SPACE OPERA:

STARSECTOR ATLASI

THE TERRAN SECTOR

STAR SECTOR MAPS
HISTORY OF THE SECTOR
66 PLANETS IN DETAIL
PLANETARY BACKGROUNDS
COMMERCIAL STARSHIP
ROUTES
FOLD-OUT QUADRANT MAP

Edw.E. Simbalist



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-30
           * BAAST
                          * OSIRIS
                                             * ANUBIS
                                                            · ISIS
                                                   + HATHOR
                            +11
       -50
                          * ASV
       MAAT
                                   *ALIOTH
                                                           -40
      +60
+ LEONIDAS
                                                          · LUXOR
                                         * KZ III
                      -35
HELIOS
   * POLLUX
        +23
CASTOR
                     PROCYON -4
                                       * 36 OPHIUCHI
         Alv/A5v -2
                    * F5/v/K5d : RIGHL KENTAURUS

92v/K5v/M5d +0 K1v/K6v

2000 * 70 OPHIUCHI
    *CAPELLA
                                           * VEGA
              40 ERIDANI
KOV/MOVIMI *TAU -3
                                   ALTAIR *46
                          CETIGA
                     82 ERIDANI
                                      * FORMALHAUT
       -60
                                                      -50
     * KALI
                                                    * SIVA
                                         -47
AL NAIR
                          +44
ALPHERAZ
* BPv
* RAKSHASHA
                                                       . SIMURGH
                                                  . MINERVA
                                  . LEMUR
          ARCHENAR *ANKAA
KOH
                                       · LARVA
                                                     - SUCCARATH
                           - RAVAN
                                           -60
NAMIR
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STARSECTOR ATLAS: I



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EDITORIAL INTRODUCTION

The Terran StarSector is the first of many StarSector Atlases for use with Space Opera. Readers will note that this is a numbered atlas, which will denote atlases in this series. There will also be StarSector Atlases which are not numbered and are not from the same game universe. The un-numbered atlases will each be from the universe unique to the writer/designer of the atlas. Some stars that appear in this atlas may also appear in an un-numbered atlas as these would then be different campaigns and game universes.

Space Opera is a game of large scope and it is playable in a variety of campaign styles. Thus, an atlas can be from any given campaign as there is no one true way to play Space Opera, and each campaign will be different to meet the interests of the players in that campaign.

Future numbered StarSector Atlases will outline the home sectors of major races and nationalities from the original **Space Opera** universe. The fold-out Quadrant Chart will give readers an idea of what to expect as upcoming titles in this numbered series of atlases.

A SOCIOTECHNIC HISTORY OF THE UNITED FEDERATION OF PLANETS: Abstract of a Treatise by Sociohistorian Tal Maleena, Ac.Em. Kalevarra Senthedar Alari Telant, IRSOL Tavis Valinor N'Thrale. Translated, with Commentary, by Acadamarian Nathan B. Stewart, Faculty of Alien Studies, Ceta University, Ceta (Tau Ceti II)

INTRODUCTION

It is rare indeed that a race has the opportunity to view itself and the pattern of its evolution into a starfaring people through the eyes of a highly informed and dispassionate observer from an alien race. Acadamarian Emiritus Tal Maleena of the High Institute for Advanced Alien Studies of the IRSOL StarCity of Valinor N'Thrale studied the human race since A.D. 1952. His extensive and superbly detailed Tara Alari Foedoras Korsaiuun Tovaris is a masterpiece of analytical scholarship and contains much information hitherto lost to Terran historians. Some of Acadamarian Maleena's theories and conclusions may surprise and affront readers, but it should be noted that he speaks from a perspective of almost five centuries of observation of Terran culture. He has witnessed many events that are no more than mere legends to living Terrans

The following abstract is a 1:2500 Telon condensation of the Tara Alari, using the Dawaguchi-Dupont Analytical Model to ensure accuracy of 0.99 per 10,000 words. All IRSOL dates and terminology have been translated into their closest Terran equivalents. Editorial comment is indicated by **italics**, Readers are referred to KR.207. M215.28 of the Encyclopedia Galactica for the complete text of Tal Maleena's works.

EARLY TERRAN SOCIODYNAMIC INSTABILITY

The essence of a Type V planetary multiculture is the extreme diversity in all areas of observable social interaction and institutional behaviors. At one point in the 20th century, Terra held more than 180 competing nations. Each representing regional ethno-racial, religious, cultural, political, and economic patterns of individual and group behavior which differed significantly from those of geographic neighbors. Even within a given nation-state, wide diversity in all sociodynamic factors could be readily distinguished. SocioTechnic analysis of the operant dynamics of this fragmented global social order yielded a consistent Klee Instability of 2.28 to 3.57 throughout the late 20th and all of the 21st century.

At the beginning of the 21st century, Terran population exceeded 8000 million, having doubled in the 49 years since IRSOL observation began. The high rate of population growth placed a severe strain upon available food, energy, industrial capacity, and natural resources of the planet.

Had Terra possessed a unified government characterisitic of Type VI emergent planetary cultures, it is certain that many of the difficulties encountered by Humanity in its transition to a spacefaring people would not have been so severe. However, a suicidal rivalry existed between the two powerful political-military groups in the industrialized nations, known as the Western Alliance and the SowOorld. These competing alliances had been locked in a mortal struggle for idealogical, economic, and political supremacy for some years prior to the arrival of the IRSOL in the Solarian StarSystem.

Acadamarian Maleena reviews the essential events in late 19th and 20th century history, tracing the development of Terran political and economic movements in this period. Readers interested in the details of this now revealed era of Terran history are referred to KR.207.M215.28/15 of the Encyclopedia Galactica. — N.B.S.

At this time, Terra was in a Tech/5-6 mode of technological-industrial development. Weapon systems had attained thermonuclear and biochemical capability of destroying the planetary environment. But Terran socio-political evolution had not kept pace with technological advances, so the maturity was lacking to deal with the self-destructive impulses that continuously threatened to unleash forces able to annihilate all life on the planet.

The Western Alliance and the SovWorld nations emerged in a suicidal 'arms race' that consumed fully 20% of their total national production of goods and wealth by the late 20th century. Using entire Third World nations as pawns in their vaster struggle, they fomented numerous wars and revolutionary movements in the less developed regions

to embarrass each other by any means possible. These adversaries repeatedly resorted to a policy known as 'brinksmanship', and it became inevitable that they would lose control over the powerful sociodynamic forces they had unleashed.

Their unceasing propaganda campaigns to 'win the hearts and minds' of the peoples of the Third World, and their continual manipulation of the internal affairs of the undeveloped nations, both created numersous groups of social and political malcontents, oppressed minorities, and outright rebels who resorted to force to redress real and imagined grievances. Terrorism soon became a standard method for these groups to assert their own special interests. Total destabilization of the already precarious situation was never below 0.90 probability after 1975.

In the last part of the 20th century, an energy crisis developed as world petroleum supplied neared depletion. Third World World nations with extensive oil reserved extorted huge sums from the energy-hungry industrialized nations. But, at least they were to mount a massive effort to construct nuclear power complexes and develop synthetic oil plants. The very poor Third World nations were unable to meet the exorbitant cost of imported fuels, while their food production fell ever farther behind the crushing burden of uncontrolled population growth.

By the 1990s, the Western Alliance and the SovWorld were acquiring client states unable to endure the strain of providing for their own peoples. They virtually exchanged their sovereignty for economic aid and food. Yet, the planetary economy continued its decline as outmoded and unresponsive systems of credit and trade failed to adjust to existing conditions.

By 2005, the Klee Instability Index reached 4.00, with total societal collapse indicated on the close order of 15 years. The probability of Final War attained a steady 0.99.

Armed with this evidence, Chief SocioHistorian Vao Toraava made a formal recommendation to the High Council of Valinor N'Thrale-for permission to intervene in Terran affairs. Immediate action was required to prevent the destruction of a promising race, and the Valinor Larai authorized Class II intervention. Engineers of the StarPatrol secretly installed planetary Xenon field generators at the Terran poles to blanket the planet with high-yield reaction damping screens. Meanwhile, Assistant SocioHistorian Tal Maleena was dispatched with an Alien Contacts Team to approach the North American physicist, Dr. Richard Sanderson, to provide him with the theory of the Xenon device. This mission was performed without incident, and Dr. Sanderson was psycho-chemically indoctrinated without his knowledge on April 21, 2005.

Withdrawing without detection, the IRSOL resumed observation of the events unfolding in Terran affairs,

- **Acadamarian Maleena's revelations explain several mysteries. Despite Terran folklore about contacts with aliens from flying saucers, which abounded in this period of history, Acadamarian Maleena is adamant that the IRSOL action on April 21, 2005 was the only genuine instance of an alien contact. However, about 0.0012% of the UFO sightings reported in the period 1943-2047 were observations of IRSOL craft, IRSOL Contact Ethics correspond to those of the Federation: There shall be no close contact with aboriginal and developing cultures to avoid racial egotraumatization of ethnocentric societies unprepared to cope with the existence of beings from technologically advanced starcultures.
- **Dr. Sanderson's remarkable breakthrough in Force Field Physics and his invention of the first Xenon device late in 2005 was certainly a believable feat, for he was already working in that area of study. However, his almost miraculous intuitive grasp of the Alpha Field Equations and the quantum jump in theory they represent can now be fully explained N.B.S.**

IRSOL choice of the Western Alliance nation of the NAF (North American Federation) to be the recipient of the Xenon device was not one made through emotional sympathy with the societal values of the Alliance. Rather, SocioTechnic extrapolation of the consequences to Terran survival and evolution revealed that SovWorld possession of the Xenon device would bring a 0.86 probability of societal collapse by 2095, plus or minus 25 years. A choice amongst Western Alliance states brought a 0.91 probability of Terran evolution into a StarCulture by 2050, plus or minus 25 years. Since the NAF was the most influential member of the Alliance, it was given the Xenon field secret.

By 2008, every major industrial, military, and population center of the Alliance was under Xenon protection. At that moment, the IRSOL StarPatrol dismantled the planetary Xenon systems to permit a Terran solution to now unfold. Events occurred as predicted. The Alliance announced the existence of their Xenon defense systems and called upon the SovWorld to join in mutual disarmament and cooperation to establish a new order in the world. SovWorld reaction was one of disbelief, and deployment of its armed forces was ordered in anticipation of an Alliance 'trick,' Despite Alliance assurances, war became inevitable.

On June 28, 2008, the SovWorld fired 4900 missiles carrying 14,700 nuclear warheads in a 'pre-emptive strike' against the Alliance. Only 26 warheads detonared over unshielded targets. SovWorld resistance collapsed immediately as its leaders realized that they had no protection against Alliance nuclear weapons. Within one hour, the 'Wet Firecracker War' was over.

With the elimination of the bitter idealogical conflict that had so impeded development of a sane and coherent planetary union, World Government could be seriously contemplated. Realizing that poverty and famine in the Third World required instant attention, diplomats of the Alliance secured the agreement of the industrialized nations to subordinate some of their national interests to stabilize the world situation.

The leaders of 186 nations met in 2009 in Washington D.C. to receive the detailed proposals of the Alliance for the reshaping of Terra under the auspices of a United Planet government. First, all nations would begin total disarmament of their armed forces. Only small, lightly armed civic militias would be allowed. The only major armed force on the planet would be the UP Peace Force, comprised of units from the Western Alliance. War was declared illegal as a means of resolving international disputes. All armed rebellion and terrorist activities were also declared illegal. A UP Tribunal was established to hear complaints from dissident and oppressed groups so that reforms could be made to the policies and practices of the offending national governments.

For their part, the industrialized nations pledged to commit the 20% of their gross national products devoted to defense spending to a new goal: development of the Third World. Recognizing that the effectiveness of such aid would be compromised by unrestrained population growth, they also urged Third World nations to show responsibility by instituting birth control programs.

However, if the Third World entertained any expectations that it would use its huge majority to dominate the UP like it had the defunct United Nations, it was quickly disabused of the notion. Until a nation demonstrated that it had achieved a qualifying level of economic development, it would be granted only associate membership in the UP Assembly. Decisions would be reserved to those responsible for financing and carrying them out.

EARLY COLONIZATION OF THE SOLARIAN SYSTEM

The first Terran space probes and manned expeditions were modest efforts, but Terran technology quickly advanced to increasingly ambitious projects. By 2001, several military and scientific bases had been planted on Luna. Both the Alliance and the SovWorld maintained manned space stations in orbit around Terra. Unmanned probes had completed the preliminary survey of the Solarian System, and plans were laid for manned voyages.

As Terran space exploration began in earnest, the IRSOL prepared to depart the Asteroid Belt and the Solarian System, Detection was becoming more and more likely. However, SocioHistorian Maleena and a team of researchers were assigned to remain after the StarCity completed its mining operations in the Asteroid Belt and warped out for Algol.

In 2011, NAF Mars Probe I sent a coded message that a damaged and abandoned alien spacecraft had been found in orbit around Mars. The hulk was a Bug stardestroyer which had been severly mauled in 1969

by elements of the StarPatrol when it had entered the Solarian System on a long-range probe mission. The vessel had not been totally vaporized, although many systems were melted and fused beyond recognition. Enough clues remained to provide the Terrans with the hints needed to spur transition into Tech/7 technology within 50 years.

The alien starship represents the second intervention of the IRSOL in Terran evolution. The vessel could have been destroyed outright, but it was part of the IRSOL plan to permit Terran scientists and engineers to examine some of the basic systems and engineering, and so to deduce the workings of first the TISA sub-light drive and later the FTL warp-drive. Significantly, all advanced weapon systems were destroyed by the IRSOL prior to the Terran discovery. Terran society was judged to be far too unstable to be allowed knowledge of blaster and NovaGun armaments in the 21st century. — N.B.S.

Analysis of the alien vessel produced a significant leap forward in all fields of Terran physical science. By 2025, the secret of the secondary drive systems of the vessel had been determined. The resulting Markheim-Hasagawa Phased Drive (the TISA Trans-Gravitic Interphased Sub-Light Anomaly Drive) proved to be so fast and economical that Terran exploration and colonization of the star system accelerated into a frenzy.

Even as these discoveries were being made, the NAF was also involved in the greatest engineering feat attempted by mankind to that time — construction of the huge L-5 colony proposed by the Terran visionary Gerald O'Neill some four decades earlier. The initial phase of the project was completed in 2015, a large Lunar mining complex to produce great quantities of material required for the 2 km diameter torus of the space colony. In 2028, the L-5 Colony O'Neill was completed. The benefits of the torrents of solar power microwaved down to Terra soon reduced the energy crisis. The Saharan Reclamation Project (2022-2028), for example, opened up more than 12 million hectares of land for irrigation with water distilled from the Mediterranean Sea by L-5 solar power, By 2040, 32% of all energy used on Terra was from L-5 powersats.

The first L-5 colony was a closed, fully self-sustaining ecosystem capable of supporting some 12,000 scientists, technicians, and their families. The computerized and automated factories and smelter complexes orbiting nearby were able to process several million tons of Lunar ores per year, which were launched to the L-5 points by the Tycho linear-synchronous mass driver. The electronics and machine shops could produce many of the tools, machines, and equipment the colony required. They hydroponic farms produced all of the food required for the population of the L-5 community.

By 2100 there were 16 great cities in orbit between Terra and Luna, with populations totalling around 800,000. The colonies were largely self-sufficient once the minerals had been obtained from the Lunar mines. The L-5 factories were capable of fitting out new space colonies, powersats, ships of commerce and war, and virtually any other structure or product required for life in space.

With an increasingly advanced technology and multiple back-up systems that were continually updated to guard against any predictable contingency, the space communities became viable environments. The inhabitants came to view life in the L-5 colonies as natural, and many found their ties with the Mother Planet grew less with time. Their children became true sons and daughters of space, the first of many generations who would seek their lives among the stars.

The Lunar colonies expanded as well, growing to house a population of over 14 millions by 2100 as they provided the resources for the L-5 cities and food in abundance in their hydroponic tunnel farms.

The TISA drive enabled mankind to colonize the OutPlanets of the Solarian System. In 2029, the first domed colony was planted on Mars, and in the following year the mineral wealth of the Asteroid Belt was opened to the new mining interests based on Luna. By 2100, almost 200,000 were living in the domed cities on Ceres, Pallas, Juna, and Vesta, with another 70,000 in the outlying mining stations. The population of Mars neared two million.

In 2036, an ambitious terraforming project was initiated on Ganymede, the fourth moon of Jupiter. By 2059, that small world possessed a

breathable atmosphere and boasted a promising agricultural colony that rose to almost 4 million by 2100. Similar projects were later undertaken on Titan in the Saturn moons, and then on Callisto in the Jovian system. The vast power required for heat and atmospheric conversion came from batteries of large powersats similar to the types orbiting the L-5 colonies.

At the close of the 21st century, more than 20 million were living beyond Terra's atmosphere, and close to 9% of the planetary agricultural needs were supplied by space colonies. It was an auspicious beginning, and we of the IRSOL were proud and gratified that we had played our small part in preserving this race so that it could evolve into a higher plane of social evolution.

After 2047, IRSOL observation of Terran activities were made difficult by the volume of traffic in the Solarian System. Acadamarian Maleena's mission, therefore, withdrew to a considerable distance, relying on long-range sensor-scans and monitoring of Terran communications and media transmissions for much of its data. However, Terran satellites could be easily tapped, and as all computer and communications transmissions were satellite-routed, vast quantities of data were obtained. The complete record of this invaluable information about 21st century life is now on file in the Federation Archives, a last bequest from Acadamarian Maleena to the Terran People made upon his death in 2425. — N.B.S.

THE PURE EARTH MOVEMENT: THE AMADATHARTHA PSYCHOSIS

Of all the observations and analyses made by Acadamarian Maleena, his treatment of the Pure Earth Movement alone reveals the biases of his own starculture. Nowhere else does he permit himself such scathing criticism and emotionalism. It is clear that the Amadathartha or Turning Inward is repulsive to the IRSOL, a self-inflicted sickness of the spirit that causes an individual to cling to a planetbound existence. That anyone could willingly reject the Taleel or Life of the Cosmos is sheer insanity to the IRSOL. This attitude can be observed in milder form in the rather contemptuous term Groundhogs which human starfarers often apply to planet dwellers who have not yet ventured into space, and who see no reason for ever doing so. — N.B.S.

Even as the Terrans took their first steps toward the colonization of their starsystem, the forces of reaction began to grow on Terra. By 2050, many Terran subscribed to the Pure Earth Movement. This perverted group of madmen was, to the last member, caught in the Amadathartha. They feared the Taleel and rejected it with a loathing that led them to deny the stars to others of their race.

The Pure Earthers were a fanatical brotherhood committed to solving all of the problems of their overcrowded planet. It must be said in their defense that they were, at first, motivated by high ideals and wished to better the lot of the more than 15 billions who populated Terra 2050. The programs to control population growth were not successful, and desperate measures were perhaps required. But instead of turning to the limitless abundance of the Universe, the Pure Earthers chose to rely on the ever more meager resources of their own planet.

As conditions became increasingly more difficult on Terra, with shortages and ever more severe rationing imposed on the people by the UP government, the Pure Earth Movement gained followers. Finally, in 2064, they gained a majority in the UP Assembly. From that point on, Terra was forced to turn aside from the stars, and it remained for the space colonies to carry on the drive of humanity to embrace the Taleel.

The Pure Earthers were incapable, philosophically and psychologically, of understanding that the only direction in which a technological race can continue to grow and prosper lies toward the stars. Theirs was an ancient argument, and the galaxy is littered by a host of dead and barren planets that attest to the falsehood of their shrill outcry: 'As long as there is poverty, disease, and injustice on our world, we cannot afford to dream of setting foot on distant planets. There are not enough resources as it is to accomplish all that must be done here. We must not waste our precious natural resources and wealth on mere

pinpoints of light in the sky. We were born here on this world, and here we shall live."

And there they were doomed to die! Sheer madness! The Taleel called to them, and they averted their eyes to the dirt! They would not unlock the gates of their planetary prison and step forth to fly amongst the stars, free in the joy of the Taleel. They faltered, and they fell in the Nar of the Great Testing. By their loss of will, they lost forever the opportunity to be one with the Cosmos. Thus, their breed was condemned to fade forgotten into the dust of their planet.

Fortunately for humanity, there were those who were strong in the Taleel, and their will to gain the stars prevailed. But - oh! the cost that was paid by the pitiful billions of Terra.

After this outburs, which should be regarded as a Testament of IRSOL faith, Acadamarian Maleena returns to his cutomary analytical dispassion. The intensity of his personal remarks remained with him to his death, as the Editor can attest from his interviews with the Acadamarian in 2415. The rise of the Pure Earth Movement stood as a great blow to his academic pride, for he had failed to guage the magnitude of the Amadathartha psychosis that came to grip the masses of humanity on crowded Terra. He never forgave himself for the errors in his Socio-Technic predictions which caused him to overlook the probability of such a development in human affairs. — N.B.S.

The social engineering programs instituted by the Pure Earthers imposed an increasingly repressive socialism that eventually dominated every facet of Terran life by 2100. Paternalistic and inflexible, the Pure Earth administration of the UP government regarded itself as heaven-sent and uniquely fitted to decide what was best for everyone. They crushed individual thought and initiative, punishing nonconformity with a savagery that belied their avowed commitment to humanitarian principles. The productive members of society were called upon to make greater and still greater efforts to provide for their disadvantaged, unproductive brothers.

There were many disadvantaged people to provide for, as the vast majority of Terrans had not the intelligence, skills, and education to fit into the highly specialized and technological industries of the Post-Industrial Age. The simple fact was that 80% of the population was untrainable and unemployable.

Every Terran citizen was granted entitlement to a Basic Share of the economic wealth of the planet. Thus, the most unproductive received an income sufficient to sustain him. Those actually drafted or born into the work force or the administration were awarded Preferred Shares for their contributions to the public good. Vocations became largely inherited, and social mobility disappeared by 2100 as a rigid class structure evolved. With social responsibility — meaning authority in the bureaucratic structure of government, industry, or the professions — came privilege and power. But rank and power were hereditary and depended no at all on personal merit and competence.

The masses or 'Proles' were controlled and pacified by a well orchestrated program of propaganda and bread and circus. Government psycho-sociologists manipulated public attitudes and opinions through the immensely popular mass media Tri-Vee. Euphorics and tranquilizing drugs were dispensed freely to keep the Proles from considering the warren-like Community Urban Complexes or ComUrbs that came to cover tens of thousands of square kilometers of the planetary surface. Spectacles of immense proportions were staged to impress them. Always were they praised for their non-existent virtues, and shortages were invariably blamed on the social irresponsibility of shirkers and social malcontents amongst the working forces. As the general population spiralled down toward a brutish level, ever more spectacular and yiolent diversions were invented to entertain them.

What was worse, they were allowed to breed. Brutish parents raised their children in ignorance, perpetuating and increasing the unproductive, drugged, moronic masses who consumed the substance of Terra. Thus, the UP government was forced to import raw materials and food from the OutPlanets of the Solarian System to shore up the image of the All-Benevolent, All-Providing, Government. But basic resources were in chronically precarious supply, and the best of what

was available went to the privileged leadership classes. This fact was not overlooked by the Militant Dissidents who began to arise among the lower echelons of the productive classes.

The Militant Dissidents tended to come from the lowest ranks of government, the industrial/agricultural complex, and the professional and service sector. They were reasonably intelligent, educated, and often law-abiding individuals deserous of improving conditions. However, to do so, they had to challenge the authority of the incompetent leadership classes. But the leaders soon realized that Luna provided an especially safe place to exile troublemakers who dared to voice criticism of the new order. By 2075, transportation was a standard penalty for any form of political agitation. By 2100, almost 6 million political offenders, common criminals, and loyal producers who had only attempted to convince their superiors that some policies needed revision had been sentenced to life exile on Luna.

