

# HISTORY : Alternate Timeline

## Timeline of Events: Terra-centric Point of View

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| 1957 | Sputnik 1 launched. First artificial satellite sent into earth orbit. The un-powered satellite was launched using chemical rocket   |
| 1961 | First manned spaceflight, using chemical rockets.   |
| 1969 | First manned Moon mission.  |
| 1981 | Space shuttle launched. First re-usable space vehicle to enter service.   |
| 2005 | First commercial space plane enters service, winning the \$10 million X-prize.  |
| 2016 | First successful test of a plasma powered rocket.   |
| 2025 | First manned mission to Mars ends in disaster when one crew member goes insane and kills two others. Mission is aborted in mid flight.  |
| 2041 | Practical fusion power becomes a reality.   |
| 2044 | Construction of Moon Base 1 in Copernicus Crater, as well as Habitat 1 and 2 in L5 positions is begun.  |
| 2055 | First successful test of a fusion engine.   |
| 2062 | Freighter-Frame launched. A multi-purpose pod based ship system built by AAA Astrometrics, it is powered and propelled by fusion. A solar powered linear accelerator is built into the frame for emergency propulsion and life support.   |
| 2069 | First successful manned mission to Mars. A freighter-frame equipped with a complete biosphere and a crew of 33 make the trip safely and in relative comfort. The fusion drive allows a travel time of 1 month each way, and the large vessel carried a reusable landing craft, as well as many scientific packages.   |
| 2071 | First manned missions to Jupiter and Saturn.  |
| 2073 | Earth basically runs out of readily available fossil fuels. Energy demand has outstripped availability of fusion and other renewable energy production. Although the advanced nations do have fusion reactors coming on line, many developing countries turn back to fission reactors.  |
| 2079 | Belters Incorporated opens. A consortium of private individuals band together, buy a used freighter-frame ship, and equip it for long duration flight. They form the first private asteroid mining concern, and operations in the asteroid belt begin.  |
| 2088 | A boron-fusion engine is developed. This engine leaves no radioactives behind, making it ideal for use on or near planetary surfaces.   |
| 2103 | Hans Berger develops the magneto-gravitic plate system. Although requiring a huge amount of energy, it allows artificial gravity on board ships, as well as reduction of ships mass during take-off and landings.   |
| 2109 | Dyson shipbuilding designs, builds, and launches the DY-1, a large vessel based on submarine design. This 12 000 ton vessel is launched from the Atlantic Ocean directly into orbit, using Berger gravity-resist and boron drives. It heralds a new age of solar system exploration.  |
| 2115 | Nuclear waste crisis on Earth. The massive amounts of nuclear waste, both from reactors and from other industrial processes reaches critical levels as waste containment facilities fill up. Disposal becomes the major issue for Earth.  |
| 2120 | Earth forms the Lunar Finance Commission. Its main purpose is to deal with the nuclear waste problem on Earth. The LFC begins building asteroid bases. The first asteroid base, Alpha, is built on Vesta. Alpha becomes the caretaker of a large off-planet nuclear waste dump. It is found feasible, if not economical, to proceed with storing nuclear waste in asteroid waste dumps. |
| 2130 | An asteroid mining ship is attacked by pirates. It appears that some Earth governments are secretly building armed ships for use in space, and financing piracy and claim jumping. Tensions in space are on the rise.   |
| 2145 | The Lunar Finance commission loses a DY-5 transport to unknown forces. They design a light modular fighting ship to complement their soon to be released modular transport. These smaller ships are expected to be more versatile and efficient.  |
| 2152 | LFC launches the Mk 6 Eagle transporter, and Mk 7 Hawk fighter. Based upon improved nuclear engines, these small ships are both faster and more maneuverable than anything built before. A trip from Earth to the asteroid belt now takes 3 days.   |

- 2160 The population of permanent space residents exceeds 1 000 000.
- 2168 Hans Berger Jr., Ernst Queller and five others design the Queller Drive - a fast neutron drive powering a new gravi-magnetic field generator. This drive is the first drive capable of FTL speeds, and plans for interstellar craft are made. Two craft, Voyagers one and two were launched. Voyager two malfunctions and crashes into the Pacific Ocean - with the Queller drive still running - and no way to shut it down. All life within 800 km of the ship is eradicated by neutron radiation. Voyager one is lost in space, presumed still operating and dangerous. H. Berger Jr. is devastated, and vows to use his corporate resources to fix the problem. Queller quietly disappears after three other team members are murdered.
- 2188 Hans Berger Jr. develops the proton powered gravi-magnetic drive. Less powerful than the Queller drive, this design has the advantage of safety. The first FTL drive is installed in a prototype exploration ship. The prototype also used the same fusion engine used in the Mk 8 Hawk, and the backup system could be used as an emergency drive.
- 2196 A rogue planet passed near the Solar System. Code-named Ultra, the LFC builds a probe with the proton drive and sends it to Ultra. Nothing is heard from the probe for almost a year when the command pod returns with one lone survivor - Tony Cellini.
- 2199 A signal is received from Ultra. A second probe ship is built, code-named Meta. The launch, from base Alpha on Vesta, never occurs. The nuclear waste dumps on Vesta explode, and drive the planetoid out of the Solar System. The probe is destroyed in the explosion.
- 2204 Events after the loss of Base Alpha lead to the financial collapse of the Lunar Finance Commission.
- 2205 Inter-necine warfare breaks out on Earth due to the collapse of the LFC., and the mounting piles of nuclear waste, which now have no place to go. When nuclear weapons are used, the space-borne peoples living in the solar system band together and form the Terran Trade Authority. They convince the Earth nations to stop fighting before it is too late. Knowing their reliance on Earth for resources and technology, an agreement is made to build orbital energy stations to eliminate the need for ground based fission reactors.
- 2209 Warfare finally ends on Earth. The population of Earth falls from an all time high of 10 500 000 000 to 4 800 000 000.
- 2210 Fission reactors are banned from Earth. The remaining nuclear waste from these reactors is dumped into the sun - at the TTA's expense.
- 2218 The population of permanent space residents exceeds 10 000 000.
- 2226 A large version of the gravi-magnetic drive is developed, and Dyson launches the DY-100 series of transports.
- 2233 Eugenics wars break out on Earth. Genetically enhanced humans try to seize control of the UN. Their gambit is defeated and about two dozen survivors escape in a DY-100 transport.
- 2243 TTA launches the Galileo class transport, a large fusion engined vessel for in-system use.
- 2249 TTA launches the Columbus class. The first purpose built vessel for manned expeditions to other solar systems. The engine, a more-powerful version of the DY-100 drive, is nicknamed the "gaussjammer".
- 2251 UNSS Icarus reaches Centaurus, and finds a habitable planet. The planet is named Wyzdom.
- 2252 War breaks out on Earth (again) over rights to the new planet. Although little more than skirmishes break out, the TTA argues for peace, pointing out the fact that this is the first discovery of a habitable planet and that many more are expected.
- 2253 82 Eridani is explored yielding a second habitable planet. TTA forms an organized colonization effort.
- 2260 The population of earth has increased to 6 500 000 000.
- 2265 Dyson launches the improved DY-500 transport which is suitable for interstellar use when fitted with cryogenic berths.
- 2268 A colonization fleet of 12 DY-500 transports reaches Wyzdom with the first 6000 colonists, and the first extra solar colony is established.

