

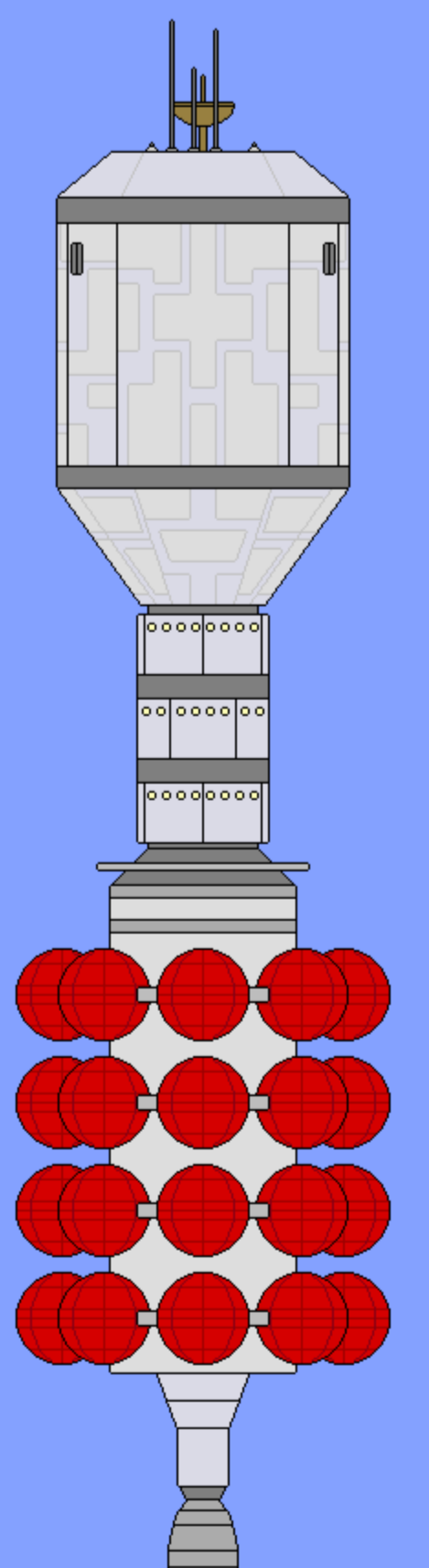
DYNAMICS'

STAR FLEET

STARSHIP RECOGNITION MANUAL

REPORT: COMPANION

CRUISER





FORWARD

My contribution to this project would not have been possible without those who came before me. Mainly, CaptShade, whose original drawings laid the foundation for my work by providing me the figurative and literal tools for my own creative output. Nichodo, who was a big help in creating aft and ventral views of various components. RevancheRM, whose ideas and drive helped me get a little more creative and better at something I really enjoy. And, most definitely, Neale "Vance" Davidson, whose enormous volume of work got me interested in doing this in the first place, and for inspiring us all.

- Adrasil

First, as always, thanks to Adrasil. Since partnering with him, I've taken some great artwork and added some context to it. He's really allowed me to scratch my writing itch, to the point it sometimes bleeds, but still feels Oh-So-Good. Next up, of course, is Timo Saloniemi, who's work I've been following for around two decades and I greatly respect. The artwork in these "Starship Recognition Manuals" are 97% based upon the ones he describes textually in his grand opus, the "Hobbyist's Guide to the UFP Starfleet and Its History," and 3% derived from what he has inspired in us.

- RevancheRM

Additional reports may be found at: starshiptracker.com/deltadynamics

CREDITS

ADRASIL: All imagery (unless otherwise credited)

www.DeviantArt.com/Adrasil

REVANCHERM: All writing (unless otherwise credited)

www.DeviantArt.com/RevancheRM

NEALE 'VANCE' DAVIDSON/JAYNZ: Project & cover concepts

www.DeviantArt.com/TFVanguard

Jaynz.Trekships.org

STAR TREK DESIGN PROJECT: Source of sponsor icons

www.StarTrekDesignProject.com

TIMO SALONIEMI: Author of "Hobbyist's Guide to the UFP Starfleet", the inspiration for these SRMs. A direct link to his Google Drive may be found on most deviations in RevancheRM's gallery.

COMPANION SERIES:

- Original inspiration from: Federation Spaceflight Chronology (Vol. 3)

NOTE FROM THE WRITING EDITOR

These ships do not always exactly match the specifications Timo provides in his technical section for each class, as I've adapted them in ways that allowed them to fit a bit better with the guidance provided by the starship construction rules in Steven Long's "Spacedock". I've also changed some dates around when I found them in conflict with other information Timo has provided. These two books greatly inform my own alpha-canon and I urge you to look up both online, as offered free by their respective authors. (Links to both are provided on the Delta Dynamics site.)

Delta Dynamics' Starship Recognition Manual, along with the Reports and all other similar publications released under that branding, are released as a public service to familiarize interested beings with the historic starship designs and technical developments of the United Federation of Planets Star Fleet, its member and preceding services, and those services of regional galactic neighbors. Despite the occasional presence of a sensitive nature of both those historic events and technical matters discussed herein, the distribution and handling of this publication has been ruled Security Grade 0 (Unclassified) by Star Fleet Support Operations, Office of Security.

Copyright 2422 by Delta Dynamics, Wellington, Earth.

Memory Terra/Memory Alpha Cataloging Data: UFP ITP/TE 7259381460305

Under the laws of the United Federation of Planets and its members, use or reproduction (in whole or in part) of the information contained in this publication—along with proper attribution of its source—is granted. This edition is authorized for distribution only in member star systems of the UFP its territories and possessions, affiliated star systems, and select independent or neutral star systems. "Star Trek" and all related likenesses are copyrights and trademarks of Paramount Global. This publication has been established for informational and entertainment purposes only. No infringement of copyright nor trademark is intended. Why don't you go chase an asteroid?