REBELLION: THE HIGH REPUBLIC

Terran rule of the space colonies was performed with a heavy hand once the Pure Earthers came to power. The colonies were regarded as an expensive luxury borne on the backs of the suffering peoples of Terra. The fact was ignored that all of the L-5 colonies, the Lunar colonies, and the new colonies on Ganymede, Callisto, Titan, and Mars were self-supporting and also exported substantial quantities of food and resources to Terra. In their fear and hatred of space and the freedom it promised, the narrow men of the Pure Earth leadership waged a vicjous propaganda war against the colonies to win favor from the masses at home on Terra.

Relations between Terra and the colonies became strained. If the typical Groundhog resented and reviled the colonies, the colonials harbored little love for Pure Earthist Terra. Many colonials were political exiles. Others were fortunate individuals who had been able to emigrate and thus made their escape from the worst features of restrictive Terran society. There were also many who simply heard the siren lure of the High Frontier. Those were the most courageous and adventuresome of all, among the most capable men and women that the race had to offer.

Space gave a person room to grow, unhindered by mindless and officious prohibitions, bureaucratic ret tape, and petty restrictions that were typical of daily Terran life. Discipline was self-imposed for strictly functional reasons. Space dwellers instinctively recognized that any irresponsible and careless behavior endangered everyone. Those who did not understand this fact of life soon died. Thus, the colonials became bound together by the threat of a common enemy — the menace of space.

The colonials had little patience with the self-important little men sent up from Terra to govern them. They laughed at the grandiose and often hypocritical social development programs of the Pure Earthers, which sacrificed individual rights to their narrow vision of the greater good. They nurtured deep and bitter resentment toward policies which bled away their hard won surpluses at prices that constituted robbery, while the government berated them for failing in their duty to meet ever higher production quotas and for complaining about the outrageously exorbitant price charged for Terran goods. It was with outraged feelings that the colonials saw the Lunar Administration formed in 2075 to oversee the implementation of the correctional system for transportees exiled from Terra. For the Administration threatened the rights of free citizens of Luna as well.

In 2068, the Lunar Administration evolved a plan to turn the hydroponics farms of Luna into high-yield complexes to grow food for the hungry billions of Terra. By 2080, life of Luna was so circumscribed by unfair laws and regulations that it was no more than a 21st century Botany Bay. By 2090, free citizens were reduced to mere clients of the Lunar Administration, bound to produce and sell grain and produce to the Administration at prices set by the Administration.

The L-5 colonies fared lettle better, Terran bureaucrats replaced the competent leaders previously appointed from the best men available in the colonies. These administrators hated the duty and ruled the L-5 communities with ignorance of conditions to such an extent that they often threatened the very safety of the colonies. The same was true in the domed cities of Mars, whose industries were converted to virtual slave labor camps.

Only on the OutPlanets of the Jovian and Saturn colonies and in the mining camps of the Asteroid Belt was there a degree of freedom un-

paralleled in the rest of the Solarian System, Land was available on the terraformed moons, while the Belt was wide, so one could move far enough away from the few centers under the direct administration of the colonial bureaucrats from Terra. Even in these regions the sheer unfairness of Terran policies created smoldering fury in colonial hearts.

Rebellion was inevitable. It cam in 2136, with the institution of the infamous Air Tax on Luna and in the other domed colonies. Transportees, who now numbered almost 15 million, and free citizens of Luna alike, arose to overpower the Lunar Governors and the Peace Keepers based at Tycho City. When a large strikeforce of Peace Keepers was gathered on Terra to invade Luna to punish the rebels, the L-5 Colony Alliance refused to provide the required shipping, spaced its Terran Governor and his henchmen, and joined the revolt. Alliance was quickly followed by the other L-5 colonies.

As word of the revolt spread, the Martian colonists rose up to lynch their Terran masters. The OutPlanets followed in turn. By August of 2136, no vestige of Pure Earther influence remained outside the Terran atmosphere. Representatives of the colonies met on September 5, 2136, to declare the High Republic from the Assembly Hall in Tycho City.

Terra discovered that it was unable to wage war against the High Republic. After 2045, all spacecraft were constructed in the L-5 colonies. After the Pure Earth rise to power, Terran involvement in the operation of spacecraft declined and colonial crews became the rule. By 2100, the Turning Inward had deprived Terra of the technologies and skills required to construct and man spacecraft on the planet itself. Generations of closed thinking and official stupidity had so stifled Terran science and channeled it into socially useful pursuits that aerospace science and technology on 22nd century Terra scarcely equalled that possessed in the 1980s.

By the Treaty of Tycho, 2137, Terra grudgingly agreed to recognize the new sovereignty of the High Republic. Colonists would be provided in return for the restoration of vital food and resource shipments to the crowded planet. The 'volunteers' sent to the colonies were often the worst of the incorrigibles the planetary government could find — the hard cases who refused to conform to the perfect world the Pure Earthers believed they were fashioning. The High Republic accepted the enforced immigrants under protest, demanding that only legitimate volunteers be sent. Secretly, there was much satisfaction. The New Chums were just the kind of people the High Republic was seeking. The cast-offs of Terra had the very traits which marked the High Republic itself — independence of spirit, personal courage, questioning minds, and an unquenchable determination to resist tyranny of any kind.

The Terran government also attempted to introduce spies into the colonies. Suffice it to say that space is a very unforgiving environment, and numerous 'accidents' occured among the inexperienced.

THE HIGH FRONTIER: THE EXODUS

In 2048, Ortega, Balckwell, and Charenkov discovered the principle of the hyper-warp drive, and faster-than-light travel becam possible. On May 23 of that year, we of the IRSOL celebrated the birth of a new star race and sent word to our City so that all of the people could share in the joy of such a momentous event. For by now, we had begun to regard the Terrans as our 'children' and they had taken their first halting steps to knowing the Taleel.

In 2056, a 100,000t TISA vessel had been converted into the first of the **Pathfinders**. The engines were woefully primitive, and the round trip to Alpha Centauri required almost two years. In the interval, three more Pathfinders were fitted out and were dispatched on deep space exploration missions.

The FTL technology of Humanity developed quickly after that. By 2100, there were 22 of the huge 500,000t Connestoga class colonization ships in regular service carrying interstellar colonists to Alpha Centauri, Vega, Sirius, Procyon, and other near stars with habitable planets. Voyage times were greatly reduced as the space colonies began to develop a strong Tech/7 industrial and technical capacity. The Great Exodus had begun.

The interstellar colonies planted in the period of the Exodus (2065-2190) fall into five distinct types:

The Penal Colonies were established by the Free Earth government of

Terra between 2075 and 2136. Some of Terra's worst political dissidents and incorrigible criminals (including citizens guilty of such infractions as hoarding, wasting, and black marketeering, as well as murderers, arsonists, rapists and thieves) were transported to marginal Class B and C worlds to develop mines or exotic resources. Many of these colonies failed because of the harsh conditions prevailing on the planetary surfaces, but some survived in spite of the minimal support received from Terra and then virtual abandonment after 2136. Everything about this despicable colonization program was marginal. Coionists were shipped in primitive cyrogenic capsules with a 20% failure rate. Equipment and supplies were kept to an economically bare minimum. No thought was given to providing any balance in skills that would be needed on the new worlds. Contact with most was lost after the Revolt in 2136, but a number were later found and incorporated into the Terran Union. A few turned to sinister activities like space piracy and colony raiding, apparently obtaining their first starships by seizing unsuspecting Free Traders. Many devolved into savagery.

The Dissident Colonies were established by restive nationalistic groups on Terra whose political and cultural values clashed with those of the dominant Free Earth Movement. To rid itself of these potential trouble-makers, the UP government allowed immigration particularly from WestEurope and the SovWorld. Most of the WestEurope colonists settled in the Azuriach Cluster, which became the Azuriach Imperium in 2178. SovWorld colonists largely settled in the region which became the Galactic Peoples Republic in 2159. These two groups were to give the near galaxy around Terra many difficulties in later years.

The Lost Colonies were established by religious and ethnic minorities of Terra who had suffered restriction or repression at the hands of the Free Earth government and wished to practice their beliefs in peace. Provided they could finance the expedition themselves, and paying confiscatory premiums to the UP government for the privilege of emigrating, they chartered or bought decrepit starships and launched themselves toward what they hoped would be the new Jerusalem. Many simply disappeared. Others found new worlds and settled them. Few were able to maintain industrialized technologies and devolved into Tech/1-4 pre-industrial societies. By 2190, over 600 such expeditions had departed Terra, sprinkling humanity far into the galaxy. In future years, these enclaves became among the first customers of the Free Traders of the Mercantile League, who jealously guarded their locations from their competitors to protect their monopolies.

The Sponsored Colonies were settled under the direct support of the High Republic and its successor, the Union of Planets (2138 onward). Carefully selected teams of volunteers were chosen to establish Base Colonies on premium Class A Earth-Type planets, When preparations were completed, waves of colonists were dispatched according to a long-range development plan. Each colony thus became a strong and viable planetary-state, with a solid balance of scientific, technical, professional, agricultural, military, and administrative expertise provided to insure the maximum chance of success. Contact was maintained between them and the Solarian System through a regular system of commercial shipping. The moment a sponsored colony became selfsufficient, it was admitted to the growing confederation that evolved into the Union of Planets by 2145. These worlds were the logical extension of the mainsteam of Solarian starculture, and they remained steadfastly loyal to the federal structures that developed over the centuries.

The Free Colonies were established over the period 2140-2190 by special interest groups in the so-called Mercantilist Dispersion. Backed by wealthy individuals and corporations of the High Republic seeking to expand their commercial activities to the stars, the Free Colonies were set up as business operations. Often blocs of companies combined to finance the colonies, as the cost of establishing a viable, productive colony of this type was considerable. A number became the nucleii for the Mercantile League, founded in 2190, although others remained loyal to the Union of Planets.

It is estimated that over 1000 planets were colonized in the 125 years of the Exodus, with more than 485,000,000 people leaving the Solarian System to find new homes on distant worlds.

In all that time, the human race did not meet iwth a single advanced sentient race, for this arm of the galaxy had been denuded of high level starcultures some 9000 years earlier by the great series of wars between the mighty Galactic Empires of the Starkaad and the Korelians. The whole region constituted a huge Neutral Zone between

the still vast remnants of these two starcultures, a void to be filled by the young races now evolving to starfaring status. It would not be until 2232 that contact would be made with an alien race of interstellar stature.

THE CRAZY YEARS: SOCIODYNAMIC COLLAPSE ON TERRA

By 2125, Terra was entering the second phase of its inevitable decline. The population had exceeded 20 billions and was beginning to accelerate in growth. The average intelligence quotient was 84, planetary literacy had fallen to 14% of the population, and less than 10% were productively employed in the automated factories and hydroponics complexes. The masses contributed nothing to Terran economy or society, and industrial and agricultural facilities were strained to the failure point as the numbers of technicians required to maintain and operate them continued to fall.

Those who had the intelligence to perceive the impending catastrophe chose emigration to the High Republic and the stars. But in 2138, the UP government banned emigration of all essential personnel. Forced to remain on a crowded and slowly dying planet choked by pollution and staggered by massive shortages of food, power, raw resources, and manufactured goods of all types, such men and women came to bitterly resent the Pure Earth philosophy and all it stood for.

The Covenanters arose among the lower echelon members of the technocracy and bureaucratic classes. Because the rigidly hereditary nature of the stratified Terran social and political structure barred them from any chance of advancement to posts from which they might be able to avert the worst of the coming disaster, they felt hopeless and frustrated. They also recognized that they were partially responsible for the dead end to which Terran society had come. For they were members of the establishment, many of them were former Pure Earthers.

Cells of Covenanters formed, and plans were laid to fortify and arm vital industrial and agricultural complexes safely removed from the population centers of the ComUrbs. There was no chance of stopping the general collapse of society. All that could reasonably be done was to provide for a few enclaves of sanity and civilization in a world that would go mad in its last days. Since some Brothers were members of the government bureaucracy and lower management levels of the industrial/agricultural sectors of Terran society, they were able to arrange for the needed transfers of personnel and diversions of equipment and supplies to the designated enclaves. Such tampering with the operations of the vast organization that constituted the Terran bureaucracy went entirely unnoticed.

Even as the Covenanters prepared their refuges and moved their people to places of safety, a new and destructive religious cult sprang up to occupy the minds of the ignorant masses. Indeed, the Creationist cult was the largest single factor to spur the growth of the Covenantist movement among the techno-bureaucratic classes. For it marked the end of sanity and any possibility of forestalling or averting palnet-wide devolution.

Thaddeus D. Struther, the self-styled Prophet of Creationism, proclaimed that the Milennium promised by the Pure Earthers was at hand. If the people of Terra would only renounce entirely the sacrilege of trespassing in the Lord's High Kingdom, He would rain his bounty down upon the needy of Terra. He would perform His miracles, and manna would fall from the skies to feed everyone. The factories would pour out an abundance of goods without end. No one would want for anything. But, the most terrifying aspect of his illogical babble was a call to cease all birth control measures. The Lord would provide for all his children, Struther said, and the ignorant masses believed him. So did the inbred fools who controlled Terra, and they withdrew all restrictions on parentage in 2146.

As intelligent men realized that the doom was upon them, a new and massive wave of emigration ensued between 2140 and 2165. While prevented from emigrating themselves, for most were in the essential services, Covenanters assisted their fellows to escape to the stars. If they could not save their planet, and likely not even themselves, they could try to save the race.

In 2165, Terran population approached 35 billions, and the instability index reached crisis levels. All means of production and distribution no longer could maintain the supply of food, power, and vital services.

As the systems faltered, then collapsed completely in ComUrb after ComUrb, panic and riot raged through the darkened warrens as the Proles were gripped by superstitious fear. Blaming the technos for sabotaging the Coming of the Milennium, the masses ran amok. The technical specialists, who alone could repair the damaged life support systems, were torn apart, vital facilities were smashed and burned, and all sanitation, medical and power services were lost. As hunger turned to famine, the mobs turned on each other, and cannibalism broke out in the megacities. Plagues soon followed.

Ten years later, less than 900 million humans remained alive on Terra.

RENAISSANCE:

THE RISE OF SOCIO-TECHNIC SOCIETY ON TERRA

The shocked space communities placed Terra under strict quarantine in 2167 to prevent the virulent diseases loosed upon the planet from rayaging their own environments.

Civilization still existed in the armed enclaves of the Covenant. Able to protect their production complexes and hydroponic facilities from the crazed Proles, the Covenanter's survival was guaranteed. Their medical teams also prevented the plagues from seriously damaging the personnel of the enclaves and their families.

However, most of the planet contained dazed survivors who quickly devolved to barbarism and even more primitive levels of existence. Urban survivors were rarely more than small family or clan groups reduced to animal savagery. The rural barbarians tended to appear more organized, developing nomadic tribal cultures based on hunting or herding.

In the decades following the collapse, the Terran ecosphere slowly healed itself from the multiple ravages of over-exploitation, pollution, and general destruction of the natural environment, Vegetation and animals began to reclaim the desolate ruins that dotted the countryside.

The planetary population stabilized at one billion, but finally reached five thimes that by 2550. The Covenant enclaves maintained contact with each other, and a plan was formulated to restore the devolved barbarians of the hinterland to a civilized level of existence. To this end, the enclaves used intensive education to prepare their own people to act as cadres to lead their lost breathren into the fold,

At first, the barbarian tribes living around the fortified enclaves were induced with bribes and arguments to send some of their children to the enclave schools. These became the first converts to the new order, and they eagerly returned to the countryside to teach their tribesmen. In some instances the tribes reacted violently and lynched the trouble-makers, necessitating punitive expeditions from the enclaves. Soon, it was clear that the Teachers were not to be harmed without inviting punishment.

As the regions bordering the enclaves were won over, operations were extended to the more distant tribal areas. Special contact teams were formed to reconnoiter the barbarians, typically disguised as shamen, seers, and visiting hunters. The brightest candidates were marked for deep hypnosis to overcome their barbarian conditioning. The contact teams then suggested new ideas and attitudes which were accepted by the sensitized individuals judged to be the most influential members of their tribal groups. In time, contact with the enclaves was opened and re-education of the tribes was begun in earnest.

This process of reconstruction lasted for several centuries. Meanwhile, the enclaves of civilization themselves re-entered the mainstream of human culture. In 2238, the OutPlanets of the Solarian System reopened relations with Terra, and five years later Terra was admitted to the High Republic as a full member. Thus it was that, even as Terra contained vast tracts of wilderland populated by savage tribesmen, it also was part of an expanding starculture characterized by high technology and advanced science.

THE COVENANT

The Covenantist Movement was born out of a realization that the Pure Earth philosophy had totally failed, Indeed, the Brothers of the Covenant had recognized that they were the inheritors and direct intellectual descendants of those who had set Terra on its destructive course. Thus, they accepted on a personal level, their own responsibility for the consequences. As Terran society collapsed around them, they learned to detest the simplistic belief that social engineering could

ever produce a society worth supporting. No form of manipulation of individuals and masses of people was justified. So they aimed at developing a responsible social ethic that could guide each citizen to act in a constructive and respectful manner toward his fellows.

Founded on the principle that each and every citizen was personally and totally responsible for all his acts, the Covenant established a binding social contract between each citizen and every other citizen. A citizen was sovereign unto himself, free to act responsibly in his own interest. It could not be otherwise, for it was recognized that each sentient being was able to act in any manner he chose before others could move to prevent it. The only safeguard against deliberate wrong-doing and infringement of the rights of others was the personal conscience.

The Covenant held that each citizen was free. It also held that each citizen was also free to be called to account for actions of a nature harmful to the rights of any other citizen. There could be no hiding behind position in society, no protection afforded to institutional

authority, no appeals to considerations of necessity or expediency. As members of a highly organized and repressive bureaucratic system themselves, the Covenantists knew the danger of allowing men to justify their personal conduct in terms of their administrative duties. There would be no more of that. Either a citizen lived as a sentient being in society with other sentient beings, or he was a rabid beast unfit to associate with reasonable beings. The choice was freely his: Accept the Covenant, respect others, and enjoy the benefits of a society of reasonable men — or choose exile.

The Covenant protected only those who accepted and lived by the Covenant. Deny the Covenant, and those joined in the Covenant would cast you out.

Between 2100 and 2185, Covenantist philosophers wrestled with the many ethical difficulties inherent in the code of conduct they were proposing. It was clear that this was a most idealistic philosophy. It could easily be perverted to demand conformity, oppressing those who exercised the very freedom granted by the Covenant if they offended the majority.

Tolerance of difference thus became the prime tenet of Covenantist thinking. A code of social conduct was evolved which disapproved of ethnocentric and class-oriented thinking. To assist the average man to analyze situations requiring ethical conduct, the Science of Ethical Logic was developed. All citizens were required to acquire proficiency in this logical discipline. For, in a society of individualists committed to sustaining a social order in which no one would ever again have the right to impose his unquestioned will on others, belief in the intrinsic rightness of ethically responsible behavior had to be supported by a means of arriving at the truth.

As the enclaves refined their educational procedures, most citizens became multi-lingual. Faced with uniting a fractured global culture, everyone was encouraged to acquire an understanding and respect for ethnic, cultural, and linguistic differences. Respect for other customs was made the highest form of etiquette. As this program developed, a salutary discovery was made. The new forms of immersion learning did not involve translation of one language into another. Rather, thinking was done in the new language alone as one used it. Multi-lingual persons trained in this way soon found they were able to enter into the mental set of the new language. Thus, they could comprehend attitudes and values embodied in that language. To use an ancient Terran saying, it became possible to walk in another's shoes and see the world as he saw it.

The Covenantists evolved a truly admirable ethic. Tolerance of cultural differences would be practiced until understanding could be achieved. When dealing with strangers, one should follow the old truth: When in Korelia, it is wise to do as the Korelians. To show or even think that one culture or race was in any way superior to any other was held to be the depth of intellectual dishonesty, ethical turpitude, and uncivilized behavior. This fundamental belief explains the remarkable success of the enclave contact teams during the reconstruction and reunification of Terra. In later years, it made Terran personnel the most effective first contact specialists of all humans in the galaxy.

Using the Telon Socio-Technic Mathematics, the Terran Covenantists

also devised the first of the Tests. These Tests were given to all prospective political leaders and high-level bureaucratic candidates to determine their ethical conduct indices, and therefore, their fitness to represent free individuals in a free society. Over the years, the Tests were refined until they yielded the same high levels of dependability as those employed by the IRSOL to identify those who should take command when required. By 2401, no Terran leader was allowed to exercise great authority over his fellows unless he had demonstrated that he possessed the tolerance, the stability of personality, and the skill to make ethical decisions which would respect the rights of those over whom he held power.

- **Acadamarian Maleena is characteristically reticient about the monumental part he personally played in the rise of Terra to interstellar prominence as an ethical and political leader of the mass of humanity. On November 12, 2178, Maleena landed his ship at the industrial enclave of Teledar II and initiated the first contact the human race had experienced with a very advanced sentient race. His timely intervention led to the development of the ethical and mathematical concepts which resulted in the evolution of Terra into a mature and flexible socio-political system.
- **Acadamarian Maleena also ignores entirely the detailed instructions and assistance which his starship personnel provided enclave scientists and technicians with respect to advanced power systems and circuitry, TISA sub-light drive systems, and FTL WarpDrive engines. This theoretical and technical assistance permitted Terra to reach for the stars once more, independent of all outside political forces.
- **The IRSOL intervention is clearly one of the most important turning points in Terran history. Yet only nine pages of comment are provided by Acadamarian Maleena on the subject, most of which is mathematical analysis of the rate of acceleration which the intervention produced in Terran technological development. It is, of course, true that the Acadamarian's conclusion that Terra would have evolved the Covenantist ethical modes in any event, but the effects of his assistance cannot be minimized. At least 300 years would have been required to accomplish what was done in a matter of nine months. This, in itself, had profound effects on the course of all human history in the near galaxy.
- **It is only now, some years after Acadamarian Maleena's death, that other facts have come to ligth. Maleena's own Socio-Technic predictions of the full effects of his intervention included much broader data concerning events in the colony worlds and on those of races inimical to humanity and the IRSOL as well. Beyond even these local races, his analyses took into account developments in the vaster interstellar Empires, with which the Federation of Planets in only now coming into contact and conflict, Rapid evolution of Terra proved important to some as yet unknown IRSOL plan to foster the development of the Federation and to bring in the races of the MekPurr, Blarad, and Rauwoof starcultures, as well as those more humanoid races of the near galaxy. In retrospect, Acadamarian Maleena appears to have projected the need for a common alliance against the sinister forces marshalling beyond our frontiers to impose their imperial domination over our peoples and worlds, and those projections were formulated almost four centuries ago! – N.B.S.

THE FRAGMENTATION OF THE TERRAN STARCOLONIES

Even before Terra collapsed, there was little sense of unity among the far-flung colonies beyond the Solarian System.

The many dissident groups had all departed Terra with an intention to form their own versions of the perfect society. The minority groups of the Lost Colonies scattered in all directions, often voyaging many hundreds and even thousands of light years from Terra. Some attempted to maintain contact with the other colonies and with the Mother Planet, usually to continue trade or to obtain needed supplies and equipment, but contact was lost at one point or another in time. Others desired to sever all ties with the rest of humanity and simply disappeared into the vastness of the galaxy.

The Galactic Peoples Republic was founded in 2159 by the 27 worlds that were settled from the SowWorld during the Exodus. Unlike the minority dissidents, there never was an intention to sever the Terran connection entirely. Rather, the SowWorld leaders hoped to establish a new base of power from which their long-range goals of dominating the human race under a communistic system could be pursued. However, it was well over a century since the planting of the first colony of Lenin III in 2083 that the G.P.R. was in an industrial and military position to implement an imperialist policy.

