is the first planet orbiting the star Bahak. A hothouse planet with a thick atmosphere of methane and ethane, Clogon has been left relatively untouched by the Batarian Hegemony. As with many batarian planets, spy satellites circle it, watching for pirates or other enemies of the state who come by the planet to discharge their ships' drive cores.

Additional information:

Orbital Distance	0.6 AU
Orbital Period	0.5 Earth Years
Radius	2,621 km
Day Length	20.8 Earth Hours
Atm. Pressure	14.65 atm
Surface Temp	382 °C
Surface Gravity	0.12 *g*
Satellites	N/A

Aratoht is the second planet orbiting the star Bahak. It is a terrestrial garden world. "Like Mount Everest inside an oven," was how Jon Grissom characterized Aratoht while on an Alliance fact-finding mission to see if the garden world was worth contestation with the batarians. His team ultimately decided that the planet's air pressure and oxygen content were too low for large-scale human habitation, ending a year-long political battle with the batarians and the Citadel Council's Committee on Habitable Worlds. Since then, the Batarian Hegemony has quietly colonized the planet's polar regions, where the heat is manageable due to heavy rainfall.

"Nothing is impossible," says the Hegemony propaganda poster that depicts a muscular batarian miner under an Aratoht sky, his rebreather held away from his face as if he's just taken it off. The image sums up millions of man-hours of labor on the batarian planet and represents (or misrepresents) much of its history. Two decades ago, Aratoht, like several planets in the Skyllian Verge, was claimed by both human and batarian governments, but the Alliance backed out after learning about the atmosphere's dangerously low pressure and oxygen levels. Instead, they concentrated their colonial efforts on planets that could support human life without the aid of domed habitats and rebreathers. Human governments saw it as a wise move; batarians saw it as cowardly.

The batarians rose to the colonization challenge, shipping in large numbers of laborers. They took the high financial costs and casualties due to accidents or logistical snafus in stride. Large-scale dumping of cyanobacteria has increased the oxygen in the atmosphere by a fraction of one percent, a modest increase that the Hegemony trumpets as a sign of their eventual victory. Short-term profits on Aratoht are largely made in the minerals sector through mining the extremely metal-rich planetary crust. The dark side to the mining does not appear on the propaganda poster -- the majority of laborers are indentured servants or slaves.

Information on the colony itself is restricted by the Hegemony's Department of Information Control, but a few facts are known. A large-scale operation to increase the oxygen content of the planet is under way: skilled workers constantly dump cyanobacteria into the oceans and seed the habitable zone with invasive plant species. Slave labor is largely reserved for the planet's extensive mining industry, which takes advantage of the high-density planet's rich lodes of ferrous and heavy metals. Alliance intelligence has also confirmed that the colony is home to several batarian military installations, a threatening sign for a planet this close to Earth's local cluster and the Exodus Relay. Its infrastructure includes many satellites and several space stations. Human merchant ships rarely come to the planet, outcompeted by local companies that benefit from heavy economic protections. The average Aratoht citizen only sees humans on the news, usually featured in stories of trials and executions of accused spies.

Additional information:

Orbital Distance	1.15 AU
Orbital Period	1.2 Earth Years
Radius	4,757 km
Day Length	20.0 Earth Hours
Atm. Pressure	0.57 atm
Surface Temp	55 °C
Surface Gravity	0.71 *g*
Satellites	N/A

Colony	
Species	Batarian

Capital	Ectah
Colony Founded	2162 CE
Population	Estimated 90,000 (free) 215,000 (other)

Yunaca is the third planet orbiting the star Bahak. It is a tiny rock planet and its is a thin sheen of carbon dioxide and carbon monoxide. Yunaca has abundant metals, but Hegemony protectionism makes mining on Aratoht more profitable for batarian corporations. A few aging spy satellites circle it, watching for unlicensed mining operations.

Additional information:

Orbital Distance	2.4 AU
Orbital Period	3.7 Earth Years
Radius	1,769 km
Day Length	63.5 Earth Hours
Atm. Pressure	Trace
Surface Temp	-67 °C
Surface Gravity	0.1 *g*
Satellites	N/A

Urmola is the fourth planet orbiting the star Bahak. It is a hydrogen-helium gas giant. Urmola is home to infrastructure that generates both helium-3 and antiprotons. Both sources of fuel are restricted to Hegemony ships, forcing merchant vessels to dock at Bastzuda to refuel before their journey. A sizeable naval station is stationed at Urmola, its ships guarding the installations from enemies without and within. As with other planets in the system, spy satellites are ubiquitous.