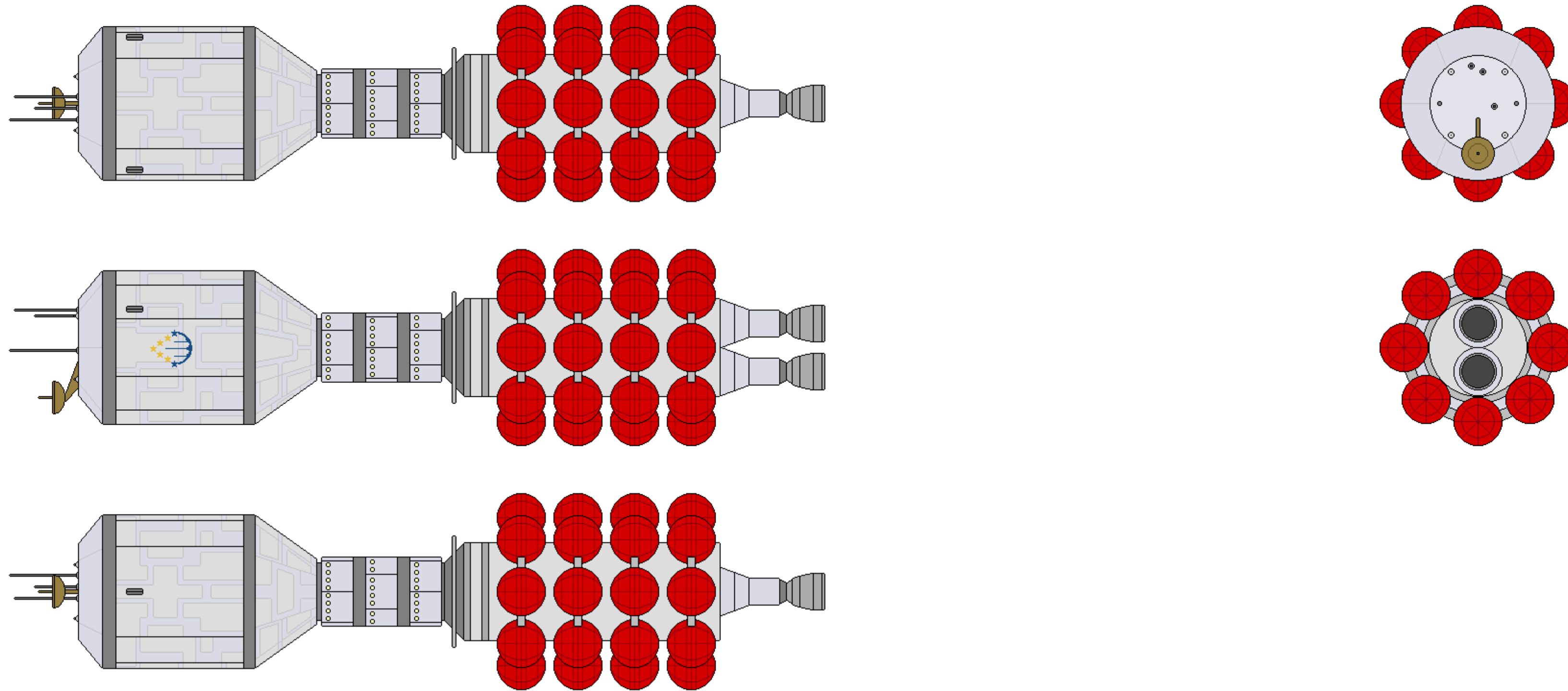


CONTENTS

COMPANION	CRUISER	PG 02:01
CLASS TIMELINE		PG 03:01
SHIP COMPARISON GUIDE		PG 03:04
GLOSSARY		PG 03:05
SPONSORS		PG 03:09
OTHER PUBLICATIONS		PG 03:10



COMPANION CLASS



CATEGORY: CRUISER
 OPERATIONAL: 2033 - UNK
 CONSTRUCTED: 14

DIMENSIONS:
 LENGTH: 156.0 M
 BEAM: 37.9 M
 HEIGHT: 37.9 M
 MASS: 65,000 MT

TACTICAL:
 - 4X 51 MW PRE-SORAC LASER MOUNTS
 - 5X MISSILE BAYS
 (W/ 25 MK II FUSION MISSILES)

PERFORMANCE:
 MAX: 0.18 C
 ENDURANCE: 11 MONTHS

AUXILIARIES: N/A

COMPLEMENT:
 CREW: 22

AUTHORIZED CONSTRUCTION

THE FOLLOWING SHIPS OF THE ABOVE CLASS WERE AUTHORIZED AS PART OF THE WESTERN ALLIANCE SPACE AGENCY BY WESTERN ALLIANCE COUNCIL APPROPRIATION.

AWSS ALAN BALL
 AWSS ANTON YORK
 AWSS FLORENTIN CÔTÉ
 AWSS GABRIEL JANSEN
 AWSS HANNES REUBKE
 AWSS JUAN CARLOS PEDRERO
 AWSS KAROL ZDANOWICZ

AWSS LARS RAES
 AWSS MARCUS HOLDER
 AWSS ROMOLO EZZO
 AWSS SARAH SUSAN ECKERT
 AWSS STAMATIOS MELOU
 AWSS TORBEN KÄSTNER
 AWSS TUE DALSGAARD



COMPANION CLASS GENERAL INFORMATION

Despite the extreme loss of historical references as a result of World War Three, the overall facts and impacts (no pun intended) of the Swarm crisis are generally well understood by the modern populace. However, because the development and operation of the Companion class, Earth's first designated cruiser, are both so dependent upon those events and the geopolitical developments that followed, a brief synopsis is warranted.

The Impact Diversion Inspection Centre was an early Western Alliance (WA) project that grew out of NASA's highly-automated system for predicting threats from near-Earth objects (NEO). In 2026, the program reported an extremely high probability of a series of strikes from 17 asteroids on a multi-millennial orbit of the Sun. The catastrophe was anticipated to occur over a three-year period starting in 2031.

The timing of the threat could not have been earlier and still result in such a positive outcome, as it was only in this point of Humanity's history that it first had the ability to fend off such a calamity. The New United Nations (NUN), through the collaborative efforts of many of the world's countries, was able to not only send manned and drone craft to intercept and divert every single one of these cataclysmic-level threats, but six were actually captured and placed in Earth's L5 position, becoming mining and scientific habitats. The benefits to humanity were immediate.

This collaboration also came with political lessons. Premier Lee Kuan of China, though very appreciative of the results of the planet's collective efforts, was inspired by how important the Eastern role was to the success of the overall mission. In 2031, he convinced like-minded nations in the Far and Middle East to form a political and militarized partnership similar to the WA, with the intent to grow a political base rivaling the one that had developed within the NUN. However, it became even more clear, when the Eastern Coalition (ECON) made overt attempts to re-balance authority in their favor, that the Western Alliance held most of the best cards.

The Companion cruiser was conceived during the crisis environment of the Swarm threat and launched in the politicized period of the ECON parturition. Even as early as 2029, when the first plans for the class were presented, the Western Alliance comprehended the probability of the world's survival of the existential threat and prepared for the potential of a growing competitor to its NUN dominion from Eastern nations in a post-Swarm system. When unveiled, the Companion was heralded publicly as a mission spacecraft designed to destroy medium-sized asteroids flocking around the primary 17 metropolis-sized rocks and a post-Swarm response to future NEO threats; internal to the military coalition, it was understood the ships would serve as pre-existing "defense" cruisers to any future Eastern naval force that would be conscripted from the post-Swarm civilian flotillas.

