Acqo, main sequence Class M, Class G

Close binary (2.0 AU)

1 billion years

Previous Defence Type Three

1.5 AU: Enamela: Terran, temperate, Class 3 G4/R3/A4/P4/H4, axial tilt: major (29°), day length: average (23 hours), oceans (sparse), climate: turbulent, landforms: varied
Shoreline rocks bear hard crusts of vivid colours where the fluid pools have lapped and splashed across them.
Abandoned space station (was CL 1)
System encounter: Derelict, debris, ruin or artifact (was CL 2)

Rival collecting stations destroyed each other over the riches of Enamela's sizzling lakes. Both show extensive battle damage from cruiser-grade beams and on-board gun battles. A surviving corvette and working vessels fled the system.

Alxfic's Star, main sequence Class M, Class K

Close binary (15 AU)
4 billion years
System debris: Navigation-*system astrogation* or System Operation-*sensors* to avoid possible hazard

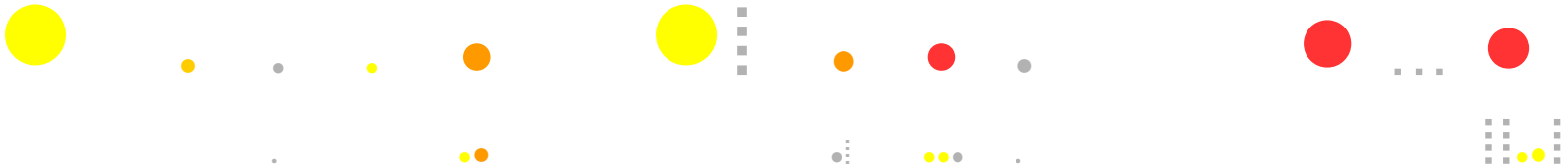
Defence Type Three

Alxfic Prime:
0.3 AU: Ring system

1.0 AU: Jeremiah: Super-Terran, temperate, 3 moons: Small, Small, Tiny
Class 1 G2/R1/A2/P3/H1, axial tilt: average (25°), day length: very long (54 hours), ocean (moderate), climate: calm, landforms: rugged, Series I life (simple)
Third world (independent (1), CL 6 (3.6 billion), LL 4), type 2 superport, drivespace comm relay
Species: Human (95%), mechalus (5%), Allegiance: Independent (90%), Orlamu (5%), Dell (5%), Language: Old Earth Swahili
A fertile planet was settled by an early voyage, almost an epic of its time, of a colony fleet launched from Earth's Indo-African League, joined by emigrants from the world of Dell in the Elyfaa system, bearing some resemblance to Jeremiah, and mechalus from an early contact.
Besides a language barrier, others in the sector express a mixture of exasperation and envy as they perceive unambitious people gifted this pleasant environment. Jeremiah focuses its trade and diplomacy on holdings to trailing.
space station (The Freehold: independent (2), CL 3 (50,500), LL 3), type 3 baseport
Species: Human (100%), Allegiance: Independent (90%), mechalus (10%)
In a form of governance a little unusual for humanity, the station forms a contracted, legally independent possession of a corporation on Jeremiah's surface.

Alxfic's Star:
Flares: each 240 days for 20 hours, increase R value by 1
Pre-stellar astronomers recognised periodic changes in the smaller star's output.
0.3 AU: Hills Belt: Asteroid belt, holding (Hillfolk: independent (3), CL 1 (845), LL 2), type 5 padport
Species: Human
A scattering of adherents of an exiled psionic teacher are losing the capacity to travel beyond the orbit of their asteroids.

Amaka, main sequence 2 x Class G, Class M



5 billion years
Distant binary (75 AU) G6, G9
Distant (475 AU) M7
Amaka forms, in some senses, a gateway to Sector Q; from long-settled regions with a different history to rimward. The workforce transplanted to the system by the Terran Empire named stars and worlds after a legend of heroes with their companion beasts, entangled in the whims of the inscrutable and alien Juggler of Fate. Over momentous events, most of their story has prevailed.

Defence Type Four

Dexter:
0.7 AU: Kons: Terran, hot, Class 3 G1/R3/A3/P1/H5, strong synchronisation, climate: violent, landforms: rugged, failed colony, space station (Standfast, independent, CL 2 (9,400), LL 2), type 3 baseport
Species: Human (90%), mechalus (10%)
Allegiance: Independent (60%), Empyrio (10%), Orlamu (10%), Rigunmor (20%)
Legend tells of a sturdy fighter, whose memory the station inhabitants honour more through their own traditions derived from those of spacehands.

1.5 AU: Arbra: Sub-Terran, temperate, 1 moon: Tiny
Class 4 G1/R4/A0/P0/H0, axial tilt: average (21°), day length: average (19 hours), landforms: rugged

2.0 AU: Anucha: Sub-Terran, temperate, Class 2 G1/R1/A2/P2/H3, axial tilt: average (22°), day length: long (50 hours), oceans (abundant), climate: violent, landforms: perilous, Series I lifeforms (simple)
Right Side Up, permanent colony (independent, CL 2 (6,900), LL 3), space station (CL 1), type 3 baseport
Species: Human (90%), t'sa (10%)
Allegiance: Kroot (40%) (Scarfaced Killers, Laughing Killers), independent (60%)
One of the more bizarre religious practices of the sector has had an early effect on the settlement, contributing to a strain of mocking humour that raises disquiet and annoyance among the stolid populace of Tanso.

3.0 AU: Wheru: Gas giant, small, Class 3 G4/R1/A1/P4/H0, axial tilt: average (24°), 10 moons: Sub-Terran, Small, Tiny, Tiny, Tiny, Small, Tiny, Small, Small, Terran
The gas giant takes its name from a divine-agent of the Juggler and adept of the ribbonblade.

i: Chusko: Sub-Terran Class 2 G1/R2/A1/P1/H0, oceans (moderate), climate: turbulent, landforms: rugged, nonhuman ruins (CL 2)

A former settlement, believed composed of the now-extinct Telekeli species, seems to have made themselves more comfortable in this environment than would be the case for humans.

x: Vi-yortha: Terran Class 3 G1/R2/A3/P1/H0, climate: active, landforms: varied, Series IV lifeforms (simple)

Sinister:
Surveys have established a strong possibility that at least two planets of the second star formed in distant outer orbits before being drawn into a closer association.
0.3 AU: Ring system

3.0 AU: Morica: Super-Terran, cold, 5 moons: Sub-Terran, Ring system, Tiny, Tiny, Tiny
Class 3 G4/R1/A3/P4/H0, axial tilt: extreme (46°), day length: very long (41 hours), climate: violent, landforms: rugged, Series II lifeforms (simple)
Permanent colony (Galactic Concord, CL 4 (3,050,000), LL 4), type 2 superport, drivespace comm relay
Species: Human (90%), human mutant (5%), t'sa (5%)
Allegiance: Galactic Concord (40%), independent (45%), Nariac (10%), Orion (5%)
Morica's political climate since the Second Galactic War has been tense, following a knife-edge vote to join the Concord decided only by swing ballots of a considerable part of the expatriate population, very likely influenced by complicated national grievances from the other side of the Stellar Ring.

i: Koyortha: Sub-Terran Class 4 G1/R3/A0/P0/H0, landforms: perilous

5.0 AU: Nebru: Gas giant, small, axial tilt: extreme (70°), 11 moons: Small, Sub-Terran, Sub-Terran, Small, Small, Small, Sub-Terran, Small, Tiny, Small, Small
Class 5 G5/R3/A1/P5/H0

ii: Falbo: Sub-Terran Class 2 G2/R1/A2/P3/H0, oceans (complete), climate: violent, landforms: perilous, Series I lifeforms (3 billion years, simple)

iii: Tanso: Sub-Terran Class 2 G2/R1/A1/P2/H0, climate: active, landforms: perilous

Third world (independent, CL 5 (380 million), LL 3), type 2 superport

Species: Human (100%)

Allegiance: Independent (95%), Solar (5%)

The settlement named after a hero's pet has increased steadily over time, with an almost extreme stability of governmental and social arrangements, simply scaling up to larger population numbers. Its resource directorate operates a flotilla of driveships to maintain the flow of extracted minerals over the distance to Amaka's tertiary star.

vii: Chotha: Sub-Terran Class 4 G1/R3/A0/P0/H0, landforms: rugged

10.0 AU: Gromb: Terran, cold, 1 moon: Tiny
Class 4 G1/R3/A0/P0/H0, axial tilt: extreme (57°), landforms: varied

Gripper:
Unpredictable flares: increase R values by 1
0.1 AU: Asteroid belt, nonhuman ruins (CL 2)
The non-human settlers of Chusko seem to have operated a mining system not unlike that of Tanso and Manko today. Their objective remains unclear, possibly having depleted any workable deposits of whatever minerals they sought.

2.0 AU: Ieyelu (EYE-uh-loo): Gas giant, large, 20 moons: Tiny, Tiny, Small, Small, Small, Small, Tiny, Ring system, Tiny, Tiny, Tiny, Small, Tiny, Small, Ring system, Sub-Terran, Terran, Small, Ring system, Tiny
Class 5 G5/R3/A1/P5/H0, axial tilt: average (20°)

xvi: Manko: Sub-Terran Class 2 G1/R2/A1/P1/H0, climate: violent, landforms: rugged, mining colony (Tanso, CL 2 (23,500), LL 2), type 3 baseport

Species: Human (90%), human mutant (10%)

Allegiance: Independent (80%), Orlamu (20%)

The mining colony mostly holds loyal to the conservative culture of Tanso, though an outside religious current has taken hold.

xvii: Yortha: Terran Class 2 G3/R1/A1/P4/H1, climate: active, landforms: varied, Series I lifeforms (4 billion years, complex), Series II lifeforms (3 billion years, simple)

Floating, multilimbed, constantly hungry and aggressive predators of the small moon have given rise to a somewhat convincing mimic species that explodes (as an incendiary grenade) in response to hasty attacks, driving its spores into wounded victims.

Amato 20, main sequence 2 x Class M, Class K

Very close binary (non-contact) M, M
Distant (1000 AU) K
System age: 1 billion years

Defence Type Three

Amato 20A:
0.3 AU: Ring system

0.7 AU: Bilious: Super-Terran, hot: Class 5 G4/R1/A4/P5/H5, axial tilt: average (16°), day length: average (28 hours), landforms: smooth

1.0 AU: Taupe: Sub-Terran, temperate: Class 1 G2/R1/A2/P3/H2, axial tilt: major (30°), day length: average (22 hours), climate: active, landforms: smooth, Series I lifeforms (simple)
Primitive as they are, the organisms that formed the dust-coloured dunes across Taupe's surface have shown disquieting abilities to attack ceramics and alloys and to spread between orbits to the noticeably similar environment of the next-outermost planet.

1.5 AU: Mottle: Super-Terran, temperate, 4 moons: Ring system, Small (Heedless), Tiny (Bitten), Small (Berryripe)
Class 1 G2/R1/A2/P3/H2, axial tilt: average (20°), day length: average (30 hours), oceans (moderate), climate: active, landforms: rugged, Series I lifeforms (simple)
military base (independent, CL 2 (18,000), LL 2), abandoned space station, type 5 padport, destroyer (grounded)
Species: human (80%), t'sa (20%)
Allegiance: independent (80%), Empyrio (20%)
Retreating from their attempts to develop a trading post, the security cadre of a former corporate venture have been reduced to constant defence against destructive lifeforms to retain their most essential technology.

15 AU: Polevol: Terran, cold, 4 moons: Tiny, Small, Tiny, Small
Class 2 G3/R1/A1/P4/H1, axial tilt: major (32°), day length: short (8 hours), oceans (abundant), climate: violent, landforms: varied
permanent colony (Hatire, CL 4 (7,800,000), LL 3), type 4 miniport, defence network
Species: human (85%), human mutant (10%), t'sa (Austrin: 5%)
Allegiance: independent (Dell) (15%), vorsian (10%), Hatire (40%), independent (25%), Orlamu (5%), Austrin (5%)
A diverse group departed from Elyfaa under the influence of Hatire converts to seek a way of life closer to harmony with their environment. They have become just a little smug at the difficulties of unbelievers on the inner worlds.

Avipzonec 75, main sequence 3 x Class M

System age: 3 billion years
Close binary (0.4 AU)
Distant (405 AU)

A small shrine, co-located with the system's navigation beacon, broadcasts a call for donations, accepting electronic payments.

Axswa 47, main sequence 2 x Class M, Class K

Close binary (0.2 AU) M, M
Distant (60 AU) K

1 billion years

With nuclear processes still evolving from their formation, the stars of Axswa 47, many millions of years from now, will shine with greater luminosity and considerably different hues.

Baez, main sequence Class K and Class F

System age: 4 billion years
Close binary (15 AU)

The warm and active primary draws towards the end of its main sequence existence, beginning to shade towards orange, vibrate and expand.