Additional information:

Orbital Distance	4.3 AU
Orbital Period	8.8 Earth Years
Radius	71,610 km
Day Length	13.7 Earth Hours
Satellites	N/A

Bastzuda is the fifth planet orbiting the star Bahak. It is a hydrogen-helium gas giant. Bastzuda is home to infrastructure that gathers helium-3 as well as military space stations that supply and protect the resource. Spy satellites are in abundance here, watching for undesirables entering the system or fugitives fleeing it.

Additional information:

Orbital Distance	8.9 AU
Orbital Period	26.6 Earth Years
Radius	65,015 km
Day Length	13.1 Earth Hours
Satellites	N/A

1st asteroid belt: orbits Bahak at a distance of 10.7 AU

Geth Space

When the Geth defeated the quarians during the Geth War, forcing their creators to abandon their homeworld and wander the galaxy in the Migrant Fleet, the geth isolated themselves behind the Perseus Veil. Because of the veil's natural characteristics, no one could scan the system to determine what the geth were doing behind it.

For the Council races that was the last they heard from the Geth. For the races in the Terminus Systems, the Geth threat was real and not merely a bogeyman hiding behind a nebula. The Far Rim system is completely under the control of the Geth and the Phoenix Massing, despite being colonized by organics, has seen geth activity since it lies too close both the Perseus Veil and the Far Rim.

The Geth Space is the region of space few dare venture because of possible encounters with the synthetic race. The Phoenix Massing cluster resides within Geth Space, despite having colonies of organics, which means geth incursions are common in the cluster.

Far Rim

The Far Rim is generally considered the beginning of "geth space".

Far Rim has two known star systems: the Dholen system, and the Ma-at system.

This cluster's Mass Relay is located in the Dholen system.

Dholen

Dholen is a small system with three planets and an asteroid belt.

Dholen is maturing into a red giant. As the star matures, the system experiences magnetic eruptions and increased solar output. This is a gateway system, although it has no fuel depot.

Travel Advisory: Dholen is in geth space. All civilian traffic is prohibited.

Distance from Ma-at: 12 light-years

Mass Relay: Orbits the star Dholen at a distance of 8 AU

Gotha is the first planet orbiting the star Dholen. It is a small terrestrial world. It has a pressure-cooker atmosphere that brings its surface temperature to a scorching level. Carbon dioxide and ethane are plentiful in the planet's hazy atmosphere.

There has been speculation in the mining community about whether all of the precious metals were mined by the quarians before they fled the system some three centuries ago. Rumors abound that anyone who could brave the geth in the system could find lodes of naturally occurring diamonds on Gotha, but this is likely just a starship legend.

Additional information:

Orbital Distance	1.5 AU
Orbital Period	1.8 Earth Years
Radius	1,056 km
Day Length	66.4 Earth Hours
Atm. Pressure	99.64 atm
Surface Temp	590 °C
Surface Gravity	0.1 *g*
Satellites	N/A

Charoum is the second planet orbiting the star Dholen. It is a small gas giant. Once a starship refueling station for the quarians, Charoum has expanded under geth rule. Thousands of orbital platforms surround the planet and its many moons, refining helium into helium-3. A vast geth fleet comes and goes between Charoum and Haestrom, preventing all but the most stealthy of spy drones from discovering any information about it. Current estimates place the geth fleet numbers between 5,000 and 10,000 ships, with unknown levels of armament.

Additional information:

Orbital Distance	2.9 AU
Orbital Period	4.9 Earth Years
Radius	54,532 km
Day Length	11.3 Earth Hours
Satellites	> 1

Colony	
Species	Geth
Capital	None
Colony Founded	1895 (occupation)
Population	250,000-500,000 platforms

Haestrom is the third planet orbiting the star Dholen. It is a terrestrial world. Formerly a quarian colony, Haestrom was established to observe the phenomena on Dholen. The star appeared to be unstable, with a high possibility of erupting prematurely into a red giant.

Haestrom was lost to the geth in 1896 CE. Soon after, all communication from the planet and its attendant space stations ceased. The geth have shown no signs of treating Dholen as a threat over the past three centuries, other than establishing several space stations near it. Dholen's magnetic eruptions and solar output overwhelm most communications near it, and it is unclear how the geth have compensated.