- 2280 With Earth's population approaching 7 500 000 000 and four newly discovered planets, the TTA forms a colonization division.
- 2284 TTA convinces Dyson to prototype a new modular colonizer type starship. This ship, Gaile class proves so large and costly Dyson goes bankrupt and TTA must begin its own ship production.
- 2292 McKinley produces its own gaussjamming engine the "Ion Ultradrive" and sells mid size vessels to private concerns amid the growing population pressure on Earth.
- 2295 First Expansion begins. Many private colonization projects are launched, with varying degrees of preparedness. Some vessels are destined for systems that are not even explored yet. Others reach their destination to find a TTA colony already established. Many simply vanish.
- 2300 Most of the expansion is core-ward, and within 50 parsecs of earth, as a limitation of the gravi-magnetic drive is realized. The theoretical maximum velocity (the complete bending of space - taking an infinite amount of power) would only achieve a maximum of ~50 c. Fast survey vessels achieve velocities of ~ 40 c. Surveys are multi-year expeditions. The farthest exploration to date is about 50 pc, to a rich group of stars in Sagittarius. A return trip to this group takes eight years.
- 2208 TTA starts processing raw materials from other systems to ship to Earth. Limited ore processing facilities built at the Menkalinan system.
- 2320 TTA claims 12 colonies with a total population of over 100 000 000. Three known independent colonies also form the expansion of humanity. Seven other systems are also exploited for mining purposes.
- 2329 TTA enters a period of massive ship construction culminating with the production the M class star freighter. A massive ship capable of independent mining and onboard ore processing facilities, with a minimal crew and deep cryogenic facilities, capable of multi-year voyages. Its enormous cost almost bankrupts the TTA.
- 2340 The M class star freighter Nostromo disappears. It belonged to Weyland-Yutani Co. Some feel that a rival corporation could be responsible..
- 2344 The TTA is broken up by both politics and finances - both internal and external. Anti-trust lobbies on Earth, Mars, and Wyzdom break up the association and corporations declare independence. The assets of the TTA are also divided, and intense rivalries for these assets are started.
- 2347 Avery Astronautics starts a pseudo military campaign of annexing mining colonies and moons of Colonial Mining.
- 2349 A major battle in the Menkalinan field between Avery and Colonial bring matters to a head. The UN forms the UNSMC (space marine corps) and sends ships to Menkalinan to quell the dispute.
- 2355 Gateway Station built in Earth orbit. This major port and UNSMC station serves as a nexus for both UN and corporate business.
- 2385 Colonial mining builds and tests an atmospheric processing engine on Venus. It is eventually crushed and burned by the hostile atmosphere, but proves a workable design for other planets. The first "shake and bake" colony on LV 181 is built. Weyland-Yutani quickly follows suit with colonies of their own.
- 2388 Earth's population again exceeds 10 000 000 000.
- 2393 Weyland-Yutani boasts control of four "shake and bake" colonies, the first now supporting a population of over 10 000. Of the original nine TTA colonies only Yom (Ad Astra), Genesis (Avery), and Mammon (Colonial) remain in corporate control.
- 2408 A Nostromo shuttle is recovered. Events surrounding the massive ships disappearance are shrouded in secrecy.
- 2409 A military expedition is lost, the second in as many years. Both lost missions were in support of corporate expeditions, and suspicion abounds both of corporate motives and of competitor's interference.
- 2410 Proposals to disband corporate and national navies and to combine all space-borne military forces into one unified force fails. Support for UNSMC operations by member nations is reduced and two nations pull out of the UNSMC.
- 2423 A UNSMC ship encounters a Destructor Cruiser and is destroyed. The incident is witnessed by an Avery vessel. Later, an Avery fleet tries to make contact with the Destructor ships, and is decimated in the attempt. Hiding their involvement with the