Bhlot 3, brown dwarf, main sequence Class M

Close binary (orbit 7, 0.2 AU)

10 billion years
System debris

Defence Type Four

System encounter: space station (Thuldan, CL 2 (5,200), LL 4), type 3 baseport
Species: Human (90%), orvite (10%)
Allegiance: Independent (40%), Thuldan (40%), Empyrio (10%), orvite (10%)

Among jagged icy planetisimals, kept from forming a larger body by recurring orbital perturbances, the heavily armed Limit Station keeps watch on this region of Open Space for the nation that regards itself as guarantor of the Stellar Ring's security. The Empire keeps a formal alliance with an arthropod species who take an interest in some of the movements into the sector, as well as ongoing cooperation with the leading commercial power of Gisele, but local loyalties almost tie the Thuldan legate's hands on many issues.

Blqalp 2, white dwarf

○

5 billion years

Three ships of Medium grade but dissimilar design from this and neighbouring sectors have met in a neutral location. They might represent

- leaders of Ulfrenz (Foqw) and atheist factions of Vipergulf (Noy Noy) discussing some form of cooperation with another group
- mutants of Ulfrenz seeking arranged marriages to sustain their genotype, in a preference that might have implications for human evolution
- or perhaps it's a siren battle.

If the heroes avoid ongoing involvement in this situation and later return to Blqalp 2, roll 1 in 20 chance for a random starship encounter.

Bux, main sequence Class M

System age: 5 billion years

Defence Type One

0.1 AU: Yellowflint: Terran, temperate, 4 moons: Tiny, Tiny, Tiny, Small
Class 3 G1/R2/A3/P2/H1, weak synchronisation, ocean (sparse), climate: violent, landforms: perilous
space station (independent, CL 3 (97,000), LL 3), type 3 baseport, 3 escorts
Language: Rigunmor
Species: human (90%), t'sa (10%)
Allegiance: independent (90%), Rigunmor (10%)
The mercantile city-station of Peak van Rijn orbits at leisure above acid storms and knife-like spires.

0.4 AU: Furfold: Terran, cold, 4 moons: 4 x Tiny
Class 2 G3/R1/A1/P4/H1, axial tilt: average (21°), day length: very long (36 hours), ocean (moderate), climate: calm, landforms: varied
permanent colony (independent, CL 2 (5,800), LL 1), type 5 padport, 2 armed transports
Species: human (80%), human mutant (20%)
Allegiance: independent (80%), Thuldan (mutant: 10%), Solar (10%)
With few days of strong winds, the vagaries of sun and mist form fantastical ice-sculptures. Feuding clans of settlers roam the snow-lands, divided famously into the Pure and the Fit, though substantial numbers hold no allegiance to either coalition.

Cecee 39, black dwarf and brown dwarf

Close binary (15 AU)

1.5 AU: Pacifique: Gas giant, small Class 5 G5/R3/A1/P5/H0 10 moons: Small, Small, Small, Sub-Terran, Small, Tiny, Ring system, Tiny, Small, Small
Any ambient light picks out a mid-blue, almost featureless globe of slowly circulating gases.

iv: Mariana: Sub-Terran, Class 4 G1/R3/A0/P0/H0. Mining colony, CL 1, LL 1. Human (mutant) 100%

A relatively dense object rich in iron, nickel, chromium and tin, even under the light of an active primary, Mariana would probably look mostly dark grey. A large reactor, smelter and rolling mill tower over the habitat with visible glowing exhaust stacks, supporting shipments of good-quality sheet steel, girders and wire. The settlement also formulates and trades explosives for mining and specialist uses.

The mutant population migrated in a mass away from increasing dislike and disadvantage at Ybim's Star, developing a town charter and municipal government of their own from the parent colony's example, though in a small population these formalities have mostly fallen into abeyance.

Ckuihqn 12, main sequence Class M and white dwarf

Very close binary (contact)

A devolved star has drawn its smaller companion close, drawing out a complex curving trace of gases that heats through orange shades to a blazing yellow point of contact.

Cqems 32, main sequence Class K

4 billion years
A noticeably tranquil course of planetary evolution with retention and development of dense atmospheres has formed several possibly hospitable worlds.

0.3 AU: Thjalfi, Sub-Terran, hot, 1 moon: Tiny
Class 1 G2/R1/A2/P4/H4, strong synchronisation, oceans (moderate), climate: violent, landforms: varied
Clouded with raging tornados and downpours, communications across Thjalfi use mass transceivers only due to constant electrical interference.
Nonhuman ruins (migrated (1), PL 7, CL 4), permanent colony (independent, CL 2 (5,400), LL 3), type 4 miniport
Species: Human (100%)
Allegiance: Independent (90%), Austrin (10%)
The settlement uses a spaceport built by a nonhuman species of former inhabitants.
A complex contractual history between the Eiluned Resettlement Program and old families of the system, particularly the Mdalmamun line, has hampered others exploiting Cqems 32's planets

0.4 AU: Roskva, Sub-Terran, hot, Class 2 G2/R2/A3/P3/H3, strong synchronisation, climate: violent, landforms: rugged, Series III life (3 billion years, simple)
Nonhuman ruins (migrated (2), PL 8, CL 5)
Spectacular, mildly corrosive terminator storms travel predictably around the planet. Sites of a chlorine-breathing former species often contain hazardous materials and occasionally salvageable examples of advanced technology.

2.0 AU: Thunar, Super-Terran, temperate, 5 moons: Tiny, Sub-Terran (Tanngrisnir), Ring system, Small (Tanngnjostr), Small (Jarngreipr)
Class 1 G2/R1/A3/P3/H2, axial tilt: mild (3°), day length: average (36 hours), oceans (abundant), climate: turbulent, landforms: perilous, Series I life (simple)
ii: Tanngrisnir, Sub-Terran Class 3 G1/R2/A4/P2/H3, climate: violent, landforms: smooth
Colourful cloud patterns mark the larger moon in the night sky above Thunar's crags and fjords, revealing on closer approach showers of sizzling fluids.

3.0 AU: Hogun, Sub-Terran, cold, 1 moon: Tiny
Class 2 G2/R1/A2/P3/H1, axial tilt: mild (1°), day length: average (32 hours), climate: violent, landforms: varied, Series I life (2 billion years, simple)

Crikn, main sequence Class M

7 billion years

0.4 AU: Irwin: Sub-Terran, cold, 2 moons: Tiny, Tiny
Class 1 G2/R1/A2/P3/H2, axial tilt: major (31°), day length: average (18 hours), oceans (complete), climate: violent, landforms: varied, Series I lifeforms (complex, extinct sentient species (CL 4, PL 4))
Underwater ruins show ingenious mechanical systems, without using metals or fire.
Capture ships bundle cunning and sharp-toothed ocean predators into transports for nearby systems where they fetch premium prices.

0.7 AU: Dusty: Gas giant, small, 6 moons: Small, Small, Terran, Small, Sub-Terran, ring system
Class 5 G5/R3/A1/P5/H0
iii: Terran, Country: Class 3 G4/R1/A3/P4/H0, oceans (abundant), climate: violent, landforms: rugged
v: Sub-Terran, Town: Class 3 G1/R2/A3/P1/H0, climate: violent, landforms: varied
Ethane cloud decks, hazes, surface flushes and temperature shifts interact in a variety of unpredictable transitions and forms.

1.5 AU: Durham: Gas giant, small, 7 moons: Small (Own), Small (Harbour), Tiny, Sub-Terran (Columbine), Tiny, Small (Pierrot), Tiny
Class 5 G5/R3/A1/P5/H0
iv: Sub-Terran, Columbine: Class 4 G1/R3/A0/P0/H0, landforms: perilous

3.0 AU: Comet belt

Csuyt, main sequence Class M, Class F

3 billion years

Very close binary (0.4 AU)

Gravitational tugging between the binary pair seems to play a role in mixing stellar atmospheres of both, stabilising their nuclear processes.

Rounding out the conflict-battered Dark Core star cluster, at present few ships have reasons to visit.

Cyarhn's Star, main sequence Class M

4 billion years

System debris: Navigation-*system astrogation* or System Operation-*sensors* to avoid near approach

Fragments around the unusually coloured Cyarhn's Star have been briefly surveyed for mineral composition but seem unlikely to be commercially viable against a degree of danger operating in the system.

Darley's Star, brown dwarf

System age: 6 billion years
Stellar flares: regular 450 day period, 10 hours duration, increase R values by 1

0.4 AU: Clay, Super-Terran, cold, 3 moons: Small, Small, Tiny
Class 2 G2/R1/A1/P2/H1, axial tilt: extreme (61°), day length: short (13 hours), ocean (abundant), climate: active, landforms: perilous, Series I lifeforms (4 billion years, simple), Series II lifeforms (6 billion years, complex, extinct sentient species (PL 1, CL 5), extinct sentient species (PL 5, CL 4))
Permanent colony (CL 2 (22,500), LL 2), Type 5 padport
Species: human (90%), human mutant (10%)
Allegiance: independent (80%), local species (10%), Lunaria (10%)
Cloud-borne microorganisms developed in isolation, but have begun to mingle with the lower biosphere in regions of oxygen fall.
Settlements of one of the former local sentient species, called Clients, shaped with two disc-shaped body masses able to rotate counter to each other to a significant degree, each set with four limbs capable of both climbing and tool-manipulation, intermingle with those of a much larger and more advanced form, known as Savants. Their apparent social relationships are not well understood, but theories of the Savants' worldview have had strong influence on a proportion of the human colonists, who have become determined to live permanently on this planet.
The Clients and Savants had no vision, but an electromagnetic field sense in their limbs, detailed enough for writing and art (viewscreens, in Savant buildings) that look like black smooth stone.
Early beliefs (quite mistaken) that the Savants might have been a colony of the Telekeli species of Gisele led mostly to an architectural influence emulating the Telekeli's massively built, curvilinear industrial structures.
The genetically engineered Claydweller community make up a percentage of the settlement, with ongoing interest whether their numbers have achieved stability or a slow increase. Members replace the lower lobe of each lung with Claydweller Booklungs that enable them to breathe the planet's atmosphere to some extent, only requiring an endurance check (*GMG*) once per hour. Inside Claydwellers' buildings and vehicles, a simple arrangement of screens and vents conditions the gas mix to make it more comfortable, allowing the mutant community to breathe indefinitely.
Unmodified humans can't survive on this composition (Atmosphere 1) and require breather masks with air supplies. Claydwellers also have Environmental Adaptation (Cold) but due to limited lung capacity in either form of atmosphere they can use, have Reduced Constitution (moderate).
Their genome is slightly unstable, giving 50% chance of another mutation of either Ordinary or Good quality and also 50% chance of another drawback of Slight to Moderate severity.

2.0 AU: Breccia, Terran, cold, 2 moons: Tiny, Tiny
Class 4 G1/R3/A0/P0/H0, axial tilt: major (30°), day length: very long (67 hours), landforms: rugged
Colonists of the inner planet have made some attempts to mine Breccia, now abandoned.

Dkjzu, main sequence Class G, Class F, Class O

Close binary (35 AU) G, F
Distant (650 AU) O
Less than one billion years
Flares each 300 days for 8 hours, increasing R values by 1

The searing inner orbit of Dkjzu's primary star traps the scorched hulk of a survey cruiser whose crew underestimated the variation in its output.

B/C
0.4 AU: Ring system

Dzat's Star, main sequence Class M

3 billion years
System gas clouds: Physical Science-*astronomy* to avoid Stun damage to spacecraft

0.1 AU: Ring system

0.2 AU: Goblin's Egg: Sub-Terran, hot, 1 moon: Tiny
Class 3 G1/R3/A3/P1/H5, tidal lock, climate: violent, landforms: perilous
Abandoned space station
A distorted, volcanically churning mass shows a ring of gritty and acidic cloud banks, shedding a dangerous rain, forming from outward-sweeping winds. More forceful eruptions throw debris into the planet's orbit, sustaining a trailing band of gases around its star.
A cleverly calculated polar orbit for a waystation, avoiding excess radiation and debris belts, has decayed and the structure now shows extensive damage from steady wear.

0.7 AU: Comet belt

Elyfaa, main sequence 2 x class F, class K, 3 x class M

Defence Type Three

Micah Jerubs' distant survey recorded Elyfaa as an F-class binary system, though later exploration turned up several companion stars. Astrographers sometimes discuss among themselves Elyfaa's Three Threes (or, to some, Four Threes) of unexpected sets of roughly similar objects, though most visitors to the system find points of more immediate interest.

Binary pair Aleph/C (0.7 AU) F0, K3
45 AU: Fall, Gas giant, small, Class 5 G5/R3/A21/P5/H0, axial tilt: mild (9°), 9 moons: Small (Magenta), Sub-Terran, Terran, Small (Reph), Ring system, Small (Columbia), Ring system, Small (Everett), Small (Meatloaf)
ii: Sub-Terran: Riff, Class 3 G1/R2/A3/P1/H0, climate: violent, landforms: varied
iii: Terran: Raff, Class 1 G2/R1/A2/P3/H2, climate: turbulent, landforms: smooth, Series I life (simple), nonhuman ruins (Locker, CL 2, PL 8), holding/resort CL 2, LL 3, Type 4 miniport
Messenger Enterprise's retreat headquarters offers undisturbed conditions for planning and staff development, set off by slim high-arching relics of a former civilisation.