The Azuriach Cluster was settled by WestEurope (and South American) dissidents for much the same reasons as the G.P.R. In 2178, the 25 worlds formed the Azuriach Common Market of Worlds, which in turn evolved into the Azuriach Imperium by 2210. An unexplained anomaly was that most of the financing for this group of colonies came from South America.

The Free Colonies again developed into a loose grouping independent of Terra, which resembled the city-states of the ancient Terran Hanseatic League. Linked largely by trading considerations, the 32 Free Worlds eventually formed the Mercantile League of Planets in 2190.

By the 23rd century, the G.P.R., the Azuriach Imperium, and the Mercantile League were all entering into an expansionist period, while the High Republic remained more or less static. The new human starcultures aimed at increasing the number of planets under their control or influence, but for differing reasons. The G.P.R. was gripped by an ideological fervor to bring the Truth of the Marxist system to all worlds, as well as a need to develop a sound resource base upon which a military-industrial complex could be founded. The Azuriach Imperium had similar aims, but a more sinister element intruded in the form of an extreme xenophobia which led to the genocide of entire races of non-humans encountered by Imperial interstellar survey vessels seeking the Lost Colonies. As for the Mercantile League, new markets were sought. The Lost Colonies again became prized worlds, but non-human races were also contacted. Each League World staked out its claim over such worlds and defended its trade monopoly against all competitors.

The Sponsored Colonies of the High Republic always maintained contact with each other, but no concerted efforts were made to develop any form of close political union, unlike the G.P.R. and Azuriach Imperium. Concerned with establishing their own planetary economies, and provided with ready markets with the other Sponsored Colonies, no expansionist pressures developed throughout the 22nd century.

Thus, the human race was fragmented into at least four large groups, and a multitude of tiny single-planet sub-cultures isolated from the rest. This fragmentation contained the seeds of interstellar conflict.

THE TERRAN UNION OF PLANETS (2275-2500)

In the years between 2178 and 2243, Terran society and technology underwent rapid and dramatic evolution. Some of the socio-political events have been described. But of all these, it was the concentration of the Covenantists upon attaining high levels of education amongst the people which had the most profound effects. By the time Terra was admitted to the High Republic in 2243, its technology was fully the equal of that of the OutPlanets.

By 2275, Terran expertise began to outstrip the others, and continued emphasis upon education had resulted in a population with a level of education and technical training unparalleled in the rest of humanity. In 2275, the OutPlanet communities of the Solarian System joined with Terra to form the tiny Union of Planets. The Terran Union never formed the intention to found an interstellar empire. But the reputation of Terran culture, government, diplomacy, and industrial-technological competence and production capacity soon established the Union as the leader of the High Republic formed by the old Sponsored Colonies and the Solarian System.

In 2289 the Congress of the Republic agreed to a new constitution, based on Covenant principles recognizing the right of sentient beings of all races and the sovereign rights of the people of each planet to exercise full control over their internal affairs. Under the moral example of Terra, which again became revered by many as the Mother Planet of the human race, the Republic achieved high standards of conduct toward indigenous alien races. The Contact Service was established in 2293 to safeguard aboriginal and developing peoples from cultural shock and the often ruthless exploitation of some members of the

technologically more advanced starcultures. This policy increasingly brought the Republic into friction with the economic imperialism of the Mercantile League and the outright political imperialism of the G.P.R. and the Azuriach Imperium. The name of Terra became synonomous with championship of the oppressed minorities and races of the near galaxy, and anathema to the exploitationists and imperialtists of the other human starcultures.

Interstellar war became inevitable. Not only contact with inimical alien races like the Bugs, the Klackons, and the Ranan Horde, but conflict with the starcultures settled from Terra itself forced the Republic to defend itself. But it was populous Terra, with her great industrial capacity and technological supremacy, which had developed the mass of the powerful space and ground forces needed to protect the Republic and the many planetary protectorates under the watchful eye of the Union Contact Service. In the 225 years of the Terran Union, the courage and fighting skill of the elite Union Guard became legendary.

All this is not to minimize the contributions of the 59 other planets of the High Republic, for they too had a major part to play in the history of the starculture. But Terra alone surpassed their combined populations and industrial capacity. Thus, it was one starsystem alone that stands out as the undoubted leader of the mainstream in human evolution into a major starculture, and the enemies of the Republic entertained no doubt as to who the real enemy was — Terra and the Terran Union of the Solarian Planets alone. It was the bastion of Civilization, the champion and the arsenal of free peoples everywhere. Alone, it could stand against all of its enemies combined.

But Terra acquired staunch allies. Not only other human-inhabited

worlds appealed to the Terran Union for assistance and support, but numerous alien races as well. The Rauwoof Worlds, caught between the warring G.P.R. and the Azuriach Imperium, became 'friends and valued allies' df Terra in 2316. The Lords of the MekPurr, hard pressed in the terrible Bug invasions, discovered that not all humans were vicious pelt-hunters when the great BattleFleets of the Guard arrived to relieve Alcyone V in 2328. And in 2395, the embattled StarKingdom of the Blarad welcomed Terran support when the crack squadrons of the Imperial Azuriach StarNavy had shattered the Royal StarFleet in the Battles of Deneb. There were many other minor races, humanoid and pithecine, and others with starkly alien shapes and cultures, who all knew the strength of the Terran Union was arrayed in their defense.

These things we of the IRSOL witnessed.

THE UNITED FEDERATION OF PLANETS

On January 1, 2501, the 26th century began with the formation of the United Federation of Planets, an interstellar nation which incorporated the Terran Union of Planets, the High Republic, and a number of non-human starcultures who had been allied with the Terran Union in the century of conflict which had just passed. Representatives of 378 worlds met in the Chamber of Deputies in NuYork Complex on Terra to approve the Constitution of the Federation. Nineteen different races, comprising almost 14 billion sentient beings, were represented at this august gathering.

On that day, I, Tal Maleena of the IRSOL, set aside my sacred trust of chronicling the birth of a mature starculture, secure in the knowledge that there are others more qualified to carry on my work.

ENCYCLOPEDIA GALACTICA KR. 801.S.326.601 TERRAN EDITION †%%)

TAL MALEENA (1873-2576, Terran Calendar): IRSOL Socio-Historian, born citizen of IRSOL StarCity Valinor N'Thrale of High Councillor Mara Vor Tinala and Sar Maleena, Rear Admiral, IRSOL StarPatrol. Studied at Kalevarra Senthedar Alari Telant of Valinor N'Thrale 1903-1936, and graduated summa cum laude with the highest scores recorded in Socio-Synamic Philosophy and Ethical Logic since the epoch of Alad Narrari (c.53,150 B.B.). Undertook post-graduate studies 1937-1947 under the direction of Vao Toraava, Ac.Em.. Awarded title of Acadamarian in 1947. Assistant SocioHistorian during Terran Project, 1947-2023. Terran Project Chief SocioHistorian 2024-2501. Acclaimed unanimously to the High Council of Valinor N'Thrale in 2525. Supreme Councillor of that StarCity from 2526 to 2539. Deceased in 2539.

Preliminary prenatal genescan revealed that Foetus MTS.219.384BV8A (to be named Tal Maleena Vi Tinala) exhibited Level X psionic talent, and primary tutelage was commenced 90 days prior to predicted birth date under Master Adept Nors Trelari Vi Tunal. Tal Maleena evidenced remarkable capacities for the Arts of Telurgy and Self-Awareness and attained Grand Mastry at his maturity in 1904....

....In 1947, Maleena's treatise on the current status of galactic politicodynamics, Di Stavanara Tregala Gesept, created a stir in IRSOL Socio-Technic circles, Predicting that the Starkaad Empire would begin a major expansionary thrust into the Theta (Terran) Quadrant in 2500 (plus or minus fifty) years, he recommended immediate IRSOL action to cultivate development of a local starculture capable of unifying the diverse aboriginal races and starcultures in the region to resist the incursion into the Neutral Zone between the Starkaad and Korellian Empires. Though his recommendations to the High Council were rejected as unconscionable interference in the natural development of alien cultures, Maleena persisted in his efforts. In 2003, he presented incontrovertable proof of the ethical necessity of his logic in his brilliant Makalon Ranael Subrai, which is still considered to be one of the finest examples of Twentieth Level Ethical Equation produced since the Vokkon Surala Sindara of Alad Narrari established the need of the IRSOL race to abandon their home planet of Thrale before a Super-Nova destroyed it (Thrale: 9,CC,-95 Rigel StarSector GSC 10,JJ. -200 Terran Quadrant, Nova N53, 175). Consequently, intervention was authorized in 2005 to provide the Terran nation-state known as the North American Federation with the Xenon device....



....After the completion of his lengthy project to establish a stable and ethical starculture centering upon the planet Terra, Acadamarian Maleena retired from his duties. However, the impending threat of the Starkaad invasion of the StarCluster NCG 2447 (GSC 1.CC.—1400) caused the citizens of Valinor NThrale to recall the aged scholar to public duty by unanimous acclaim to the post of High Councillor.... In 2526, Supreme Councillor Tors Bravis himself acclaimed High Councillor Maleena to the Authority and stepped down. His decision was acclaimed by the populace and the High Council, as Maleena was regarded most qualified to deal with the crisis....serving the StarCity well until his death in office in 2539.

In 2540, when the full story of Maleena's contribution to Humanity and the other races of the Federation became generally known, the Grand Assembly of the Federation voted Tal Maleena Vi Tinala the highest honor of the United Federation of Planets, the Star of the Covenant.

THE STARSECTOR CHARTS

Two starsector charts are included with this atlas. The first is a 17×22 inch chart of the Terran Quadrant of the First Galaxy. The second is an $8\% \times 11$ inch chart of the Terran StarSector.

The Quadrant chart represents a volume of space 4000 LY x 5200 LY x 6000 LY, or a total of 1.248 x 10^{11} cubic light years. It includes a number of star clusters commonly known, a number of which contain significant numbers of inhabited star systems.

The Quadrant chart is divided into 200 LY \times 200 LY \times 200 LY Star-Sectors. Each StarSector can be referred to by a standard set of coordinates which fixes the position of the marker star in the center of the StarSector. The co-ordinates consist of three components:

- 1, A set of numbers from 01 to 26
- 2. A set of letters from A to T
- 3. Vertical coordinates measuring light years above or below the plane of the Terra/Solarian StarSystem.

Co-ordinates are always written with the preface GSC (Galactic Standard Co-ordinate). The co-ordinates of the Terran StarSector, for instance, are written: Terran Sector: GSC 14.JJ.+000. (Note that the letter co-ordinate is repeated twice, though it appears only once on the chart.)

To illustrate again, the Rigel Sector is at GSC 10.JJ.—200, meaning that Rigel, the marker star, is located at 200 LY below the Solarian StarSystem at letter co-ordinate J and number co-ordinate 10 on the Quadrant Chart.

To measure FTL jump distances between any two StarSectors, lay a metric ruler on the chart and measure the distance between the two marker stars in the StarSectors. This is the horizontal distance, with 1mm = 10 LY or 1 cm = 100 LY. The vertical distance is found by finding the difference between the vertical co-ordinates of the two marker stars.

For example, the horizontal distance between Terra/Sol and Rigel is 80mm or 800 LY. The vertical distance between them is -200 (Rigel) + 000 (Terra/Sol) = 200 LY. This forms two sides of a right-angled triangle. To find the exact distance between Terra/Sol and Rigel, find the length of the hypoteneuse:

≈ √(800 × 800) + (200 × 200)

= 824 LY

Note also that the vertical distances given on the Quadrant Chart extend +3000 LY to -3000 LY from the +000 plane of Terra/Sol.

The dark line extending across the chart between co-ordinates 18 and 22 (somewhat zig-zagged) represents the boundary line of the Orion Arm, in which Terra is found. The region beyond that out to the edge of the chart represents a relatively star-free area between the Orion and Sagittarius Arms of the First Galaxy. The Sagittarius Arm itself is about 4000-5000 LY beyond the edge of the chart. The Galactic Center is about 30,000—35,000 LY beyond the same edge of the chart.

StarSector Charts are cubes 200 LY on a side, Co-ordinates are again presented in three parts

- 1. A set of numbers from 01 to 10
- 2. A set of doubled letters
- 3. Vertical co-ordinates measuring the distance above or below the plane of the marker star for the StarSector (maximum +100 or -100).

The first two co-ordinates exist largely to assist players to find the approximate position of the star on the chart, which may become rather cluttered with names, numbers, etc.

The marker star for the sector is always given the co-ordinate 00, followed by a slash (/) and then the Quadrant vertical co-ordinate. For example, Terra/Sol is at co-ordinate 000/00, meaning that it is at the center of the Terran StarSector (00) on the plane of itself and is also at the plane of Terra (+000) on the larger Quadrant Chart. Rigel, mentioned previously, is at StarSector co-ordinates 00/-200 in the Rigel Sector.

All other stars have a triple co-ordinate. For example, Algol, a binary B8v/K4v system is at co-ordinates 8.CC.+70, meaning it is in the vicinity of where 8 and CC lines meet, and +70 LY above the plane of Terr/Sol.

The full co-ordinate for any star includes first its StarSector co-ordinates and then its Quadrant co-ordinates. For instance, Algol's complete listing is 8.CC.+70 Terran Sector GSC 14.JJ.+000. A marker star like Rigel has full co-ordinates -200/00 Rigel Sector GSC 10.JJ. -200, while Terra/Sol has 000/00 Terran Sector GSC 14.JJ.+000.

If one were to extend the action beyond the Terran StarQuadrant, the Quadrant Co-ordinate would be given. This simply requires naming the Quadrant after the full co-ordinates. Rigel, for example, has a Galactic co-ordinate of 00/-200 Rigel Sector GSC 10.JJ.-200 Terran Quadrant.

Computing distances between planets in a StarSector is again a matter of measuring the horizontal distance on the chart, with the scale a 1mm = 1 LY or 1cm = 10 LY. Then find the vertical distance, and proceed as described for finding distances between marker stars.

Suppose that one wished to make an FTL jump from Algol to Rigel. First compute the distance from Algol to the sector marker, Terra/Sol. Then compute the distance from Terra/Sol to Rigel. All FTL jump distances between starsectors are computed between the marker stars, and one must first proceed to the marker star of the sector he is in before jumping to another starsector.

The H distance from Algol to Terra/Sol is 78mm = 78 LY, while the V distance is +70 (printed above Algol on the chart). The exact distance to the marker star = square root of $78^2 + 70^2 = 105$ LY. We have already computed the distance from Terra to Rigel at 824 LY, so the complete distance = 105 + 824 = 929 LY.

Players are advised to use a good basic pocket calculator with square root functions. The computation given above took 18 seconds, including measurement, with a Texas Instruments TI-25. The bookwork involved is purely incidental with electronic assistance. The result is a real feeling of authenticity.

STARSECTOR AREA CHART: FORM ISS.2550.26R

Also included for player use and xerox reproduction is a standard blank starsector area chart which can be used to plot stars in regions designed by the StarMaster.

Note that all entries include the vertical co-ordinate over the name of the star, and then the stellar type and size under the name, A dot or star is placed on the exact position of the star.

AA	BB	сс	DD	EE	FF	GG	нн	tl .	11
1		:	:						
					4 				
2									
3				!					
		!							
4							,		
					· · · · · · · · · · · · · · · · · · ·				
5									
6			;						
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8									
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9									
10		, ,							

PLANETARY DESCRIPTIONS

The following planets are described in the Terran StarSector Atlas in alphabetical order:

Alderamin VII Maat II Marathon III Algol V Alphard V Markaab V Mara III Alphecca III Alpheraz IV Menkaar V Altair V Minerva II Mira IV Ankaa III Anubis VI Mitra III Archenar VI Namir II Nassur III Arcturus VI 36 Ophiuchi Asterion III 70 Ophiuchi Aten IV Attar III Osiris IV Poliux V Avatar III Baast III Procyon IV Canopus V Procyon V Ptah II Capella V Ra III Caph III Castor III Rakshasha V Regulus VI Cobra II Rigil Kentaurus III Dardanus I Denebola V Sabik VI-Set III 40 Eridani 82 Eridani Sirius V Stator III Formalhaut III Succarath IV Hathor III Sura II Helios IV

Hathor III Succarath I
Helios IV Sura II
Horus IV Talos III
Hyperion III Tau Ceti II
Kephre II Terra-Solar

Kephre II Terra-Solarían System Kultis V Thoth IV

Larva III Vega V
Leonidas II Vishnu II

yet not plotted on the Sector chart.

STARSYSTEMS PLOTTED BUT NOT DESCRIBED

A number of starsystems have been plotted on the Terran Sector Chart which are left undescribed. These represent additional starsystems which the StarMaster can design himself or leave to player-characters to explore from scratch. These are:

10,DD,-40 Naga 4.AA.-80 Ameratsu 5.AA,+30 Coriolanus 9.EE.-80 Ravan 7.HH.+00 Daksha 9,11.-75 Remora 9.CC.+50 Rukh 4.AA,-75 Hiruko 10,HH.+20 Illuyankas 8,11,+35 Shahar 7.11,+00 Indra 8,GG,+25 Simurgh 2.HH.-20 Isis 7.GG.-50 Siva 3.BB.-95 Takami-Musubi 7.DD.-60 Kali 8.FF,-90 Lemur 8.HH.+40 Trog 4.HH.-40 Luxor 8,AA,-10 Tulana 9.11.+60 Makara 6.HH,-15 Yama

Additional starsystems can be plotted by the StarMaster as well. The 8,000,000 cubic light years encompassing the Terran Sector holds almost 32,000 stars, and planets could easily be found around some as

Α *	ВВ	сс	DD EE	FF +20	GG	HH -80	п л
				DARDA	ANUS	• KEPHRE	
		ASTERION	ATTA	R		KSIY	* AVATAR
-40		G2v	+17 K2v/K3	3v		+35	G2v
* THOT	Н	15	* REGULUS			PTAH G4v	
		*ALPHARD					-60
			-30 • BAAST	+40 * OSIRIS	+10 * ANUB	-20 • ISIS	* HYPERION
	+90 +8	5 +45	Glv	K4IV	M9iii	F5v	-30
*	HORUS * RA	A • MARA	THON			30	• STATOR
	m/11/m3+ m			•11	•	ATHOR	+35
		-45 SET	-50 MAAT	DENEBOLA			ALPHECCA
	-75	MOV	MIV	* A3v +5 Δ1	IOTH	*	AUV
	+ HIRUKO		* +60	*Ã0	+11	-40 • LUXOR	
	F7v		• LEONIDAS		* ARCTURUS	Glv	
-80 * AMERA	-95 ATSII • TA	KAMI-MUSUBI		-35 • HELIOS	₩ KZIII		
FOIV	F4		+17	GOV			-19
			*POLLUX				SABIK *A2v
		-77 * CANOPUS	+23	+2	+8 KIV/K5V	+60 VISHN	
		FO Ib-II var	CASTOR	PROCYON -4	* 36 OPHIUCI	G2v	
	+20		-2 CIDII	* F51V/K5d * RIGIL K			+35 GALACTIC
	CORIOLAN	US	*CAPELLA Alv/	rd TERRA	17	CHI	SURA CENTER
-45	- KIV/KJV	-10	68III 40 ERI	DANII	* VEGA		
* KULTIS		: COBRA K4v/K4v	KOv/MO	CETIGE A	LTAIR *	-15 MIN + YAM	-70 IA • MARA
Мбш				*-14 CETTGBV AZ	V -11 AZV	G5v	
		ALDEBARAN		GSu	FORMALHAUT		
		* K5		CAPH			
+3			-60 * KALI	* F2 _{IV}		+ SIVA	*DAKSHA *INDRA
· X	ANTHUS		^ KALI M4III		- 47	K7iV	MOIV G9V
-10				+44	AL NAIR		+35
.TULAN	A		* RAKSHASHA	ALPHERA	Z * 871v	+25 • SIMURGH	+ SHAHAR
Klv		+70 ;ALGOL	M2IV	* 844		Góv	K3v
		™ B8v		-90):		+40
		"这是是我		·LE		INERVA .	TROG F8v +60
	-30 TALOS KOV		-99	67			- MAKARA
	KOV		* ARCHENA	R *ANKAA	-90 + LARVA	- SUCCARATH	KOv
				KO:::	Ğlv	F7v	-75
-75 • NASS	SUR	. 0	UKH	- RAVAN	-60		* REMORA
9 G7v		-5 * K * MIRA * F M5:::	2♥	F8v	NAMIR		G4v +00 MITRA
+9		MSIII	-40		G9v	+20	* FOIV
*MENI	KAAR	CARL PARK	• NAGA			*ILLUYA 99 Gév	ANKAS
		NITED FEDERA	ION OF PLANETS STE	LLAR SURVEY 25		ARKAAB	

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ALDERAMIN VII -

StarSystem Coord. Stellar Primary FTL Conversion Planets in System ALDERAMIN VII Orbital Distance Length of Year Length of Day Planetary Diameter Surface Gravity Temperature Range Atmosphere Type

Hydrosphere Type

StarNationality

Population

6.GG.+46 Terran Sector GSC 14.00,+000 A7v main sequence star 10,000 LS

Type 3 Severely Tilted Terran Planet: 2 moons 2500 LS (5.00 A.U.)

4 08 Terran years 23 hours 50 minutes 12,000 km 0.92 G (dense) -90°C to 75°C

THE THE LABOR TO SERVICE

Terran: 1200mm, with O2 at 250mm (high). Volcanic contaminants present, some noxious 25% = Arid Planet conditions, with landlocked seas and lakes. Low humidity and precipitation

UFP Colony

Human Colonial in sealed shelters Sentient Race

1,000,000 Tech/9-10

Tech Level StarPort Rating UFP StarPort D landing ground

Societal Organization **Open Society** Societal Strength 10% Xeno Acceptance Government Type Republic

18% (Vote = 55%) Government Support 70% (Revolt = 10%) Loyalty Index

Repression Index 06% Minimal Bureaucracy Level 15% Corruption Level 1-5 Law Level

Economic Rating Average Agricultural MCR 4750 **Gross Productivity**

CR 4750 Per Capita Income 30% = MCR 1425 Tax %/Levy 10% = MCR 500 Military Spending

luxury foods (exotic), gold, silver, platinum Major Exports parts, vehicles, misc. equipment, general tools Major Imports 10% import duty on non-preferred goods Trade Restrictions

33% Trade Acceptance

Alderamin VII exhibits the classic characteristics of a Type 3 Terran Planet (refer to 15.5, Space Opera), with animal and plant life superbly adapted to the changing conditions. Many animals migrate with the sun, but a few are highly adapted to polar and sub-polar winters, developing valuable furs (150% normal prices) which may be obtained from the



hardy 'Mountainmen' of the colony. While some of the beasts are fairly tough, none exceed the size and ferocity of the Terran grizzly. Feline life forms are conspicuously absent, but there are wolf-like canines.

Herd animals resemble the Terran Bison and Musk Oxen, deer and antelope. As the 'forests' are little more than taiga, most creatures are adapted to a relatively open environment, exhibiting a good bit of speed.

Seismic activity is at a remarkably high level on Alderamin VII, with quakes of Richter 4-6 not at all uncommon. In the vicinity of the many active volcanoes along the equatorial belt, respirators and filter masks will be required, as some of the fumes are highly toxic or narcotic.

Alderamin society is typically rural and industrious, although the colonials are given to exuberant partying, brawling, and gambling when the work is done. Once accepted, a stranger is accorded warm hospitality. The luxury foods of Alderamin are particularly prized by the humanoids of Procyon IV, who will pay a premium of +5d6% above usual costs for them.