- Destructors, Avery simply claims that "An alien menace is lurking in the depths of space."
- 2426 After many skirmishes between Earth vessels and Destructor ships, a small Destructor vessel is captured, Earth's only victory to date. The Destructors are an intelligent "race" of machines, self replicating, and view themselves as the eradicators of all life in the galaxy. They operate from a base vessel (which provides construction facilities), but are not above using living beings as slave labor. Apparently, a Destructor base passed through an "interphase" and wound up in a crippled state near Earth controlled space. A priority on neutralizing this threat is made. This is made difficult by the fact that Destructor technology is far superior to that of Earth. Destructor vessels are much faster (well above 53 c!) and more powerful than Earth ships. The only saving grace in the conflict is the fact that the crippled Destructor base cannot build new ships.
- 2431 After many battles, a combined force of national, corporate, and UNSMC ships find the Destructor base vessel and destroy it. Destructor vessels either fight to the death, escape, or self destruct, in order to keep their technology secret. The total amount of Destructor vessels turns out to be twelve - including the base ship. Earth loses 281 ships in the war. Rumours abound that one or two Destructor ships have escaped destruction and lurk in the depths of space.
- 2432 Investigations reveal that early corporate involvement, if disclosed immediately, could have saved many lives and ships. Some nations seize corporate assets in retaliation.
- 2433 Reports of incidents between national and corporate fleets near colony planets sparks further distrust.
- 2435 An attempt to disband corporate navies breaks out into a civil war. Many of the supporting nations if the UNSMC pull their support (and ships) out of the UNSMC fleet. Bitter fighting breaks out, mainly in the Sol system, but fighting spills into the outer systems as well.
- 2438 Massive use of nuclear weapons, both on the ground and in space decimates both the population of Earth and the space fleets, including UN, national and corporate ships and facilities. Forces are called in from the colonies and fighting continues as ships appear in the Sol system
- 2447 The war ends when there is no one left to fight, and no ships left to fight with. At the end of the war the colonies found themselves intact but stranded, as all vessels capable of interstellar flight have been destroyed, mostly in the Sol system, along with the facilities to build them. Earth, whose population is reduced to 2.7 billion, suffers a complete economic collapse and most survivors find themselves either unemployed or unable to rebuild. Urban areas are turned into relocation camps - which soon turn into concentration camps. Nationalism is forgotten as basic survival becomes all important.
- 2456 Zephram Cochrane, born on Wyzdom but stranded on Earth, completes his work which he came to Earth for in the first place - to build and test a new prototype drive system for interstellar use. Privately funded, and using an abandoned missile silo, a retrofitted Titan-F missile is turned into a prototype vessel with an experimental warp drive. After the war this vessel, renamed Phoenix is tested and achieves warp speed (i.e. faster than 50 c). The warp field is detected by a passing Vulcan science vessel which enters the system to investigate. Vulcan exploration, bypassed Earth as humans were considered by the Vulcans to be a primitive culture, and should be avoided. When the survey ship detected the warp signature of the Phoenix, the Vulcans realized that humans are a space-faring race and would encounter Vulcan soon, and made first contact.
- 2469 Spurred on by contact with the Vulcan race, Earth begins the process of rebuilding, and with the help of Vulcan ships re-establishes contact with the major colonies. We are able to trade for this help, mainly with our recovering electronic technologies.
- 2480 By this time the population of earth was below 2 billion. Wyzdom, with a population of over 100 million, maintains most of its technology, but the other colonies have slipped to more primitive technologies for survival's sake.

- 2481 The first production warp powered vessel, UNSS Cochrane is constructed in orbit around Wyzdom. Its shakedown cruise, to Earth, takes all of two weeks. A second vessel, UNSS Bonaventure, is built in orbit around Earth.
- 2490 Earth rebuilds. A unified Earth Government emerges, as there are no national governments left. A new "Magna Carta" defining human rights is agreed to and work begins on fulfilling its promises.
- 2494 The UNSS Bonaventure mysteriously disappears during a survey mission, with notable Zephram Cochrane aboard.
- 2498 Construction is begun on the first major ship class since before the war. The Verne class is the first "production" warp powered vessel.
- 2501 Humans first encounter the Tellarites when a Tellar exploration ship enters the Sol system. After a brief argument, the Tellarites open negotiations with Earth.
- 2516 The next extra-terrestrial encounter, this time with the Andorians. The UNSS Amnity encounters an Andorian destroyer in the Menkalinan system and challenges its presence. The Andorians immediately open fire on the Amnity, which returns fire. Both ships are damaged and retreat from the system.
- 2517 Earth prepares a massive military build-up in preparation for interstellar war. Cooler heads on Vulcan (also previously aware of the Andorians) prevail, and meetings between Andorians and Humans are arranged through Vulcan mediaries. After finding out that Andorians and Humans have more in common than either believed, a non aggression treaty, and an agreement to share the resources of the Menkalinan fields cements yet another friendship.
- 2521 A vessel of the Vegan Tyranny is found adrift near Mammon. Although events surrounding the salvage attempts remain unclear, the Vegan ship is destroyed, and valuable, if outdated astrogation data is obtained. Data seems to confirm a Tellarite rumour of a massive interstellar trading planet orbiting Rigel, 225 *pc* from Earth
- 2526 A Cosmos class vessel is outfitted for a long duration voyage and sent to Rigel to verify the claims of a trading planet. The voyage lasts two years.
- 2528 The UNSS Marco Polo returns from its historic voyage to Rigel. The voyage, the remotest on record, is a success. The trading planet is there (albeit the second smallest planet of a 12 planet system), and new contacts with over 20 new species are made. It turns out that Earth and Tellar are some of the remotest client species, and that Earth has plenty to offer both in advanced metallurgy and electronics.
- 2534 A Cosmos class vessel is attacked by unknown forces.
- 2535 The first Man - Kzin wars. More attacks result in open warfare between Earth forces and the unknown enemy.
- 2537 The Man - Kzin war ends when Kzinti ships are jumped by a combined Andorian and Tellarite fleet. The Kzin disappear from Earth space after realizing that the Earth has allies. The exact location of Kzinti territory is not revealed.
- 2541 The UNSS Valiant disappears on a deep space exploration mission.
- 2543 After so many events between themselves the planets of Earth, Alpha Centari, Vulcan, Tellar, and Andor agree to form an alliance, and the United Federation of Planets is born.
- 2548 The U.S.S. Horizon is launched. It is the first ship class to be a U.F.P. design.
- 2549 A combined fleet - Starfleet is formed from the planetary forces of the founding members and the new federation designed vessel. The Horizon becomes a flagship explorer.
- 2553 Second expansion begins. The increasing availability of ships leads again to many private colonizing ventures. Most of the expansion is towards the rim of the galaxy, and closer to the Rigel colonies.
- 2555 Disturbing reports of incidents of piracy by an unknown force come to a head by the hijacking of the space-liner Diana.
- 2558 Romulan war begins. Federation colonies towards the rim are attacked by unknown forces.
- 2562 A garbled transmission is intercepted by Federation forces and reveals a name to the enemy: Romulans. Their warships, birdlike in appearance and painted with a likeness of the Romulan War God.
- 2565 A bitter and drawn out war, mainly because of the distance between the front and the Federation heart-worlds, as well as the speed of current vessels, which with the