50 AU: Gall, Gas giant, small, Class 5 G5/R3/A21/P5/H0, axial tilt: major (31°), 4 moons: Tiny, Tiny, Tiny, Small. Abandoned space station (Messenger, mothballed)

55 AU: Sall, Gas giant, small, Class 5 G5/R3/A21/P5/H0, axial tilt: major (28°), 11 moons: Small (Pock), Sub-Terran, Sub-Terran, Sub-Terran, Small, Tiny, Small, Small, Small, Tiny, Small
ii: Sub-Terran: Rock, Class 4 G1/R3/A0/P0/H0, landforms: perilous
iii: Sub-Terran: Lock, Class 2 G2/R1/A1/P2/H1, ocean (sparse), climate: violent, landforms: varied, Series I life (complex), extinct sentient species: Lockers (CL 4, PL 8)
The sentients of the moon humans call Lock seem to have gained advanced science and elegant artistry without very energetic expansion, unless as suspected they were responsible for a number of other installations around Sector Q; .
iv: Sub-Terran: Stock, Class 2 G1/R2/A1/P1/H0, ocean (moderate), climate: turbulent, landforms: varied, Series II life (simple)

425 AU: Binary pair D/E (0.7 AU) M0, M6

935 AU: Binary pair Beth/F (10 AU) F5, M8
1.0 AU: Bartia, Super-Terran, temperate: Class 1 G2/R1/A2/P3/H2, axial tilt: major (26°), day length: very long (63 hours), ocean (abundant), climate: calm, landforms: rugged, Series I life (simple), mining colony (External Vorsian and Krovan , CL 4 (116,000 vorsians (20%), 464,000 krovans (80%)), LL 3), abandoned space station (vorsian, disused), Type 3 baseport
A settlement of an advanced and peaceful photosynthetic species seems to consist mostly of administrators and hobbyists, but exports large quantities of minerals.
Led by an adventurous aristocrat, krovan yeoman workers relish the profits of their coastal mining operation.

1.5 AU: Maxon, Super-Terran, temperate, 2 moons: Small, Ring system
Class 1 G2/R1/A2/P3/H2, axial tilt: average (19°), day length: short (7 hours), ocean (abundant), climate: turbulent, landforms: smooth, Series I life (simple), permanent colony (CL 4 (637,500 vorsians (85%), 112,500 krovans (15%)), LL 5), Type 3 baseport, drivespace comm relay
A growing commonwealth colony of the Vorsian Democracy includes a hidden krovan enclave, built within artificial vaults as the planet's landforms rarely develop conditions suitable for the subterranean species. Construction of a warp gate for the system is under consideration.

2.0 AU: Dell, Super-Terran, temperate: Class 1 G2/R1/A2/P3/H2, axial tilt: average (20°), day length: long (39 hours), ocean (abundant), climate: turbulent, landforms: smooth, Series I life (simple), permanent colony (Dell Federation, independent, CL 4 (6.5 million), LL 5), Type 3 baseport
Species: Human (85%), fraal (5%), kewothan (10%)
Allegiance: Independent (85%), kewothan (10%), independent (Ovcew) (5%)
A constitutional union of the settlements on this pleasant world includes a group of pseudo-avian sentients and a resource-extraction enterprise in the south polar ice-cap using techniques developed on a more hostile world of a nearby system. A suite of laws restricts offworld control of real property and locally registered companies.

(F) 0.1 AU: Style, Sub-Terran, temperate, 1 moon: Tiny
Class 1 G2/R1/A2/P3/H1, weak synchronisation, ocean (moderate), climate: violent, landforms: varied, Series I life (simple), space station (CL 1, LL 4), Type 3 baseport
Messenger Enterprise formed as a trading business between neighbouring systems before reorganising according to an ethical system written by its founders. The company has learned secrets and takes care not to raise anxiety among those who might act to protect them.
Among other ventures, the enterprise offers to implant and service vorsian biomod technology, such as fire beams, swarm attacks and cell regeneration.
At the core of Fiveways Station, cargo spars of a *Guild Nova* modular freightliner were tack-welded together, a little work done to connect up pressurised access tubes and install a power and life support nodule and, as a parting gift, a high-end entertainment centre.

Enceg 7, main sequence Class K

Cruise ships starfall to Enceg 7 to show off the White Wall, a quarter of the sky displaying an uninterrupted perspective of the Semicolon and nearby nebulae.

Find encounters by a d20 roll:
1 – Cruise ship (1-3 clipper, 4-6 liner)
2 – Random spaceship encounter. Ignore on a subsequent visit
3-20 – No encounter

Euofl, main sequence Class F

Defence Type One

System age: 2 billion years
Orbital hazard: System gas clouds

0.3 AU: Ring system

0.4 AU: Gwion, Super-Terran, hot, 2 moons: Small, Tiny
Class 1 G2/R2/A2/P3/H2, weak synchronisation, climate: violent, landforms: smooth, permanent colony (independent, CL 2 (6,100), LL 2), type 3 baseport, abandoned space station, 2 escort ships
Species: human (90%), t'sa (10%)
Allegiance: independent (60%), Nivz 38 (10%), t'sa (10%), Thuldan (10%), Insight (10%)
The desert world of Gwion, while the population remains relatively small, holds a widespread reputation as a home of strong personalities. Ruled by the noble House Alexandrite, an extended family of energetic nature, the population includes a devoted t'sa cadre, experiment-loving tech-priests and human-supremacist malcontents. An aesthetic-psychological complex transported from another star system to a very different environment informs the sometimes extremist Order of Transcendent Light.

0.7 AU: Avagddu, Sub-Terran, hot, Class 2 G2/R2/A3/P3/H3, tidal lock, climate: violent, landforms: rugged, Series III lifeforms (complex, extinct sentient species (PL 0, CL 4))
Abandoned colony and space station
An attempt at settlement was unable to deal in the end with the vicious surface life. They provide an export trade, though, to several worlds within the sector that have uses for such creatures.

3.0 AU: Ceridwen, Gas giant, small, axial tilt: mild (11°), 7 moons: Small, Small, Small, Small, Tiny, Tiny, Small
Class 5 G5/R3/A1/P5/H0, space station (Gwion, CL 1 (555)), type 4 miniport
The station named Among Her Children, held for House Alexandrite by a group of Old Earth Neo-Pagans, orbits within the circuits of Ceridwen's moons.

5.0 AU: Gofannon, Sub-Terran, cold, axial tilt: extreme (77°), landforms: perilous, 1 moon: Tiny
Class 4 G1/R3/A0/P0/H0, mining colony (Gwion, CL 1 (885)), type 4 miniport
Retaining one of the more extreme pieces of evidence of planetary violence on record, Gofannon consists of two mostly separate masses along with an iron-rich foreign body wedged between them. A misty-looking band partway within the great cleft (the Wedgestroke) reads the planet's highest atmospheric density. An amalgamation of further debris orbits as a satellite.

Extraction Zone Gamma, dark nebula

10 lightyears rimward, 20 lightyears down from Gisele
Defence Type Four
Crâne-Saturne: Space station, Super-Heavy, heavy energy beam batteries, nebula defence destroyers
CL 4 (970,000), LL 6
Species: Human (85%), kewothan (5%: Empyrio), t'sa (5%: Lunaria), human mutant (5%: Lunaria)
Allegiance: Independent (Pearlesce) (15%), independent (Empyrio) (55%), independent (Lunaria) (20%), uplift (5%), Solar (5%)

The structure's off-white material and cluster of large intake ports prompted a morbid comparison to the distorted skull of an elder deity, full of dark and curdled thoughts.
Exotic technology of matter coding powers a process of non-transmutative atomic compaction that alters a feedstock into light elements, isotopes or phases, producing bulk quantities with minimal energy input and no radioactive side products.
Its production panels operate on macroscopic to non-local principles that so far have reacted to dismantling or modification by reverting to completely inert and mundane behaviour.
Moving the alien machine into place, operating it and shipping out its produce run as a joint venture of the independent colonies of the Gisele system.
Surrounding, potentially acquisitive neighbouring powers and the station's own less than serene national and political currents have ratcheted up a concern for security that some would claim to approach paranoia. Slick corporate Empyrians, folksy Lunarians and hyper-cybered bodies of the Nogbanity all feel the strain of giving up some of their comfortable distance from other ways of life. If that wasn't enough, a strain of Faithful Latter Day Saints doctrine advocating the Gaean pro-uplift agenda divides the Lunarian population.

Foqw, main sequence Class F

3 billion years
Regular flares (each 360 days for 13 hours)
The Foqw system has been asserted to bear some resemblance to a Solar System analogue, from a considerable distance.
An early holo-prospectus of the Eiluned Resettlement Program shows a golden-haired, silvery-eyed lad gazing over “Purple Frenzy”, “Fall-Colored Dream” and their various siblings.

Defence Type Four

0.3 AU: Vire, Sub-Terran, hot, Class 2 G2/R2/A3/P3/H4, strong synchronisation, climate: violent, landforms: varied

0.4 AU: Ove, Sub-Terran, hot, Class 4 G1/R3/A0/P0/H5, strong synchronisation, landforms: varied

1.0 AU: Ulfrenz, Terran, temperate, Class 1 G2/R1/A2/P4/H2, axial tilt: major (32°), day length: short (8 hours), oceans (abundant), climate: active, landforms: varied
Nonhuman ruins (CL 4, PL 4)
Permanent colony (independent, CL 3 (71,000), LL 3), type 3 baseport
Species: Human (100%)
Allegiance: Independent (70%), Rigunmor (10%), Austrin (10%), vorsian (10%)
A full local day within a work period, along with the planet's rapidly evolving weather, fosters changes in activity patterns and the inhabitants' sense of progressing time. The Ulfire Chatsites offer a popular Grid venue as an important connective element in social response. Earlier settlers of a different species may have adapted under similar influences, while losing access to space.
The corporatist colony has been obliged to build up defences in occasional unease at Falk's decision-making and reported actions of other cybernetic enclaves in the sector.

1.5 AU: Falk, Super-Terran, temperate, Class 1 G2/R1/A2/P3/H3, axial tilt: mild (1°), day length: very long (72 hours), climate: calm, landforms: varied
Permanent colony (kroot, CL 4 (1.3 million), LL 8), type 3 baseport
Species: Kroot (75%), human (25%)
An External species has taken up a radical system of cybernetic communality first developed elsewhere in the sector, forming a Nogbality of highly-converged consciousness. Three work cycles within a rotation under changeless bronze-coloured skies encourage a mind-set that some characterise as relentless and long-sighted.

5.0 AU: Marge, Gas giant, small, 9 moons: Small, Sub-Terran, Tiny, Tiny, Sub-Terran, Small, Sub-Terran, Tiny, Small
Class 5 G5/R3/A1/P5/H0, axial tilt: average (26°)
Space station (Couch, independent, CL 3 (65,000), LL 3), type 3 baseport
Species: Human (90%), human mutant (10%)
Allegiance: Independent (70%), Austrin (10%), vorsian (20%)
An outer holding of the inner system Ulfrenz colony hosts occasional debate whether its light cycle should adjust for human health.
The station hosts a branch office of Elyfaa's Messenger Enterprise.

ii: Sub-Terran, Class 3 G1/R2/A3/P1/H0, climate: violent, landforms: varied
v: Sub-Terran, Class 4 G1/R3/A0/P0/H0, landforms: rugged
vii: Tayd, Sub-Terran, Class 2 G1/R2/A1/P1/H0, climate: turbulent, landforms: perilous
The hydrocarbon-rich moon shows ruins of a former species from elsewhere in the sector.

10.0 AU: Toyl, Gas giant, small, 2 moons: Small, Tiny
Class 5 G5/R3/A1/P5/H0, axial tilt: average (27°)

20 AU: Skrim, Super-Terran, cold, 2 moons: Small, Small
Class 2 G2/R1/A1/P2/H1, axial tilt: average (27°), day length: short (15 hours), climate: violent, landforms: perilous

25 AU: Krol, Gas giant, large, 10 moons: Sub-Terran, Small, Terran, Small, Small, Tiny, Tiny, Sub-Terran, Tiny, Small
Class 5 G5/R3/A1/P5/H0, axial tilt: average (23°)

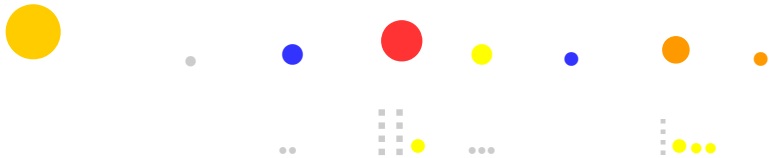
i: Sub-Terran, Class 4 G1/R3/A0/P0/H0, landforms: perilous
iii: Terran, Class 4 G1/R3/A0/P0/H0, landforms: varied
viii: Sub-Terran, Class 4 G1/R3/A0/P0/H0, landforms: varied

Fovspy, white dwarf

○

This is a remnant of a massive star that once ejected material that remains visible as the Semicolon Nebula.