ALGOL V -

8.CC, +70 Terran Sector GSC 14.00+000 StarSystem Coord. B8v/K4v binary star system Stellar Primary

10,000 LS FTL Conversion Planets in System 10

Type 12 Terran 'Eccentric Orbit' Planet: ALGOL V

0 moons. Min. 3000 LS (6.00 A.U.); Max. 9500 LS Orbital Distance

(19.00 A.U.) 19.13 Terran years

Length of Year 47 hours 17 minutes Length of Day 12,000 km Planetary Diameter 1.20 G (very dense) Surface Gravity

-115°C to 90°C Temperature Range

Terran: 225mm (thin), with 02 at 55mm Atmosphere Type

(below minimum levels). Respirators are es-

Terran UFP Military Outpost StarNationality Terran humans; UFP personnel & scientists Sentient Race

50,000 humans **Population**

Tech/10+ Tech Level

UFP StarPort AAA Class 2 (Tech/10+) StarPort Rating Terran Research Colony: Military Discipline Social Organization Societal Strength 10

01% Xeno Acceptance Military Command Government Type 100% (Vote = 100%) Government Support 100% (Revolt = 0%)

Loyalty Index 00% Repression Index

Bureaucracy Level Military Security 00% Corruption Level 16-17 Law Level

Economic Rating **Gross Productivity** Per Capita Income Tax %/Levy

Military Spending Major Exports Major Imports

food, parts, vehicles, misc, equipment Trade Restrictions 00%

Trade Acceptance

Government Contract

Algol V is the site of a ForeRunner civilization of some magnitude. The planet has been placed under a total interdict by the UFP administration, as many of the artifacts discovered in the ruins have military significance or else are irreplaceable art treasures. There are no hostile life forms on the planet, the largest beast being a burrowing 'L' creature (25 kg) of an omnivorous nature. Plant life is typically of the sort found in desert regions. Little data has been released on Algol V because of the planet's classified status.

Removal of a ForeRunner artifact from Algol V is punishable by ten years (Terran) imprisonment. Unauthorized presence on the planet carries a CR 10,000 fine and up to three years imprisonment. 2.BB.-40 Terran Sector GSC,14,33,+000

Terran: 700mm, with O2 at Terran Standard

175mm; severe blizzards in middle and high

72% H₂O = 7 continents; polar and sub-polar

seas frozen all year round, with huge ice caps

covering continents down to edge of sub-tropics

5,000,000 Humans/20,000,000 Alphari Hu-

UFP StarPort AAA Class 1 (Tech/10 facility)

Type 5 Terran 'No Season' Ice Planet

6505 LS (13,01 A.U.)

10.53 Terran Years

15,000 km

Human

05%

07%

1.5

60%

5

1-5

Open Society

05% prejudice

Federation Colony

52% (Vote = 88%) 95% (Revolt = 5%)

Moderate, efficient

Very Rich Industrial

30% = MCR 37,500

20% = MCR 25,000

Free Trade Policy

Humanoid Alphari

39% (Vote = 53%)

Poor Agricultural

25% = MCR 7500

15% = MCR 4500

MCR 30,000

CR 1500

furs, food

Open Society

17% prejudice

Republic

food, high-tech goods

precious & industrial metals

MCR 125,000

CR 25,000

-90°C to 30°C

25 hours 36 minutes

0.94 G (moderate density)

latitudes in winter season.

UFP Associate Member

Human Colonial/Humanoid

Tech/10 human; Tech/6 humanoid

ALPHARD V =

StarSystem Coord. Stellar Primary

K4iii giant star 35,000 LS **FTL Conversion** Planets in System 11

ALPHARD V Orbital Distance

Length of Year

Length of Day Planetary Diameter Surface Gravity

Temperature Range Atmosphere Type

Hydrosphere Type

StarNationality Sentient Race Population

Tech Level

StarPort Rating Sociological Data Sociatal Organization Societal Strength

Xeno Acceptance Government Type Government Support Lovalty Index

Repression Index Bureaucracy Level Corruption Index Law Level

Economic Rating Gross Productivity Per Capita Income

Tax %/Levy Military Spending Major Exports Major Imports

Trade Restrictions Trade Acceptance Sociological Data

Societal Organization

Societal Strength Xeno Acceptance

Government Type Government Support Loyalty Index

66% (Revolt = 34%) Repression Index 22% Minimal **Bureaucracy Level** Corruption Index 16%

Law Level Economic Rating **Gross Productivity** Per Capita Income

Tax %/Levy Military Spending Major Exports Major Imports

Trade Restrictions Trade Acceptance

Alphard V is an Ice Planet locked into an unchanging pattern, with fair-

ly moderate climatic conditions in lower latitudes, but high latitudes have severe polar conditions all year around.

food, liquor, misc. tools

Tech/7 restriction on goods

The planet contains vast deposits of industrial metals and a moderately rich supply of precious metals, and the human population has developed a most profitable mining industry. Many secondary manufacturing industries also exist on a small scale to provide local needs, but high technology goods (electronics, computers, vehicles, etc.) are imported, Almost all of the human colonists live along the equatorial belt.

The Alphari tribesmen discovered on the planet have been brought quickly to Tech/6 levels by the friendly human colonials and the Contact Service. The amber-skinned humanoids are strikingly handsome and can intermarry with humans. Relations between the two races are most congenial, but the Alphari regard off-planet visitors with distrust, as an abortive 'gold-rusH produced some unpleasant consequences when prejudiced prospectors attempted to exploit the natives. Harkening back to their recently nomadic past, the Alphari still engage in hunting on the ice, although a number have turned to agriculture and are beginning to produce grain and vegetable crops. Some have entered human colonial society and have attained high levels of education and technical skill, which they are carrying back to their own people.

The Contact Service still restricts the level of goods that can be traded to the Alphari to Tech/7 goods, as the race is still vulnerable to culture shock.

A major portion of Alphard V is under a thick ice cover, while the low latitudes support widespread northern taiga forests. Most of the planet is uncharted wilderness. Animal forms are excellent fur bearers, most of which are relatively small and of limited or no danger to personnel, However, the Alphari Cave Bear, a formidable 'F' beast with maximum physical characteristics and terrible 'A' claws and fangs (fast movement) must be constantly guarded against, as it is a voracious omnivore which evidences all of the endurance, cunning, and ferocity of the Terran polar bear, Pelt Value = CR 200 x 2d6.

ALPHECCA III

3.HH,+35 Terran Sector GSC 14,JJ.+000 StarSystem Coord. AOv main sequence star: K3v companion Stellar Primary FTL Conversion 10,000 LS

Planets in System

Type 4 Terran 'Cool' Planet: Ringed; 3 moons ALPHECCA III.

Orbital Distance 4500 LS (9.0 A.U.) 9.86 Terran years Length of Year Length of Day 30 hours 58 minutes 11.000 km Planetary Diameter

Surface Gravity 0.84 G (dense) -90°C to 55°C Temperature Range Atmosphere Type Terran: 750mm with O2 at 175mm (normal).

Climate and weather tend to be more severe than on Terra.

Hydrosphere Type 78% = 6 continents, with extensive polar ice caps and 3 landlocked seas.

UFP Protectorate

StarNationality Sentient Race Humanoid

Population 50,000,000 Alpheccan humanoids (est.)

Tech Level Tech/4

StarPort Rating UFP StarPort B Class 3 (minimal Tech/10 facitlity)

Social Organization **Primitive Societies**

Societal Strength 30% Xeno Acceptance

Government Type Tribal 'Anarchy' 22% (Vote = 50%) Government Support Lovalty Index 55% (Revolt = 40%)

40% Repression Index

Non-existent beyond UFP Outpost at StarPort Bureaucracy Level Corruption Level

14-15 (Contact Service directive) Law Level

Economic Rating Poor Agricultural Gross Productivity MCR 12,500 Per Capita Income CR 250

Tax %/Levy Military Spending Major Exports

furs, food, gold, silver, platinum Major Imports general tools, misc. equipment

Trade Restrictions Contact Service license: Tech/4-5 goods only Trade Acceptance

Alphecca III is under Contact Service administation as a protected planet. The tribal Alpheceans are not yet developed technologically and culturally to a point where they can survive the impact of full contact with advanced StarCultures. Limited trade is allowed under license.

but importation of items above Tech/5 is strictly forbidden, Personnel are not allowed to carry energy weapons or military arms of any kind unless granted permission to do so by the resident Chief Planetary Commissioner, (About 2000 Contact Service Personnel and a reinforced battalion of Space Marines are based on the planet.)

The Alpheccans are divided into tribal groups of about 25,000 to 50,000 each. They are highly warlike and engage regularly in raids and minor battles with each other. They prize only 'warrior' virtures and despise any form of cowardice. In cultural behavior, they resemble the Amerinds of the North American woods, especially the militant Iroquoians. In appearance they are quite human except for their deep coppery-gold skin tones. Intermarriage with humans is possible, and a number of resident humans have taken Alpheccan mates, Marriage and adoption into the tribe (after surviving an ordeal called the 'gauntlet') are instant entries into Alpheccan tribal society, with full rights of zenship granted upon admission.

Animal life is remarkable similar to Terran woodland forms, although there are differences in coloration and configuration. Fur-bearing beasts are very common, and furs are the principal export commodity, although food products (meat, grain, Alpheccan fruits and vegetables) are also exported in growing quantities. Precious metals are also present in significant quantities, but the Contact Service has been firm in preventing a 'rush' of prospectors onto the planet.

ALPHERAZ IV

8.EE.+44 Terran Sector GSC 14.JJ.+000

StarSystem Coord. Stellar Primary 89v main sequence star

FTL Conversion 10,000 LS

Planets in System 12

ALPHERAZ IV

Type 15 'Hot' Planet: 0 moons

3000 LS (6.00 A.U.) Orbital Distance Length of Year 4.65 Terran years Length of Day 9 hours 18 minutes

30,000 km Planetary Diameter Surface Gravity 1.90 G (moderate density)

85°C to 175°C Temperature Range

Corrosive: 1000mm, with numerous atmo-Atmosphere Type

spheric contaminants. Radiation levels at RAD/

5-10.

Hydrospheric Type No water: numerous acids and other highly corosive substances.

StarNationality UFP Research Outpost Sentient Race UFP member races Population 5000 in domed colony

Tech Level Tech/10+

UFP StarPort D landing ground StarPort Rating

Social Organization **Contact Service**

Societal Strength 10 00% Xeno Acceptance

Government Type Contact Administration Government Support 100% (Vote = 100%) 100% (Revolt = 00%) Loyalty Index

Repression Index 00%

Moderate, highly efficient **Bureaucracy Level**

Corruption Level 00% Law Level 18 **Economic Rating** _ **Gross Productivity** Per Capita Income _ Tax %/Levy Military Spending

Major Exports none, but very rich in metals

Major Imports food, parts, misc. equipment, vehicles

Emergency Landing only; otherwise Govern-Trade Restrictions

ment Contract.

00% Trade Acceptance

Alpheraz IV is the only planet in the Terran StarSector known to have native silicate life forms. These life forms correspond to the full range of 'beasts', with almost any combination of characteristics possible. However, none have armor under C/C/D, and some have bodies equivalent to AFV armor. They appear to draw 'nourishment' directly from hard solar radiation, but also 'eat' minerals. While Alpherazi conditions are savage in their severity, it is now apparent that the silicates can survive in environments with lower temperatures and radiation levels. Mass of such creatures is five times normal for beast size.

There are sentient silicates on Alpheraz, but as yet no contact has been made with them. They appear to be of about human size, but mass five times human norms. Rated as 'beasts', they have A/A/A natural body armor, range between 275 kg and 550 kg, possess 'B' or 'C' natural weapons with +3 penetration DMs, and maximum levels for carrying capacity, damage, etc. Their intelligence levels are unknown, but appear to be rather high as no attempt to secure a member of this mysterious race for examination has succeeded, regardless of equipment and expertise used. The Alpherazi Silicates are not hostile to UFP races and tend to avoid personnel. However, on one occasion, a Silicate rescued a stranded research officer, killing two silicate beasts attacking him, then carrying him 225 km back to the Outpost boundaries before disappearing again.

Alpheraz IV is unbelievably rich in uranium and thorium, Estimated returns from a colony would be CR 500,000 per capita, once facilities are established. Cost of development would be CR 750,000 per person if adequate protection from the environment is to be afforded.

Breakdowns of unspecialized equipment run at a 10% chance per 24 hours if not specially prepared for the environment, with maintenance needed every 72 hours. Prepared equipment has normal breakdown levels, but costs 500% standard prices and requires weekly maintenance.

ALTAIR V

StarSystem Coord. 6.FF.+03 Terran Sector GSC 14.JJ.+000

Stellar Primary A&v main sequence star

FTL Conversion 10,000 LS Planets in System 11

ALTAIR V Type 1 Terran Arid Planet: 2 moonlets

Orbital Distance 1750 LS (3.50 A.U.) 2.07 Terran years Length of Year Length of Day 27 hours 20 minutes 13,000 km Planetary Diameter Surface Gravity 1.00 G (dense)

Temperature Range -65°C to 75°C

Terran: 800mm, with 02 at 175mm (normal). Atmosphere Type In desert regions, dust concentrations often exceed 1765 mp/m^3 and filtering equipment is

essential, Dust storms are also common. The entire planet is deficient in precipitation and humidity levels except for the uplands, which tend to approach congenial Terran norms.

19% = 3 landlocked seas and a large number of Hydrosphere Type lakes, found mainly in the central uplands of the Torrens Plateau and the Ortega Range,

UFP Member Planet StarNationality Human Colonials Sentient Bace 100,000,000 humans

Population Tech/10+ high-technology culture Tech Level

StarPort Rating UFP StarPort AAAAA Class 1 (Tech/10+ facili-

ties)

Social Organization Open Society, but with regions under strict

security Societal Strength 10

04% Xeno Acceptance Government Type Republic

62% (Vote = 70%) Government Support

Loyalty Index 92%, Revolt is virtually unthinkable

Repression Index

Bureaucracy Level Moderate, very efficient

Corruption Index 01%

Law Level 14-15, with superbly efficient Police/BRINT

agencies

Economic Rating **Exceedingly Rich Industrial**

Gross Productivity MCR 10,000,000

CR 100,000 (Av. Personal Income=CR 25,000) Per Capita Income Tax %/Levv

50% = MCR 5,000,000

Military Spending 40% = MCR 4,000,000

Major Exports armaments, vehicles, aircraft, StarShips Major Imports collapsium, irridium, petrochemicals, industrial

chemicals, food, wines, luxury goods

Trade Restrictions Advanced weapons and StarShips are sold only to UFP Member Planet Governments by direct

contract,

Trade Acceptance 75%

Altair V is a Terraformed Planet, first colonized in 2068. Since there were only limited and rather primitive life forms, Terran plants and animals were introduced. Thus, the planet evidences a distinctly Terran character in its desert and steppeland flora and fauna. The uplands are fairly well watered, and Terran mountain life forms have been introduced, resulting in wooded valleys and slopes with mountain lions, deer, and other characteristic animals.

Altairian society is virtually identical to Terra's. The planet is highly industrialized, and the standard of living is high as well. Since a good portion of the industry is government owned, the 'tax' level equates to an effective 50% of the planetary gross product, and Altairian commitment to a strong military and naval force has resulted in diversion of 30% of the PGP to defense.

ANKAA III

StarSystem Coord. 9.EE.-62 Terran Sector GSC 14.JJ.+000

Stellar Primary KOiii giant star FTL Conversion 35,000 LS

Planets in System 12

ANKAA III Type 1 Terran Standard Planet: 5 moons

Orbital Distance 3500 LS (7.00 A.U.)
Length of Year 5.30 Terran years
Length of Day 24 hours 12 minutes

Planetary Diameter 30,000 km

Surface Gravity 3.00 G (very dense)
Temperature Range -80°C to 65°C

Atmosphere Type Terran: 1500mm, with O2 at 250mm (high). Climate and weather tend to more severe ex-

tremes than Terra's

Hydrosphere Type 70% = 7 continents, 4 sub-continents, and

many chains of islands. Heavy precipitation

and fairly high humidity.

StarNationality UFP Member Planet
Sentient Race Blarad Ursoids
Population 750,000,000 Ursoids

Tech Level Tech/9

StarPort Rating UFP StarPort AAAAA x 3 Class 1 (Tech/10+

facilities)

Social Organization Blarad Aristocratic

Societal Strength 10 Xeno Acceptance 20%

Government Type Blarad Monarchy
Government Support 40% (Vote = 85%)
Loyalty Index 95% (Revolt = 01%)

Repression Index 02%

Bureaucracy Level Moderate, very slow, ponderous, and precise

Law Level 6-9

Economic Rating Exceedingly Rich Industrial

Gross Productivity MCR 16,875,000
Per Capita Income CR 22,500
Tax %/Levy 40% = MCR 6,750,000

Tax %/Levy 40% = MCR 6,750,000
Military Spending 30% = MCR 5,000,000
Major Exports Manufactured products

Major Imports industrial metals and chemicals, collapsium Trade Restrictions 15% import duty on non-preferred goods

Trade Acceptance 75%

Ankaa III is an old Blarad colony first settled from the Horsehead Nebula StarSector in 1855 (Terran calendar), In 2388 Ankaa III joined the old Terran Union as an 'Allied Planet, and in 2412 became a full member of the Federation.

Ankaa III possesses a very powerful gravitational field, beyond the capacity of most humanoids and humans to adapt to successfully. However, there is a small human population of about 3,000,000 hardy souls who have managed to adjust to the severe conditions and provide a much needed high-tech component to the Blarad economy. Another 500,000 humans live in the domed cities of Ankaa III's largest moon.

The Blarad society is a very modified aristocracy, which is more titular than anything else. The Blarads value the nobility of lineage for its social status, but are frankly realistic about according promotion by

merit. The government is, to all intents, democratic, with the Crown existing as a figurehead institution. There are instances when the King himself shows outstanding leadership qualities, and at such times it is often the case that he acquires sweeping influence over Blarad political affairs. This is presently the case, for His Royal Highness TeK aal Tukakar Thonaval VII is a brilliant sovereign, educated in the StarFleet Academy on Tycho and the University of Ceta.

Ankaan life forms are tough beyond belief. No person born on the planet is under Strength and Constitution 16. The animal life itself is large, possessed of maximum physical characteristics, and is aggressively omnivorous. There are too many beasts to detail, but all are definitely a challenge for the hunter. Fortunately, the planet is largely well-settled, so that the truly dangerous animals are restricted to the wilderlands.

ANUBIS VI

StarSystem Coord. 2.GG,+10 Terran Sector GSC 14.JJ,+000

Stellar Primary M9iii giant star FTL Conversion 35,000 LS

Planets in System 12

ANUBIS VI Type 1 Terran Steppe Planet: 1 moon

Orbital Distance 1750 LS (3.50 A.U.)
Length of Year 1.46 Terran years
Length of Day 29 hours 23 minutes

Planetary Diameter 13,000 km

Surface Gravity 1.30 G (very dense)
Temperature Range -75°C to 65°C

Atmosphere Type Terran: 2500mm (high), with O2 at 450mm

(high), Moderately low humidity and limited

precipitation.

Hydrosphere Type 56% = 6 continents. Large areas are plains (steppe and savanna), but higher latitudes are

forested.

StarNationality UFP Affiliate: Independent Planet

Sentient Race Canine

Population 250,000,000 Canines

Tech Level Tech/8-9

StarPort Rating Anubis StarPort AAAAA Class 1 (Tech/9)

Social Organization Aristocratic Societal Strength 6 Xeno Acceptance 17%

Government Type
Government Support
Loyalty Index

Consitutional Monarchy
25% (Vote = 62%)
87% (Revolt = 11%)

Bureaucracy Level Moderate
Corruption Level 12%
Law Level 6-9

Economic Rating
Gross Productivity
Per Capita Income
Tax%/Levy
Military Spending
Very Rich Agricultural
MCR 2,500,000
CR 10,000
30% = MCR 750,000
20% = MCR 500,000

Military Spending 20% = MCR 500,000
Major Exports food, wine, textiles, industrial metals, petro-

chemicals

Major Imports electronic & computer parts, general tools,

misc, equipment,

Trade Restrictions Free Trade Policy

Trade Acceptance 45%

Anubis IV is properly named after the ancient Egyptian Jackal God of Terra, for the inhabitants evidence a distinctly human body surmounted by a wolfish head covered with short fur. The society is aristocratic, with family blood-lines and traditions playing a significant part in the daily life of the inhabitants. The government is a constitutional monarchy, but the King is allowed to take a major role in the administration of the planet. Terra is regarded as a close friend and ally.

Anubis IV is covered by vast, fertile steppelands, with forested regions limited to the uplands and the middle latitudes. The Annubians are superb herdsmen and have domesticated the bison-like grazers of their planet, providing large quantities of high-protein meat, particularly to Terra. Grain and grapes were introduced by the 500,000 humans also living on the planet, and an excellent line of wines is now exported. Recently, the deposits of industrial metals and petroleum on the planet have been developed to a high degree, again with most being exported to Terra.

Terra is widely respected by the Annubians because of the stout defense of the planet put up by the 7th and 9th StarFleets of the Terran Union during the Hissss'ist 'Land Grab' of 2309-2338, and the Annubians go out of their way to support Terran policies and Terran products. In return, Terra has expended considerable efforts to improve Annubian technology, and has brought the planet to Tech/8-9 levels from its original Tech/4 in less than two centuries.

The planet is largely tamed, but their remains a ferocious canine stalker /ambusher which haunts the mountain wilderness, the feared SkalTiger. This 'G' beast masses 400 kg., is armed with 'B' fangs and claws, and can attain very fast movement. Though rare, the SkalTiger is exceedingly cunning and has a 75% chance of successfully ambushing its prey. Even the most advanced technological gear gives the hunter only a 50% chance of detecting the presence of the creature before it can make its sudden rush and killing spring. The anubians regard it as the height of courage to slay a SkalTiger, and there is a huge waiting list for a hunting license (250 issued per year). The pelt itself can command CR 2500 x 3d6 on Anubis, as one obtains great social status if he can display it in his home.

ARCHENAR VI

StarSystem Coord. Stellar Primary **FTL Conversion** Planets in System ARCHENAR VI **Orbital Distance** Length of Year Length of Day Planetary Diameter Surface Gravity Temperature Range Atmosphere Type

B3v main sequence star 10,000 LS 11

Type 13.7 Terran Desert Planet: 2 moons

9500 LS (19.00 A.U.) 27,61 Terran years 30 hours 31 minutes 25,000 km

1,50 G (moderate density)

35°C to 85°C (subtract 10° to 30° at night) Terran: 1000mm with O2 at 225mm (rich). The dust levels in the atmosphere are very high, requiring the use of filters, Humidity levels approach 01% in most regions, and survival without a StillSuit is almost impossible for more than 19 hours. The sandstorms of Archenar VI are among the most violent known anywhere, and the worst have the destructive effects of a Mk.VIII sandblaster. Personnel

must take shelter at such times.