The arrangement of the ship in its anti-asteroid mission was well-reasoned, though justifiably militaristic when the operating agency was considered. The most outstanding features were the thirty-two red jettisonable fuel tanks so very common on ships of the intrasystem era, completely ringing the longer aft engineering section. These tanks were considered essential for the multiple high-gee maneuvers in approaching and then decelerating against the mission targets. Laser weapons of the pre-Sorac classification, in the 51-mw capacity, were heralded as the best focused-energy tool ever yet mounted on a mobile platform and praised for their peaceful purpose. Because the cycle time was limited to once per minute, four were mounted on the bow in order to maintain continuous engagement of the targeted asteroid. Two missile bays were also mounted in the bow, to allow for multiple nuclear-armed missiles to assist in the break-up of subjects of reasonably greater mass. (The massive primary threats to the planet were handled by individualized projects employing multiple teams and vessels; embedded explosives were employed only where engineering specialists deemed most effective in changing the targets' centers of mass via fracturing, so that tug vessels working in concert could alter the trajectory and velocity.) The three additional missile bays located around the sides of the bow section were not explored in the open-source media of the time, other than identified as secondary delivery systems for the ordnance.

The bow served as the command & control module for the 22 Western Alliance crewmembers, and included messing and medical bays. The central "stalk" of the vessel was primarily limited to berthing and considered rather spacious, with most of the crew enjoying two-person suites, each with multiple portholes (that could be blackened with internal lead-lined plating). Gravity couches were installed throughout all manned areas of the ship in order to allow the bridge watchstanders to immediately take maneuvering actions deemed necessary, without injuring any of the vessel's crew. The twin Goion-branded GI-47 main ion drives were supported by the massive engineering module that provided the multiple lines of fuel delivery from the external tanks to the drives; the section also contained all but the sectionalized emergency life support equipment for the entire ship.

In reality, the Companion "mission spacecraft" was rather late to the game. Even though the first three of the 14 vessels (named after Western state leaders of the recent past) were launched in early 2033, the NUN's Swarm Diversion project did not factor the class into its principal plans. The "flocker"-sized asteroids were assigned for destruction to tertiary contract companies and



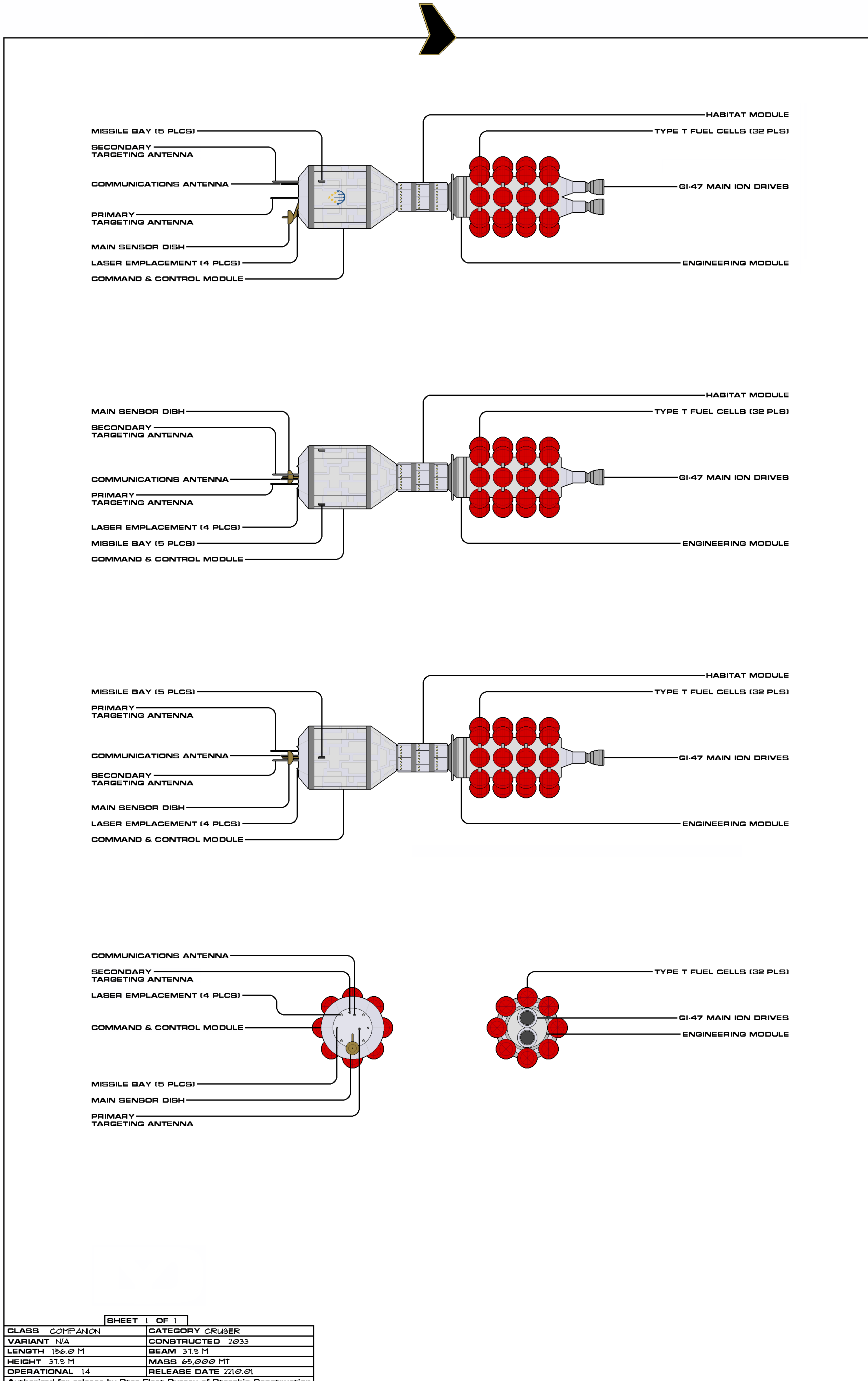
COMPANION CLASS GENERAL INFORMATION

their attendant vessels; those efforts were only re-assigned as the Companions arrived on the respective scenes. The vessels had zero tow capacity and, thusly, their only endeavors were limited to gunnery duties. When the secretary-general exuberantly proclaimed victory in the second half of the year, eight additional vessels were still under construction. Publicly-raised concerns to the SWARM project lead-amidst her responsibilities in shuttering the project-regarding the continued production were deferred to the Western Alliance; short and ambiguous statements about developing a permanent NEO patrol & response schedule for the ships were returned. Inquiries into operational authority by the International Space Agency (ISA) went unanswered.