Gisele, main sequence class K6



Defence Type Four

0.4 AU: Mobile: Sub-Terran, hot: Class 4 G1/R3/A0/P0/H5
An abundance of calcium and titanium makes the innermost planet dazzling white.

1.5 AU: Empyrio: Super-Terran, temperate: Class 1 G2/R1/A3/P3/H2, Ocean (moderate), axial tilt: average (17°), day length: average (28 hours), climate: active, landforms: smooth, Series I life (complex), Series III life (simple), 2 moons: Small (Chalcedon), Small (Jasper)
Second world, CL 6 (725 million), LL 5, Type 2 superport, drivespace comm relay
Aerobacteria scavenge and fix atmospheric chlorine into compounds of exotic and inoffensive scents, occasionally forming air-foams.
Empyrio's presidency supports a dynamic economy with multiple large conglomerates investing in resources, entertainment, consumer products, off-world trade and other sectors.
Cities spread across Empyrio's lake country over plascrete pontoons and causeways, supporting aqua-leaved shrubs and vines in profusion alongside clear-vaulted travelways.
Meals on Empyrio use local produce such as pseudonions, hogsnake steaks and the mockava beverage, imparting the inimitable salty and savoury empyrian taste sensation.

10 AU: Astra: Gas giant, large,Class 5 G5/R3/A1/P5/H0 11 moons: Tiny, Ring system, Small, Small, Ring system, Small, Small, Small, Tiny, Terran
Gas mine, CL 3 (83,000), LL 1, Type 4 miniport
An outlaw clan operate a ramshackle illegal mine, dividing their time between wrecking and selling hydrogen fuel to more wary customers. They have repurposed some of their mining machinery as hydrogen-powered gas-guns to discourage interference from other system governments.

xi: Rubesce: Terran, Class 2 G2/R1/A2/P3/H0, climate: turbulent, landforms: perilous
Nonhuman ruins, PL 1, CL 5
Believed to be the homeworld of a sentient species of methane-breathing, winged carnivores known as Telekeli, Rubesce presents their oldest and most extensive ruins.

15 AU: Saturneen: Super-Terran, cold, Class 2 G2/R1/A2/P4/H1, axial tilt: average (23°), day length: long 30 hours, climate: calm, landforms: varied, 6 moons: Small, Tiny, Tiny, Tiny, Small, Small
A large but mineral-poor ice world.

20 AU: Martel: Terran, cold, Class 1 G2/R1/A2/P3/H2, ocean (sparse), axial tilt: average (25°), day length: very long 50 hours, climate: turbulent, landforms: perilous, 4 moons: 4 x Tiny (Damascene, Brass, Pig-Iron, Plumbe)
The former technological enclave suffered a sudden misfortune. The inhabitants were found unresponsive, a few next to small objects, the description of which has been thoroughly redacted from all contact reports.

30 AU: Hermes: Gas giant, small, Class 3 G4/R1/A2/P4/H1, axial tilt: major (28°), climate: turbulent, 10 moons: Small (Paper), Small (Clocke), Tiny, Tiny, Ring system, Small (Faberge), Terran, Sub-Terran, Sub-Terran, Tiny
A brutal and seemingly irreconcilable confrontation may escalate encounters with two otherwise-reasonable powers (a roll of 6 on d6 indicating a Combative attitude). After an explosively violent beginning during the Second Galactic War, the conflict has bogged down. Though outnumbered and far from home, a militant Hatire faction are determined to wear down the Nogbanity and prevent expansion of its abominable practice to other systems. Pearlesce is strongly entrenched but isolated, in need of allies, resources and replacement of losses both in ships and fighting members. The collective has in the past seized both vessels and people, though also attempts to commission warships and clone bodies from Empyrio or anyone who will deal with them.

vii: Pearlesce: Terran, Class 2 G3/R1/A1/P4/H0, climate: violent, landforms: varied, Series II life (simple)
Third world, CL 5 (300 million), LL 8, Type 3 baseport
The Nogbanity of Pearlesce consists of cybernetically augmented persons, with some sense of individual identity but to a large extent merged under its guiding intelligence.

viii: Auree: Sub-Terran, Class 2 G1/R2/A1/P1/H0, Ocean (complete), climate: turbulent, landforms: rugged
A node of the Nogbanity destroyed by the Hatire.

ix: Argent: Sub-Terran, Class 2 G2/R1/A1/P2/H1, Ocean (sparse), climate: violent, landforms: rugged
Nonhuman ruins, PL 3, CL 3
Military base (Hatire) CL 3 (73,500), Type 3 baseport
The Mind Knights' Vengeance Commandery of the Silver Sign (a name increasingly used for the satellite) lead detachments of mostly non-psionic naval ratings and garrison troops. Hatire Machine Killer gridpilots work under constant scrutiny and sanction for any signs of wavering faith.
. Telekeli ruins show remains of wind-powered mechanical devices. The older beings and their transplanted Rubesce biosphere seem to have survived on this moon without major technological support, since their environments are broadly similar.

35 AU: Lunaria: Terran, cold: Class 3 G4/R1/A3/P4/H0, axial tilt: extreme (79°), day length average 24 hours, climate: violent, landforms: perilous, Series II life (simple), 1 moon: Tiny (Diamant)
Nonhuman ruins, PL 7, CL 4
Third world, CL 5 (320 million), LL 4, Type 3 baseport
The Faithful Latter Day Saints, a once-controversial division of an Old Earth religion, exert political influence in the Albertine Republic. Polygamy, polyandry and line marriages are traditional, though not universal.
Lunaria's first spaceport built upon a Telekeli site. Wind turbine arrays of Telekeli design provide ample power for extensive agricultural vaults.
The Albertine Republic trades largely with Empyrio and with neighbouring systems, notably in aquacultured fish, Earth vegetables and truffles, using relatively large and characteristic ships.

Space station (Pearlesce), CL 2 (7,600), Type 4 miniport: Nogbanity members connect to their guiding intelligence by mass transceiver datastreams.

Greener, main sequence Class F, main sequence Class A

Close binary (45 AU)

Perspicacity Base, space station (stellar nation (Galactic Concord), CL 1, LL 1, Type 4 miniport)
Nominally a detached campus of the Stellar Phenomena Institute headquartered in the Concord Prime Neutrality, this stellar physics research station in fact operates at the whims of competing academics (d4+1 leaders at any time) and their staff and student devotees.

Gshdji's Star, 3 x main sequence Class M

3 stars, close binary (0.2 AU), distant (300 AU)

The elemental composition of Gshdji's binary pair suggests an age billions of years younger than their captured companion.

Several small masses wander irregularly around and between the stellar bodies, never approaching closely enough to offer any chance of surface life or differentiated geology.

Gyutuk's Star, main sequence 2 x Class M

The kroot explorer Gyutuk “Rib-Ripper” Tark sold surveys of this location to the human colonies.
Distant binary (50 AU)
A: No planets

B: 0.2 AU: Dire Cumulus: Gas giant, small, Class 3 G4/R1/A2/P4/H0, axial tilt: extreme (61°), Series II life (simple)
5 moons: Small, Small, Small, Small, Small
The gas giant's moons orbit closely within a complex system of electrical belts, often forming plasma arcs between up to three satellites.

Hawmopu, main sequence Class M

8 billion years

This small and sedate star has been scheduled for completion of its survey by a ship visit on three occasions, but various emergencies have intervened. A low expectation of a survey fee probably continues to depress any priority to get in ahead of a fourth official attempt.

Heftx, main sequence Class B, main sequence Class G, main sequence Class M

A/C distant binary (270 AU), B (765 AU)

An intense blue star illuminates the Heftx Nebula, with primordial matter distributed unevenly to smaller companions that tint its glow with greenish and purplish tones.

Hugoa 14, main sequence Class M, Class K

Close binary (25 AU)
1 billion years

0.3 AU: Gonzo, Sub-Terran, hot, Class 3 G1/R3/A3/P1/H5, strong synchronisation, climate: turbulent, landforms: smooth
The scorching environment has been surveyed several times by interstellar institutes excited by its potential for fluorosilicone chemistry, but seems not to have developed complex examples.

0.4 AU: Big Bird, Super-Terran, hot, Class 5 G4/R1/A4/P5/H5, tidal lock, landforms: smooth
Extraordinary surface temperatures and pressures and aggressive chemistry of this densely-clouded mass pose great challenges to exploratory probes, which are not expected to pay off in detection of any likely biosphere or exploitable minerals.

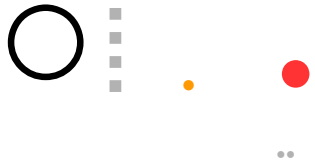
Hxae's Star, brown dwarf, main sequence Class M

3 billion years

Close binary (0.7 AU)

A Wanderer fraal circle of psionic masters demonstrated one of the more notable uses of psychometry in Stellar Ring history, describing from a physical sample multiple giant planets and chaotic alterations of separation in this now highly stable system. In turn, this result helped usher in acceptance of postcognitive evidence in scientific publications and criminal trials.

Iuwmx, main sequence class A



0.7 AU: Ring system

1.0 AU: Garrett, Sub-Terran, hot: Class 3 G1/R2/A3/P2/H4, mining colony (independent, CL 1, LL 1), Type 4 miniport
Across the isolated mining region of White Sky, below the horizon of a tidally locked world with a constant menacing glow of relentless heat above the terminator, mining habitats of up to a dozen independent workers sell their ores through a small agent's office next to a landing pad for an ageing, well-shielded ore carrier.

20 AU: Oil, Gas giant, small, Class 5 G5/R3/A1/P5/H0, 2 moons: Small, Small
The outer planet offers a navigation point and refuge for interstellar visiting ships whose captains have little appetite to venture down-well into the star's blaze.

35 AU: Comet belt

Jejq, main sequence Class F, Class F

2 billion years

Close binary (5.0 AU)

Space station (independent, CL 2 (4,700)), Type 3 baseport
Eateries of Wayside Station make their best efforts with insect and shrimp patties, carp tacos and algal starch polenta. Recent conversion of several production tanks to forced growth has noticeably worsened the quality of meals but increased the station's capacity to supply starship stores in bulk.

Kaleki, main sequence Class F, main sequence Class O

Distant binary (320 AU)

Kaleki's brillant and strange radiance adds to the play of colours within the sector.

Kaleo, main sequence Class F, Class G

Very close binary (1.0 AU)
System age: 2 billion years

Defence Type Two

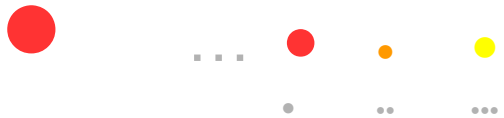
25 AU: Principal: Gas giant, large, 8 moons: Small, Small, Tiny, Small, Ring system, Small, Tiny, Tiny
Class 5 G5/R3/A1/P5/H0, axial tilt: average (25°), space station (independent: Rapscallions, CL 2 (8,100), LL 1), type 4 miniport, corvette, escort, 9 cutters
Species: Human (90%), human mutant (10%)
Allegiance: Independent (90%), zevallia (10%)
Places of worship: 8 x Orlamu, other (Mystik Krewe of Turbon), Ancientist, multifaith
The Rapscallions descend from a college of divinity separated from the society of Far Penzance. They take a substantial toll on commerce crossing the system, finding justification in their Orlamu faith to gather tribute from those ignorant of the Divine Unconscious. Turbonists wear fish masks and scale ponchos on formal occasions such as festivals and tribute-gathering.

30 AU: Ducal: Gas giant, small, 3 moons: Small, Small, Sub-Terran
Class 5 G5/R3/A1/P5/H0, axial tilt: average (22°), abandoned space station
iii: Falmouth: Sub-Terran Class 4 G1/R3/A0/P0/H0

40 AU: Landsend: Terran, cold, 3 moons: Small, Tiny, Tiny
Class 4 G1/R3/A0/P0/H0, axial tilt: average (22°), space station (independent: Far Penzance, CL 2 (8,400), LL 4), type 3 baseport, missile satellites
Species: Human (100%)
Allegiance: Independent (60%), Dreth (20%), Lunaria (10%), zevallia (10%)
The stations at Kaleo have gone through turbulent periods of considerable social unrest and hardship. Due to past events, many of the inhabitants refuse preserved or stewed meats, demand stringent certification of butchers and foster complicated customs for providing food to people who don't know each other, effectively creating a dietary restriction, supported by the long-standing multifaith chapel of Far Penzance.

50 AU: Comet belt

Kawlbi, main sequence Class M



4 billion years
Flares: Each 120 days for 7 hours, increase R values by 1

Defence Type Three

0.1 AU: Territorial Belt: Asteroid belt, mining colony (independent, CL 1 (3,800), LL 0), Type 4 miniport
Unregulated and leaderless miners prospect the asteroid belt for any deposits they can collect into their individual vessels, often ferrous ores and arsenic.