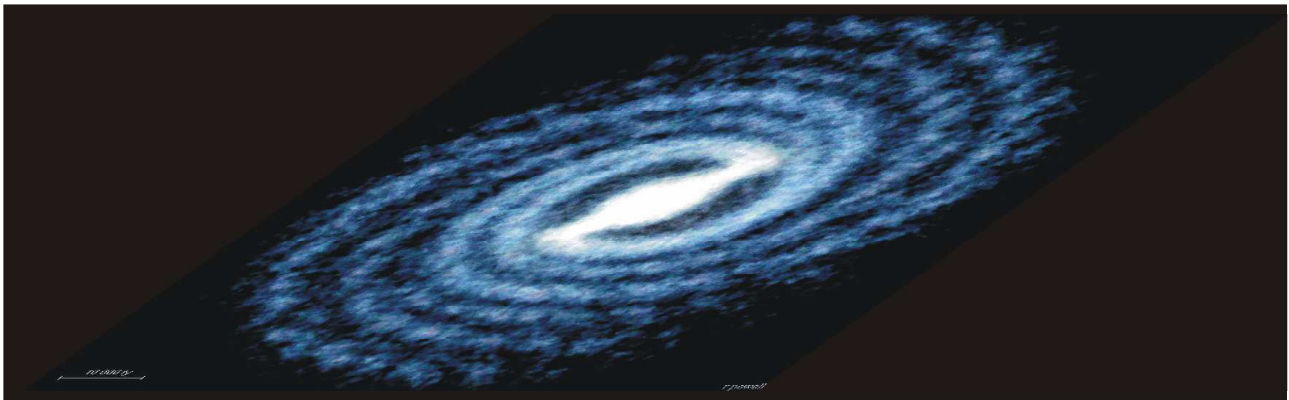
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|      |        | launching of the Texas class cruiser breaks the warp 4 barrier, but still takes over a year to reach the front lines from earth.   |
| 2570 |        | The Battle of Cheron. The last major battle which halts the Romulan advance and pushes back their forces. Cheron is a major Federation outpost with vast mineral deposits and some shipbuilding and repair facilities and acted as the outer capitol of the latest Federation expansion. The Romulan War ends when the Treaty of Algeron is negotiated over subspace radio. The Romulans have generally been on the retreat for the last three years, and the distances were becoming too great for the Federation to maintain an offensive. A neutral zone is established between Federation and Romulan space. |
| 2618 |        | First encounter with the Klingon Empire results in a border skirmish. This sets the tone for future relations with the Klingons.   |
| 2623 |        | Second Man - Kzin war rages between some border colonies. U.F.P. expansion spinward has finally reached the edge of Kzin space.  |
| 2627 |        | The Rim Worlds secede and form the Confederation of Rim Planets. The U.F.P., with other internal concerns, and external pressures, gives the new government its blessing.  |
| 2629 |        | Other planets on the edge of the U.F.P. in a region known as the "triangle" create their own governments. This region of space is trying to maintain independence from the three major powers that border it: The U.F.P., the Klingon Empire, and the Romulans.  |
| 2631 |        | Sidon ships are encountered in Federation space. Relations are peaceful at first, until the Sidons realize that Earth is an important member of the U.F.P. Holding to some unknown vendetta, the Sidons attack two human colonies in the anti-spinward regions. These colonies are completely wiped out. The Sidons attack only human dominated colonies.  |
| 2633 |        | Admiral Larson's War. Having lost his entire family on one of the attacked colonies, Larson takes a fleet of ships and heads into Sidon space. His fleet, spearheaded by new Mann and Baton Rouge class cruisers were technologically superior to the known Sidon vessels, but the size of their forces, as well as the extent of their realm was, and still is unknown. Branzdon III, the only known Sidon colony was completely wiped out by Larson's forces, and the fullness of his advance into Sidon space is unknown. There has been no further contact between the Sidons and the U.F.P.                 |
| 2645 |        | The Constitution class cruisers enter service. The U.S.S. Enterprise is commanded by Robert April.   |
| 2651 |        | The Four Years War begins - between the U.F.P. and the Klingon Empire. The new ships of Starfleet are put to the test.   |
| 2652 |        | The new "Class 1" starships are refitted with phaser and photon torpedo weaponry during the war.   |
| 2655 | 1067.3 | The Four Years War ends. The war is inconclusive with territorial gains and losses by both sides. The Federation is slightly ahead by gaining 17 planets while only losing 14.   |
| 2662 | 0000.0 | The stardate system of time is established.  |
| 2665 | 1201.0 | The U.S.S. Enterprise is given to Capt. J. Kirk after Capt. Pike is disabled in an accident.   |
| 2675 | 4950.0 | The U.S.S. Enterprise returns to dry-dock after two 5-year exploration missions.   |
|      |        | The Galactic General War begins. War erupts between the Kzin and the Klingon Empire, while Federation outposts along the Klingon border are attacked by a new force. Help from an unexpected ally, the Hydrans, brings the Romulans, Tholians, and the Gorn into the battle. The Enterprise sits out the war   |
| 2682 | 7412.6 | The U.S.S. Enterprise is refitted with new technology, including linear warp drives.   |
| 2683 | 7970.0 | The Galactic General War Ends. Aside from causing severe damage to all parties and <b>increasing</b> the number of known realms, the war leaves little gain to anyone. Chaos rules, piracy runs rampant, and the Interstellar Concordium has declared itself the galaxy's policemen.   |
| 2684 | 8130.0 | The detonation of the "Genesis Device", under peculiar circumstances provokes an interstellar incident. In the long run, not much is done about it as the galaxy is cleaning up after pushing back the ISC and a new invasion fleet from the Kelvan Empire.  |