Today spy probe scans indicate extensive orbital construction around Haestrom, housing thousands of geth platforms and an unknown number of geth software "minds". It is not known how many geth are on the planet's surface: Spy probes face interference from Dholen, making remote scanning difficult. Resource estimates based on geth mining, refining, and fabricating procedures suggest that the planet has at least 20 more years of use before it is exhausted. Intelligence experts speculate that the geth have not exploited all of their resources because they wish to keep some in reserve for repairs.

Captured geth planetary survey data indicates that despite sustaining damage, Haestrom's architecture remains as it was before the war, preserving a quarian architectural style that no longer exists anywhere else in the galaxy.

Because Haestrom's sun has overwhelmed the planet's protective magnetosphere, humans foolhardy enough to venture into geth-controlled Haestrom must exercise extreme caution. Minutes of radiation exposure will overload shields and hours of exposure will kill. Furthermore, solar output renders surface-to-orbit communication nearly impossible.

Additional information:

Orbital Distance	6.3 AU
Orbital Period	15.8 Earth Years
Radius	6,721 km
Day Length	18.5 Earth Hours
Atm. Pressure	N/A
Surface Temp	44 °C
Surface Gravity	1.2 *g*
Satellites	N/A

1st asteroid belt: orbits Dholen at a distance of 1.9 AU

Ma-at

Dholen is a small system with one planet. It is named for the goddess of truth and justice in the ancient Egyptian pantheon.

Travel Advisory: Ma-at is in geth space. All civilian traffic is prohibited.

Distance from Dholen: 12 light-years

Ammut is the only planet orbiting the star Ma-at. It is an enormous hydrogen-helium gas giant with a mass approximately nine times that of Jupiter and nearly 2,900 times that of Earth. Despite massive pressure its core has failed to ignite in a fusion reaction, qualifying it as a failed star. It is believed to have captured all other planet-sized bodies in the solar system as moons or in impact events leading to its name, which means "Devourer". Unintimidated by this phenomena, the geth have colonized many of Ammut's moons and skim the hydrogen from Ammut's upper atmosphere.

Additional information:

Orbital Distance	102.1 AU
Orbital Period	1,036.0 Earth Years
Radius	92,430 km
Day Length	12.2 Earth Hours
Satellites	> 1

Colony	
Species	Geth

Perseus Veil

The Perseus Veil is a huge nebula of opaque gas and dust that separates geth space from the Terminus Systems. After the Geth War with the quarians, the geth isolated themselves behind the Veil, far from the eyes of organic races. The Veil is almost impossible to scan through or navigate, meaning no one knows exactly what the geth are doing beyond it. Exploring near the Perseus Veil is exceptionally dangerous, but some risk it because there are sometimes rich salvage pickings nearby. The Perseus Veil takes its name from the Perseus Arm of the Milky Way.

Perseus Veil has only one known star systems: the Tikkun sytem.

Tikkun

Tikkun is a medium system with four planets and an asteroid belt. The word "tikkun" means "a fix" or "correction" in Hebrew. It is often used as part of the Hebrew phrase "*tikkun olam*" that means "healing and restoring the world".

Travel Advisory: Tikkun is the heart of geth space. All civilian traffic is prohibited.

Mass Relay: Orbits the star Tikkun at a distance of 9 AU

Rannoch is the first planet orbiting the star Tikkun. It is a terrestrial world slightly similar to Earth. It was the Quarian homeworld before they were forced into exile after the Geth War.

Although its orange sun is only about 90% the mass of Sol and half as luminous, Rannoch is arid by Earth standards because it formed closer to its star and has slightly less ocean coverage. Photosynthetic life is concentrated around rivers and oceans, with large expanses of desert in between. The importance of plant life and shade in ancient quarian culture is evident in the translation of Rannoch's name -- "walled garden.

To a starship's sensors, the most obvious feature of the quarian homeworld is the numerous heat sources in orbit. Thousands of geth space stations watch over the planet.

Rannoch has no insect life. As a result, its pollinating plants evolved to rely on animals for propagation. This symbiosis between flora and fauna is responsible for the quarians' weakened immune systems, which made colonization of other planets extremely difficult after their exile from Rannoch. For many quarians, reclaiming their homeworld from the geth is a matter of both cultural and physiological necessity.