True to their word, the Western Alliance deployed the Companions along intricate patrol paths that included all the Aphrodites (now employed as small stations, both by the ISA and private entities), points throughout the Main belt, stopovers above Venus & Mars, and "pop-up patrols" above and below the solar plane. Though purportedly meant to serve the NEO awareness role, missions often overlapped with those of the ISA, including first response & rescue, supply runs, and the overt showing of the flag, especially at ECON-associated activities (private & public). A procedural tradition developed on these patrols, wherein a Companion would transmit its available supply inventory to Aphrodite stations within days of projected arrival, so that transfers could begin immediately and then patrol routes re-joined. All were used to this service and engaged positively, with the exception of one remote station privately owned and inhabited by a reclusive and disgraced electric ground vehicle magnate; his simple response of a colloquial challenge to the vessel's commanding officer to engage in congress with his or her own mother became the expected close to the semi-regular radio communications, though those unexpectedly stopped in 2039.

At some point after the conclusion of the Swarm crisis, the "mission spacecraft" appellation was dropped in favor of "cruiser", though historians think this started occurring closer to the year 2052, as tensions within the New United Nations started simmering. Mostly exhibited by the ECON towards the authority of the Western Alliance, some of the developing African and near-African leagues could be goaded to break from the usual political blocs that had taken root, especially in regards to economic sovereignty issues. Starting in 2053, the Western Alliance would find its dominating presence challenged at some locations by the ECON's own Keldysh cruiser class which, while smaller than the Companions, was considered to be equivalent in combat capability. (Some details of alleged clashes between these vessels will be detailed in a later issue.)

It is not clear as to when the Companion class became non-operational, but post-First Contact reports by the Vulcans do not mention the vessels in any capacity.



SHEET 1 OF 1

CLASS	COMPANION	CATEGORY	CRUISER
VARIANT	N/A	CONSTRUCTED	2033
LENGTH	156.0 M	BEAM	31.9 M
HEIGHT	31.9 M	MASS	65,000 MT
OPERATIONAL	14	RELEASE DATE	2210.01

Authorized for release by Star Fleet Bureau of Starship Construction



CLASS TIMELINE

2024

Several European nations, including France, become politically destabilized.

The Bell Riots in the United States, the Neo-Trotsky Movement in Russia, a resurgent eugenics movement in Southeast Asia, and the Avignon Riots in France harken destabilization.

Ireland is reunified by force.

2025

The Venus Terraforming Project begins.

2026

Factions of eco-terrorists launch a series of attacks that are responsible for as many as 37 million deaths.

Astronomers detect a series of asteroids on a clear path for a near-Earth passage.

Multiple analysis of the threatening asteroids confirms a number of them will collide with Earth over a period of three years (starting in 2031), threatening all life.

2028

The Galileo experimental propulsion ship is lost in a catastrophic failure of its hydrogen-2 supply.

2029

Fusion power technology is achieved; work immediately begins to make it space-capable.

The Western Alliance Council authorizes the appropriation of funds for the Companion class mission spacecraft, ostensibly an anti-Swarm platform.

2030

The Ares I is Earth's first manned mission back to Mars, since the fall of the Great Khanate.

The first successful and controlled matter-antimatter energy conversion is tested under laboratory conditions.

2031

The Western Alliance, Pan-African Alliance, Muslim Bloc, and a mix of nations from the Far and Middle East achieve the first success in the global project to divert the orbits of a number of asteroids due to impact the planet. The effort is able to capture six of the fragments, eventually moving them to Earth's L-5 point, where they are eventually hollowed out and converted to O'Neil-style space habitats: Vanguard colony, Colony Roykirk, the Moss-Offenhouse colony, the NicholCorp facility, the Brynner Asteroid, and the Starling Habitat.

Most Asian, and many near-Asian, nations formalize their relationship into the Eastern Coalition.

2032

Zefram Cochrane is born in St. Paul, Minnesota.

The Ares IV mission to Mars fails when the command capsule disappears, stranding two astronauts on the surface.

The Ares V launches early to perform the rescue of the stranded Ares IV astronauts.

2033

The Western Alliance introduces the Companion class cruiser.

The secretary-general of the New United Nations exuberantly proclaims victory against the threat of the Swarm.

2034

The L-5 O'Neil Support Station, Asgard, is completed and begins assisting in the development of the colonies within the captured asteroids.

2035

The multi-national manned prototype AFP-1 experiments with an e-beam pulsed fusion detonation drive, but meets with disaster; 14 lives are lost.

The Central African States are formed from 10 central nations.

2036

The New United Nations declares "no Earth citizen can be made to answer for the crimes of their race or forebearers".

2037

The nations in the northwestern part of the continent form the Northern African Alliance.

2039

The Lewis and Clark returns to Earth from the Aventure I mission. The evidence of extraterrestrial mining on Saturn's moons is released to select space-exploration nations. This concludes the Grand Tour.

2040

The Mediterranean Alliance forms.

The refitting of the DY-130 interplanetary transport SS Black Mamba to ISA specifications begins.

2041

The United States begins assembly of a new Space Station Freedom, which will monitor near-space for threats to Earth (and the US) and will have construction berths.

2042

The refitted & militarized DY-130 interplanetary spacecraft re-enter service as the DY-135 Black Mambas with the International Space Agency.

2045

Analysis of interferometry telescopy and probe flybys confirm the existence of at least seven planets in the Alpha Centauri system, assuring the scientists that return propellant can be manufactured there, and hinting at the presence of carbon-based life on the third and fourth planets of the system.



CLASS TIMELINE

A serious accident during the fueling of UNSS Columbus led to eight fatalities and damage to the spacecraft.

2046

UNSS Icarus boosts from Earth orbit for Alpha Centauri A.

US Strategic Command takes UNSS Columbus from NASA (though administered by the ISA) and begins adding armaments.

2047

After twenty-two years of hard work, the Venus Terraforming Project has progressed to the point where the first non-Augment manned base can be established at the planet's North Pole.

2049

Five of the Akademik Mstislav Keldysh class cruisers are ordered to serve the interplanetary interests of the ECON.

Dr. Zefram Cochrane is provided a sizable sample of the red coral crystal, ununennium, from the Christopher mission and realizes that it exhibits attributes of the (extremely) theoretical hypersonic series.

2050

UNSS Icarus arrives in the Alpha Centauri A system.

2051

Lee Kuan overthrows the emerging democratic movement within the government of the Eastern Coalition, cementing the ECON's hardline opposition-stance to the New United Nations' policies.

2052

The US government begins construction on a large defensive space cruiser, tentatively christened the Seneca, in the Freedom Assembly Berth 02 drydock.

The New United Nations sides with the Western Alliance on legal use of oil fields in the South China Sea and Antarctica. The ECON secedes from the NUN in protest.

A series of confrontations between the New United Nations and the ECON begin to occur over oil fields located in Antarctica and China.

2053

The militarized Columbus is destroyed by an ECON attack, while in orbit.

The climax of World War Three breaks out when the ECON strikes the NUN states first with nuclear attacks, resulting in the deaths of an estimated 600 million.