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| 2688 | 9521.6  | The U.S.S. Excelsior is commissioned. After the failure of trans-warp experiments, The vessel is fitted with a conventional but significantly improved warp drive. The Excelsior is commanded by Capt. H. Sulu. |
| 2691 | 10617.6 | Praxis explodes. A major power center for the Klingon empire, the incident brings the Klingons and the Federation to the Khitomer Conference and the first real peace talks between the two entities.           |
| 2694 | 11914.0 | The Federation commences construction of the Star Cruiser Program. Building begins on the Constellation, Excelsior and Miranda classes.   |
| 2700 | 13880.0 | The UFP enters its third century. . .   |
| 2718 | 20087.5 | U.S.S. Enterprise - NCC 1701-B commissioned, as a modified Excelsior class vessel.  |

# CARTOGRAPHY : Milky Way Galaxy

The Galaxy that contains Sol, Earth, the United Federation of Planets, and all of explored space is the Milky Way Galaxy. The Milky Way Galaxy is the second largest galaxy in the Local Group Cluster, and one of the four spiral galaxies in the Local Group.

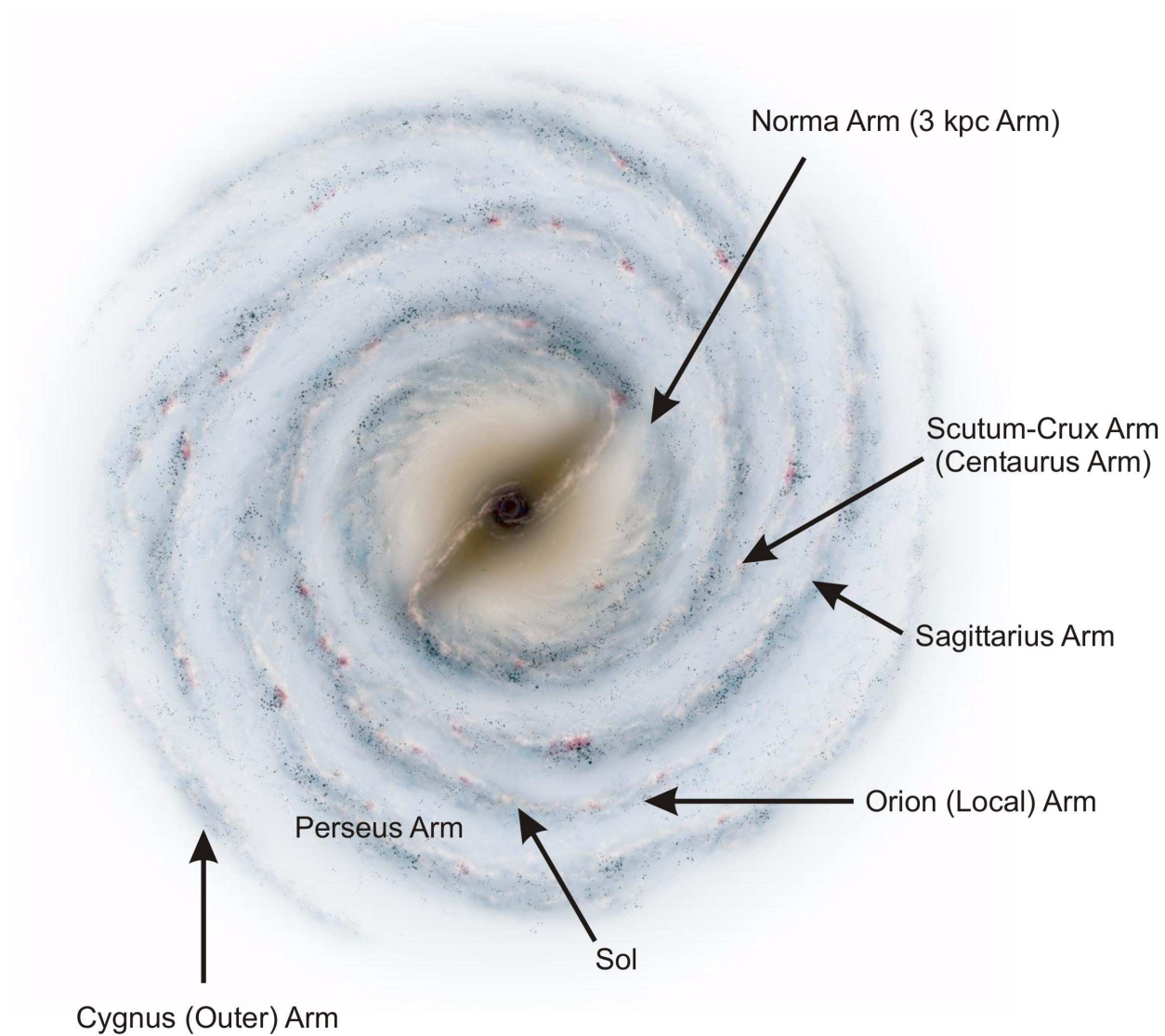
The Milky Way Galaxy is a barred spiral galaxy, of type SBbc (loosely wound barred spiral) with a total mass of about 1 trillion solar masses, comprising 200 to 400 billion stars. The main disk of the Milky Way Galaxy is about 30,000 *pc* in diameter, and outside the Galactic core, about 500 *pc* in thickness. The Galactic Halo extends out to 100,000 *pc* from the centre.