Additional information:

Orbital Distance	0.72 AU
Orbital Period	0.64 Earth Years
Radius	6,021 km
Day Length	32.3 Earth Hours
Atm. Pressure	0.93 atm
Surface Temp	48 °C

Surface Gravity	0.89 *g*
Satellites	1

Homeworld	
Species	Quarian
Population	Unknown. Quarian estimates on the number of geth range from the tens of millions to the single-digit billions. Estimates on the number of geth consciousnesses stored in servers are far higher.

Uriyag is the second planet orbiting the star Tikkun. It is a rock large enough to qualify as a binary dwarf planet. Its companion, Etiel, is believed to have split off from the main body after an oblique impact. Both were heavily mined early in the age of quarian space exploration. Curiously, the geth have built over the old quarian space stations, even though the mined-out asteroids have little obvious use. The current theory is that they provide a staging base to exploit other asteroids in the belt.

Additional information:

Orbital Distance	1.1 AU
Orbital Period	1.3 Earth Years
Radius	1,440 km
Day Length	23.9 Earth Hours
Atm. Pressure	Trace
Surface Temp	-33 °C
Surface Gravity	0.165 *g*
Satellites	N/A

Adas is the third planet orbiting the star Tikkun. It is a volcanic active small terrestrial world. Adas is warmer than Rannoch despite being further from its sun. Volcanic activity spews methane into Adas's atmosphere, and this haze retains heat in a greenhouse effect. Historically, the quarians used the geth to mine the planet, and when the geth rebelled, the small quarian population on and around Adas was quickly overrun.

Additional information:

Orbital Distance	2.1 AU
Orbital Period	3.4 Earth Years
Radius	4,145 km
Day Length	18 Earth Hours
Atm. Pressure	3.87 atm
Surface Temp	73 °C
Surface Gravity	.57 *g*
Satellites	N/A

Kaddi is the fourth planet orbiting the star Tikkun. It is a large terrestrial world. It has low gravity for a planet of its size, which proved a significant boon to early quarian explorers. Even before the discovery of mass-effect technology, it was easy to extract Kaddi's resources. When the quarians made first contact with the Citadel species and gained access to eezo, profits rose and the orbital stations became a beehive of activity.

Additional information:

Orbital Distance	4.3 AU
Orbital Period	10 Earth Years
Radius	11,690 km
Day Length	21 Earth Hours
Atm. Pressure	Trace
Surface Temp	-93 °C
Surface Gravity	1.9 *g*
Satellites	N/A

Haza is the fifth planet orbiting the star Tikkun. It is an ice giant composed primarily of hydrogen and helium, is colored a striking aquamarine because of small concentrations of methane, water ice, and ammonia. Its relatively small size is a curiosity to human astronomers, who would have expected a larger hydrogen-helium giant to have accreted during the solar system's formation.

Additional information:

Orbital Distance	7.8 AU
Orbital Period	23 Earth Years
Radius	17,918 km
Day Length	11.6 Earth Hours
Satellites	N/A

1st asteroid belt: orbits Tikkun at a distance of 1.1 AU

The Phoenix Massing

The Phoenix Massing nebula is a gold and blue nebula located near the Perseus Veil. Geth activity in the nearby Veil is high, and thus the nebula is very dangerous.

The Phoenix Massing has four known star systems: the Chomos system, the Salahiel system, the Tassrah system and the Typhon system. In 2185 Commander Shepard discovers a large Geth Space Station in a place between stars, later named The Sea of Storms.

This cluster's Mass Relay is located in the Tassrah system.

Chomos

Chomos is a small system with two planets.

Travel Advisory: Chomos is in geth space. Geth incursions are common so civilian traffic should be avoided.

Distance from Salahiel: 10 light-years
Distance from Tassrah: 10 light-years
Distance from Typhon: 15 light-years

Trigestis is the first planet orbiting the star Chomos. It is a gas giant, named for the first salarian astronomer to predict planets' occumences mathematically rather than through direct observation. It has a faint ring system and three moons: Sidacha, Norem, and Bestia. High-altitude clouds can be seen casting shadows on Trigestis' lower atmosphere and ammonia give it a azure color. The planet is believed to be an extrasolar capture.

Additional information:

Orbital Distance	0.9 AU
Orbital Period	0.9 Earth Years
Radius	59,051 km
Day Length	16.0 Earth Hours
Satellites	3

Lattesh is the second planet orbiting the star Chomos. It is a terrestrial world. Lattesh translated from a salarian dialect as "it's a still winter," has an almost habitable temperature and abundant water but shows no signs of life. Regular supervolcanic eruptions in the southern hemisphere have shrouded the sun and led to a climate even more bone-chilling than usual.