0.2 AU: Whitewater: Gas giant, small, 2 moons: Small, Sub-Terran
Class 5 G5/R3/A1/P5/H0, axial tilt: average (21°), abandoned space station
A former station has been shut down after systems failed during a stellar flare.
ii: Gelignite: Sub-Terran Class 4 G1/R3/A0/P0/H0, landforms: perilous
The moon hangs lopsided with a deeply gouged missing section.

0.7 AU: Hudson: Terran, cold, 3 moons: Small, Small, Tiny
Class 3 G4/R1/A3/P4/H0, axial tilt: extreme (82°), day length: average (30 hours), climate: turbulent, landforms: perilous, Series IV lifeforms (simple)
Hudson's surface shows encrustations of jagged debris from a barrage of massive remnants ejected from the inner system, deranging the planet's orbit and rotation.
Space station (Stockade Station, independent, CL 3 (52,500), LL 2), Type 3 baseport
Species: Human (60%), human mutant (corpoid, 10%), t'sa (20%), uplifted silicate based (10%)
Allegiance: Independent (70%), uplifted (20%). Critique (10%)
The fortified trading post has taken in a variety of migrants, including an unsanctioned t'sa cryogenic transport and a little over 10,000 people resettled from a planet to trailing in Open Space, comprising human colonists and their silicate-based companion species. An engineered mutant strain from Kovf 6 provides many of its most effective traders.

1.0 AU: Pitt: Super-Terran, cold, 5 moons: Tiny, Small, Small, Small, Tiny
Class 2 G2/R1/A2/P4/H1, axial tilt: average (26°), day length: long (56 hours), oceans (abundant), climate: turbulent, landforms: rugged
Scientific post (vorsian, CL 3 (62,500)), Type 3 baseport
The alien base seems to be a peaceful stellar observatory, but settlers of the system watch them carefully, some from claimed past experience.

Kluqkedow, main sequence Class G, Class M

Close binary (35 AU)
System age: 10 billion years
Orbital hazard: system gas clouds

Though modest in mass and mostly graceful in development, an ageing star begins to eject masses of depleted gas, in places dense enough to tint surrounding views a deeper orange.

Kovf 6, main sequence Class K and Class M

Defence Type Three

Distant binary (270AU)

Prime: Class K
System age: 2 billion years
Kovf Prime emits electromagnetic waves in a pure tone detectable across the binary pair and nearby systems.

0.4 AU: Abaris, Super-Terran, hot, 2 moons: Tiny, Tiny
Class 3 G3/R2/A4/P4/H5, strong synchronisation, climate: violent, landforms: varied, Series V life (simple)
Between scorched grey rock and sand, clumps like blue-black fur conceal a texture like slivers of glass (see the *Alien Compendium,* page 113 for deep tussocks).

0.7 AU: Archimedes, Sub-Terran, hot, Class 1 G2/R2/A2/P3/H2, axial tilt: major (32°), day length: short (13 hours), climate: turbulent, landforms: perilous
Mining colony (Nogbality, CL 3 (250,000), LL 8), space station (CL 3 (77,000)), Type 3 baseport
Members of the colony share a partly merged consciousness using cybernetic technology pioneered by the Nogbanity of Pearlesce. Isolated from regular information exchange with the Nogb, Archimedes has installed a new guiding intelligence and regards itself as a Nogbality, as opposed to a segment of the Nogbanity.

1.5 AU: Zeno, Terran, temperate, 2 moons: Small, Tiny
Class 2 G2/R1/A3/P3/H2, axial tilt: extreme (66°), day length: long (54 hours), ocean (abundant), climate: turbulent, landforms: varied, Series III life (complex, extinct sentient species (PL 2, CL 4), extinct sentient species (PL 1, CL 4), sentient species (PL 0, CL 3))
Scientific post (independent, CL 3 (77,500), LL 3), Type 4 miniport
Chlorine-breathing multicellular life has appeared on Zeno with astonishing rapidity, with an apparently high evolutionary rate soon bringing forth a first order to colonise the landmasses with, by coincidence, an already well-developed nerve stem. Three separate and apparently unrelated species have developed tools and formed complex societies on different continents, two mastering different processes of metalworking before dying out, though in other ways entirely divergent.
The Thuldan-speaking Observer Institute minimises exposure and collects data and artifacts regarding the indigenous species and their settlement

patterns for internal benefit more than a commitment to their welfare or to universal knowledge, on-selling many recovered objects that are not wanted for evidentiary purposes.

3.0 AU: Cratylus, Gas giant, small, axial tilt: average (22°), 6 moons: Sub-Terran, Terran, Tiny, Small, Terran, Tiny
Class 5 G5/R3/A1/P5/H0
The moons of Cratylus project an air of adventure to prospective human settlers, but have not proved so viable for ongoing life.

i: Sub-Terran Class 4 G1/R3/A0/P0/H0, landforms: rugged

ii: Terran Class 3 G4/R1/A1/P4/H0, climate: turbulent, landforms: smooth, nonhuman ruins (Telekeli mining colony, CL 2)

v: Terran Class 3 G1/R2/A3/P1/H0, ocean (abundant), climate: turbulent, landforms: varied, abandoned colony

Seconde: Class M
System age: 5 billion years
0.3 AU: Hegel, Gas giant, small, axial tilt: major (33°), 9 moons: Small, Small, Sub-Terran, Small, Tiny, Terran, Sub-Terran, Sub-Terran, Small
Class 5 G5/R3/A1/P5/H0

iii: Discourse, Sub-Terran Class 2 G1/R2/A1/P1/H0, climate: violent, landforms: varied, Series II life (simple), nonhuman ruins (Telekeli permanent colony, CL 2)

vi: Paradox, Terran Class 3 G4/R1/A1/P4/H0, ocean (moderate), climate: turbulent, landforms: varied

vii: Critique, Sub-Terran Class 1a G2/R1/A2/P3/H1, climate: violent, landforms: rugged, Series I life (simple), Third World (independent, CL 5 (365 million), LL 5), Type 3 baseport

Species: Human (90%), human mutant (10%)

Allegiance: Independent (70%), Austrin-Ontis (5%), Rigunmor (5%), Empyrio (Messenger) (20%)

Among storm-swept mountains sheltering valleys of simple reed-like plant forms, Critique's mercantile society presents a distinct sub-community using genetically engineered advantages (https://www.alternityrpg.net/onlineforums/index.php?showtopic=10873&view=findpost&p=322169) to attempt to get ahead in the corporate world. Corpoids are engineered mutants in a mutant community, commonly with Enhanced PER, Improved DEX, Reduced STR (slight) and Toxin Intolerance.

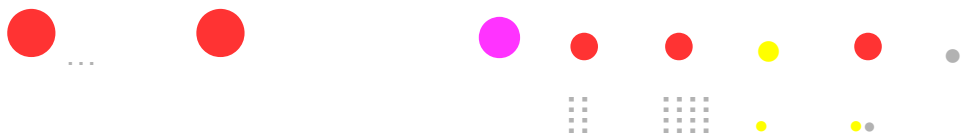
viii: Assertion, Sub-Terran Class 4 G1/R3/A0/H0/P0, landforms: varied

0.7 AU: Leibniz, Terran, cold, 2 moons: Small, Tiny
Class 3 G1/R2/A3/P1/H0, axial tilt: average (20°), day length: short (10 hours), climate: turbulent, landforms: smooth, permanent colony (Critique, CL 3 (69,000)), Type 3 baseport
The whirling outer planet remains closely integrated with Critique's economy by regular streams of in-system shipping.

Kuevf's Star, main sequence Class M

Through a series of oversights and coincidences, there has been no recorded visit of a human scout or surveyor to Kuevf's Star, nor is the system interesting enough to raise any known conspiracy theory about this circumstance.

Ladtho's Star, main sequence Class M, main sequence Class M, brown dwarf



Defence Type Two

3 stars: close binary (3 AU), distant binary (240 AU)
Described by many as a slightly outlying group of the larger Heftx system, the great blue star often sheds a stronger light than stars recognised in the system, though no heat. Planets and moons are often difficult to make out above as dim red crescents and deep shadows.

Lighting conditions				
If undefined, d6	Lighting	Visibility grade	Visibility modifier	Visibility Person / Vehicle / Terrain
1-2	blue starlight of Heftx	Moderate	+1	20/50/500m
3-4	deep red starlight or moonglow	Extreme	+3	20/50/500m
5-6	distant starlight	Extreme	+3	2/5/10m
-	artificial light (by source)	Marginal to Amazing	+0 to -3	Per lit area

Temperatures are moderated by atmospheres, if any, but broadly at Outer System levels (H0) resembling the orbit of Neptune and beyond.

A/B
0.1 AU: Asteroid belt

C: Mystery Machine
What sort of person might have come across an unexpected trove of new worlds and had the idea to call it the Mystery Machine?
The well-respected but utterly ruthless Limi Ladtho, a female t'sa Good Military Officer of Ch'Nalist orthodoxy on a mission in the pay of the Leodal States, flew the Lightning Force Scout *Shakeel*.
An outer cluster of similarly-sized planetary masses:

0.2 AU: Fred, Gas giant, small, 10 moons: Small, Small, Ring system, Tiny, Small, Small, Ring system, Small, Small, Tiny
Class 5 G5/R3/A1/P5/H0

0.3 AU: Daphne, Gas giant, small, 9 moons: Ring system, Tiny, Ring system, Small, Small, Small, Small, Ring system, Ring system
Class 5 G5/R3/A1/P5/H0
Known for spectacular A to D rings, reserved for scenic protection after few rare resources were charted.

0.7 AU: Shaggy, Super-Terran, cold, 3 moons: Tiny, Sub-Terran, Tiny
Class 2 G3/R1/A1/P4/H1, Series I life (simple), Series II life (complex)
Shaggy's forest analogues are underground networks of thick trunks generating internal heat and piping richly concentrated fluids, named thermoveins. This apex life form modifies the landscape significantly in branching patterns, producing a detectable heat from the ground, a rounded appearance and low-lying bogs of hydrocarbon slush. Thermoveins support simple chemosynthetic bacteria that can also infect circulatory systems of offworld life, in which they consume blood sugars and excrete respiratory products, inducing lethargy and a peculiar body odour.
ii: Scooby, Sub-Terran Class 2 G1/R2/A1/P1/H0, Ocean (complete), Series II life (simple), mining colony (independent, CL 4 (645,000), LL 4, Type 3 baseport, drivespace comm relay, d4-1 corporate security frigates)
Floating stations with multiple circular pads around a raised central hub, called spinners, extract chemical feedstocks and hydrogen fuel from the methane-covered surface for shipment through the Great Danish Refinery base. Major resource conglomerates have each devolved separate divisions to provide stable management to the increasing workforce of this well-established colony.

1.5 AU: Velma, Gas giant, small, 3 moons: Sub-Terran, Sub-Terran, Small
Class 5 G5/R3/A1/P5/H0
i: Jinkies, Sub-Terran Class 2 G1/R2/A1/P1/H0, Ocean (sparse), Varied terrain, permanent colony (independent, CL 3 (60,000), LL 0, Type 4 miniport)
The ice-pocked moon has gathered an enclave of unruly and eccentric groups unsuited to interstellar and corporate rule, many offering deniable services and points of exchange to visiting ships.
Increasing numbers of residents, known as Acceptors, host an engineered fungal symbiont that maintains a constant signal environment of shared emotional urges. Informal training classes within the habitat develop more extensive abilities in mediated telepathy. Militant followers of Iron Li oppose their spread. Pharmaceutical shipments by armed couriers become important to changes in society.
ii: Glasses, Sub-Terran Class 4 G1/R3/A0/P0/H0
Various observers claim to see images of heavy square-rimmed spectacles on the moon's surface as an explanation for the moon's name, but biographers of the system's pioneer scout cast doubt on this belief, unattested anywhere in the explorer's tapes.

2 AU: Scrappy, Terran, cold, 2 moons: Tiny, Tiny
Class 4 G1/R3/A0/P0/H0

Lnah, main sequence Class K

4 billion years
Flares: each 360 days for 15 hours

1.0 AU: Chaney, Super-Terran, temperate, Class 2 G3/R2/A2/P4/H1, axial tilt; average (15°), day length: very long (61 hours), oceans (complete), climate: active, landforms: varied, Series I life (complex, extinct sentient species), Reservation, Abandoned space station
The inhabitants have declared a historical preserve over remains of a former sentient species, but as time passed without outside attempts to interfere, they no longer spend resources to keep open the previous guard station.