The structure of the galactic disk is that of a four-arm logarithmic spiral. The distance from the Sun to the galactic centre is about 8300 *pc*. The disk bulges outward at the centre.

The Sun (and therefore the Earth and Solar System) may be found close to the inner rim of the Orion Arm, in the Local Fluff.





### **Milky Way Galaxy: Terra-centric Point of View**

The Milky Way Galaxy is a SBbc spiral galaxy with a radius of 15 000 parsecs. The nucleus extends to a radius of 3700 parsecs and the limit of the galaxy is considered to be 100 000 parsecs to the edge of the galactic halo. The stellar population of the Milky Way Galaxy is estimated to be 300 billion.

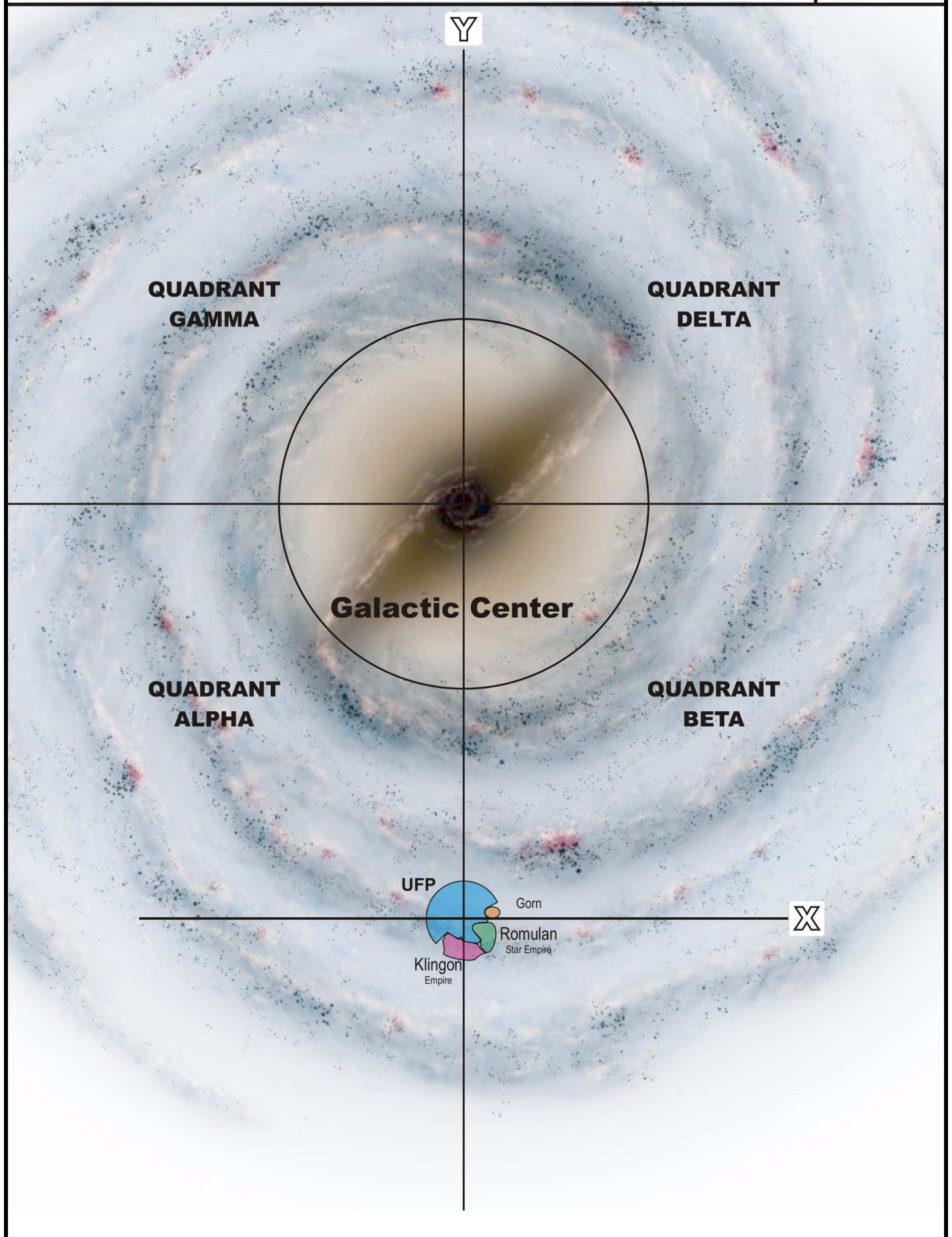
Accurate astro-metric data is still unavailable for the central region of the galaxy and the spiral arms at a distance greater than 5000 - 6000 parsecs from the core of the U.F.P.

The United Federation of Planets is located in the disk of the galaxy, on the inner edge of the Orion Arm. The U.F.P. center is located 8300 parsecs from the galactic center. The U.F.P. treaty exploration zone is a spherical region centered on the disk of the galaxy, and is 750 parsecs in radius. The volume of the U.F.P. treaty zone is  $1.77 \times 10^9$  cubic parsecs, a volume consisting of 0.07% of the galaxy (not including the galactic halo). The treaty zone was created this way to be a zone surrounding the U.F.P. heart-worlds. The zone extends into the Sagittarius Arm of the Galaxy, which remains unexplored at this time.

# MILKY WAY GALAXY

Through the Galactic Plane:  $Z = 0$  pc

1 cm : 1000 pc



### **Milky Way Galaxy: Z = 200 pc (North)**

This map is of the galactic disk centered on the plane parallel to the disk and lying 200 pc to the galactic north of the disk plane. The region covered extends from Z= 100 pc to Z= 300 pc.