Few Terran planets are known which have a Hydrosphere Type deficiency of water comparable to that on Archenar. There is only limited atomospheric moisture, and few extensive subterranean de-

posits have been discovered. UFP Affiliate: Independent Planet StarNationality

Sentient Race **Human Colonials**

5,000,000 Polar Settlements/20,000,000 in the Population

Desert (7)

Tech/9 Polar Settlements; Tech/6-7 Desert Tech Level Seitches

StarPort Rating Archenar StarPort AAA Class 1 (Tech/9) Socialogical Data Polar Settlements

Social Organization Corporate State

Societal Strength

Xeno Acceptance 25% Prejudice Corporate Directorate Government Type **Government Support** 18% (Vote = 63%) 63% (Revolt = 05%) Loyalty Index Repression Index 75% (anti-Freman) **Bureaucracy Level** Moderate

Corruption Level 20% 16-17 Law Level

Exceedingly Rich Agricultural Economic Rating

Gross Productivity MCR 1,500,000 Per Capita Income CR 500,000 Tax %/Levy 30% = 1,500,000 30% = 1.500,000Military Spending Major Exports 'spice

Major imports parts, vehicles, factory equipment, luxuries Trade Restrictions Total ban on all non-authorized trade: Com-

pany monopoly

Trade Acceptance 75%

Freman Desert Seitches Sociological Data

Social Organization Primitive Tribal Societal Strength

Xeno Acceptance 82% Prejudice Government Type Tribal 'Anarchy' 21% (Vote = 59%) Government Support 94% (Challenge = 35%) Loyalty Index 10% (within Tribe) Repression Index

Bureaucracy Level 02% Corruption Level 1-5 Law Level

Economic Rating Poor Agricultural **Gross Productivity** MCR 10,000 **CR 500** Per Capita Income

Tax%/Levy Military Spending Major Exports Major Imports

MCR 7500 (ext.) 'spice

armaments Trade Acceptance 25%

Few Terran planets possess environments equal to that of Archenar VI for sheer deadliness. The high temperatures and virtual absence of moisture have eliminated all but the hardiest life forms, most of which are inedible or are so dangerous that only an expert skill or heavy armaments can save a man. The continually high dust content of the atmosphere is a serious hazard to health. Without a StillSuit, a man can hope to survive, at best, for a period of hours equal to his Constitution levels. and much less if a wind is up and dehydration is accelerated. The sand storms of Archenar are legendary for their savagaery as well, capable of shredding an unprotected human in minutes. Equipment breakdowns occur at triple the normal percentages, and there is always a 05% chance of a start-up breakdown, no matter what level of maintenance is maintained. And all equipment must be given a weekly maintenance check to ensure its operational efficiency, or an immediate breakdown check after exposure to storm conditions.

There are few native life forms dangerous to humans, but several are notable:

SandWorms: vast AAAAA+ segment 'worms' that can burrow through the sand at fast tracked vehicle speeds +1d20% (check per turn), the SandWorms of the deep deserts are capable of destroying a spice crawler or even the powerful Continental Siege Unit in moments, Only heavy blast cannon and thermonukes can dispatch them. Indeed, Sand-Worms are rated as equivalant to heavy armored fighting vehicles, with +4 armor and vehicle damage factors of 50 + 2,d100 points. When attacking, they have a 05% chance per 25 points of damage capacity (or part thereof) of engulfing and destroying any person(s) or vehicle(s) in their path. The 'Makers', in Freman parlance, are attracted by forcescreens and by noise, so personnel should move quietly over open sand and must learn to recognize drumsand. Technology is of limited value, and skill and plain stealth are mandatory in the deep desert to avoid these fearsome defenders of the 'spice'. It should also be noted that SandWorms remain below the surface until the final attack rush, so only the ripple of 'wormsign' can be seen on the surface sands to mark their approach. Where possible, one whould stay on solid rock surfaces.

Fremen: The nomadic tribesmen of Archenar VI are themselves dangerous to most outsiders. Oppressed and even hunted down by the Corporate authority, they have learned to mistrust all outsiders and will (82% of the time) render down captured personnel for their 'water.' The Fremen are disunited, with several hundred tribes scattered across the vast surface area of the planet. As yet, no leader has arisen to unite more than several of the tribes at any time, but should they all gather together in a common cause, there is little doubt that they will overwhelm the polar settlements. There are prophecies among the tribes, however, that a Prophet will come one day to lead them to victory against the hated polar settlements. Until then, no tribal leader will submit to the rule of another.

Within each tribe, politics are factional to an extreme degree. Leaders govern by force of character and good judgement (59% vote of general confidence), with a Revolt Index of 35% whenver leadership instability occurs in a crisis. A revolt is nothing more than an open Challenge by a rival for the leadership position, occasioning a duel to the death with crysknives made from the 'teeth of the Maker.' The crysknife is a weapon surrounded by tribal taboos and forbidden to non-Fremen, It has the cutting power of a monofilament blade, but cannot penetrate armor of +2 or better.

Freman society is clearly communistic, but out of necessity. There are few resources available to Fremen, and they share most of what they have, producing food and equipment in their underground seitches for all to share. Only water is regarded as true wealth, and water is accorded deep religious respect. Sharing of water is regarded as the highest of expressions of friendship and concern. The giving of water tokens to a Freman maiden an offer of marriage. But, at the same time, the Fremen are no beggers, and disrespectful bribes with water are regarded as the height of insult.



The population of the polar settlements is the dominant power on the planet. The majority (about 65%) are employees of the fabulously rich and powerful 'spice' companies, but some 90% of the polar humans are descended from Fremen. Government is by a Board of Planetary Directors selected from the executives of the spice trading companies. The government enjoys the confidence of most employees and some of the other Fremen of the polar region, and there is little to fear from internal revolt. The Directorate is concerned only with spice production and the suppression of the desert Fremen. A massive levy is exacted from each company to maintain the ground, air, and space forces of the planet to ensure that company monopolies on the spice trade are maintained. However, the atmospheric conditions prevent accurate space observation of the planetary surface, and small Fremen groups can move undetected despite the technology available to the Directorate.

There are also several smuggler seitches in the polar regions. The location of the smuggler bases is secret, and these engage in trade with the desert Fremen, as well as run spice crawlers of their own in direct son-travention of Directorate law. The smugglers evidence a 95% xeno-phobia toward strangers, essentially a defensive stance as they cannot afford disclosure of their operations to the planetary government. They employ stripped-down StarFighters and ultra-fast corvettes to run contrability of the planet, using speed to elude the Directorate patrol craft.

The only major produce of Archenar VI is spice, a valuable organic substance found bubbling to the surface of the desert sands. Spice is an integral component of agathics, PSI drugs, and universal antidotes and antigens. It is also addictive over time. Cost = CR 2500/kg, with 20.d100kg lots available for sale in the polar settlements at any given time, and 2d10 kg lots in the desert seitches. Reslae can bring a sure 10.d10% profit in any Rich Industrial culture of Tech/9+ level.

In the Freman seitches, a -5.d10% discount is possible because the Fremen are desperate to obtain advanced armamants to fight the Directorate government. The illicit spice trade is therefore very profitable.

Spice crawlers can be purchased on Terra. They are custom-built ultra-heavy CargoTraks of 150t mass and cost CR 1,500,000, with a damage capacity of 50. (All other characteristics as for CargoTraks as per Space Opera, 5.14.) A CargoTrak can harvest spice at a rate of 1d10 kg per hour, separating the spice from the sand as it works. Crew = 20.

Carry-all wings are available to transport spice crawlers. These craft are huge helicopters with 250t lift capacity and have heavy helicopter characteristics, with mass 40t and cost CR 600,000.

Spice is relatively rare. There is a 01% chance per day (cumulative) that a spice deposit will be spotted by air reconnaissance. A deposit will consist of 1.d10 kg \times 1d100.

ARCTURUS VI

StarSystem Coord. 4.FF.+11 Terran Sector GSC 14.JJ.+000
Stellar Primary K2iii giant star

FTL Conversion 35,000 LS Planets in System 15

ARCTURUS VI Type 2 Terran Steppe Planet: 3 moons

Orbital Distance 4500 LS (9.00 A.U.)
Length of Year 54 Terran years
Length of Day 26 hours 14 minutes
Planetary Diameter 13,000 km

Planetary Diameter
Surface Gravity
Temperature Range
13,000 km
1.00 G (dense)
-45°C to 70°C

Atmosphere Type
Terran: 700mm, with O2 at 160mm (normal).
No unusual features except brilliant red sunsets.
Hydrosphere Type
55% = 5 continents and several island chains.

While some regions are arid wastes and deserts, much of the planet is covered by fertile steppes and some forest regions exist, all of which are

well watered. UFP Member Planet

StarNationality UFP Member Planet Sentient Race Human Colonials Population 75,000,000 humans

Tech Level Tech/10+ high-technology culture
StarPort Rating UFP AAAAA Class 1 (Tech/10+ facility)

Social Organization Open Society
Societal Strength 8

Societal Strength 8

Xeno Acceptance 03% in urban areas; 09% in rural areas.

Government Type Republic

Government Support 48% (Vote = 59%)

Loyalty Index 72% (Revolt18% in uncontrollable crisis; also

add +12% to Crisis Index)

Repression Index 09%

Bureaucracy Level Extensive, much red tape

Corruption Index 16% in Bureaucracy; 05% in Police

Law Level 14-15

Economic Rating
Gross Productivity
Per Capita Income
Tax %/Levy

Rich Agricultural
MCR 1,125,000
CR 15,000
30% = MCR 337,500

Tax %/Levy 30% = MCR 337,500
Military Spending 18% = MCR 200,000
Major Events 100 to 1

Major Exports food, textiles, fine wines, luxury crafts
Major Imports misc. equipment, vehicles, aircraft, parts
Trade Restrictions 10% duty on imported agricultural goods

Trade Acceptance 68%

Arcturus VI is a Terraformed planet settled in 2085. It has proven to be very successful as a food-producing planet, with all life forms (plant and animal) introduced from Terra to produce a well balanced ecology. High technology farming and animal raising techniques are used, and high yields are commonplace. Most products are shipped to Terra.

Arcturian society is very Terran in flavor, but a 'Western' style has been adopted to reflect the ranching and farming nature of the planet. Use of weapons against citizens is an execution offense, but common brawling is regarded as manly if one stops short of maiming or killing one's opponent. Hunting is much enjoyed, and virtually every household has a collection of archaic and modern weapons. It has been estimated that the planetary militia, the most popular 'club' on Arcturus, numbers almost 12,000,000 men and women, many of them avid hunters.

A good selection of big game and game bird animals have been introduced into the Arcturian environment. Exotic game preserves also exist, with off-planet animals brought in for specialized hunting. Needless to say, the tourist trade on Arcturus is a big industry, and a host of support industries — hotels, restaurants, gambling casinos, etc., have sprung up to service the tourists.

ASTERION III

StarSystem Coord. Stellar Primary **FTL Conversion** Planets in System

1,CC,+15 Terran Sector GSC 14.JJ,+000

G2v main sequence star

10,000 LS

ASTERION III Type 1 Terran Steppe Planet: 1 moon, 2 moon-

lets

Orbital Distance Length of Year Length of Day Planetary Diameter Surface Gravity Temperature Range Atmosphere Type

495 L\$ (0.99 A,U,) 368 Terran days 23 hours 31 minutes

10,000 km 0.76 G (dense) -60°C to 65°C

Terran: 900mm, with 02 at 200mm; no unusual

features are present.

Hydrosphere Type

40%: 7 land-locked seas and land-locked lakes, but no extensive oceans. Bodies of water are placed so that precipitation patterns rarely result in outright desert conditions. Almost 60% of the land area is in savanna or prairie.

StarNationality UFP Associate Member

Human Colonials/Pithecine Humanoid Sentient Race Population 5,000,000 humans/15,000,000(?) Humanoids Tech Level Tech/9-10 humans/Tech/1-2 Humanoids StarPort Rating UFP StarPort B (Tech/10+ facilities)

Human Colonists

Open Society

Sociological Data Social Organization Societal Strength

15% prejudice Xeno Acceptance **Federation Colony** Government Type Government Support 34% (Vote = 55%) Loyalty Index 64% (Revolt = 36%) Repression Index 26% (anti-Kommanch)

Bureaucracy Level Minimal Corruption Index 17% Law Level 1-5

Economic Rating Rich Agricultural **Gross Productivity** MCR 37,500 CR 7500 Per Capita Income 30% = MCR 11,250 Tax %/Levv

15% = MCR 5625 Military Spending Major Exports food, gold, silver **Major Imports** Misc, equipment, parts

UFP ban on trade with aboriginals except un-Trade Restrictions

der license,

Trade Acceptance Sociological Data

Asterion Kommanch Humanoids

Social Organization Primitive

Societal Strength

Xeno Acceptance 73% prejudice Government Type Tribal 'Anarchy 14% (Vote = 45%) Government Support 39% (Revolt = 61%) Loyalty Index 10% (in tribe) Repression Index

Bureaucracy Level 12% Corruption Index Law Level

Very Poor Agricultural **Economic Rating**

MCR 1875 **Gross Producitivity** Per Capita Income CR 125

Tax %/Levy Military Spending Major Exports furs Major Imports armaments Trade Acceptance 20%

Conditions on Asterion III are similar to those on Terra, but seasons are particularly short, and winter conditions are restricted to the higher latitudes. There are extensive forest regions in the uplands but most of the land area is steppe, savanna, and desert. One of the continents is almost entirely desert, with only a narrow strip of well watered forestland along the eastern coast.

Animal life resembles that of the North American Plains of Terra, with hers of large hooved TarnBison roaming the grasslands. TarnBison are 'A' beasts massing 1200 kg, with 'F' hooves and fast movement. Tarn-Bison range all of the plains, from the high latitudes down to tropical

regions. The tropical and equatorial regions also exhibit lifeforms like those of Terra's African veldt, with most of the herds composed of 'J' and 'l' grazers and intermittent grazers (100 kg to 200 kg), with fast to fleet movement. None of these creatures is dangerous unless stampeded,

The only truly dangerous carnivore is the TarnLeopard, an 'I' feline massing 200-275 kg, armed with 'C' fangs and claws, and fleet of foot. TarnLeopards are individual stalker/ambushers but may readily turn into pack hunters running in groups of 7-12 when the herds are migrating. They are fearless but have sufficient intelligence not to charge modern weapons. Those tawny colored hunting cats are active both during the day and at night. TAken as cubs, TarnLeopards may be raised to become fiercely loyal pets and are used by the colonists as tracking animals and as watchcats. A somewhat larger 'H' (350 kg) variant dwells in the sub-polar and polar regions and is white rather than sandy colored.

The bulk of the population is engaged in ranching domesticated Tarn-Bison or in growing grain crops in the rich, black soild of the plains. There is also a small trapping industry operating in the mountains, and the high latitudes. Although friendly toward human off-worlders, the colonials evidence a considerable xenophobia, no doubt the result of their long battle with the savage Kommanch natives, who raid their ranches and farms.



The Kommanch are Tech/1-2 Baboon-like Pithecines organized into tribal groups of 500-5000, much along the lines of the North American Plains Indians. The Kommanch are very warlike, prizing the warrior virtues. Kommanch are typically mounted on the Theera, the Asterion version of the Terran horse. The Theera is a 700 kg 'D' beast with 'F' hooves and is fleet of foot, with excellent endurance. Thus, the Kommanch natives have considerable mobility and are hard to contain when they break out of the Reserved Zones administered by the Contact Service, Contact Service personnel are largely recruited from Terran ethnic groups (Amerind) with similar customs and traditions, but they are continually overworked as they attempt to keep the Kommanch peaceful and to prevent mass genocide by the embittered colonists, (Almost 60% of the colonists believe that the only good Kommanch is a dead Kommanch.)

ATEN IV

StarSystem Coord. Stellar Primary FTL Conversion Planets in System

2.FF.+00 Terran Sector GSC 14.JJ.+000 FOv main sequence star 10,000 LS

ATEN IV Type 1 Terran Ocean Planet: 4 moons

Orbital Distance 300 LS (0.60 A.U.)

Length of Year 196 days

Length of Day 25 hours 05 minutes
Planetary Diameter 15,000 km

Surface Gravity 1.15 G (dense)
Temperature Range -20°C to 55°C

Atmosphere Type Terran: 2800mm (high), with 02 at 550mm (very rich), Humidity levels are high, with

heavy precipitation.

Hydrosphere Type 93% = 4 small continents and innumerable is-

lands and island archepelagoes.

StarNationality UFP Affiliate: Indpendent Planet

Sentient Race Canine

Population 250,000,000 Canines

Tech Level Tech/8-9

StarPort Rating Aten StarPort AAAAA Class 1 (Tech/9)

Social Organization Open Society

Societal Strength
Xeno Acceptance
Government Type
Government Support
Loyalty Index
Repression Index

5

Covernment Type
Republic
30% (Vote = 74%)
88% (Revolt = 04%)
7%

Repression Index 07%
Bureaucracy Level Moderate
Corruption Level 01%
Law Level 6-9
Economic Rating Very Rich

Economic Rating
Gross Productivity
Per Capita Income
Tax %/Levy

Very Rich Industrial
MCR 2,500,000
CR 10,000
30% = MCR 750,000

1ax %/Levy 30% = MCH /50,000
Military Spending 20% = MCR 500,000

Major Exports vehicles, mech. parts, armaments, general tools Major Imports petrochemicals, industrial metals, food, wines

Trade Restrictions Free Trade Policy

Trade Acceptance 57%

Aten IV provides a bit of a mystery, in that the Canine population is clearly not native to the planet, and yet there is no trace of their off-world origins in their history or in any other Canine planet's history known to the Federation. That these wolfish bipeds have fully adjusted to an aquatic environment is equally surprising. The Atenai are superb sailors, fishermen, and swimmers, and have developed marine technology to high levels. Since they opened contact with the Terran Union in 2288, they have evolved a heavily industrialized economy.

The Atenai are suspicious of strangers, but once they have determined to become friends, their hospitality and warmth are unparalleled in the Terran Sector. They have a special preference for Terran UFP personnel because they value honesty and uprightness of character and perceive that UFP personnel also share in that attitude. For that reason alone the highly independent Atenai have concluded a Treaty of Mutual Defense and Friendship with the Terran Union and the UFP.

Aten is relatively peaceful as a world, with few dangerous creatures other than the shark-like Fassnati, carnivorous fish which can be found in most of the oceans and seas of the planet. Conditions are generally very similar to tropical island paradises on Terra. At the same time, The Atenai themselves are very fierce and seem to enjoy war, possibly a genetic inheritance from their wolfish ancestors.

ATTAR III =

StarSystem Coord.
Stellar Primary
FTL Conversion
Planets in System
ATTAR III
Orbital Distance
Length of Year
Length of Day
Planetary Diameter
Surface Gravity

Temperature Range

Atomsphere Type

1.EE,-25 Terran Sector GSC 14.JJ.+000 K2v/K3v binary main sequence stars

10,000 LS

9

Type MS.2 Terran 'No Season' Planet: 0 moons

385 LS (0.77 A.U.)

210 days

23 hours 12 minutes

20,000 km

1,25 G (moderate density)

-50°C to 70°C

Terran: 2000mm (high), with 02 at 200mm (slightly high). Atmospheric contaminants are present.

Hydrosphere Type

56% = 4 continents, with many landlocked seas and large lakes. Rather dry conditions along

the equator.

StarNationality UFP Affiliate: Independent Planet

Sentient Race Humanoid
Population 500,000,000
Tech Level Tech/7

StarPort Rating UFP StarPort AAAAA Class 1 (Tech/10+ fac.)
Social Organization Police-State Dictatorships (former Open Soc.

Societal Strength 6 Xeno Acceptance 15%

Government Type Multi-Government
Government Support 12% (Vote = 50%)
Loyalty Index 55% (Revolt = 40%)

Repression Index 25%

Bureaucracy Level Moderate to High

Corruption Level 15%
Law Level 6-9
Economic Rating Average Agricultural

Gross Productivity MCR 1,750,000
Per Capita Income CR 3500
Tax %/Levy 30% = MCR 525,000

Tax %/Levy 30% = MCR 525,000 Military Spending 15% = MCR 262,500

Major Exports food, petrochemicals, industrial metals
Major Imports high-tech products

Trade Restrictions Free Trade Policy

Trade Acceptance 55%

Attar III is a planet about the same level of political and technological development as Terra was in its first days of space travel. The Attarians are equally divided into three superpoers, one of which is communistic, a second fascistic, and a third democratic-capitalistic. All three nations have thermonuclear weapons and an implacable hatred of each other. Contact Service personnel have defused the nukes with secret Xenon installations at the planetary poles, but conventional war threatens to break out yearly (loss of Vote = War on rolling at or under Revolt index level). Political loyalties in each nation are not overly enthusiastic, but fear of the pervasive security organizations prevents open resistance to the governments.

All governments are eager to trade with off-worlders and will accept any high-technology products which might give them a military advantage. However, while there is a free-trade policy on Attar III, UFP regulations forbit the importation of armaments above Tech/7 level. Since up to 200% premiums will be paid for advanced weapon systems by the Attarians, gun running is becoming a serious problem, and IPA patrols have been stepped up in the StarSystem. (Premium = +10.d20% above sale price for the smuggled arms.)

AVATAR III -

StarSystem Coord. 1.JJ.+00 Terran Sector GSC 14.JJ.+000

Stellar Primary G2v main sequence star

FTL Conversion 10,000 LS

Planets in System

AVATAR III Type 13.8 Jungle Planet: 2 moons

Orbital Distance 300 LS (0.60 A.U.)

Length of Year 174 days
Length of Day 30 hours
Planetary Diameter 25,000 km
Surface Gravity 2.50 G (very dense)
Temperature Range 30°C to 80°C

Atmosphere Type Terran: 3500mm, with 02 at 400mm, Con-

centrations of exotic gases may be encountered

in some areas.

Hydrosphere Type 78% = 6 continents and many island arche-

pelagoes. Tropical storms and hurricanes are

common.

StarNationality UFP Protectorate

Sentient Race Human Colonials/MekPurr Colonials/Native

AvatarFeline

Population 1,000,000 human/1,500,000 MekPurrs/15 mil-

lion Meks

Tech Level Tech/10+ Human/MekPurr

StarPort Rating UFP StarPort C Class 3 (minimal Tech/10 fac.)

Social Organization Open Society

Societal Strength 9
Xeno Acceptance 04%

Government Type

Republic

Government Support 31% (Vote = 78%) 78% (Revolt = 03%) Loyalty Index 02%

Repression Index

Moderate, efficient Bureaucracy Level

Corruption Level 02% Law Level Economic Rating

1-5 Very Rich Agricultural

MCR 150,000

Gross Productivity MekPurr = CR 10,000, Colonial = CR 60,000 Per Capita Income

30% = MCR 45,000 Tax %/Levy 20% = MCR 30,000 Military Spending

Major Exports luxury foods, wines, petrochemical, gems, gold

Major Imports parts, vehicles, misc. equipment

Free Trade Policy Trade Restrictions

Trade Acceptance 48%

Avatar III is a very hot Jungle Planet with conditions approximating those of the Terran Amazon Basin prevailing over most of the planetary surface. The equatorial regions are so hot and humid that personnel must wear protective tropical gear at all times to prevent heat prostration, while some of the insect-born fevers can incapacitate a man for weeks unless regular dosages of XAB Xeno-Antibiotics are administered. The animal life is startlingly similar to Terran jungle life, even to its appearance, and xenobiologists have discovered that it is of Terran stock! How this came to pass is a mystery.

The most dangerous life form is the Feline Avatar, a very powerful and highly intelligent (often psionic at level 1) being which has an almost supernatural ability to evade detection and capture. The Avatars clearly resent the human colonials and their plantations, and terrible raids are sometimes made by them against outlying farms and residences. Contact Service personnel have been powerless to stop the Avatar outrages. Recently, a wave of MekPurr colonists from Baast have arrived in response to a human colonial offer, and many humans and MekPurrs have gone into partnership, greatly boosting production with the extensive use of robotic and cybernetic equipment. The MekPurrs quickly became the target of the Avatar hatred of gadgets, and the MekPurrs have responded with their customary efficiency and ruthlessness, bringing in almost 2,000,000 War Robots to patrol their plantations and to hunt down marauding Avatars, When the Contact Service attempted to enforce the mandate of the UFP protectorate to stop the clearly genocidal intentions of the colonials, the MekPurr of Baast warned of dire consequences if the right of their people to defend themselves were interfered with by a UFP agency. This crisis continues to simmer unresolved.