The First, Eighth, and Sixteenth Fleets under New United Nations command carry front-line troops into the Bay of Bengal, and the ECON launches a massive invasion of the North American continent, sending troops and military aircraft southward through Canada. Targets in New England (including Massachusetts),

Minnesota, the Rocky Mountains, and the Midwest are hit hard by ECON forces, the U.S. military's defenses along the Canadian border failing utterly. The United States Air Force and Army both fight back against the invaders, but lose many fighters and ground soldiers to the opposition.

In light of the excess damage of the world war, the New United Nations collapses. The state of Texas secedes from the United States.

Following the collapse of the NUN in the final stages of World War III, the United States takes administrative control of the International Space Agency.

The Siege of Las Vegas is a significant battle in the war, with American forces battling ECON troops for control of the city. The forces of the Eastern Coalition eventually prove victorious, defeating the U.S. troops there. During fighting in Paris during the war, the Eiffel Tower is destroyed. Additional combat takes place in San Francisco, resulting in the destruction of the Coit Tower, among many other structures.

The main laboratory at Kashishowa Research Station literally disappears from the surface of Luna, taking most of the station with it and leaving behind a perfectly smooth crater 18 meters in diameter. This event appears to have resulted from an overload due to a warp drive experiment.

The war concludes when several of Earth's governments meet in San Francisco to declare a cease-fire.

2054

Colonel Green surprises the surviving United States government by turning up in Alaska at the head of a massive army comprised of both NUN and ECON soldiers. President Mendoza orders Green to stand down, but is refused; Green slaughters his way across the continent, culling the "weak" and "impure" and those afflicted with radiation-sickness from humanity's gene pool, killing millions.

Inspired in part by what will become the Conestoga project (or the Great Experiment), New Berlin colony is established on Luna and multiple mining colonies within the asteroid belt are set up and begin sending necessary resources.

The Australian Space Defense (ASD) is founded from the large number of ground-based ISA command and control assets located in that country. The newly-sovereign nation of Texas forms the Texan Aeronautics and Space Agency (TASA) from its co-located NASA assets.

2055

The United States Air Force cancels plans for the launch of its WD-1, a faster-than-light test vehicle.

The Eastern Coalition formally becomes a nation, subsuming the member states into political regions and retreating within the haphazard recovery processes that define the era known



CLASS TIMELINE

as the Post-Atomic Horror.

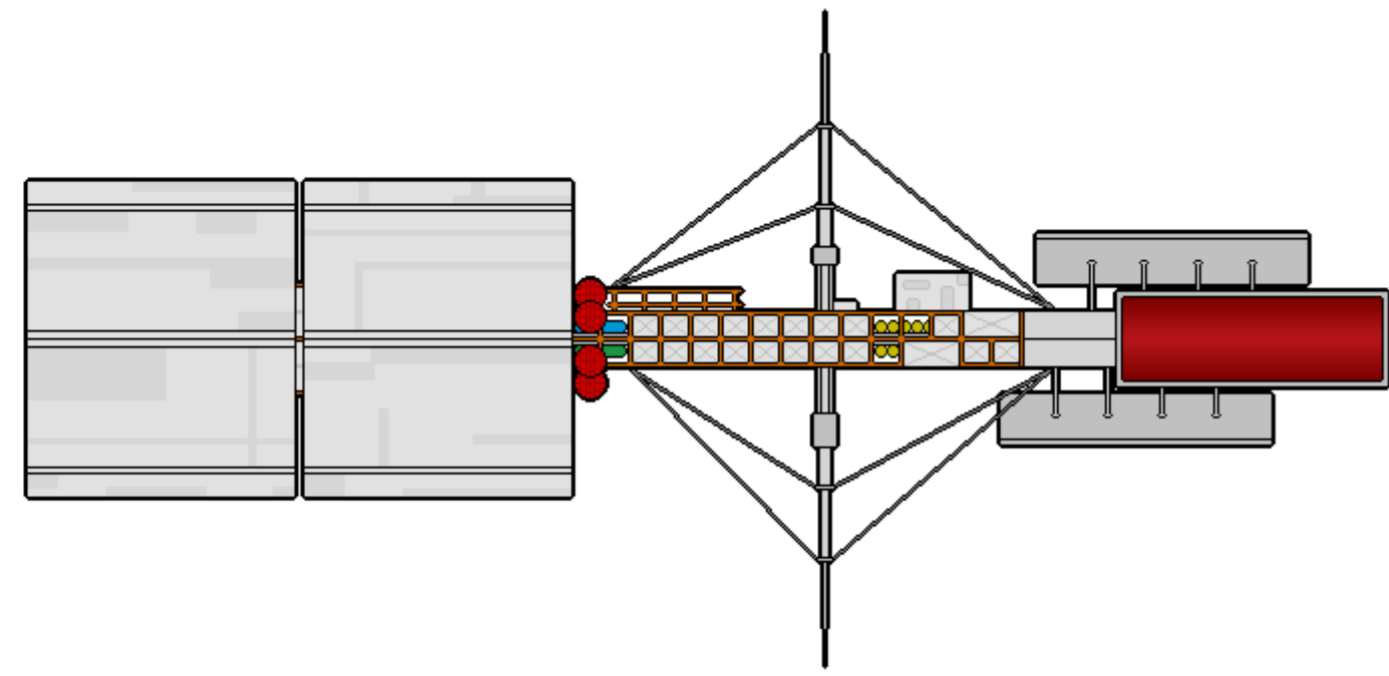
The final edition of the Treaty of San Francisco, formalizing the end of World War III, is signed.

Copernicus City is founded on Luna.