5.0 AU: Nurmi, Gas giant, small, axial tilt: mild (9°), 3 moons: Small, Small, Sub-Terran
Class 5 G5/R3/A1/P5/H0
Space station (Abominable Base, independent, CL 3 (97,000), LL 3), type 3 baseport, 4 armed transports
Species: Human (70%), weren (10%), human mutant (20%)
Allegiance: independent (70%), uplifted (10%), Empyrio (20%)
Businesses are only too happy to put negotiating contacts off-balance with various intimidating-looking security hires who may be cannier than they let on.

iii: Rollo, Sub-Terran, Class 3 G1/R2/A3/P1/H0, climate: turbulent, landforms: rugged

10.0 AU: Karloff, Gas giant, small, axial tilt: average (24°), 6 moons: Small, Tiny, Small, Small, Small, Small
Class 5 G5/R3/A1/P5/H0, Abandoned gas mine

25 AU: Lugosi, Gas giant, large, axial tilt: average (18°), 12 moons: Ring system, Tiny, Tiny, Small, Small, Small, Tiny, Tiny, Ring system, Ring system, Tiny, Small
Class 5 G5/R3/A1/P5/H0
Bat Out of Hell gas mine (independent, CL 1 (855), LL 2, Species: Human (90%), human mutant (10%)), type 4 miniport
Gas extraction provides a lucrative line of production for Abominable Base, under a management regime that sometimes flexes its independence.

30 AU: comet belt

Maxwell's Star, main sequence Class M

5 billion years

The lonely red dwarf Maxwell's Star occasionally serves as a rally point for multi-ship expeditions into Crikn who anticipate possible attacks.

Msna, main sequence Class K, Class G

4 billion years

Close binary (3.0 AU)

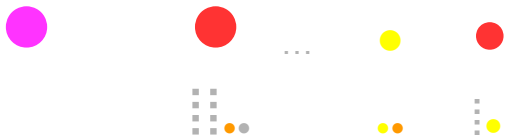
Some astronomers describe Msna's suite of planets as a semi-compact system, a condition more commonly accepted for lower-mass stars but showing orbital periods unusually restricted for Sol-like systems, believed due to anomalous inward migration of Msna Bb (Warm-Shallows-Insects-Thickly-Droning).
Defence Type Three

A:
0.7 AU: Dawn-and-Dusk-Clouds-Burn-in-Moments, Sub-Terran, hot, Class 1 G2/R1/A2/P4/H4, axial tilt: average (18°), day length: short (11 hours), climate: active, landforms: rugged
Failed colony
Pre-Venusian conditions of the system's oxygen-atmosphere world defeated all attempts at acceptable temperature regulation.

B:
0.15 AU: Warm-Shallows-Insects-Thickly-Droning, Super-Terran, hot, Class 2 G2/R2/A3/P3/H3, strong synchronisation, oceans (moderate), climate: turbulent, landforms: varied
Third world (t'sa, CL 5 (400 million), LL 5), type 3 baseport, d8 frigates
Species: T'sa (80%), human (20%)
Allegiance: Independent (55%: 45% t'sa, 10% human), t'sa (40%: 35% t'sa, 5% human), vorsian (5%, human)
Colony vessels cleared the world of its simple native life to make way for easier establishment of a Taasa native biosphere.
With memories of a long struggle to survive, loyalties to the distant homeworlds are fading. A branch of Elyfaa's Messenger Enterprise holds an influential position in business.

0.3 AU: Bright-Living-Jewels, Super-Terran, hot, 3 moons: Small, Small, Small
Class 2 G3/R1/A3/P4/H4, Series III lifeforms (simple), strong synchronisation, climate: turbulent, landforms: rugged, abandoned space station
High-minded early decisions to preserve a more charming set of surface life gave way to simple exhaustion.

Nivz 38, brown dwarf



Defence Type Two

0.2 AU: Papa: Gas giant, large, Class 5 G5/R3/A1/P5/H0, axial tilt: average (21º)
14 moons: Small, Sub-Terran, Tiny, Small, Small, Ring system, Tiny, Ring system, Small, Tiny, Tiny, Small, Sub-Terran, Small
ii: Sub-Terran, Class 3 G1/R2/A3/P1/H0, Series IV life (simple), climate: turbulent, landforms: rugged
xiii: Sub-Terran, Class 4 G1/R3/A0/P0/H0, landforms: perilous

0.3 AU: The Belt: Asteroid belt

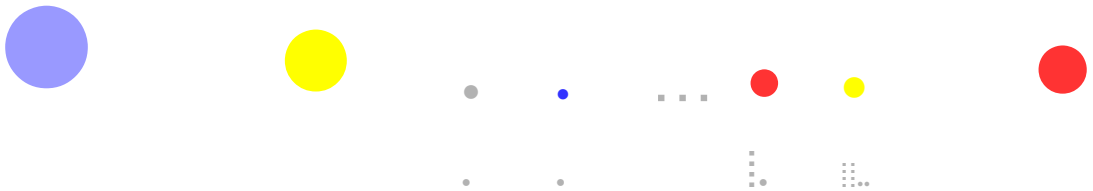
0.4 AU: Baby: Super-Terran, cold, Class 2 G3/R1/A1/P4/H1, ocean (moderate), axial tilt: extreme (62º), day length: average (28 hours), climate: active, landforms: varied, permanent colony (independent, CL 4 (540,000), LL 4, Type 3 baseport, missile satellites)
Species: Human 75%, t'sa 10%, kroot 15%
Allegiance: independent 60%, independent (Empyrio) 5%, Rigunmor 10%, External 25%
Old Earth language: Finnish
Life on Baby is conditioned by the un-sun, a brooding mass that never quite provides any heat and only enough illumination to produce shadows but not light, and by duodecim-fire, artificial electric light that, regardless of its measurable colour, citizens perceive as blueish and soulless.
A fierce quasi-avian species has brought their sometimes-disturbing culture from External space, enticing humans and t'sa as well to their War Eagle Temple and Night Hunter Temple, mixing with the influence of off-world corporate interests and luxury foods importers.
3 moons: Sub-Terran, Tiny (Spoon), Sub-Terran
i: Sit-Upon: Sub-Terran, Class 2 G2/R1/A2/P3/H1, ocean (sparse), climate: turbulent, landforms: rugged
iii: Bowl: Sub-Terran, Class 3 G1/R2/A3/P1/H0, Series IV life (simple), climate: violent, landforms: varied, holding/resort (CL 3 (135,000), LL 3, Type 4 miniport)
The inhabitants of Baby flock to the Bowl on light-trips to experience the unaccustomed sensation of natural light from the moon's bioluminescent pools.

1.0 AU: Mama: Gas giant, small, Class 5 G5/R3/A1/P5/H0, axial tilt: average (18º), 5 moons: Small, Small, Ring system, Terran, Tiny
iv: Porridge: Terran, Class 2 G2/R1/A2/P3/H1, climate: violent, landforms: perilous, failed colony
Porridge proved too harsh for a population of colonists who clung on for several decades.

Nogb's Star, brown dwarf

The brown dwarf takes its name from a prominent philosopher, discovered days before his accession as spiritual guide for his planet. The Nogb encouraged the gesture, calling it fitting he should be commemorated by a “humble mover in the dimness”.

Noy Noy, main sequence Class G, Class M, Class B



Distant binary (715 AU) G, M
Distant (840 AU) B

Less than 1 billion years
Orbital hazard: System gas clouds

The smallest component star shows signs of wandering chaotically between the primary and secondary, perhaps becoming destructive or leaving the system in the still-distant future.

Defence Type Three

Noy Noy B:
1.0 AU: Hearth: Terran, hot, 2 moons: Small, Tiny
Class 4 G1/R3/A0/P0/H5, axial tilt: mild (11°), day length: average (42 hours), landforms: rugged

1.5 AU: Vipergulf: Sub-Terran, temperate, 2 moons: Small, Tiny
Class 1 G2/R1/A2/P3/H1, axial tilt: major (28°), day length: long (40 hours), oceans (complete), climate: active, landforms: perilous, Series I lifeforms (simple)
Nonhuman ruins (PL 1, CL 5), permanent colony (independent, CL 5 (100 million), LL 3), type 3 baseport, drivespace comm relay
Species: human (100%)
Allegiance: independent (75%), Nivz 38 (15%), VoidCorp (5%), kroot (5%: Scarfaced Killers)
Clustered on volcanic crags rising sheer from the ocean, settlers have extended upon stone-built towns of a lost species, themselves not native to the planet but showing few signs of technology that would have been necessary to travel here.
A significant proportion of the population throw themselves into a savage alien creed at considerable risk to their health, opposed by an active atheist minority.

3.0 AU: Asteroid belt, nonhuman ruins (CL 3)
A species of the local sector with early interstellar technology but considerable industrial efficiency seems to have undertaken an extensive mining operation in the system.

5.0 AU: Coin-Smiter: Gas giant, small, 2 moons: Ring system, Small
Class 5 G5/R3/A1/P5/H0
The outer world was named for a legend of a thuggish and mercenary giant.

10.0 AU: Silvergift: Super-Terran, cold, 4 moons: Ring system, Ring system, Tiny, Tiny
Class 2 G2/R1/A2/P4/H1, axial tilt: average (21°), day length: average (15 hours), oceans (sparse), climate: active, landforms: rugged
The planet gained a romanticised image for its scenic beauties, often displayed decoratively in posters and holos.

Nutqyloixg 14: Brown dwarf + Brown dwarf

Close binary (3 AU)

The twin brown dwarf system of Nutqyloixg 14 attracts notice within galactic civilisation, if at all, by the supposed resemblance of the sub-stars' patterns of turbulence bands to the main characters of a children's holo series, suggested by a Grid influencer of years past.

Oaoj, main sequence Class M

12 billion years
Stellar hazard: Flares every 510 days for 12 hours
Orbital hazard: System gas clouds

0.1 AU: Terran, temperate
Metronome: Class 4 G1/R4/A0/P0/H0, axial tilt: mild (4°), day length: average (33 hours), landforms: varied

0.2 AU: Terran, cold, 1 moon: Small
Fugue: Class 3 G1/R2/A3/P1/H0, strong synchronisation, oceans (moderate), climate: violent, landforms: varied, Series IV lifeforms (10 billion years, complex)
Slowly receding seas steadily close out a final end to pockets of the planet's hyper-stable and famously radiation-resistant ecologies.
An orbiting scientific observatory has been mothballed by its sponsors in worsening economic times.

Ojska 64, Brown dwarf

The brown dwarf's gravity exerts little control over planets that measure a noticeable proportion of its mass, leaving them wandering in eccentric orbits that don't share a common plane, more akin to a multiple-star system.

Encounters approaching planets Laguna and Skerry (“Colonies and Spaceships”, d20):
1 Spaceship (scientific)
2 Spaceship (random). Ignore on subsequent visits
3-20 No encounter

0.2 AU: Gas giant, small: Laguna. Class 5 G5/R3/A1/P5/H0. 11 moons: Small, Tiny, Sub-Terran, Sub-Terran, Sub-Terran, Small, Small, Sub-Terran, Ring system, Tiny
A collection of satellites circling within a rippling, from a distance, ribbon-like Barrier Ring.
iii: Charcut. Class 4 G1/R3/A0/P0/H0
A typical small, barren satellite with uniform dark grey surface material.
iv: Oche. Class 2 G2/R1/A2/P3/H1
A light rusty colour
v: Limpide. Class 2 G2/R1/A1/P2/H1. Series I life (simple)
Station announcements urge caution in handling gear after a surface visit to grey-blue Limpide, as colonisation by the moon's micro-organisms has been known to cause strange physiological effects, such as altered time perception, sleeping patterns and food cravings.
viii: Autrance. Class 3 G1/R2/A3/P1/H0
ix: Barrier Ring

1 AU: Super-Terran, cold: Skerry. Class 2 G3/R1/A1/P4/H0. Ocean (Moderate), Series II life (simple). 3 moons: Sub-Terran, Tiny, Small
Skerry's hydrocarbon seas display spiral patterns composed of billions of feathery pastel crystal blooms formed by clusters of single-celled life.
i: Eyot. Class 3 G1/R2/A3/P1/H0
Landing on the satellite is hazardous due to toxic and insidiously penetrating hydrocarbons.

Rockpool Station (Union of Sol)
Offering typical spacer services and support for occasional investigations of the system's considerable variety of low-temperature chemistry, the

station's Culture harkens to a brief social media sensation of the 21st century. Decor follows a tropical holiday theme. Addressing the station inhabitants in Old Earth Russian or Nariaslavic provides a 1-step bonus to the first encounter skill check made towards them.

Ovcew, main sequence Class G

0.3 AU: Ring system

1.0 AU: Iribos, Terran, hot: Class 3 G3/R2/A4/P4/H5, axial tilt: average (24°), day length: long (34 hours), climate: turbulent, landforms: varied
Permanent colony (independent), CL 3, LL 3, Type 3 baseport
Colonists in Spiderfields use underground habitats of deep shafts with thick stone lids to protect from the thick, burning, toxic atmosphere. At considerable risk, venturing onto the surface in hard e-suits can find exposed near-pure reduced metals and stabilised crystal forms of odd chemistry.

Familiar with using shaft-boring plasma frames, their spaceport as well sits at the base of a deep excavation, with a series of gravitic accelerator rings to help with swift departures and safe captures of small craft and light vessels.