10,000 LS

550 LS (1,10 A,U.)

21 hours 56 minutes

UFP Member Planet

MekPurr Feline

10+ facilities)

Open Society

03%

1.16 Terran years

Type 1 Terran Standard Planet: 3 moons

Terran: 1800mm (dense), with 02 at 225mm

(high). Climate is congenial, but storms are

72% = 8 small continents and several very large

MekPurr StarPort AAAAA x 5 Class 1 (Tech/

islands, with a number of island chains.

50,000,000 MekPurrs/1,000,000,000 Meks

7

BAAST III

2.DD.-30 Terran Sector GSC 14.JJ.+000 StarSystem Coord. Stellar Primary G1v main sequence star

FTL Conversion Planets in System

BAAST III

Orbital Distance Length of Year Length of Day Planetary Diameter

Surface Gravity Temperature Range

11.000 km 0.84 G (dense) -90°C to 65°C

Atmosphere Type

Hydrosphere Type

StarNationality Sentient Race Population

Tech Level StarPort Rating

Social Organization

Societal Strength Xeno Acceptance

Government Type Government Support Loyalty Index Repression Index

MekPurr Feudal Aristocracy 60% (Vote = 69%) 90% (Revolt = 02%) 02%

Bureaucracy Level

Major Imports

Moderate, devastatingly efficient Law Level 1-5 **Economic Rating** Incredibly Rich Automated Industrial

MCR 20,000,000 **Gross Productivity** Per Capita Income

CR 20,000/Mek = CR 400,000/MekPurr 50% = MCR 10,000,000 Tax %/Levy

Military Spending 40% = MCR 8,000,000 starships, parts, Tech/10 computers, robotic Major Exports

> equipment power metals, industrial metals, food, wines,

luxuries

Free Trade Policy Trade Restrictions

Trade Acceptance 60%

Baast III is a major center of MekPurr power in the Terran Sector. It is one of the most highly automated and wealthiest societies in the region, with a per capita income of almost CR 400,000 per MekPurr on the planet. Fully 40% of the considerable productive capacity of the planet is devotedato armaments, and the Baast squadrons of the Star-Fleet are renowned for the power of their warships. It is rumored that the Combat Robot strength of the Baast BattleForces is 10,000,000 (500,000 platoons) and over 250,000 armored vehicles. Few Star-Nations are more prepared for war.

The average education of a MekPurr of Baast is equivalent to that enjoyed by only 01% of most advanced planets populations. They typically are highly qualified scientists, computer techs, etc. Baast standards of living are unbelievably sumptuous and hedonistic by anyone else's standards, as might be expected. Society is organized on traditional feudal clan lines, with each pride led by a proven leader of good lineage. However, Baast government itself is democratic in that each pride has a voting delegate in the Council of Lords, For all intents and purposes, the result is a remarkably open society, with only manners and social status being prescribed by tradition. However, any Mek-Purr with merit and manners can be assured of advancement to his natural limits within the pride.

While evidencing very low xeno-prejudice levels, the MekPurrs are slow to make friends, as friendship involves commitments of a very involved and very total nature. At the same time, MekPurrs are quick to take offence at a slight or insult, never forget such an injury, and never, never forgive it.

COLUMN TO A STREET

20,000 LS (40 A.U.)

31 hours 20 minutes

50.6 Terran years

50,000 LS

11

CANOPUS V

StarSystem Coord. Stellar Primary FTL Conversion Planets in System

CANOPUS V Orbital Distance

Length of Year Length of Day Surface Gravity

Planetary Diameter Temperature Range

Hydrosphere Type

StarNationality

Sentient Race

Population

20,000 km 1.25 G (moderate density)

Atmosphere Type

25°C to 70°C Dense Terran: 1600mm with 02 at 200mm. Humidity levels are uniformly high, and may prove almost stifling at equatorial latitudes. Tropical storms are very severe, with extreme electrical acitivity and very heavy precipitation. 81% = 7 low-lying continents with innumerable islands, all of which are swampy. Seas are shallow and warm, with extensive arms inland.

5.BB,-77 Terran Sector GSC 14.JJ,+000

FO ib-ii variable supergiant star

Type VS.7 Jungle Planet: 1 moon

UFP Affiliate: Indpendent Colony Human Colonials/remnants of 'Bug' and Klac-

kon nests 15,000,000 humans; others unknown Tech/8 human; Bug/Klackon about Tech/3-4 Canopan StarPort B Class 2 (Tech/8 facility)

Aristocratic-Corporate Society

25% (60% prejudice against insectoids) Corporate State 15% (Vote = 59%)

38% (Revolt = 62% if major cirisis occurs)

62%

Tech Level StarPort Rating Social Organization Societal Strength Xeno Acceptance Government Type Government Support

Lovalty Index Repression Index Bureaucracy Level

Corruption Index Law Level

Economic Rating **Gross Productivity** Per Capita Income Military Spending

Tax %/Levv Major Exports

Major Imports

Trade Restrictions Trade Acceptance

High, with savage repression of indentured laborers.

20% (institutionalized graft) 1-5 for citizens, but 16-17 for others Exceedingly Rich Agricultural

MCR 240 000 CR 16,000 (laborers = CR 1000-1500)

20% = MCR 48,000 17% = MCR 40.000

Taafun root, Quoropa leaves, food products,

gems

agricultural equipment, vehicles, parts, medi-

cines

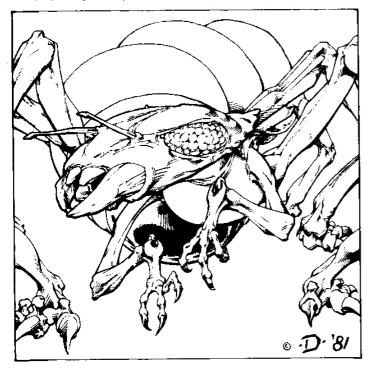
Restricted importation of armaments

20% (Company StarShips carry bulk of cargoes)

Canopus V is a hot, humid Jungle Planet with very lush plant life. The land masses are generally low-lying and poorly drained, resulting in an extensive swamp region on all continents. There are several upland areas which have cool climates similar to those of Terra's Hawaii.

Animal life forms are largely restricted to insectoid and crustacean types, all well protected by chitin or shells from G/G/G to C/C/D armor class. Such creatures may attain 'A' size {2000 kg}, but most are under 'F' size (500 kg), All are armed with fearsome pincers and/or mandibles Life forms in the highlands are small and not especially dangerous, when compared to those of the lowland jungles and swamps. Most are average to fast in speed.

Canopan Mantis: Beast 'A' with D/D/E armor, massing 1000-2000 kg, and fast of movement: a stalker/ambusher armed with terrible 'A' class 'arms' with impaling spikes. Mantis are exceedingly voracious and attack prey on sight. They cannot be readily killed except by a head shot.



Thaaga Ants: Beast 'K' with F/F/G chitin armor, massing up to 50 kg and average in movement; a voracious omnivore dwelling in nests of 500-5000 and typically foraging in groups of 6-25. Thaaga Ants forage for plants and fungi, but will attack any animal forms that look like food.

Saaga: Beast 'l' with G/G/G armor, massing 200 kg and fast in speed; a spider-like insectioid which dwells in trees and snares prey with strands of sticky silk. They have poisonous mandibles which inject poison P-8 or P-13, producing a comatose condition leading to death within 72 hours. These lurkers blend in with the coloration of the foliage and are very hard to spot.

Slough: Beast 'I' with E/E/F armor, massing 150-200 kg and slow in speed on land, but very fast in water; a leech-like armored crustacean found in swampy regions. They attack with 'F' suckers and can drain a man of blood in several minutes. Smaller versions are also encountered,

Many other creatures abound, but the four outlined above are typical of the worst. In addition, there are groups of 'Bugs' and Klackons on the planet, the remnants of colonies which fought each other back to the 'stone age' before the coming of human colonists. The Bugs raid the outlying plantations and also vehicles or boats in isolated regions, Klackon raids are common in regions bordering on seas, lakes, and large rivers. Though a serious nuisance, these snetient savages do not have the technology to pose a grave threat. At the same time, the terrain is so horrendous that only a major campaign could eliminate them. And that is unlikely, for the local government is unwilling to invite a large UFP presence onto the planet,

Canopus V is marked by the repressive nature of its society. Dominated by the rich plantation owners and the trading companies, only about half a million enjoy the franchise. These tend to maintain solidarity in order to keep the huge indentured population in check, but since the coalition government is composed of numerous factions, a chance exists of serious instability in the face of a major crisis.

About 7,000,000 of the population is composed of indentured laborers under long-term contracts at low wages, long hours, and appalling conditions of work. They have largely been recruited from poor colony planets with the promise of opportunity and wealth. The chance of local revolt is high, but there is little unity amongst the workers. Thus, the chance of overthrowing the government is limited. Nevertheless, Canopan authorities take no chances and severely restrict possession and use of modern weapons to citizens, licensed visitors, and 'trustees' among the work force.

Federation authorities are disturbed by the lack of civil rights and fair treatment on Canopus V. An active underground 'slave tradé between Canopus V and other planets is suspected, and this is under investigation by the IPA. For the present, UFP is severely hampered because it has no authority on Canopus V, which is an independent colony.

Taafun root is the main cash crop (CR 2000/ton), a high-protein food which brings +3d6% returns on resale, in addition to usual food bonuses.

Quoropa leaves also grow on Canopus V and ahve been introduced in the last twenty years (see Regulus V for trade details).

CAPELLA V

StarSystem Coord. Stellar Primary **FTL Conversion** Planets in System

CAPELLA V

Orbital Distance Length of Year Length of Day Planetary Diameter

Surface Gravity Temperature Range Atmosphere Type

6.DD,+32 Terran Sector GSC 14,JJ,+000

GBiii giant star 35 000 LS 10

Type 2 Terran 'No Season' Ocean Planet: 5 moons

6000 LS (12.00 A.U.) 10,73 Terran years 29 hours 17 minutes 20,000 km

1.25 G (moderate density)

-15°C to 50°C

Terran: 725mm, with 02 at 175mm (normal). Humidity levels are moderate to high throughout the planet. In the fall season, powerful typhoons sweep the equatorial and tropical regions.

87% = 3 small continents and numerous islands.

Hydrosphere Type StarNationality Sentient Race Population

Tech Level

StarPort Rating

Independent Planet: Former 'Lost Colony' Human Colonial/Humanoid 7,500,000 humans/250,000,000 Capellan hu-

manoids

Tech/9 human/ Tech/8 humanoid UFP StarPort A Class 1 (Tech/10+ facility)

Sociological Data **Human Colonials** Social Organization Open Society Societal Strength Я Xeno Acceptance 05% prejudice Government Type Republic Government Support 28% (Vote = 67%) Loyalty Index 64% (revolt = 08%) 08%

Repression Index Bureaucracy Level Minimal 14% Corruption Index Law Level 1-5

Economic Rating Gross Productivity Per Capita Income Tax %/Levy

Very Rich Agricultural MCR 93,750 CR 12,500 30% = MCR 28,125 15% = MCR 14,000

Military Spending 15% = MCR 14,000
Major Exports food, luxury craft

food, luxury crafts, textiles, gems, petro-

chemicals

Major Imports parts, volume Trade Restrictions Free Trade Acceptance 45%

parts, vehicles, aircraft, misc. equipment Free Trade Policy 45% Capellan Humanolds

Sociological Data Social Organization Societal Strength Xeno Acceptance Government Type Government Support

Aristocratic
5
12% prejudice
Feudal
21% (vote = 55%)
55% (revolt = 25%)
26%

Loyalty Index Repression Index Bureaucracy Level Corruption Index Law Level

Non-existent 15% 1-5

Economic Rating Gross Productivity Per Capita Income Tax %/Levy Military Spending Poor Agricultural MCR 250,000 CR 1000 30% = MCR 75,00

30% = MCR 75,000 20% = MCR 50,000

Capella V was settled by a small colonial party of 5000 in 2081, but the colonizing vessel was lost on its return journey and the entire group was presumed lost. When the colony was next visited in 2152, it was found that the human colonials had struck a close bargain with the native Capellans (humanoids who closely resemble Terran orientals but are an average of two meters tall). The Capellan aristocracy was not desirous of joining the Terran Union or the Federation, as their practice of limiting the rights of their subjects is contrary to UFP policy. In effect, almost 28% of the population lives in virtual slavery, and another 50% enjoys only limited rights. Local revolts are common, but since full citizens are well armed, the rebels usually receive the worst possible fate. (It is a death offence for the N'Garka or 'Servants' to possess anything better than a Tech/3 weapon.)

Capellan N'Garka are known to have been 'sold into indentured servitude on such planets as Canopus V. This 'slave trade' has been denounced by the UFP Assembly, and severe penalties have been set for UFP citizens engaged in the trade.

There are no dangerous life forms on Capella V, all of them being effectively eliminated on land before the human population even arrived. Several fish-like carnivores approach the size of small sharks, but these are only a minimal menace. Thus, Capella, with its mild seasons, is a very congenial environment.

CASTOR III

StarSystem Coord, Stellar Primary FTL Conversion Planets in System CASTOR III Orbital Distance Length of Year Length of Day Planetary Diameter Surface Gravity

Temperature Range

Atmosphere Type

5.DD.+23 Terran Sector GSC 14.JJ.+000 A1v/A5v binary main sequence stars

10,000 LS

Type MS, 10 Ice Planet: 1 moon

3750 LS (7.50 A.U.) 6.50 Terran years 26 hours 20 minutes

11,000 km 0,85 G (dense) -90°C to 30°C

Terran: 850mm, with 02 at 200mm; very severe storms throughout winter period, which lasts up to 2.25 Terran years in high latitudes

Hydrosphere Type 77%

77% = 5 continents and several archepelagoes. Over half of the land surface is under vast ice caps, and 35% of the seas are permanently frozen.

UFP Colony

StarNationality Sentient Race

Human Colonials: former 'Lost Colony'/Feline

Avatars

Population 1,000,000 humans/5,000,000(?) Avatars Tech Level Tech/9 human/Tech/3 Avatar

StarPort Rating UFP StarPort B Class 2 (Tech/10+ facility)
Sociological Data Human Colonials

Social Organization Open Society
Societal Strength 6

Xeno Acceptance 18% prejudice
Government Type Republic
Government Support 47% (vote = 75%)
Loyalty Index 82% (revolt = 08%)

Repression Index 09%

Bureaucracy Level Moderately Light Corruption Level 10%

Law Level 1-5

Economic Rating Extremely Rich Industrial Gross Productivity MCR 31.500

Gross Productivity
Per Capita Income
Tax %/Levy
Military Spending
MCR 31,500
CR 31,500
30% = MCR 9450
16% = MCR 9450

Major Exports rich furs, gold, silver, platinum, irridium parts, misc. equipment, food, liquor

Trade Restrictions 10% import duty

Trade Acceptance 44%

Sociological Data Castoran Avatars
Social Organization Primitive

Societal Strength

Xeno Acceptance 45% prejudice

Government Type ?
Government Support ?
Loyalty Index ?
Repression Index ?
Bureaucracy Level ?
Corruption Level 10%
Law Level 1-5

Economic Rating
Gross Productivity
Per Capita Income
Poor Agricultural
MCR 3750
CR 750 (est.)

Tax %/Levy --Military Spending --

Castor III is a typical Terran Ice Planet, with all regions subject to wintery conditions for at least part of the long 6.50 'year' period of revolution around the primary. Only the equatorial region enjoys a condition approaching 'summer', with frost-free weather for about 4.50 Terran years. Plant life has evolved into unusual types which continue to grow until temperatures attain -50°C, utilizing chemical compounds which keep tissue fluids in a liquid state (much like anti-freeze) and which unlock nutrients in the soil as the burrowing root tendrils slowly move in even frozen soil to gather essential minerals and water.

The animal life is starkly ferocious, but most are under 'K' size (50 kg) and have teeth suited more to nibbling plants than to killing (teeth are 'F' and 'G' weapons). All are average to fast in speed.

The deadliest native life form is an Avatar Feline, the Caatah. It is fast in movement but otherwise resembles a feline biped. In most areas, the Caatah rarely attain above Tech/3 levels of expertise and understanding, but they have an unholy capacity to comprehend anything that can act as a weapon and have been known to strip down, troubleshoot, repair, and fire with expert marksmanship a Mk. XX Blast*75 energy cannon after only a short explanation of the systems. Anything except a weapon system or 'useful' survival equipment is typically regarded as 'junk' by these independent 'savages' with IQ's bordering on genius levels.

Fortunately for the human miners of Castor III, the Caatah do not regard humans as food or as sporting game. Rather, they appear to adopt prospectors and fur hunters as almost beloved pets, and form close partnerships with them. In 2358, with a sudden invasion by the Azuriach Imperium, the Caatah joined with the human colonials to chew up three elite assault regiments of the Imperial Armored Infantry in a few scant weeks. That lesson has not been lost on others, and the planet has remained at peace ever since. Since there could be as many as 1,000,000 Caatah, the prospect of fighting a million Tech/10 warriors able to use any armaments that come to hand is a bit more than most would-be conquerors care to face for a mere "iceball in space".

CAPH III

StarSystem Coord. 7.EE,+39 Terran Sector GSC 14.JJ,+000

Stellar Primary F2iv subgiant star **FTL Conversion** 20,000 LS Planets in System 12

CAPH III Type 5 Terran No Seasons Planet: ringed 2700 LS (5.40 A.U.)

Orbital Distance Length of Year 4.58 Terran years Length of Day 25 hours 25 minutes Planetary Diameter 20,000 km Surface Gravity 1.50 G (dense)

-85°C to 60°C (higher temperatures in flare Temperature Range

period

Terran: 2000mm, with 02 at 500mm (high). Atmosphere Type

Radiation levels at RAD/1-2 in flare periods (05% chance/month)

Hydrosphere Type 80% = 5 large continents, 4 sub-continents, many islands. Rather high humidity and heavy

precipitation.

StarNationality **UFP Member Planet** Transhuman Sentient Race

250,000,000 transhumans Population

Tech Level Tech/10+

StarPort Rating UFP StarPort AAAAA x3 Class 1 (Tech/10+)

Social Organization Open Society 10

Societal Strength 01% Xeno Acceptance Government Type

Athenian Democracy Government Support 40% (vote = 65%) Loyalty Index 99% (revolt = 00%)

Repression Index 00% Minimal **Bureaucracy Level** Corruption Level 00% 6-9 Law Level

Economic Rating Exceedingly Rich Industrial

MCR 25,000,000 **Gross Productivity** Per Capita Income CR 100,000 Tax %/Levy 30% = MCR 7,500,000 20% = MCR 5,000,000 Military Spending

high-tech parts, vehicles, aircraft, starships Major Exports

Major Imports industrial metals, chemicals, petrochemicals,

food

Trade Restrictions Free Trade Policy

Trade Acceptance 75%

The Transhumans of Caph III are clearly not native to the planet. Their history extends back some 23,000 years, including a long period of barbarism after they lost contact with the hated Starkaad who imprisoned them there for rebellion against a might StarEmpire as yet not encountered by the Federation. The Caphari are almost identical to humans and may intermarry, although there are subtle differences in facial features which betray their non-human status - especially their golden, cat-like eyes. Intellectually, the race is vastly superior to most, and a significant minority have psionic talents, usually level 1, but some are high level adepts. They are a brutally unemotional race, valuing logic and learning over 'animal sentiment', although they do respect such human feelings as compassion.

Conditions on Caph III are highly dangerous to even the Caphari, who dwell in underground city complexes to avoid the worst effects of the RAD/1-2 solar storms that sweep the planet. There is no animal life on Caph, other than in zoos, but plants of a particularly hardy and radiation-resistant nature fluorish in many regions. A number of these are used in the manufacture of Anti-Rad drugs,

The Caphari are among the most expert and efficient technologists in the Terran Sector, and their automated factories are surpassed only by those of the MekPurr, Although most earn CR 50,000 per year or more. Caphari tend toward a severely ascetic life, devoting most of their wealth to learning and research. In time of war, fully 75% of the planet's total production (MCR 18,750,000) is diverted to the war effort of the UFP, and the armed forces of the Caphari are superbly equipped and trained.

COBRA II

6,CC,--10 Terran Sector GSC 14.JJ.+000 StarSystem Coord, Stellar Primary k4v/k4v binary main sequence stars

ETT Conversion 10,000 LS

Planets in System

COBRA II Type 2 Terran No Seasons Planet: 1 moon

Orbatal Distance 315 L\$ (0,63 A.U.) Length of Year 150 days 32 hours 43 minutes Length of Day Planetary Diameter 20,000 km

Surface Gravity 1.50 G (dense) -25°C to 65°C Temperature Range

Atmosphere Type Terran: 2500mm, with 02 at 400mm, Moderate

weather, but tropical storms are very sudden

and savage.

43% = Steppe Planet conditions, with land-Hydrosphere Type

locked seas and lakes. MOderate to low humidity and precipitation.

Independent Hisss ist Planet StarNationality

Sentient Race Reptilian Hissss ist 20,000,000,000 Population Tech Level Tech/8

Cobra StarPort AAAAA x 2 Class 1 (Tech/8) StarPort Rating

Social Organization Military Dictatorship: Caste System

Societal Strength

75% prejudice Xeno Acceptance Government Type Military Junta 19% (vote = 55%) Government Support 68% (revolt = 27%) Lovalty Index

40% Repression Index

Bureaucracy Level Extremely High, with much red tape

Corruption Level 20% Law Level 18

Economic Rating Poor Industrial **Gross Productivity** MCR 60,000,000

CR 3000 Per Capita Income Tax %/Levy 40% = MCR 24,000,000

Military Spending 35% = MCR 21,000,000

Major Exports gold, silver, platinum, irridium, gems

Major Imports food, raw resources, advanced tech goods and

arms

'Friends of the Hissss'ist' Trade Restrictions

Trade Acceptance 100%

Little is known about Cobra II, other than that it is one of the three Hissss ist centers of power remaining in the Terran StarSector, There has been a significant build-up of Hissss'ist military forces of late, and BRINT strategic appreciations of the situation all suggest that the reptilians may intend another Land Grab like that of 2309-2338, which required almost 75 years of continual operations of the Star-Forces of the old Terran Union to reverse.

As in the case of all Hissss'ist planets, the Federation takes a very dimview of trade or any other form of contact by Federation citizens. The eternal hostility of the Hiss is well known, However, a growing number of renegades have sealed agreements with the Hiss to smuggle in preferred goods (high tech items at +10d10% premiums on usual sale prices) and vital raw resources and food. The Hissss'ist have chronic overpopulation problems and will pay very high prices for essential materials. The IPA and the Federation StarFleet maintain a close watch on suspected 'Friends of the Hissss iss,' for it has been learned that space pirates are fencing a good portion of their hijacked goods on Cobra 11 and other Hiss planets,

DARDANUS I

StarSystem Coord. Stellar Primary **FTL Conversion** Planets in System DARDANUS I Orbital Distance Length of Year Length of Day Planetary Diameter

Surface Gravity

Temperature Range

Atmosphere Type

1.AA.+20 Terran Sector GSC 14.JJ.+000

MOv main sequence star

10,000 LS

Type 14 Terran Ice Planet: 1 moonlet

185 LS (o.37 A.U.)

101 days

30 hours 27 minutes

12,000 km 0.92 G (dense)

-100°C to 20°C

Terran: 700mm, with 02 at 150mm, Violent snow storms are common in most regions, with high winds and driving snow (minimal visibility) at height of storm. Very severe polar conditions prevail over most of the planet, except for the

equatorial zone.

Hydrosphere Type

70% = virtually all seas and oceans are icecovered for at least part of the year, while massive ice caps cover 90% of the land surface.