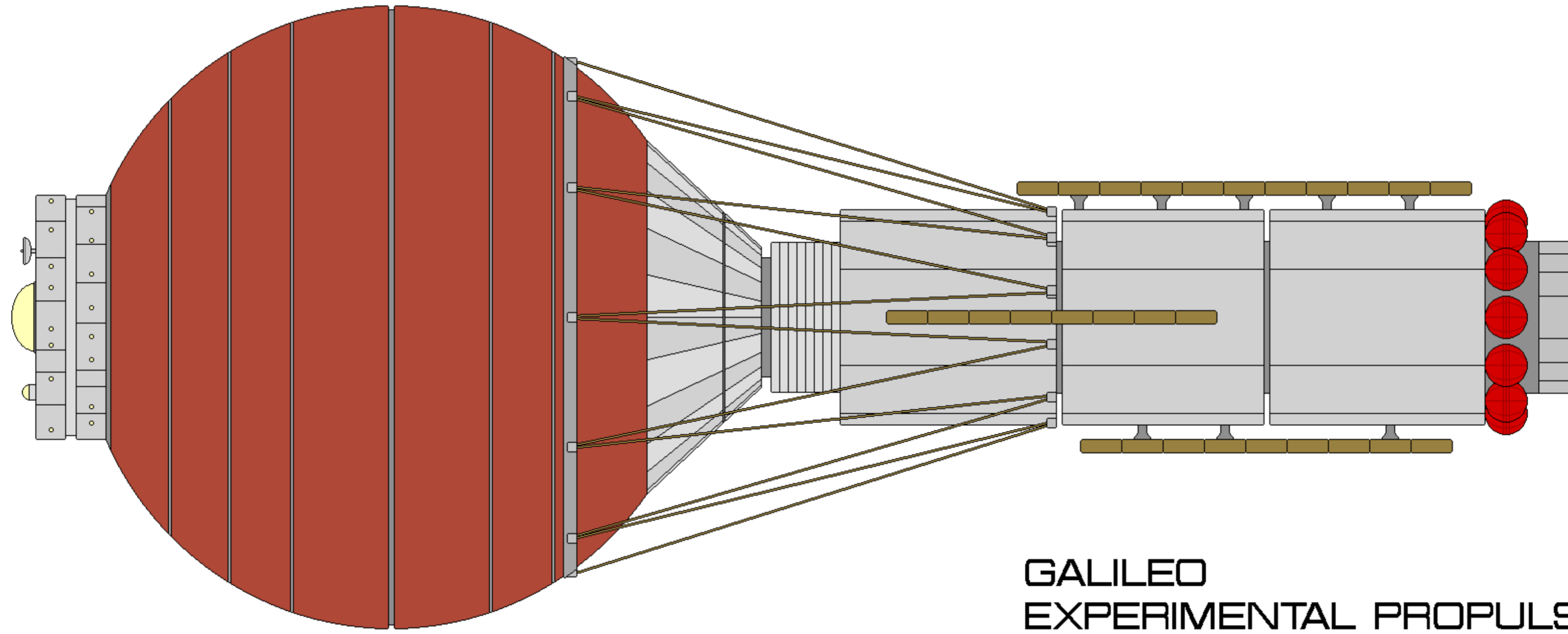
The Vulcans initiate first contact with the Trill. While limited contact with the Vulcans continues, the Trill government declares contact with other alien species to be forbidden.