Additional information:

Orbital Distance	2.2 AU
Orbital Period	5.2 Earth Years
Radius	5,500 km
Day Length	35.7 Earth Hours
Atm. Pressure	1.3 atm
Surface Temp	N/A
Surface Gravity	0.7 *g*
Satellites	N/A

Salahiel

Salahiel is a small system with one planet.

Travel Advisory: Salahiel is in geth space. Geth incursions are common so civilian traffic should be avoided.

Distance from Chomos: 10 light-years
Distance from Tassrah: 8.3 light-years
Distance from Typhon: 5 light-years

Ekuna is the only planet orbiting the star Salahiel. It is a large terrestrial world. First discovered by the quarians at the turn of the century, Ekuna is habitable but a second-tier choice for most species. Circling an orange sun, Ekuna averages below freezing temperatures. This led development firms to colonize at the planet's equator, where the climate is tolerable for agriculture.

The quarians, seeking a homeworld of their own, petitioned the Citadel Council for the right to take over Ekuna, but they had already settled a few hundred thousand quarians on the planet before approaching the Council. Seeing this occupation as an illegal act, the Council turned a deaf ear to quarian pleas and gave the world to the elcor, who could withstand the high gravity of the world far better. The quarians squatting on the planet were given one galactic standard month to leave, at which point their colonies would be bombarded. The junk left behind by the fleeing quarians clogs up portions of the landscape to this day.

Non-elcor visitors to Ekuna are advised to use personal or vehicular mass effect fields to lighten the pressure, as the surface gravity will otherwise cause health and mechanical problems.

Additional information:

Orbital Distance	1.6 AU
Orbital Period	2.3 Earth Years
Radius	10,206 km
Day Length	36.4 Earth Hours
Atm. Pressure	1.4 atm
Surface Temp	−37 °C (equator mean temperature 15 °C)
Surface Gravity	4.1 *g*
Satellites	N/A

	Colony
Species	Elcor
Capital	Bel Shadii (elcor: Durawunafon)
Colony Founded	2103
Population	221,256,200

Tassrah

Chomos is a small system with three planets.

Travel Advisory: Chomos is in geth space. Geth incursions are common so civilian traffic should be avoided.

Distance from Chomos: 10 light-years
Distance from Salahiel: 8.3 light-years
Distance from Typhon: 12 light-years

Mass Relay: Orbits the star Tassrah at a distance of 5 AU

Fuel Depot: Tassrah has a fuel depot orbiting at a distance of 3 AU

Pahhur is the first planet orbiting the star Tassrah. By normal standards a large rock planet, Pahhur (which means "fiery") is constantly scorched by the white bright giant it orbits. A dense atmosphere featuring hydrogen, helium, and clouds of vaporized magnesium floats over its iron-rich core, making for a truly hellish landscape. Its spectular temperature prevents any practical exploitation.

Additional information:

Orbital Distance	0.6 AU
Orbital Period	0.4 Earth Years
Radius	10,650 km
Day Length	46.0 Earth Hours
Atm. Pressure	90.59 atm
Surface Temp	1,445 °C
Surface Gravity	4.6 *g*
Satellites	N/A

Sarapai is the second planet orbiting the star Tassrah. It is a terrestrial world. Its pressure-cooker atmosphere of carbon dioxide and ethane serves as a greenhouse to an already boiling-hot surface. Cobalt compounds are frequently found on its crust, giving spectacular blue tinges to its land. Scans from orbital probes indicates its crust contains deposits of platinum likely to be as unexploited as those on its sister planet Pahhur.

Additional information:

Orbital Distance	1.7 AU
Orbital Period	1.7 Earth Years
Radius	6,016 km
Day Length	60.8 Earth Hours
Atm. Pressure	118.08 atm
Surface Temp	1,271 °C
Surface Gravity	0.9 *g*
Satellites	N/A

Ishassara is the third planet orbiting the star Tassrah. It is a gas giant composed mostly of hydrogen and nitrogen. Its orbit in recent years has taken it close to the mass relay in this system, making it a popular stop for "scoop ships" to refuel the hydrogen in their thrusters before moving on.

Additional information:

Orbital Distance	3.8 AU
Orbital Period	5.7 Earth Years
Radius	62,769 km
Day Length	14.0 Earth Hours
Satellites	N/A

Typhon

Typhon is a medium system with four planets.