StarNationality **UFP Colony**

Sentient Race **Population**

Human Colonials (Terran and Lost Colony) 250,000 Terran humans/750,000 Lost Colony humans

Tech Level

Tech/10 Terran humans/Tech/5 others UFP StarPort C Class 3 (Tech/10 facility) StarPort Rating

Sociological Data Terran Human Colonists

Social Organization Open Society

Societal Strength

Xeno Acceptance 06% prejudice Government Type Republic Government Support 40% (vote = 65%) 90% (revolt = 01%)

Lovalty Index Repression Index 03%

Moderate, efficient Bureaucracy Level

Corruption Index 05% Law Level 1-5

Exceedingly Rich Industrial Economic Rating

MCR 8750 **Gross Productivity** CR 35,000 Per Capita Income 30% = MCR 2625 Tax %/Levv Military Spending 15% = MCR 1312.5 Major Exports gold, plątinum, gems Major Imports parts, misc. equipment

Trade Restrictions Free Trade Policy, but no arms to Lost Colony

Trade Acceptance 55%

Sociological Data **Lost Colony Society**

Social Organization Anarchy Societal Strength

20% prejudice Xeno Acceptance Tribal Anarchy Government Type 18% (vote = 55%) Government Support 55% (revolt = 45%) Lovalty Index

Repression Index 30% Bureaucracy Level 15% Corruption Index Law Level 1-5

Poor Agricultural Economic Rating MCR 375 **Gross Productivity** CR 500

Per Capita Income Tax %/Levy Military Spending Major Exports furs Major Imports food, liquor Trade Acceptance 25%

The original colonists of Dardanus I embarked from Terra in 2072, hoping never to see or hear from Terra again. However, in 2358, Dardanus was rediscovered by units of the StarFleet. The human colonists had sunk to Tech/1 savagery, and the planet was declared a Protectorate of the Terran Union. Terran colonists arrived over the next century to found a very efficient and prosperous mining industry, but for a long time they and the Contact Service were unable to do much to win over the religious fanatics of the Lost Colony. Only in the last 50 years has there been much success, and now many of the Lost Colony settlements have attained Tech/5 levels. However, they retain tribal government and social patterns, bitterly resisting any attempts to integrate them with the advanced culture or with other tribes.

The Terran colonists have to endure continual feuding and bickering among the Lost Colonials (known locally as Crazies) over obscure points of an unbelievably silly religion involving the use of psychedelic drugs and orgiastic ceremonies. At least one shooting incident occurs per month, precipitating a short, savage bloodbath between several of the tribes. Fortunately, after one serious incident which carried a blood feud into the mining center of Timmons, the resulting punitive expedition of the Terran miners into the territories of both the feuding tribes gave everyone an object lesson they could not forget. The feuds are now kept strictly outside the towns.

Recently, a man calling himself the Prophet has emerged as a unifying force among some of the more distant tribes. He preaches a Holy War against the unbelievers, and it is becoming feared that if he unites the tribes (a growing possibility), the fanatics would then turn on the mining colonies.

Conditions on Dardanus are very similar to those in the northern regions of North America on Terra. Most of the planet is either buried under ice caps, or else is open tundra plains or taiga forest. Animals tend to be good furbearers, but there are few predators other than a kind of wolf-like pack creature which avoids contact with humans. The Lost Colony tribes have adopted survival patterns similar to those of the Arctic Eskimos, complete with igloos and dogsleds, although the higher levels of technology recently available have seen some mechanization and an improvement of housing,

DENEBOLA V .

StarSystem Coord. Stellar Primary **FTL Conversion** Planets in System DENEBOLA V Orbital Distance Length of Year Length of Day Planetary Diameter Surface Gravity Temperature Range Atmosphere Type

3.EE,+11 Terran Sector GSC 14.JJ,+000 A3v main sequence star

10,000 LS

Type 13,7 Terran Desert Planet: 1 small moon

1875 LS (3.75 A.U.)

2.65 Terran

28 hours 40 minutes 15,000 km

1.15 G (dense)

30°C to 80°C (minus 10-25°C at night)

Terran: 850mm, with 02 at 200mm (slightly rich). High silica dust content and very low humidity require use of filters. Sandstorms are common in the deep deserts and may be very

Tech/10 human; Tech/3-4 Teskanni

powerful.

Extreme desert conditions, with 02% standing Hydrosphere Rating

water found at the polar oases. Precipitation is non-existent, but subterranean deposits of

water exist. StarNationality **UFP Member Planet** Human Colonials/Humanoid Teskanni Nomads Sentient Race Population 10,000,000 humans/15,000,000(?) Teskanni

44% (vote - 71%)

Very Rich Agricultural

UFP StarPort A Class 1 (Tech/10 facility) StarPort Rating Sociological Data **Human Colonials** Open Society Social Organization Societal Strength 6 10% prejudice Xeno Acceptance Republic

Tech Level

Government Type Government Support 82% (revolt = 03%) Loyalty Index

Repression Index Bureaucracy Level Corruption Index Law Level

Economic Rating Gorss Productivity Per Capita Income Tax %/Levy Military Spending Major Exports

Trade Restrictions

MCR 125,000 CR 12,500

30% = MCR 37,500 20% = MCR 25,000 food, gems, gold, silver parts, vehicles, arms Major Imports

40%

09%

1.5

Moderate

UFP ban on armaments trade with Teskanni

Trade Acceptance 60% Sociological Data Social Organization Societal Strength

Teskanni Nomads Primitive Tribal

Xeno Acceptance Government Type

65% prejudice Tribal Anarchy

Government Support

Loyalty Index

? Repression Index **Bureaucracy Level** 20% Corruption Index Law Level

Economic Rating **Gross Productivity** Per Capita Income

Tax %/Levv Military Spending

Major Exports Major Imports Trade Acceptance ? (revolt = 15%)

1-5 Poor Agricultural

MCR 13,125 CR 875

gold, silver general tools

10%

Denebola V contains a dangerous desert environment, requiring personnel to wear StillSuits and filter equipment outside of sealed shelters. The high dust content of the atmosphere can prove damaging to hovercraft and other air-breathing vehicles. Although the atmosphere is breathable and contains adequate oxygen, sealed alien environments vehicles and grav sleds are best suited to the planetary conditions.

There are few native life forms dangerous to humans. The harsh desert environment has militated to direct evolution into small, adapted types for the most part. All are burrowing creatures, and most tend to be nocturnal. However, several are very efficient carnivores:

Denebolan Dragon: 'H' beast massing about 300 kg with A fangs and digging claws and fast in movement. The Dragons of Denebola are 5m reptilians vaguely resembling crocodiles of Terra. They are voracious omnivores but can exhibit classic stalker/ambusher behavior when animal or human prey is available. They have claws capable of penetrating +3 armor (add +2 DM to weapon attacks), normally used to dig out roots and small prey, but also employed in combat with devastating efficiency. The D/D/F leathery hides of the creature also provide superb protection from many weapons. Only a solid head hit can destroy these tenacious life forms outright, all other parts of the body being relatively unaffected by wounds. Wounded Dragons are the most dangerous of all, for they will not rest until the assailant before them is dead.

Denebolan Thraaka: 'I' beast resembling a feline stalker/ambusher, with B fangs and claws and fleet movement. Thraaka are carnovorous, but occasionally graze on plants (it is suspected, to obtain water rather than nourishment). The creatures have tough F/F/H hides and cannot be readily dispatched unless a critical head or chest shot is made. Their tawny coats blend in perfectly with the terrain and they rarely are detected until they begin their rush.

Din Arrka: K beast with F weapons and slow movement. Din Arrka rarely attain more than 40 kg mass and seldom attack anything, for they are burrowing grazers. However, they can prove fierce when their burrows and tunnel complexes are invaded and they are brought to bay. Din'Arrka are particular nuisances because they raid crops at night and can do considerable damage. Some have been known to eat

The standard riding animal of Denebola is the Bá Nathat, a D beast typically massing 700-750 kg, with E weapons and fast movement. The creatures are intermittent grazers and can go for long periods without water. Their endurance and capacity to withstand the harshest desert conditions is legendary. Bá Nathat are also burrowing creatures, despite their considerable size, but will tend to be found living in caves when such are present in the region. They resemble the wooly musk-ox of the Terran high Arctic, but their pelts are of limited value.

All Denebolan animals have an uncanny capacity to detect water at very great distances. Personnel riding Bá Nathat, for instance, can trust their mounts to proceed to water with almost unerring accuracy.

There is a surprising amount of plant life on Denebola, despite the arid conditions. Most are covered by very thick layers of tough fibers (from I/I/J to C/C/D armor class) and are protected by dense thorns or other

features which dissuade grazers from nibbling at them. Those which are greenish-brown in color may be marginally edible, but a deep blue-grey color signifies plants which are definitely poisonous. Many contain a sack of milky fluid inside, which can be used for water in an emergency, though there is a 15% chance of intestinal cramps and severe stomach upset whenever such a drink is taken.

The human population of Denebola is engaged largely in farming, as there are deep deposits of water which may be tapped by artesian wells. Terran crops are grown hydroponically, in sealed shelters, and produce large amounts of food quickly in the intense sunlight, However, Denebolan animals do burrow into the shelters and can be most destructive. Also, a number of native plants prove to be excellent food producers and have been cultivated - notably the Verda plant, a cactus-like growth which provides both high-protein meal when the internal pulp is dried and ground, and strong fibers which are used in the manufac- 3 ture of syntha-leather.

Denebolan farms are fortified against attack and are largely placed underground to insulate against the pervasive heat. Considerable reliance is placed on robotic equipment to augment the limited labor force. Specialists in mechanical and cybernetic maintenance receive a warm welcome and can obtain very high incomes.

The political life of Denebola is rather devoid of major issues. The chief functions of the government are to negotiate satisfactory trade agreements with other planets and to maintain the considerable Fast Reaction Force needed to relieve attacked farms before the hostile Teskanni raiders can sack and burn them.

The Teskanni nomads of Denebola are the biggest problem the human colonists have on the planet. These fierce humanoids occasionally sweep out of the desert wastes to attack and destroy isolated farms, then withdraw at high speed before the Fast Reaction Force can intercept them. The Teskanni are not of high technological development, but they have evolved good StillSuits armored by Thraaka hides (F/F/G protection) and readily learn how to use advanced armaments. Trade with the nomads is discouraged, and gun running is now a capital offense. However, the Teskanni have learned the value of gold and silver. and they painstakingly gather dust and nuggets wherever they can find them to trade for tools and especially weapons.



The mineral wealth of Denebola is only now coming to light, A very rich find of gold and silver, with lesser amounts of platinum and irridium, has been found in the relatively uninhabited equatorial region. precipitating an interstellar gold rush. Some gems have also been found. Industrial metals have been discovered as well, and Trans-Solar Metals is building a major mining and smelter complex to exploit the deposits.

40 ERIDANI II 🛥

StarSystem Coord. Stellar Primary

6.EE.-02 Terran Sector GSC 14.JJ.+000 KOv/MOv/wd triple starsystem: main sequence

stars

FTL Conversion Planets in System 40 ERIDANI II

10,000 LS

Type 14 Terran Thin Atmosphere Planet:

1 moon

Orbital Distance 475 LS (0.95 A.U.) Length of Year 285 days 20 hours 35 minutes Length of Day Planetary Diameter 7000 km (dense) 0.55 G (dense) **Surface Gravity** -100°C to 25°C Temperature Range Atmosphere Type

Thin Terran: 300mm with 02 at 75mm, Breathing apparatus will be required if strenuous exertion or climbing to any altitude above 1500m are contemplated. Atmosphere does not filter UV radiation, so sunburn can occur, and radiation levels rise to RAD/1-3 during intense sunspot activity (12% chance per month,

with duration of 1-6 days)

Hydrosphere Rating

Little surface water, but there are extensive subterranean deposits, often close to surface

StarNationality **UFP Colony Outpost Human Colonials** Sentient Rade 250,000 humans **Population**

Tech/10 Tech Level

UFP StarPort C Class 2 (Tech/10 facility) StarPort Rating

Social Organization Colonial Administration

Societal Strength

09% prejudice Xeno Acceptance

Colonial Governor & Elected Council Government Type

Government Support 60% (vote = 62%) Loyalty Index 74% (revolt = 07%) 02%

Repression Index **Bureaucracy Level** Minimal Corruption Index 06% Law Level 10-13

Exceedingly Rich Industrial (mining) Economic Rating

Grass Productivity MCR 62,500 CR 250,000 Per Capita Income 30% = MCR 18,750 Tax %/Levv Military Spending 24% = MCR 15,000

Major Imports misc. equipment, food, liquor, parts, vehicles Major Exports industrial metals, gold, silver, platinum, and

irridium Trade Restrictions Free Trade Policy

Trade Acceptance 55%

The colony of 40 Eridani was established in 2093 as a mining establishment. The population reached its peak in 2140 and has remained steady ever since. The Forty-EEs, as the colonials call themselves, live in domed settlements and sealed quarters in outlying mining sites. There is no native animal life on the planet, and only rudimentary plants (lichens, mosses, etc.) grow in the warmer regions of the planet.

Life on Forty-EE is wide-open, fully reminiscient of boom-town mining communities of Terra's pioneer days in North America. There is plenty of room to spread out, and the richness of the mineral wealth on the planet offers opportunities for anyone to strike it rich. However, conditions on planet are harsh, and most soon leave after they arrive.

82 ERIDANI III (TYCHE)

StarSystem Coord. Stellar Primary FTL Conversion

6.EE.-14 Terran Sector GSC 14.JJ.+000

G5v main sequence star

10,000 LS Planets in System

80 ERIDANI III Type 1 Terran Standard Planet: 3 moons **Orbital Distance** 415 LS (0.83 A.U.)

Length of Year 296 days

Length of Day 24 hours 08 minutes

Planetary Diameter 11,000 km Surface Gravity 0.84 G (dense) Temperature Range -60°C to 65°C Atmosphere Type

Terran: 750mm, with 02 at 175mm (normal). Weather patterns very similar to those on Terra. Hydrosphere Rating 74% = 6 major continents, 4 sub-continent

sized islands, and several archepelagoes. Precipitation is adequate over most of the planet, with 19% of the surface in arid/desert wastes.

UFP Member Planet

StarNationality Sentient Race Human Colonials/Tychan Canines 10,000,000 humans/150,000,000 Canines **Population** Tech Level Tech/10 humans; Tech/9 Canines StarPort Rating UFP StarPort AAAAA Class 1 (Tech/10)

Sociological Data **Human Colonials** Social Organization Open Society Societal Strength 10 Xeno Acceptance 02%

Government Type Republic Government Support 61% (vote = 65%) Loyalty Index 88% (revolt = 01%) Repression Index 03%

Bureaucracy Level Moderate, efficient Corruption Index 07% 14-15 Law Level Economic Rating Rich Industrial MCR 150,000 **Gross Productivity** Per Capita Income CR 15,000

Tax %/Levy 30% = MCR 45,000 Military Spending 20% = MCR 30,000 Major Imports high-tech parts Major Exports vehicles, aircraft Trade Restrictions Free Trade Policy

Trade Acceptance 60%

Sociological Data **Tychan Canines** Social Organization Open Society Societal Strength

05% Xeno Acceptance

Government Type Planetary Federation Government Support 47% (vote = 61%) 79% (revolt = 02%) Lovalty Index Repression Index 05%

Bureaucracy Level Moderate, efficient Corruption Index 05%

14-15 Law Level Economic Rating

Rich Industrial **Gross Productivity** MCR 1,350,000 Per Capita Income CR 9000

Tax %/Levy 30% = MCR 400,000 Military Spending 20% = MCR 275.000 Major Imports factory equipment Major Exports industrial metals, chemicals

The human colony of 82 Eridani was established in 2080. The Canines of 82 Eridani had already attained Tech/5 culture, and mutually satisfactory relations were opened between the two races from the first. Both have developed into prosperous industrial societies, although there is also a strong agricultural base which provides for all of the food requirements of the planet,

Tychan society is virtually identical to that of Terra.

Through an accident, some Terran plant and animal forms were released into the Tychan environment and proved to be more than a match for the native life. As the ecological imbalance grew, the decision was made to Terraform the planet before the crisis became severe. Terran plants and animals were therefore introduced on a carefully controlled basis, and today the planet appears to be a virtual twin of Terra. There are still some native life forms, but these tend to resemble Terran types and are not readily noticed by the uninitiated.

FORMALHAUT III

StarSystem Coord. Stellar Primary **ETL Conversion** Planets in System

6.FF.-11 Terran Sector GSC 14.JJ.+000

A3v main sequence star

10,000 LS

10

FORMALHAUT III Type 6 Terran Desert Planet: 1 moon

2000 LS (4,00 A.U.) **Orbital Distance** 2.67 Terran years Length of Year 35 hours 30 minutes Length of Day Planetary Diameter 5000 km 0.60 G (very dense) Surface Gravity

-20°C to 75°C Temperature Range Atmosphere Type

Terran: 850mm, with 02 at 175mm (normal). Formalhaut is a hot star, producing high levels of radiation which have a 10% chance per month of flaring to RAD/3. Normal RAD/1 conditions prevail in equatorial and tropical areas in daylight hours. Dust content is normally at acceptable levels, but rises to 2500 mp/m³ in high winds and duststorms (silica content). Respirators and anti-rad clothing are

mandatory.

Hydrosphere Type 15% = several landlocked seas and a number of sizable lakes are found in higher latitudes, but

tropical/equatorial regions are waterless. Humidity levels are normal in higher latitudes but

are very low in desert areas.

StarNationality **UFP Member Planet** Sentient Race **Human Colonials** Population 250,000,000 humans

Tech Level Tech/10 StarPort Rating

UFP StarPort AAAAA x2 Class 1 (Tech/10+)

Social Organization Open Society

Societal Strength Xeno Acceptance 05% Government Type Republic Government Support 43% (vote = 84%) Loyalty Index 95% (revolt = 01%)

Repression Index 01% **Bureaucracy Level** Moderate, efficient

Corruption Level 07% Law Level 6-9

Economic Rating Very Rich Industrial MCR 10,000,000 **Gross Productivity** Per Capita Income CR 40,000

Tax %/Levy 30% = MCR 3,000,000 20% = MCR 2,500,000 Military Spending Major Exports spacecraft, aircraft, vehicles, armaments, metals

Major Imports food, wine, luxuries, petrochemicals, industrial

chemicals

Free Trade Policy Trade Restrictions

Trade Acceptance

Formalhaut is a particularly hostile environment, but the very rich deposits of industrial and precious metals, thorium, and uranium have converted it into a major industrial center of the Federation, Over 250,000,000 humans now reside in the huge underground city complexes, many of them descended from the citizens of Luna and Terra's L-5 cities. Life styles and attitudes are very similar to those in the Solarian System.

There are no lifeforms on Formalhaut. The planet is dead except for the human colonies. The vast deposits of thorium and uranium produce a constant RAD/1 level of radiation, which can swell to RAD/3 during intense solar storms. Evidence exists that the primary star had bathed the planetary surface with as much as RAD/6-7 in the past, Personnel should wear first class radiation-shielded gear and filter respirators at all times.

HATHOR III

StarSystem Coord. 3.GG.+30 Terran Sector GSC 14.JJ.+000 Stellar Primary KOv main sequence star

FTL Conversion 10,000 LS

Planets in System

Hydrosphere Type

Type 1 Terran Steppe Planet: 0 moons HATHOR III

Orbital Distance 308 LS (0.615 A.U.) Length of Year 203 days

28 hours 55 minutes Length of Day

Planetary Diameter 10,000 km Surface Gravity 0.63 G (moderate density)

-35°C to 55°C Temperature Range Atmosphere Type

Terran: 750mm, with 02 at 175mm (normal). Mild climate with very short winter period.

55% = 4 continents and 1 sub-continent: several seas are landlocked. Moderate humidity and

precipitation.

UFP Colony (former Lost Colony) StarNationality

Sentient Race **Human Colonials** Population 500,000 humans Tech Level Tech/10

UFP StarPort A Class 2 (Tech/10 facility) StarPort Rating

Social Organization **Open Society**

Societal Strength 05% Xeno Acceptance Government Type Republic **Government Support** 23% (vote = 60%) 72% (revolt = 15%) Loyalty Index Repression Index 10%

Bureaucracy Level Minimal 14% Corruption Level Law Level 6-9 Economic Rating Rich Agricultural

Gross Productivity MCR 5000 Per Capita Income CR 10,000 40%= MCR 2000 Tax %/Levy Military Spending 30% ≈ MCR 1500 Major Exports food, textiles

Major Imports parts, general tools, misc. equipment

Trade Restrictions Free Trade Policy

Trade Acceptance 25%

Hathor was founded in 2080 by a group of ranchers from the ancient Terran province of Texas. The planet exhibits characteristic grasslands and savannas, so common with most Steppe Planets, but there is heavy forestation in the uplands and along rivers and bodies of water. Few native life forms of any size had developed, most being similar to rodents of 5 kg mass or less. Terran animals and plants thrive on Hastor, and the bulk of the population is engaged in ranching and farming. Cattle, horses, and sheep thrive on the lush Hathorian grasses, while wheat, corn, and cotton yield exceedingly well in the deep, black soil.

Hathor III was cut of from Terra for a 90-year period between 2130 and 2220, but the reasons for the hiatus are not found in current Federation records. When contact was resumed, the colony was found to be thriving and eager to begin trading with food-hungry Terra. Hathor was occupied for a time during the Hiss Land Grab, but was relieved in 2331 by the 8th BattleFleet, During the period of occupation, the colonists fought a bitter and courageous guerilla war against the saurians, causing them to tie up many combat units which could have been better employed elsewhere. Since that time, the colonists have devoted a substantial portion of their gross planetary product to defense and are stout supporters of the Federation. It is estimated that over 60% of the male population and 30% of the female population serves at least two tours of service in the Federation Forces before returning home to a civilian life, so the planetary militia is well trained and led.

HELIOS IV

StarSystem Coord. Stellar Primary FTL Conversion Planets in System **HELIOS IV**

Orbital Distance Length of Year Length of Day Planetary Diameter Surface Gravity Temperature Range

Atmosphere Type Hydrosphere Type

StarNationality

Sentient Race **Population** Tech Level StarPort Rating Social Organization Societal Strength

Xeno Acceptance Government Type Government Support Loyalty Index

Repression Index **Bureaucracy Level** Corruption Level Law Level

Economic Rating Gross Productivity Per Capita Income Tax %/Levy

Military Spending Major Imports Major Exports

Trade Restrictions Trade Acceptance

4,EE.-35 Terran Sector GSC 14.JJ.+000 GOv main sequence star

10,000 LS

moonlets

Type 1 Terran Standard Planet: 7 moons &

630 LS (1.26 A.U.) 1,40 Terran years 24 hours 06 minutes 13,000 km 1.00 G (dense) -60°C to 55°C

Terran: 775mm, with 02 at 200mm (slightly rich). Conditions are almost identical to Terra. 79% = 7 major continents, 2 very large islands, and numerous archepelagoes. Most of the

planet receives adequate precipitation. UFP Member Planet: former Lost Colony

Human Colonials 50,000,000 humans Tech/9-10

UFP StarPort AAAAA Class 1 (Tech/10) Open Society, with age restrictions

05% in urban areas; 25% in rural regions Restricted Democracy: Republic

19% (vote = 55%)

74% (revolt = 10%) 28% (youth minority)

Moderate to High, with much red tape

18

Very Rich Agricultural

MCR 600,000 CR 12,000

30% = MCR 180,000 20% = MCR 120,000

agricultural equipment, parts, vehicles food, wines, liquor, luxury crafts, petrochems 10% import duty on non-preferred items

75%

Helios IV is a planet that closely resembles Terra and, except for the spectacular procession of its 7 moons, can be taken for a twin of the Home Planet, Many Terran plants and animals have been introduced into the environment and have competed very successfully with native forms. The environment is congenially free of serious diseases, while the most dangerous animal is comparable to the Terran coyote in size and habits.