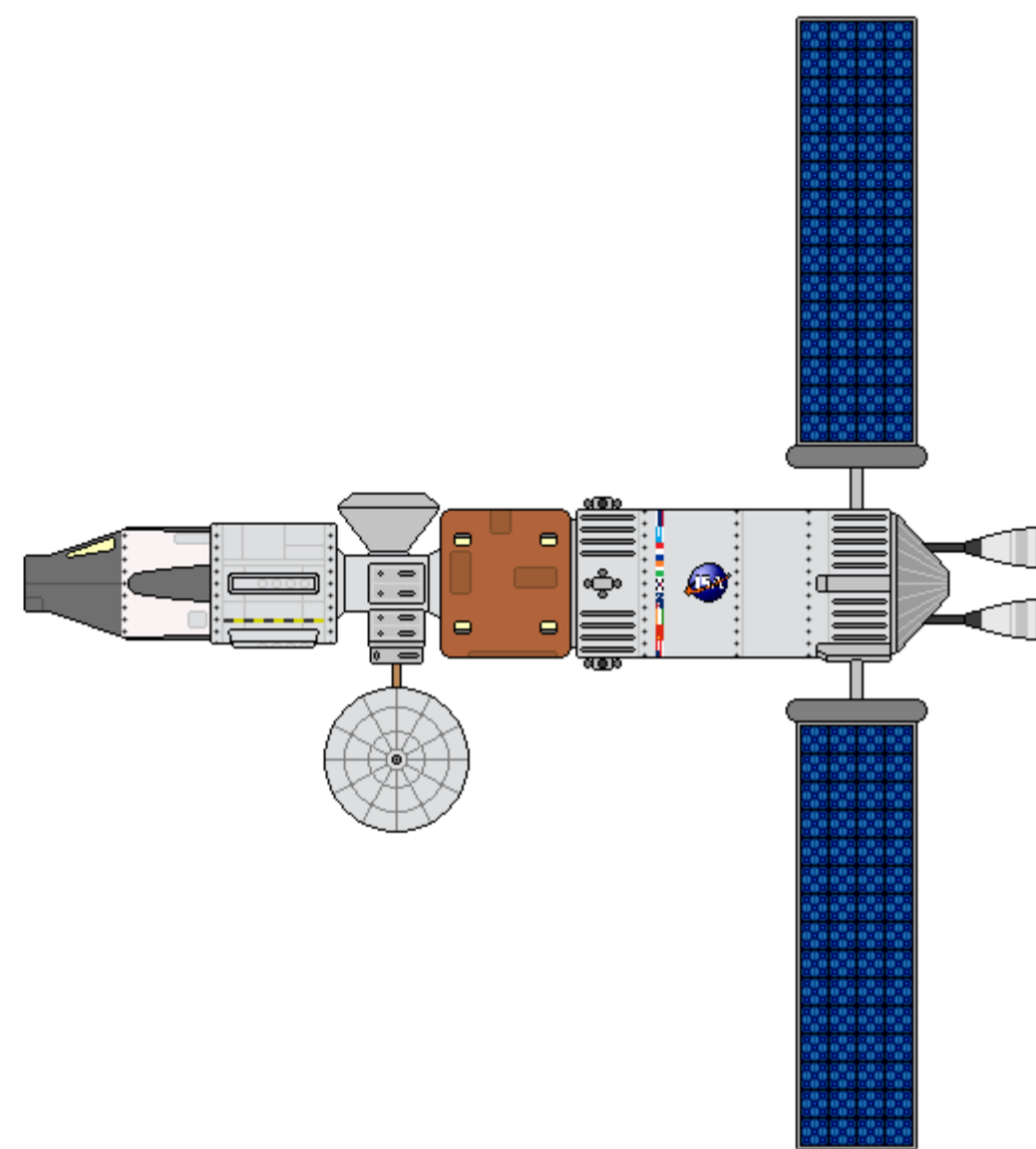
STARSHIP COMPARISON GUIDE



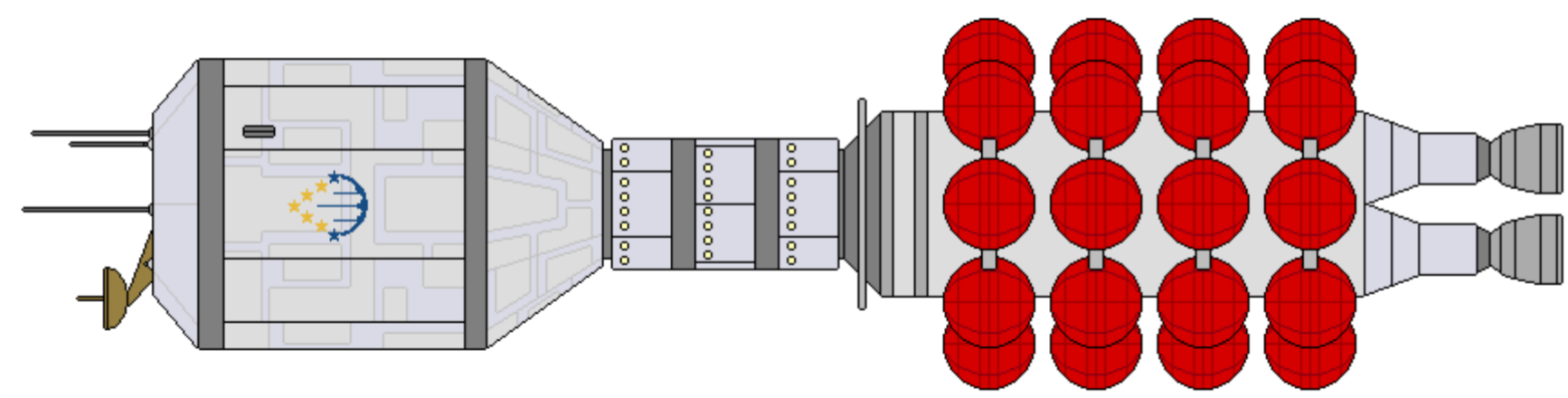
AVENTEUR
MISSION SPACECRAFT (2008)



GALILEO
EXPERIMENTAL PROPULSION SHIP (2028)



ARES
MISSION SPACECRAFT (2030)



COMPANION
CRUISER (2033)



GLOSSARY

Array: Generally, a combination of identical sensors, weapons, or other equipment operating in conjunction.

AU: Astronomical Unit; a unit of length, roughly the distance from Earth to Sol and equal to 150 million kilometers or 8.3 light-minutes.

Augment: A type of Human genetically modified before birth (originally) in the mid-20th century.

Auxiliary: a common name for small craft embarked aboard and utilized by starships for various tasks. Craft types include work pod, shuttlepod, shuttle, plus various tactical craft and other special-purpose craft.

AWSS: Alliance of Western States Ship; prefix for militarized vessels of the Western Alliance Space Agency.

C/P/S: Centerline/Port/Starboard (see P/S).

Canada: an important pre-Unification state on Earth; it was a core member of the Western Alliance.

Central African States: Formed as a result of global investment in spacecraft construction and launch facilities in equatorial Africa during the Swarm crisis, the nations of Angola, Burundi, Cameroon, the Central African Republic, Chad, the Democratic Republic of Congo, Equatorial Guinea, Gabon, the Republic of the Congo, and Sao Tome initiated the first all-African space-faring organization in 2035.

China: On Earth, a powerful pre-Unification state; joined the Eastern Coalition (ECON) in 2031, and formally absorbed in 2055.

CNSA: China National Space Administration, the official launch agency for the pre-Unification state of China on Earth.

Cruiser: A multi-purpose combat-capable spaceship.

Deep space: All space outside the Sol system.

Deuterium: hydrogen-2, or heavy hydrogen; an isotope of hydrogen often used as one of the primary ingredients for fuel in matter-antimatter reactors (the other being antideuterium).

D-Y: Dinyan-Yoyodyne Conglomerate, a pre-Eugenics War technology and industry sector corporation on Earth that served as the Great Khanate's agent in plans for planetary domination. Collapsed into smaller, disparate companies in 1996.

EC: Eurasian Confederation, a large pre-Unification nation-state on Earth, formed from the smaller states of Afghanistan, Kazakhstan, Kyrgyzstan, Mongolia, Russia, Tajikistan and Uzbekistan in 1996. It joined with the Eastern Coalition (ECON) in 2031 and formally dissolved in 2055.

ECON: Eastern Coalition; a political and military alliance formed in 2031 between the nations of the Eurasian Confederation and China, India, Iran, Japan, Korea, Pakistan, Singapore, and Vietnam. The alliance subsumed the members into one nation-state in 2055.

ECSA: Eurasian Confederation Space Agency; formed in 1996 from the constituent agencies and absorbed into the ECSN in 2031.

ECSN: Eastern Coalition Space Navy; formed in 2031 from the alliance's constituent agencies.

ELRS: Extreme Long Range Sensor

ESA: European Space Agency, an intergovernmental space exploration organization of 22 European member states on pre-Unification Earth.

Eugenics Wars: a late 20th century global conflict on Earth in which the Augments established themselves as super men and attempted world domination.

France: an important pre-Unification state on Earth; it was a core member of the Western Alliance.

Grand Tour: a series of planetary survey missions administered by the Western Alliance Space Agency; 2009-2039.

Great Khanate: an historical designation for the tight but self-contentious organization of Augments that sought to dominate Earth in the late 20th century, culminating in their defeat in the Eugenics Wars.

GW: GigaWatt



GLOSSARY

HEO: High Earth Orbit; a geocentric orbit with an altitude higher than 35,800 kilometers. In the modern idiom, High Planetary Orbit (HPO) is above that of the geosynchronous orbital range, with orbital periods greater than that of the rotation of the planet in question.

India: an important pre-Unification state; subsumed into the Eastern Coalition (ECON) in 2055.

IRC: ISA Rescue (or Regulatory) Cutter. Ship prefix for the names of vessels of the International Space Agency.

ISA: International Space Agency, a NUN agency on pre-Unification Earth, formed in 2018 and serving as a conduit for peaceful and cooperative space activities by the major space-capable nations, and later for most space activities of any entity, including corporations, organizations, and private individuals. Succeeded by both the UESPA and UESN in 2067 and 2069, respectively.

ISRO: Indian Space Research Organization, the national space agency for the pre-Unification state of India on Earth.

KARI: Korea Aerospace Research Institute, the national space agency for the pre-Unification state of South Korea on Earth; transitioned into the ARKS in 2003.

Korea: formally the Royal Republic of Korea on Earth, a 2003 (pre-Unification) merger of the prominent nation of South Korea and the xenophobic and developmentally-devastated state of North Korea.

L-5 Colonies: while not comprising all installations located at Earth's L-5, the six Swarm asteroids captured in the period of 2031-2033 were usually identified by this name; they comprised Brynner Asteroid, Colony Roykirk, Moss-Offenhouse Colony, the NicholCorp Facility, Starling Habitat, and Vanguard Colony.

Laser: Typically, a secondary weapon on early space vessels. Current shielding technology has largely negated the threat posed by the coherent electromagnetic beam.

LEO: Low Earth Orbit; an altitude of 2,000 kilometers or less. In the modern idiom, Low Planetary Orbit (LPO) is approximately one-third or less of the radius of the planet in question, in altitude.

LIDAR: Acronym for Light Detection And Ranging; a sensor that uses laser pulses to calculate the size, speed, and distance of an object.

Lunar: of or relating to Luna (see Moon).