Heroes of Ovcew
A starting human character native to Ovcew can exchange Armor Operation for Vehicle Operation as a free broad skill.

Pdenyh, main sequence Class F, Class M

System age: 4 billion years

Very close binary (0.4 AU)

25 AU: comet belt

A scattered debris field orbits Pdenyh at a wide separation from an inner expanse swept clear by a gigantic alien artifact, recently moved out of the system by a significant engineering effort.

Piejgkudfn, main sequence Class M

System age: 5 billion years
Stellar hazard: high stellar wind
Orbital hazard: System debris

Piejgkudfn has the reputation of a difficult system to explore that has stranded or swallowed up several expeditions. A large ruby-red star periodically winks with points of white and gold light. Its brooding, broadly spaced, dense worlds might reward a more careful search.

0.2 AU: Three Points, Gas giant, large, axial tilt: major (31°), 11 moons: Tiny, Terran, Tiny, Small, Small, Tiny, Small, Ring system, Tiny, Small, Small
Class 5 G5/R3/A1/P4/H0
ii: Terran, Class 4 G1/R3/A0/P0/H0, landforms: rugged

0.7 AU: Milestone, Gas giant, small, axial tilt: average (27°), 3 moons: Tiny, Small, Small
Class 5 G5/R4/A1/P4/H0

1.5 AU: Signage, Gas giant, small, axial tilt: average (18°), 8 moons: Sub-Terran, Small, Ring system, Sub-Terran, Small, Tiny, Terran, Small
Class 3 G4/R1/A1/P4/H0
i: Sub-Terran, Class 4 G1/R4/A0/P0/H0, landforms: perilous
iv: Sub-Terran, Class 4 G1/R3/A0/P0/H0, turbulent, landforms: smooth
vii: Terran, Class 3 G4/R1/A3/P3/H0, climate: active, landforms: smooth, biosphere age: 5 billion years, Series II life (simple)

3.0 AU: Cul, Gas giant, small, axial tilt: mild (6°), 2 moons: Ring system, Small
Class 5 G5/R3/A1/P4/H0

15 AU: Roadhouse, Gas giant, small, axial tilt: mild (12°), 9 moons: Tiny, Small, Ring system, Small, Terran, Ring system, Small, Tiny, Tiny
Class 3 G4/R1/A1/P3/H0, biosphere age: 3 billion years, Series II life (simple)
v: Terran, Class 4 G1/R3/A0/P0/H0, landforms: perilous

35 AU: Highway, Terran, cold, 4 moons: Small, Tiny, Tiny, Small
Class 2 G3/R2/A1/P3/H1, axial tilt: average (25°), day length: very long (57 hours), ocean (sparse), climate: active, landforms: perilous, biosphere age: 5 billion years, Series I life (complex), Series II life (simple)
Thick heat-trapping cloud decks rain dust drifts of heavy to radioactive elements. Great shaggy beasts and ferocious predators on a theme of multiple limbs rove the dim and snowy tundra, lit by the glow of volcanoes and bioluminescence of their flanks, leaving their impressive bones as monuments.

Pme 4, white dwarf

○

Pme 4's spectrum reveals an unusual abundance of heavy elements, suggesting that the star consumed multiple planets from its former system of satellites.

Poufh's Star, main sequence Class M

0.1 AU: Peer, Super-Terran, temperate, Class 1 G2/R1/A3/P3/H2, ocean (complete), strong synchronisation, climate: violent, landforms: varied, Series I life (simple), 2 moons: Tiny, Tiny
Nonhuman ruins, PL 8, CL 2
Adventurous sorts seeking out from time to time reports of an unusual energy signature below the steaming, fetid, supertyphoon-wracked seas of the innermost planet have not returned.

0.2 AU: Wonk One, Gas giant, small, Class 3 G4/R1/A1/P5/H0, axial tilt: major (32º), 10 moons: Tiny, Ring system, Small, Tiny, Sub-Terran, Tiny, Tiny, Tiny, Sub-Terran, Small
v: Sub-Terran: Class 2 G2/R1/A2/P3/H1, climate: turbulent, landforms: varied
ix: Sub-Terran: Class 4 G1/R3/A0/P0/H0

0.4 AU: Wonk Two, Gas giant, small, Class 5 G5/R3/A1/P5/H0, axial tilt: major (37º), 4 moons: Small, Small, Tiny, Small

0.7 AU: Wonk Three, Gas giant, small, Class 5 G5/R3/A1/P5/H0, axial tilt: extreme (69º), 3 moons: Ring system, Tiny, Sub-Terran
iii: Sub-Terran: Class 3 G1/R2/A3/P1/H0, climate: turbulent, landforms: perilous

Highpass: Space station (Empyrio), CL 1, LL 3, Type 3 baseport
Laid out as a full-size tanker stop, this extensive station now hosts a much smaller workforce, but still runs as a devolved division of a major transport and engineering corporation.

Psemwtvi, main sequence Class F, Class O

Very close binary (1.0 AU)

An active and rapidly evolving massive star may trigger another round of star formation in the region, in the violent future of its lifespan.

Qhi 34, main sequence Class K

6 billion years

The further edge of the sector offers opportunities as well as threats to the stellar nations. Their starships always seem to be lurking around the fringe systems.
When heroes first enter this system, they encounter a starship of the Borealis Republic, with a d6 roll using my *Colonies and Spaceships* resource:

1-3	Naval (rating D)
4-5	Explorer / scientific (+1 to type)
6	Private

On subsequent visits, apply a 1 in 20 chance for a starship encounter of random allegiance.

Reffler, main sequence Class M

Defence Type One

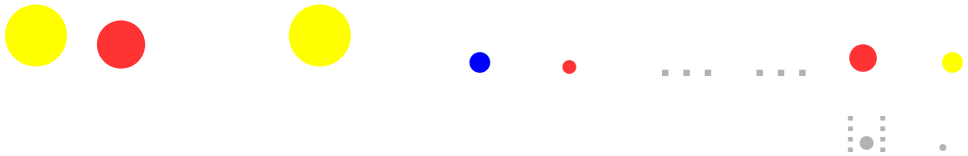
Space station (independent), CL 3 (375,000), LL 3, Type 3 baseport, 3 escort ships

Species: Human 75%, human mutant 20%, kewothan 5%
Allegiance: Independent 50%, independent (Lunaria) 10%, Thuldan 10%, External 30%

Trill Station lies within the reach, but not quite in the clutches of the nearby corporate worlds, attracting many and various people who prefer an alternative to the business lifestyle, some adopting aspects of the culture of its kewothan founders.

Near Stars Haulage trades between destinations just beyond range of a small craft, operating a substantial number of haulers and industrial hulls.

Salzp, main sequence 2 x Class G, Class M



Close binary (35 AU): G, M
G (240 AU)
System age: 5 billion years

Defence Type Two

Salzp B:
0.4 AU: Gerulx: Super-Terran, hot: Class 1 G2/R3/A2/P2/H3, strong synchronisation, ocean (sparse), climate: violent+, landforms: varied, military base (independent, CL 2, LL 2), space station (CL 2), type 4 miniport, armed transports
Species: human (90%), human mutant (10%)
Allegiance: independent (90%), Rigunmor (10%)
language: Thuldan
A constant and ferocious eye storm dominates the surface of the planet, above rocky badlands and saline dips.
A military order, the Gladiator Guards of Gerulx, contract through their Grand Master to offer mercenary services with an element of showmanship.
The Guards maintain connections with a far-flung professional consultation circuit called the Mercenary League.
Although individual fighters train with a wide variety of weapons, their iconic arms are the atgeir (polearm) and arm-bow (one of the more effective designs of wrist-crossbow). This style develops the peculiarity of shooting by preference with the off-hand.

Reflexive Shooting
Perk, 3 Skill Points, DEX, Conscious
When the character has a ranged weapon in hand, loaded and ready to fire, she can accept a +2 penalty to take a shot one phase earlier than her current Action Check would allow. This takes one of the character's and the weapon's actions for the round as usual. It has no effect on an Amazing Action Check. The character can fire on her Action Check without penalty.

0.7 AU: Gazdan: Terran, hot: Class 5 G4/R1/A4/P5/H5, axial tilt: average (24°), day length: very long (69 hours), landforms: smooth

1.5 AU: Asteroid belt, reservation
A series of environment domes, the Trial Grounds, pit Gerulx Guards against many dangerous lifeforms.

3.0 AU: Asteroid belt

5.0 AU: Fhoire: Gas giant, small, axial tilt: mild (9°), 7 moons: Small, Ring system, Tiny, Terran, Small, Ring system, Tiny
Class 5 G5/R3/A1/P5/H0
iv: Terran Class 4 G1/R3/A0/P0/H0, landforms: varied

15 AU: Micalbu: Super-Terran, cold, 1 moon: Small
Class 2 G2/R1/A2/P3/H1, axial tilt: average (21°), day length: short (11 hours), ocean (moderate), climate: turbulent, landforms: perilous

Sbnu 58, brown dwarf

System age: 7 billion years

Filmed with dark smogs of ferrane, potassium, carbon monoxide and many other components, an ember-glow beneath barely breaks through.

Sdohd's Star, main sequence Class K

5 billion years
Orbital hazard: System debris

What appear to be the recent remains of an interstellar planetary body, dragged into an over-close approach, as yet orbit in paths too scrappy and unpredictable to class as a ring or belt.

Sxak 41, main sequence Class M, Class M, white dwarf

2 billion years
Orbital hazard: System debris

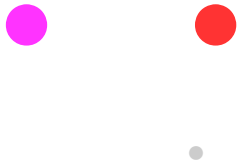
Close binary (40 AU): M/D

Distant (900 AU) M

System encounter: Derelict, etc.

A burnt-out but once impressive star system holds numerous scattered asteroids with reasonable prospects of finding heavy metals. Visitors may encounter the shells of mining equipment and transport craft, most long-since stripped of electronic and high-energy components.

Tangis 27, brown dwarf



0.1 AU: Scarlet Shroud: Gas giant, large, Class 5 G5/R3/A1/P5/H0 10 moons: Small, Tiny, Tiny, Small, Tiny, Tiny, Terran, Small, Tiny, Small
Abandoned gas mine
Under the light of the Tangis Object nebular fragment, Independent pipe-welder Lodbrook Nils, the “Survivor of Tangis 27”, lived alone for 8 standard years after the former gas mining platform was wrecked by an electrical surge, on supplies for the full crew numbers and available protein. Once Nils was rescued and committed to psychiatric care, Tangis 27 returned to uninhabited status.

vii: Class 4 G1/R3/A0/P0/H0

Tcobm 36, black dwarf, main sequence Class M

Close binary (3.0 AU)
12 billion years
Unpredictable flares increase R value by 1
Orbital hazard: System gas clouds

Perturbed by its more massive but lightless companion, over aeons the red star has thrown off curious streamers of matter that circle and twist through the system, lit somberly in deep red.

1.5 AU: Fay: Gas giant, small, 2 moons: Small, Small
Class 3 G4/R1/A1/P4/H1
A pale-coloured, wispy mass and its two small ice moons have gathered only minimal cores of heavier elements from their ancient system.

Turriff's Star, brown dwarf

Turriff's Star is relatively large and hot for a brown dwarf, technically Class M0.

Tyiedl's Star, main sequence Class M, Class M

12 billion years

Distant binary (100 AU)

Orbital hazard: System gas clouds
Hydrogen banks surrounding Tyiedl's Star became the target of a harvesting scheme whose failure ended in a notorious bankruptcy.

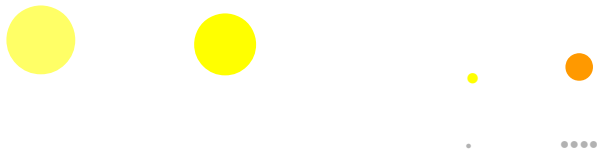
Tyyt 14, main sequence Class M, Class M

2 billion years

Distant binary (300 AU)

Inhabitants of neighbouring systems watch Tyyt 14 with suspicion after sightings of anomalous light signatures resembling starrises.

Ubhew, main sequence Class G, Class F



2 billion years
Orbital hazard: System gas clouds

Very close binary (1.5 AU)

55 AU: Thulask: Sub-Terran, cold, 1 moon: Tiny
Class 2 G2/R1/A1/P2/H1, axial tilt: major (36°), day length: average (18 hours), climate: violent, landforms: perilous, Series I lifeforms (simple)
Nonhuman ruins (CL 6, PL 2)
A past colony of a coalition of bluish musk-ox like and dark grey-violet puffin like sentients held on and even expanded for several millennia after a technological collapse, but eventually failed. The surviving culture developed a style of jewellery of admirable technical achievement and often disturbing themes.

75 AU: Voormithadreth: Gas giant, small, 7 moons: Tiny, Tiny, Small, Small, Tiny, Small, Small
Class 3 G4/R1/A1/P5/H0, axial tilt: major (31°)

80 AU: Comet belt

System encounter: Starship (private)
The crew are engaged in looting artifacts from Thulask that have gained some popularity through less scrupulous art dealers of nearby systems. They might present themselves as free traders or independent archaeologists, according to their sense of what will play best to their audience.