Travel Advisory: Chomos is in geth space. Geth incursions are common so civilian traffic should be avoided.

Distance from Chomos: 15 light-years
Distance from Salahiel: 5 light-years
Distance from Tassrah: 12 light-years

Echidna is the first planet orbiting the star Typhon. A so-called "hot Neptune" planet, Echidna rapidly orbits the star Typhon at a nose to nose distance much like a pegasid, or "hot Jupiter." Also like the pegasids, it is believed to have formed further out and gradually migrated to its present position. Its core is higher in rock content than Sol's Neptune, the consequence of attracting asteroids and other debris as it journeyed through its solar system.

Additional information:

Orbital Distance	0.2 AU
Orbital Period	0.1 Earth Years
Radius	23,307 km
Day Length	14.7 Earth Hours
Satellites	N/A

Aite is the second planet orbiting the star Typhon. It is an Earth-like world with a variety of habitable land ranging from deserts to jungles to tundra. It also possesses faint rings, an unusual feature for a non-giant planet. The rings contain rocks up to a meter in length and a wide dust cloud that stretches nearly 23,000 km from the center of the planet.

"Two beautiful moons, one spectacular ring, zero neighbors," says a popular advertisement for this Terminus Systems world. Aite is known for its sparsely settled population despite being a garden planet with a colony nearly a century old. Blessed with a mild climate, wildlife no more dangerous than that on Earth, and soil and bacteria amenable to imported plants, Aite would appear to be an unexploited paradise.

However, it is unpopular for two reasons. The first and most obvious is that its moon, Litae, is in an unstable orbit that will lead to a planetary impact and an extinction-level event within the next two centuries. As such, all investment in the planet is short-term, and the biggest business is selling off the local biota to the highest bidder.

The second drawback is the level of violence on the planet. Like the rest of the Phoenix Massing cluster, Aite was briefly considered part of Citadel space during its first wave of colonization. However, when the colony broke off to become an independent planet in 2133, the Council let the doomed planet go with less than a day of debate. Free from any real governing body, Aite's history has since been filled with wars between small frontier-town city-states over its resources. The result is a dangerous world where the average citizen in expected to be self-reliant to the point of fending for themselves against cutthroat corporations, strong-arm militia groups, and even geth incursions. The fighting is so frequent that the name of the planet itself has changed more than eleven times. In a sign of blunt indifference, standard Citadel galaxy maps refer to the world by the name given to it by human colonists in the latter half of the century.

Additional information:

Orbital Distance	1.4 AU
Orbital Period	1.7 Earth Years
Radius	5,941 km
Day Length	24.9 Earth Hours
Atm. Pressure	0.6 atm
Surface Temp	20 °C
Surface Gravity	0.88 *g*
Satellites	2

Colony	
Capital	Adrasteia (disputed)
Colony Founded	2104 CE
Population	1,540,000

Moros is the third planet orbiting the star Typhon. It is a small rock planet with a thin nitrogen and carbon monoxide atmosphere. Each city-state of Aite claims the rights to exploit the planet for its heavy metal deposits; individual city-state governments maintain three small habitats on Moros, as far away from one another as possible. Nevertheless, the planet's wars have extended here, and the habitats infrequently send commando teams to assault each other in small-unit actions.

Travel Advisory: The inhabitants of Moros have set large numbers of antipersonnel and antivehicular mines at common choke points across the planet. Records of the mines' locations are extremely unreliable. Civilian travel is not advised.

Additional information:

Orbital Distance	2.9 AU
Orbital Period	4.9 Earth Years
Radius	4,025 km
Day Length	60.7 Earth Hours
Atm. Pressure	0.16 atm
Surface Temp	−73 °C
Surface Gravity	0.35 *g*
Satellites	N/A

Colony	
Capital	None
Colony Founded	2150
Population	27,800

Ponos is the fourth planet orbiting the star Typhon. It is a typical hydrogen-helium gas giant. Its once vital helium-3 refining machinery in orbit around the planet was destroyed in one of Aite's many wars, and Aite's extraplanetary trade suffered severely as a result. The dictators of Aite are not pleased with this situation, but they consider it a bad strategic move to be the first to start work on a refinery before eliminating any chance of other nations (or planets) seizing it.

Additional information:

Orbital Distance	5.8 AU
Orbital Period	14.0 Earth Years
Radius	69,740 km
Day Length	14.4 Earth Hours
Satellites	N/A