M: Meters

Main Belt: the designation for the Sol system's major asteroid belt.

M/AM: Matter / Antimatter

Mars: the fourth planet in the Sol system.

Mediterranean Alliance: a political block within the NUN comprised of a majority of the states that ringed the Mediterranean Sea; formed in 2040.

Mission spacecraft: a catch-all category for governmental spacecraft, though usually non-military, that operate independently and perform certain functions, such as search & rescue or regulatory enforcement.

Moon: the pre-colonization name for Luna, the sole natural satellite of Earth.

MT: Metric Tons

Muslim Bloc: a political block within the NUN comprised of Arabia, Iran, Iraq, Palestine, and Syria; formed in 2009.

NASA: National Aeronautics and Space Administration, an independent agency of the United States government responsible for the civilian space program, as well as aeronautics and space research.

Navigation Light: Yellow in color, these lights are generally located on or near major points of superstructure of a space vessel. They often provide low-emission positioning signals for specific locations on and within the vessel for the purposes of proximity maneuvering by another vessel and relative destination positions for transporters. Not to be confused with red or green running lights.



GLOSSARY

NEO: Near-Earth Object; any small Solar System body whose orbit brings it into proximity with Earth, usually defined as less than 1.3 AUs of Sol.

Northern African Alliance: inspired by the collaborative success of Central African States, African nations in the north-west of the continent formed a similar economic alliance in 2037.

NTR: nuclear thermal rocketry

NUN: New United Nations. Formed in 2011, first dissolved in 2053 (during the Third World War), re-formed in 2065 (two years following First Contact), then finally dissolved in 2079. Authorized the formation of the ISA (2018), UESPA (2067), UEDP and UESN (both 2069). Succeeded by the UEDP.

Oceania: On Earth, a distinct geographic region spanning the eastern and western hemispheres of the northern and southern Pacific Ocean.

Pan-African Alliance: a political block within the NUN comprised of the Central States of Africa, New West Africa, the Republic of Northern Africa, United East Africa, and the United States of Southern Africa; formed in 2010.

P/S: Port/Starboard; left & right side, respectively, in naval parlance.

RCS: reaction control system; a spacecraft system that uses thrusters to provide attitude and station-keeping control (and sometimes propulsion).

RRKS: Royal Republic of Korea Spaceforce, the new nation's space and regulatory agency. Merged with other international agencies to form the ECSN in 2031.

Running Light: Red (port/left) and green (starboard/right) lights traditionally denoting the observed side of a water vessel under low light conditions. Utilized for similar purposes by space vessels of the UFP, though generally for rapid orientation by the pilots/helms of other vessels maneuvering in close proximity. Not to be confused with yellow navigation lights.

Russia: an important pre-Unification state on Earth; it merged with six other states in 1996 to form the Eurasian Confederation (EC).

South Korea: an important pre-Unification state on Earth; it merged with the smaller, xenophobic and developmentally-devastated state of North Korea to form the Royal Republic of Korea in 2003.

Space Station Freedom: an expansive orbital facility, evoking perception as a techno-snowflake, built by the United States of America, ostensibly in a NEO monitor role, but including highly-advanced construction berthing.

Subclass: A significant variant of a given class of ship, usually newbuilds, though sometimes including important modifications to existing ships, that are not intended to replace the existing ships of the original class. Often named for the first ship to reach that final intended production standard.

Swarm: An existential crisis to the planet Earth, wherein 17 metropolis-sized and attendant "flocks" of medium-sized asteroids threatened to impact the surface between the years of 2031 and 2033; a planet-wide effort diverted all of the planetesimals.

TASA: Texan Aeronautics and Space Agency; formed from assets seized from NASA during Texas' secession from the United States of America.

Texas: a medium-sized break-away nation from the United States of America during the closing events of World War Three, the state took a leading role in the post-war space program, largely in part to assets seized from NASA.

Transport: A spaceship or other vessel dedicated to transporting passengers or cargo. They range in size from small two- or three-crew ships to huge starships and freighters.

Trans-spectral Imager: A sensor that compares changes in perceived light to help determine the platform's location, as well as distance and aspect of a target.

TW: TerraWatt

United States: On Earth, a powerful pre-Unification nation. An original signatory to the *Traité d'Unification*, which established the United Earth government in 2130.

Ununennium: an early Human name for dilithium, prior to the discovery of its hypersonic attributes.



GLOSSARY

US Strategic Command: a subordinate agency of the USAF tasked with overseeing the military assets above the Earth's atmosphere.

USAF: United States Air Force, the aerial and space warfare branch of the armed forces of the pre-Unification nation of the United States on Earth.

USNS: United Survey and Navigation Ship. Prefix for joint missions of the ISA & NASA.

Venus: the second planet in the Sol system.

Venus Terraforming Project: an effort begun in 2025 to establish a permanent presence on the planet, with the intent to develop and reform the global environment into a more human-habitable setting.

WASA: Western Alliance Space Agency; built from the (generally militarized) assets of the European Space Agency and formed core part of the ISA.

Western Alliance: Originally a NATO agency to oversee the 2002 pre-Unification economic and defensive agreement between Earth's United States and European Union, it became a major force for the coordination response to the Swarm incident of 2026 and a competitor to the rival Eastern Coalition.

Work Pod: The general name for manned, sub-impulse craft used for construction, maintenance, repair, and other service tasks in space. A variety of external tools and modules are attached to the work pods to facilitate a multitude of tasks.

World War Three (WWIII): A global conflict on Earth (and in the Sol system) that officially dates from the eco-terrorism of 2026 to the open nuclear conflict between the Eastern Coalition and the New United Nations, through the signing of the concluding Treaty of San Francisco in 2053.

YPS: Yoyodyne Propulsion Systems, an offshoot and surviving entity of the post-Eugenics Wars Dinyan-Yoyodyne Conglomerate on Earth; most associated with the United States and Korean nations, as well as the Western Alliance.



Delta Dynamics appreciates the sponsorship of the following:



Dytallix Mining Company



Star Fleet Museum



Technology Future Magazine



SafeTech Industries



Resorts of Risa



Space Systems Cargo Service



GNN News Service



Daystrom Institute

...and Members like you.



THE FOLLOWING ARE OTHER STARSHIP RECOGNITION MANUALS
PUBLISHED BY DELTA DYNAMICS:

REPORTS

- APHRODITE mission spacecraft
- ARES mission spacecraft
- AVENTEUR mission spacecraft
- BONAVENTURE survey cruiser
- BONAVENTURE dilithium power testbed
- BURKE frigates
- CAVALRY light destroyers
- COMPANION cruisers
- CONSTITUTION heavy cruisers
- DURANCE cargo tugs
- DY sublight interplanetary transports
- GALILEO experimental propulsion ship
- HORIZON heavy cruisers
- SYRACUSE destroyers
- TRENT destroyers