The Galactic Disk is approximately 550 parsecs thick through the region of space that the U.F.P. occupies. The centroid of the Sagittarius Arm is 660 pc thick while the centroid of the Orion Arm is 550 pc thick. The region of the U.F.P. treaty exploration zone that extends out of the disk remains mainly unexplored. The political zones depicted are for the cross section at Z= 200 pc.

The United Federation of Planets core worlds extends into this region. The core of the federation, is a sphere with a diameter of 550 pc, the thickness of the arm at that point. The original boundary was defined by the founding member worlds and forms the federation proper.

The U.F.P. treaty zone has been extensively explored rim-ward, and down the Orion Arm. Colonization in this region is also extensively rim-ward, toward the Klingon and Romulan empires, for defensive reasons.

The northern reaches of both the Klingon and the Romulan empires extend into this region, but expansion from both empires is rather light. The Rim Worlds Confederation, whose planets seceded from the U.F.P. in 2627 occupy a region immediately rim-ward from the core worlds.

The Federated Worlds of Sidon are believed to lie in this region, approximately 650 pc anti-spinward and down arm from the core of the U.F.P. An active region of space is centered around the WYN star cluster, which is surrounded by the Klingons, Kzinti, and Lyrans. The lyran empire a Klingon ally during the General War, lies to the spinward of the U.F.P. core and is estimated to be at least 1100 pc distant. The Hydran Kingdom, known to be "directly opposite from the Klingon Empire" may also extend into this region of space. Also located rim-ward is the Tholian Assembly. The southern extent of the Interstellar Concordium also extends into this region, but is believed to lie at least 1300 pc away.

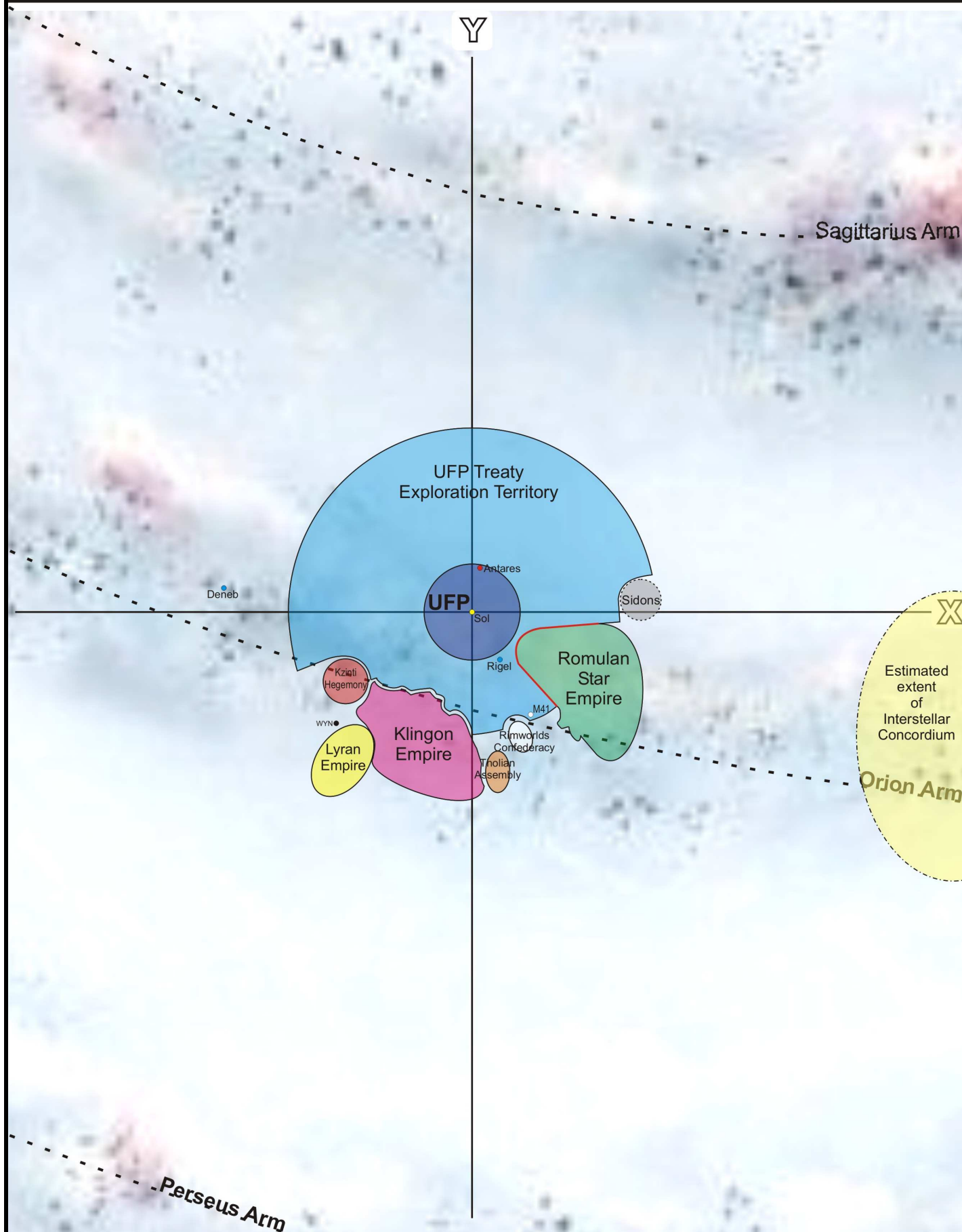


# MILKY WAY GALAXY

Galactic North

Z = 200 pc

1 cm : 200 pc



### **Milky Way Galaxy: $Z = 0$ pc**

This map is of the galactic disk centred on the plane parallel to the disk and lying directly in the disk plane. The region covered extends from  $Z = -100$  pc to  $Z = 100$  pc.

The heart worlds of the U.F.P., Klingon Empire, and Romulan Star Empire lie in this region. The political zones depicted are for the cross section at  $Z = 0$  pc.