Uqyeb 85, brown dwarf and main sequence Class K

Close binary (0.7 AU)

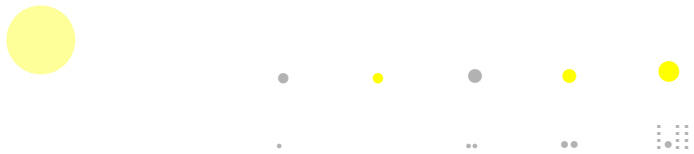
This young and unstable system, recently coalesced in the sector's star-forming region marked by disrupted nebulae, has contracted the orbit of its brown dwarf companion by a factor of twenty and may see further dramatic events.

Uujp 40, main sequence Class M, Class K

Close binary (15 AU)
4 billion years

This stable binary star became an observation point for the groundbreaking Interstellar Matter Survey.

Uunso, main sequence Class F



Uunso has not as yet attracted interest in colonisation, but regularly hosts cruise ships displaying its natural wonders.

Encounters at any of the system's planets on d20:
1 – Cruise ship (Oceanic d6 – 1-3 Clipper, 4-6 Liner, other planets Clipper)
2 – Random spaceship encounter. Ignore on a subsequent visit
3-20 – No encounter

0.4 AU: Crimson, Sub-Terran, hot, 1 moon: Tiny
Class 4 G1/R3/A0/P0/H5, weak synchronisation, landforms: perilous
The innermost planet's rocks appear deep red and split by dark spiralling rifts.

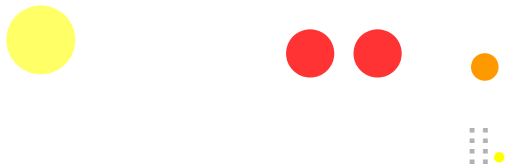
0.7 AU: Moss, Sub-Terran, hot, Class 2 G1/R3/A3/P2/H4, tidal lock, climate: violent, landforms: perilous, Series III life (simple)
Rock spires blotched with orange lichenoids form streaming yellow cloud tracks through a moss green atmosphere deck.

1.0 AU: Pale, Terran, temperate, 2 moons: Tiny, Tiny
Class 4 G1/R4/A0/P0/H0, axial tilt: major (28°), day length: average (23 hours), landforms: rugged
Light yellow landmasses bake under stark white sunlight.

2.0 AU: Cloud, Terran, temperate, 3 moons: Tiny, Small, Small
Class 2 G3/R2/A2/P4/H1, axial tilt: average (19°), day length: long (36 hours), ocean (abundant), climate: turbulent, landforms: rugged
A world of chill oceans and snowy plains shows a vista of white on white.

10 AU: Oceanic, Super-Terran, cold, 6 moons: Ring system, Small, Ring system, Tiny, Tiny, Ring system
Class 2 G2/R1/A1/P2/H1, axial tilt: average (21°), day length: long (39 hours), ocean (complete), climate: turbulent, landforms: perilous
A dark blue world ocean descends into ultramarine trenches under spectacular multiple rings.

Vurlfsed, main sequence Class F, 2 x Class M



Vurlfsed A: No planets

120 AU: Vurlfsed B/C: Very close (non-contact)
0.7 AU: Grates: Gas giant, small, Class 3 G4/R1/A1/P4/H0, axial tilt: major (35°), Series II life (simple), abandoned reservation
Early descriptions of the atmospheric platforms circling this world suggested interaction of two former species of the setting, though further exploration renders them more likely as prisons for members of the same or a closely related species.
7 moons: Tiny, Small, Small, Ring system, Small, Ring system, Sub-Terran
vii: Meadow: Sub-Terran, Class 2 G1/R2/A1/P1/H0, ocean (sparse), climate: active, landforms: varied, Series II life (complex), scientific post (independent, CL 1, LL 0. Type 5 padport)
The more fertile sections of the moon show an odd landscape of rippling stalks, exploiting chemical and temperature layers.
Academics of a local institution operating beyond university discipline are absent without leave on personal, sometimes destructive whims and obsessions.

Vxyia, main sequence Class M

System age: 7 billion years
Orbital hazard: gas clouds (“Environment Class”) Each time that a spacecraft moves between planets in the system, make a Physical Science-*astronomy* check (or a crew check) to avoid concentrations of reactive gases and fine dust. On a Failure, the ship suffers d4s damage. This corrosive effect is reduced by armour, but has no Firepower rating.

0.2 AU: Frank, Gas giant, small, Class 5 G5/R3/A1/P5/H0, axial tilt: average (23°), 1 moon: Small

0.3 AU: Joe, Sub-Terran, cold, 2 moons: Tiny, Tiny
Class 3 G1/R2/A3/P1/H0, strong synchronisation, climate: violent, landforms: rugged
On this seldom-visited planet lays the grave of Helmuth Doody, gunned down by the ruthless t'sa scout Limi Ladtho in a literary dispute.

Whhu 62, main sequence 2 x Class M

Close binary (1.0 AU)
0.1 AU: Stitikin: Super-Terran, temperate, Class 3 G4/R0/A1/P4/H1, weak synchronisation, climate: violent, landforms: smooth
Scientific post (independent, t'sa, CL 2, LL 2), drivespace comm relay
A powerful Dean governs an academy of t'sa studying the sulphur chemistry of the planet, with a vassal group taking advantage of atmospheric cooling for advanced physics experiments.

Wnuzat, main sequence Class K, Class F

Distant binary (70 AU)
1 billion years

A:
1.0 AU: Tribulation: Terran, temperate, 3 moons: 3 x Small
Class 1 G2/R1/A2/P3/H3, axial tilt: extreme (64°), day length: short (13 hours), climate: violent, landforms: rugged, Series I lifeforms (simple), permanent colony (independent, CL 3 (87,500), LL 1), type 5 padport
A series of disasters has led the inhabitants to retreat to isolated family holdings, ruled by a pessimistic and gloomy belief in further dooms to come.

2.0 AU: Hubris: Terran, temperate, Class 4 G1/R4/A0/P0/H0, axial tilt: average (20°), day length: average (14 hours), landforms: rugged, failed colony
The colony domes were evacuated after a meteor strike destroyed critical life support machinery.

5.0 AU: Comet belt

B:
2.0 AU: Renunciation: Terran, temperate, Class 2 G2/R1/A2/P2/H1, axial tilt: average (22°), day length: average (24 hours), oceans (abundant), climate: active, landforms: perilous, holding/resort (CL 0), shunned space station (type 4 miniport)
Settlers of Tribulation believe the silent and glorious mountain peaks are only to be visited by those engaged on journeys of hope, a venture that has become rare and far between.

3.0 AU: Contumacy: Gas giant, small, 1 moon: Small
Class 5 G5/R3/A1/P5/H0, axial tilt: average (23°), abandoned space station
A working base for investigation of gas mining stands empty.

Wyliex, main sequence Class K

A stripped part-hull orbiting this lonely star has proved difficult to identify, even as to culture or species, but may have been cruiser or clipper sized.

Xiers 58, main sequence class M

0.2 AU: Tocantins, Terran, cold, Class 3 G1/R2/A3/P1/H0, 4 moons: Tiny, Tiny, Small, Tiny
Spacer rumours of nearby systems name an abandoned space station as Samala's Refuge, an unrecorded wildcat settlement several years before the Eiluned immigration.

1.5 AU: Comet belt

Xoryazir, main sequence Class G, Class F

Close binary (5.0 AU)
4 billion years

B:
0.3 AU: Ring system

Two bright stars rise prominently in the southern night sky of Salzp, known there as the Net-Hunter.

Yaye 10, main sequence Class K, black dwarf

Close binary (5.0 AU)

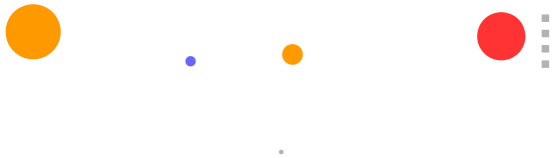
5 billion years

Orbital hazard: System debris
System encounter: Starship (independent)

The peculiar gravitational flux of Yaye 10's lightless primary object twists orbiting rocks into unusual and unpredictable courses.

A light pleasure-craft has sustained significant damage in a drift of rock-shards. Anyone going to their assistance might venture into harm's way.

Ybim's Star, main sequence Class M and main sequence Class K



Close binary (15 AU)

0.4 AU: Cecily: Sub-terran, hot. Class 1 G2/R1/A2/P4/H4. Climate: Active, Landforms: Smooth. Nonhuman ruins, permanent colony (Independent, CL 3, LL 5, Population 485,000), type 3 baseport, abandoned space station
Alphonse Ybim, director of the Eiluned Resettlement Program, proclaimed Cecily as a model colony for the region and the inhabitants have maintained or assumed such status ever since. The Constitutional Republic of Cecily sports a legislature, judiciary and executive cabinet in perfect miniature.
Still City and outlying settlements trade in ingenious clothing and homeware solutions for the hot, dry, dense atmospheric conditions, as well as ore dusts and mezcal.

The genetically engineered **chinchilla cactus** grows silvery silk fibres in place of spines. This plant of multiple uses persists alongside more familiar transplanted succulents with no large herbivores introduced to the planet.
One of the more traditional-looking growths, perhaps a bit dark-coloured, actually comprises the **meatball cactus**, in turn suggesting a relationship between succulents and nitrogen-fixers substantially altered from Earth norms.
Country dwellers report signs of development of thug bees attacking live cactus and nesting in human bodies, distant from settlements. More extreme rumours speak of vampire cacti and cactacae.

A third of the way around the world, a silent closed city-habitat of an unknown species keeps its secrets, under its synchronously orbiting spaceport, mostly held to be irrelevant to the lives of sensible people and a little embarrassing to mention.
Where would all these aeons-evolved descendants of colonial lifeforms come from? What might it have to do with any active technology in the Unbelievable City?
And don't even talk about the time they found a mouse colony. The citizens haven't got over it, years since.

1.5 AU: Velouria: Super-Terran, temperate. Class 3 G4/R3/A4/P4/H4, Ocean (Moderate), Landforms: Smooth. 1 moon: Tiny
Velouria's seas of crude plastic cling to the skin of unwise bathers with painful or tragic results.

Ybim B, 0.1 AU: Ring system
A spectacular orange-lit ring surrounds a deep red companion star.

Yic, main sequence Class M

Yic's irregular active flares draw astronomical study and alter the star's output enough to show a visible alteration in brightness from nearby systems.

Ypfhrd's Star, main sequence Class M

System age: 9 billion years
Stellar hazard: Unpredictable flares increase R values by 1
Orbital hazard: System gas clouds

Defence Type Three

0.2 AU: Raven: Gas giant, small, axial tilt: mild (6°), 4 moons: Small, Sub-Terran, Ring system, Small
Class 5 G5/R3/A1/P5/H0
ii: Skipper: Sub-Terran Class 4 G1/R3/A0/P0/H0, landforms: rugged
System residents avoid Raven and its moons, citing a lack of useful resources and often-hazardous radiation levels from Ypfhrd's Star.

1.0 AU: Crow: Gas giant, small, axial tilt: mild (1°), 4 moons: Terran, Tiny, Tiny, Small
Class 5 G5/R3/A1/P5/H0, abandoned gas mine
i: Egg: Terran Class 2 G3/R1/A1/P4/H0, ocean (moderate), climate: turbulent, landforms: perilous, Series II life (biosphere age 8 billion years, simple)

2.0 AU: Coyote: Terran, cold, axial tilt: average (25°), day length: long (57 hours), 1 moon: Small
Class 2 G1/R2/A1/P1/H0, climate: active, landforms: perilous
Permanent colony (independent, CL 2 (6,900), LL 1), type 5 padport
Species: Human (90%), human mutant (10%)
Allegiance: Independent (90%), vorsian (10%)
Coyote residents take a suspicious and often hostile attitude to Rigunmor approaches and by extension other visitors, threatening spacecraft with large-bore surface-to-air cannon and visitors in person with spectacularly energetic alien biomods.

Macaw Station (Rigunmor, CL 2 (5,750), LL 3), type 3 baseport, d4 destroyers
Species: Human (80%), t'sa (10%), mechalus (10%)
Allegiance: Independent (70%), Rigunmor (30%)
After the decline of gas extraction attempts, the corporate station has turned to a variety of services and business ventures to try to maintain its profitability and influence with the distant Consortium, but increasingly drifts away from its stellar nation allegiance towards more local loyalties.

Zanat's Star, brown dwarf

0.1 AU: Asteroid belt
Miners of Mariana explored this system for possible mineral wealth.

0.7 AU: Terran, cold: Deadearth Class 4 G1/R3/A0/P0/H0, axial tilt: average (18°), day length: short (12 hours), landforms: rugged, 1 moon: Small
The prospectors saw a similarity in mass and diameter to Terra, with suggestive resemblances in landforms.