The United Federation of Planets core worlds is centred on this region. The original boundary was defined by the founding member worlds and forms the federation proper.

The extent of U.F.P. expansion into the treaty zone is at its greatest in this region. colonization has spread out in all the directions except towards the Sagittarius Arm, but expansion in that direction is beginning. The region toward Klingon and Romulan space are colonized the heaviest.

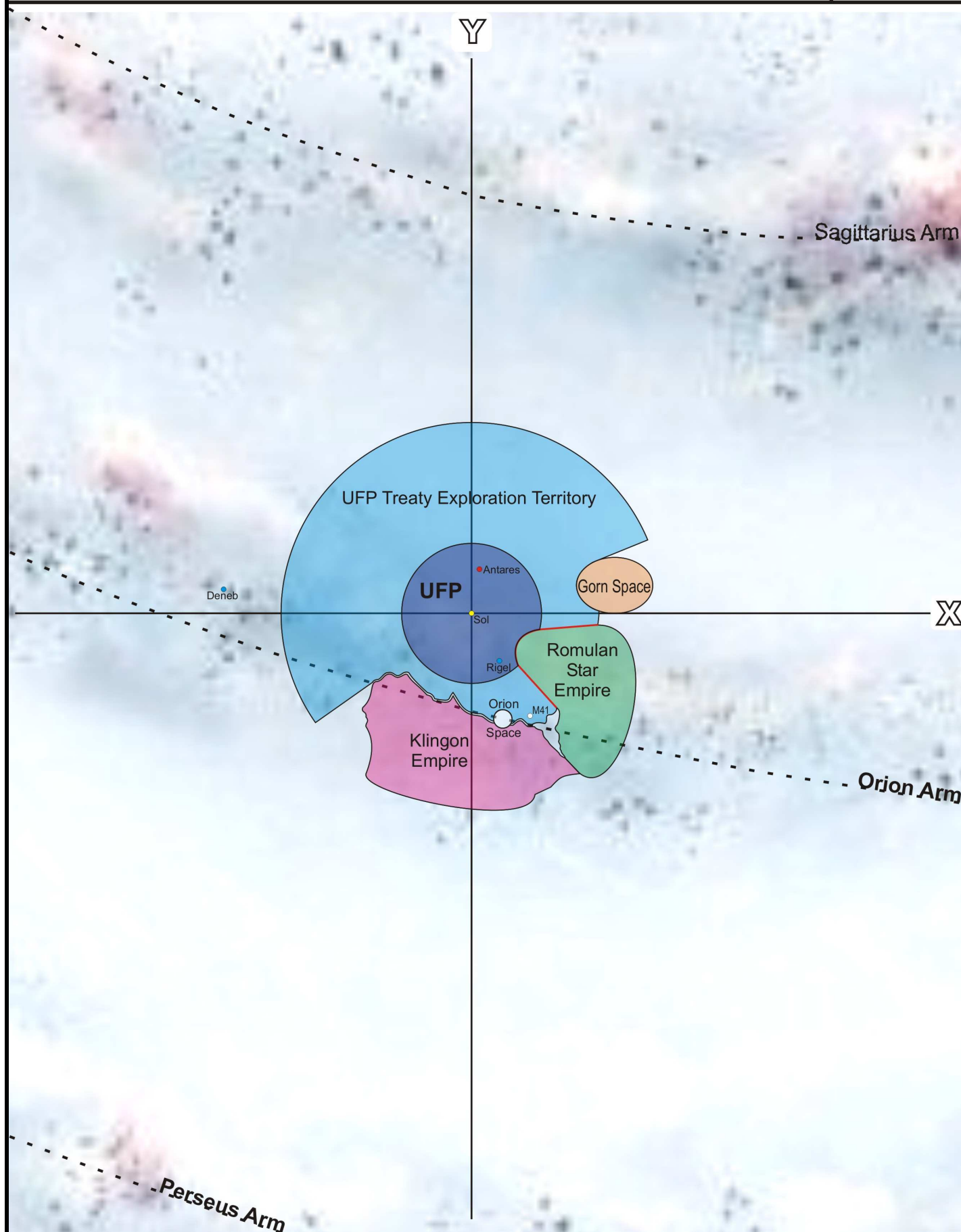
The central regions of both the Klingon and Romulan empires also are found in this region. Both empires lie to the rim-ward side of the Orion Arm and have been trying to expand across the arm - into U.F.P. territory. There are some U.F.P. founded colonies that lie outside of the Federation, in a region of space known as the triangle. Some of these colonies have formed independent star nations. there may also be some independent star nations lying in the treaty zone, in unexplored regions. The northern extent of Gorn space also extends into galactic north, approximately 550 parsecs due anti-spinward from the heart of the Federation.

# MILKY WAY GALAXY

Galactic Centre

Z = 0 pc

1 cm : 200 pc



### **Milky Way Galaxy: Z = 200 pc (South)**

This map is of the galactic disk centred on the plane parallel to the disk and lying 200 pc to the galactic south of the disk plane. The region covered is again 10 sectors thick, and extends from Z= -300 pc to Z= -100 pc.

The Galactic Disk is approximately 550 parsecs thick through the region of space that the U.F.P. occupies. The region of the U.F.P. treaty exploration zone that extends south out of the disk remains mainly unexplored. The political zones depicted are for the cross section at Z= -200 pc.

The heart worlds of many known races lie in this region. The political zones depicted are for the cross section at Z= -200 pc.

Although at least three major interstellar powers impinge upon the Federation's treaty zone, colonial expansion by the U.F.P. has been light in this region, mostly near the Klingon and Romulan empires.

The major extent of the Klingon and Romulan empires is centered on the disk of the galaxy, but their expansion has been primarily to the galactic south rather than to galactic north. The bulk of Gorn space lies in this region, with its nearest border near Cestus III, less than 450 pc from earth.



# MILKY WAY GALAXY

Galactic South

Z = -200 pc

1 cm : 200 pc