Life on Helios IV is idyllic and peaceful to the point of boredom for action-minded individuals. The society is circumscribed by quaint customs and folkways, reflecting the status-quo mentality of the older generations who dominate the social order. Peace and quiet are the most valued aspects of Helian culture, and manners require a minimum of disturbance of others. Boisterous or uncouth behavior is frowned on, and disturbing the peace is an offence carrying fines of up to CR 500. Violence is utterly taboo as a means of settling disputes, while murder and armed robbery are unthinkable (the last conviction of a Helian for such crimes occured in 2479, some 71 years ago).

Political parties are numerous, with the government being formed by coalitions of like-mined factions. There is little, in fact, to choose between them. The dominant coalition is the Farmers' Union, typically opposed by the Popular Alliance Parties, Both FU and PAP are highly conservative in their views and opt for maintaining the comfortable status quo. Despite their resistance to change, the elders are intensely loyal to the Federation and give substantial support to their Federation commitments

The youthful population (those under 30 Helian years of age or 42 Terran years) is considered to be in the position of 'minors' and has only limited rights. Until they reach majority, Helian youths are subject to parental control and discipline. Marriages and careers are arranged by their parents, often without reference to the desires of their offspring. They can override the decisions of their children as well, having recourse to the courts to enforce their will. Considering that many

youths in fact occupy positions of considerable responsibility in the business, government, and military sectors of society, such treatment appears ludicrous to the outsider. However, it has been the custom since the founding of the colony in 2084, and almost 500 years of tradition is hard to break.

A growing number of the youth population is becoming restive under the domination of their elders. The Youth Action Party now enjoys the support of 36% of the population under thirty, YAP has been agitating quite vocally for extension of the franchise to younger citizens and severe curtailment of parental authority. In recent years the RE-VOLT INDEX has risen to 10% and is continuing to increase at +1% to +3% per year. In an event of serious political crisis, which is marked by indecisiveness and failure to act promptly on Helios, an armed uprising is possible. Since 91% of the armed forces are youths, half of whom are YAP sympathizers, a military coup grows ever more likely.

Recently, an ultra-radical faction of YAP has emerged. The Youths Against Helian Oppressive Oldsters has escalated the situation into open and noisy confrontation. The politicians of FU and PAP regard the YAHOOS as a grave threat to peace, quiet and good government, and have passed restrictive laws to prevent their public demonstrations, petitions, and other acts of disrespect for traditional Helian life. It is now apparent that some members of YAHOO have established secret cells devoted to the armed overthrow of the government. They are arranging for the illegal importation of military armaments, and offplanet student activists have arranged 'vacations' to instruct them in the commission of acts of terrorism and political sabotage.



BRINT and BOSS assessments of the situation indicate that revolution is inevitable on Helios IV on the close order of 20 years, with 10 years being the most likely. UFP security agents have been stationed on Helios to counter subversive activities by agents of the Galactic Peoples Republic and the Azuriach Imperium, who are attempting to turn the legitimate grievances of the Helian youths to more sinister purposes. Thus, in the middle of what is still an almost laughable situation, a secret war is being waged. Some 53 UFP agents have been eliminated by their Azzie and GPR opponents, and a like number have been removed from the enemy's muster rolls.

HORUS IV ==

StarSystem Coord. Stellar Primary FTL Conversion Planets in System

11

3,AA,+90 Terran Sector GSC 14.JJ.+000 M7iii/M5v binary giant and main sequence stars 35,000 LS

HORUS IV Type 14 Terran Ice Planet: 2 moonlets

Orbital Distance 7000 LS (14.00 A.U.) Length of Year 11.71 Terran years Length of Day 38 hours 17 minutes

15,000 km Planetary Diameter 1.15 G (dense) Surface Gravity -110°C to 10°C Temperature Range

Atmosphere Type Terran: 2250mm (dense), with 01 at 325mm

(rich). Surface conditions are brutally cold and

Hydrosphere Type 74%, with all seas frozen and the whole of the

land masses covered by ice caps, UFP Colony (Baast colonials) StarNationality Sentient Race MekPurr Feline Colonials

250,000 MekPurrs/2,500,000 Meks Population

Tech Level Tech/10

StarPort Rating MekPurr StarPort AAA Class 1 (Tech/10+)

Social Organization Open Society Societal Strength 9 Xeno Acceptance 08%

MekPurr Feudal Aristocracy Government Type

Government Support 47% (vote = 69%) 82% (revolt = 08%) Loyalty Index

Repression Index 01%

Minimal, very efficient Bureaucracy Level

Law Level 1-5

Economic Rating Very Rich Industrial **Gross Productivity** MCR 25,000

CR 10,000/Mek = CR 100,000/ MekPurr Per Capita Income

Tax %/Levy 50% = MCR 12,500 Military Spending 40% = MCR 10,000

Major Exports power metals, electronic & computer parts Major Imports food, wines, luxuries, industrial metals, petro-

chemicals

Trade Restrictions Free Trade Policy

Trade Acceptance 45%

Horus IV was founded by MekPurr colonists from Baast in 1852 (Terran calendar). In 2020 it was granted the status of a Mm' Tai (equivalent to a Terran duchy) and quasi-independent powers, When the home planet joined the UFP in 2410, Horus followed.

The planet is tamed, as are most MekPurr worlds, with all annoying wildlife eliminated in the regions inhabited by the MekPurrs. Since these included a number of exceedingly ferocious carnivores, survival around the domed MekPurr cities is a matter of withstanding the cold weather conditions. However, there is little doubt that the hinterland still holds significant numbers of fur-bearing creatures, including some of the toughest carnivores known. Unfortunately, the memory banks containing profiles of the wildlife encountered earlier have been wiped to open them for other uses. The hinterland is thus to be regarded as a big questionmark, full of unpleasant surprises.

HYPERION III

StarSystem Coord. 2.11.-60 Terran Sector GSC 14.JJ.+000 G6iv subgiant star

Stellar Primary FTL Conversion 20,000 LS Planets in System 11

HYPERION III Type 2 Terran No Seasons Planet: 1 moonlet

1520 LS (3.0 A.U.) Orbital Distance Length of Year 2,70 Terran Years 25 hours 46 minutes Length of Day Planetary Diameter 10,000 km Surface Gravity 0.75 G (dense) -75oC to 60°C Temperature Range

Terran: 700mm, with 02 at 190mm (slightly Atmosphere Type rich). Humidity and precipitation levels are at

Terran standard.

Hydrosphere Type 72% = 5 major continents and 6 island arche-

pelagoes. Polar and sub-polar regions are under ice caps.

StarNationality Independent Human Planet (was Lost Colony) Sentient Race **Human Colonials** 50.000.000

Population Tech Level Tech/8

StarPort Rating Hyperion StarPort AAA Class 1 (Tech/8) Social Organization **Religious Caste Society**

Societal Strength

68% prejudice = highly xenophobic Xeno Acceptance

Government Type Religious Dictatorship 19% (vote = 51%) Government Support Lovalty Index 93% (revolt = 05%)

49% Repression Index

Bureaucracy Level Pervasive Church Hierarchy

Corruption Level 17% (high officials); 05% (low officials)

Law Level 14-15

Economic Rating Average Agricultural Gross Productivity MCR 75,000 CR 1500 Per Capita Income

50% = MCR 37,500 Tax %/Levy Military Spending 27% = MCR 20,000

Major Imports agricultural equipment, misc, tools & equipt.

Major Exports food, textiles, fur.

No wine, liquor, tobacco, narcotics, etc. Trade Restrictions

Trade Acceptance

Hyperion III wuperficially resembles Terra, but differences become quite noticeable after a short time. The plant life, for example, has a faintly blue-green hue. Several plants have strong narcotic effects, notably the Jooba plant and the Kopja weed. (These are forbidden for use by the planetary government and are destroyed whenever found. But Jooba buds and Kopja leaves can be obtained illegally at about CR 50 per kg and may be resold on the black market for 25.d20% of their purchase value. Possession of the narcotic plants is punishable by life at hard labor on Hyperion III.)

Animal life is comparable to Terran life forms in general appearance and size. There are few dangerous predators now, but a few of the fierce SlaanTigers (Beast H at 275-350 kg, with C fangs and claws, and fleet movement) can be encountered in the wilderland forest regions. They are virtually immune to drugs, poisons, and stunner fire, while their high shock resistance (CR 19) makes a killing shot a vital necessity. Some Contact Service experts suggest that StaanTigers are really Avatar felines, of definitely high intelligence and perhaps also possessing PSI powers. It remains a fact that the locals have been quite unable to wipe them out and have a pathological fear of them that is not at all normal. They cast the creatures in the role of local servants of the Devil, and organize huge hunting sweeps to rid entire counties of their presence. They also encourage off-planet hunters to try their luck on these stalker/ambushers, which some have indeed done in the hope of collecting the CR 1000 x 2d6 that a SlaanTiger pelt commands in Terran high-fashion circles, not to mention the standing Hyperion bounty of CR 2000 per beast.

The SlaanTiger trade is regarded with deep suspicion by the Contact Service, for the creatures may be sentient, However, since Hyperion is an independent planet, they can take no steps to protect the creatures in their native habitat.

Hyperion society is itself fanatically religious and exhibits an open and deep mistrust of all non-believers from off-planet. The Proctors of the Universal Church of the Most High keep everyone under constant observation, alert for deviant and heretical behavior, Personnel are advised to acquaint themselves fully with the many puritannical rules of conduct before venturing into Hyperion society, Possession or use of alcoholic beverages, tobacco, narcotics, or even Terran coffee and tea, are all regarded as heinous vices and will bring quick and stern punishment by the local authorities. Similarly, discussion of off-planet attitudes, distribution of any kind of unapproved literature, and other like behavior are considered to be offences under Hyperion Canon Laws of Heresy. Male personnel are especially cautioned against approaching the females of Hyperion for social reasons, as local courtship customs forbit adultrous behavior, which includes even being alone with an unattended female of marriageable age. In brief, personnel should avoid the slightest breach of decorum and propriety. As no protocols exist to protect offenders, personnel are at their own risk once inside Hyperion jurisdiction.

There are no political parties as such on the planet, as only members of the clergy and lay brothers have any political influence, Factions of the ruling hierarchy of the Universal Church are locked in an eternal power struggle, with political issues revolving around fine points of religious interpretation. The Government Vote in the High Council of Elders is at a precarious 51%, so change of leadership is likely in a major

crisis. The Revolt Index represents the chance that there will be an internal coup by a rival faction in such an instance. But the populace itself, though deeply repressed, is fanatically loyal to the Church and to the idea of theocratic government. Thus, a general uprising is highly unlikely (02%).

KEPHRE II

StarSystem Coord.

1,HH,-80 Terran Sector GSC 14.JJ.+000

Stellar Primary **FTL Conversion**

K3iv subgiant star 20,000 LS

Planets in System

KEPHRE II Orbital Distance Type 1 Terran Standard Planet: 1 moon 1250 LS (2.50 A.U.)

Length of Year Length of day Planetary Diameter 3.06 Terran years 23 hours 15 minutes 11.000 km

Surface Gravity

0.70 G (moderate density)

Temperature Range

-65°C to 60°C

Atmosphere Type

Terran: 700mm, with 02 at 175mm (normal). Weather and climatic patterns similar to Terra's.

Hydrosphere Type

75% = 5 continents, 1 sub-continent, and 7 large archepelagoes. Good precipitation pat-

terns.

StarNationality Sentient Race **Population** Tech Level

UFP Protectorate Humanoid 500,000,000 Tech/5-6

StarPort Rating Social Organization UFP StarPort A Orbital Class 1 (Tech/10+) Open Society/Socialist Society/Communist

Society 4

Societal Strength Xeno Acceptance Government Type

45% Multi-Government 20% (vote = 50%) Government Support Loyalty Index 46% (revolt = 30%)

Repression Index 30%

Moderate to High **Bureaucracy Level** Corruption Level 12%

Law Level 14-15 Average Agricultural Economic Rating

Gross Productivity MCR 1,025,000 CR 2050 Per Capita Income 30% = MCR 307,500 Tax %/Levy Military Spending 14% = MCR 145,000

Major Exports Major Imports Trade Restrictions

Tech/6-7 technology items under UFP license

Trade Acceptance

Kephre II is a planet at a stage of development similar to Terra in the mid-twentieth century. The population is bitterly divided over political and economic issues, with almost 50 separate nation states. War between them is highly likely at any time. Nuclear research is proceeding in the most advanced (Tech/6) nations, and atomic weapons will likely be developed at any time. Contact Service personnel have secretly placed planetary Xenon generators at the poles and will switch on the damping fields once essential early nuclear tests are completed and the various nations have acquired the data needed for development of advanced nuclear technology. Restricted contact is allowed with the faintly blue-hued humanoids of Kephre, but trade is severely regulated and must pass through the orbital fortress in L-5 position. A reinforced regiment of Marines is available for action on the surface if required, supported by the 65th Cruiser Squadron.

KULTIS V

StarSystem Coord. Stellar Primary FTL Conversion Planets in System

M6iii giant star 35,000 LS 10

6.AA.-45 Terran Sector GSC 14.JJ.+000

KULTIS V Orbital Distance Length of year Length of day Planetary Diameter Temperature Range

Atmosphere Type

Hydrosphere Type

10,000 LS (20.00 A.U.) 20.0 Terran Years 28 hours 57 minutes 1.50 G (very dense) -55°C to 75°C

Terran: 1500mm (high), with 275mm 02 (high) Dust storms are common in desert areas. 34% = landlocked seas and lakes, Humidity

and precipitation are low in most regions.

Type 2 Terran Steppe Planet: 2 moonlets

StarNationality Independent Hissss'ist Planet

Reptilian (Hiss) Sentient Race Population 5,000,000,000 Tech Level Tech/8

Kultis StarPort AAAAA Class 1 (Tech/8) StarPort Rating Military Dictatorship/Caste Society Social Organization

Societal Strength 60% prejudice Xeno Acceptance Military Junta Government Type 20% (vote = 59%) Government Support 70% (revolt = 20%) Loyalty Index 45%

Repression Index

Extremely high, with much red tape Bureaucracy Level Corruption Level 20%

Poor Agricultural

Law Level **Economic Rating** Gross Productivity Per Capita Income Tax %/Levy

MCR 5,625,000 CR 1500 40% = MCR 225,000 35% = MCR 200,000

18

Military Spending Major Exports food, industrial metals, power metals, gold advanced tech goods and armaments Major Imports

Trade Restrictions Friends of the Hissss ist 100%

Trade Acceptance

As is the case for most Hiss planets, little is known about conditions on Kultis V. The planet was, at one time, a Lost Colony, but the Hiss Land Grab of 2309-2338 swallowed it up. Nothing is known of the fate of the original human colonists, but it is now suspected by BRINT and BOSS that some were spared by the conquerors and their descendants have been enlisted as renegades to pursue Hiss goals in humancontrolled space. Certainly, several bands of space pirates and a number of espionage agents appear to have been in close contact with the Hiss for some time. (See notes for Cobra II.)

LARVA III

StarSystem Coord. Stellar Primary

FTL Conversion Planets in System

LARVA III Orbital Distance Length of year

Planetary Diameter **Surface Gravity** Temperature Range Atmosphere Type

Societal Strength

Xeno Acceptance Government Type

Economic Rating

Gross Productivity

Per Capita Income

Military Spending

9.FF.-90 Terran Sector GSC 14.JJ.+000 G1v main sequence star

10,000 LS

Type 1 Terran Steppe Planet: 1 moon 150 LS (1.00 A.U.)

1 Terran year 27 hours 48 minutes Length of day 15,000 km 1.15 G (dense) -55°C to 70°C

Terran: 900mm, with 02 at 175mm (normal). Heavy atmospheric contaminants (chemical

warfare residue).

Hydrosphere Type 32% = landlocked seas, contaminated. Independent Planet: Bug Hive World StarNationality Sentient Race Larvae (Bug) 10,000,000,000(est.) = 1,000,000,000 warriors

Population Tech Level Tech/8

StarPort Rating StarPort AAAAA x3 Class 1 (Tech/8 facilities) Social Organization Larvan Hive

10

100% prejudice: instant attack

Hive Mind Poor Industrial MCR 35,000,000 CR 3500/Worker 50% = MCR 17,500,000

Larva III is the headquarters planet of the Bug presence in Terran space. The planet was attacked seven times during the Bug Raids of 2281-2310, but the insectoids had massive defense in depth and repelled each attack with heavy losses on both sides. The planetary surface is contaminated with chemical warfare materials, and several regions have radiation levels as high as RAD/9 from thermonuclear strikes scored when the 255th Regiment (Mobile Infantry) succeeded in seizing and destroying the planetary Xenon generators during the Fourth Battle of Larva (2296). The vast number of defenders present on the planet is only now fully recognized. The Federation 10th BattleFleet remains on regular station in the region at Alpha Red status (War Alert Immanent) to counter any major Bug offensive movements. Personnel of all races are advised to avoid the starsystem and to stand to battle stations when in this region of the StarSector, for Bug patrols are heavy and utterly hostile.

LEONIDAS II -

StarSystem Coord. Stellar Primary **FTL Conversion** Planets in System LEONIDAS II Orbital Distance Length of year Length of day Planetary Diameter Surface Gravity Temperature Range

Atmosphere Type

StarNationality

4.DD.+60 Terran Sector 14.JJ.+000 G5v main sequence star 10,000 LS

Type 1 Terran Tundra Planet: 1 moon

450 LS (0,90 A.U.)

334 days

28 hours 10 minutes

12,000 km 0.92 G (dense) -100°C to 35°C

Terran: 725mm, with 02 at 125mm (lower than normal). Winter storms are especially savage.

Hydrosphere Type

78% = 4 continents and 8 large islands, Ice

caps cover polar and middle latitudes.

UFP Member Planet

Sentient Race Human Colonials/Leonidan Canines Population 5,000,000 humans/30,000,000 Waaurf

Tech Level Tech/9-10

StarPort Rating UFP StarPort AAAAA Class 1 (Tech/10)

Social Organization Highly Open Society

Societal Strength

01% prejudice = highly tolerant Xeno Acceptance

Government Type Republic Government Support 52% (vote = 85%)

Loyalty Index 91% (revolt = 06%)

Repression Index 04%

Bureaucracy Level Minimal, and very, very efficient

Corruption Level 01%

Law Level 1-5 Economic Rating

Exceedingly Rich Industrial (mining) **Gross Productivity** MCR 1,050,000

Per Capita Income CR 30,000

Tax %/Levy 40% = MCR 400,000 30% = MCR 300,000 Military Spending

Major Imports parts, vehicles, factory equipment, tools, arms Major Exports industrial metals, power metals, gold, furs

Trade Restrictions Free Trade Policy

Trade Acceptance 50%

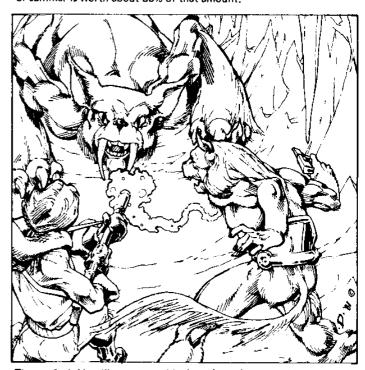
Leonidas II is a Terran Standard Planet in the late stages of a severe Ice Age. When human colonists arrived in 2083, they discovered primitive wolf-like bipeds in Tech/1 tribal societies. Friendly relations were opened and over several centuries, the Canines were brought along to finally stand as equals with humanity. By the time of the Bug raid of 2297, the Human/Canine population had united into a single culture. They fought valiantly against the insectolds, though outgunned and even outnumbered at one point, when a second wave of Bugs arrived in 2299. Relieved by the 5th Terran BattleFleet in 2302, the Leonidans were reduced to only 11,000,000, only 28% of the former population.

Since that time, human and Waaurf have worked to restore the planet. Leonidas is a model of peaceful co-existence and co-operation between sentient races. Indeed, the planet is noted for being the first Terran colony to extend the franchise to a non-human race (2269), and was the first to elect a non-human president (2303), in the person of the great war hero, BattleForce Leader Harru Grawlurff of the Arkla Pack.

Recently, Leonidas II has embarked on an ambitious program to develop the considerable mineral and petroleum resources of the planet. A wide range of metals, some petroleum, and petrochemicals are available for trade, in addition to furs amongst the finest in the sector. In the last election, 89% of the electorate voted to increase the tax rate so as to improve the already superbly trained and equipped armed forces of Leonidas. The planet is a staunch supporter of the UFP, and has a particular dislike of the racist Azuriach Imperium.

A large portion of the planet is still untouched wilderness, a situation preferred by most of the population. The equatorial region has some deciduous forests, but these rapidly give way to evergreen woodlands and taiga as one moves into the middle latitudes. Animal forms are characteristically superb fur-bearers, and hunting and trapping forms a significant part of the planetary economy. Indeed, the animal life is exceedingly bountiful. Beasts of special note are:

Leonidan SnowCaat: A huge D Beast of 700 kg with A weapons and fleet movement, the SnowCaat is a ferocious stalker/ambusher which can be found in the evergreen forests and into the vast snowfields and mountain uplands that pervade much of Leonidas. It is the Leonidan version of the Terran SabreTooth, but is far more intelligent and cunning. It sometimes hunts in packs of 2-7, but also goes solitary. It is a master of ambush (55% chance of not being spotted, despite the nature of detection gear used), its coat changing with the seasons and the temperature to blend in with the landscape. The irridescent silvery pelt of its winter coat is worth CR 250 x 3d6, the shorter spotted coat of summer is worth about 35% of that amount.



Thaurruf: A Yeti-like anthropoid of the fnow fields and high mountain areas, the Thaurruf is a voracious omnivore of H size (350 kg average) with F or E weapons and average speed, Thaurruf are typically solitary but sometimes appear in small family groups. It sometimes bears a club, but Contact Service anthropologists confirm that it is not sentient, Pelt Value is CR 100 x 2d6 in winter, and 50% of that in summer,

Akka Tharrlu: A small but wolfishly cunning and savage J beast of 100 kg mass, with E weapons and fleet movement, the Akka Tharriu is a canine resembling the Terran collie. The Akka is a pack hunter and runs in groups of 11-20. A persistent tracker, it will trail its prey for many kilometers before bringing it to bay. The creatures roam the high forests and the edges of the snow fields. Pelt Value is CR 25 x 1d6, but live cubs bring CR 25 x 3d6, as they can be domesticated and raised as dogs and are much prized by the Leonidans.

Tekka Nuu: A K beast of 40-65 kg mass, with E weapons and fast movement, the Tekka is a wolverine-like animal which intimidates larger beasts of prey and proves to have the advantage in most fights because of its lightning movements and mindless savagery in combat. It is a superb climber and often lays in wait in trees as a furker, waiting for prey to come by. It will attack human sized animals instantly from close ambush, without warning. Pelt Value is CR 20 x 3d6 in winter, but almost valueless in warm seasons.

M'Raaugh: A huge B sized ursoid of up to 950 kg mass, with B weapons and average movement, the M'Raaugh is every centimeter the equal of the most fearsome cave bears of the Terran Ice Ages. It is an omnivore, but will intimidate other beasts or even kill its own prey if the opportunity arises. It is found in the evergreen forests, active even in winter as it does not hibernate. A variant, the Narfa Raaugh, is found in the snow fields and is fleet of foot, the Leonidan version of the Terran polar bear, Pelt Value is CR 100 x 3d6 in winter and 25% of that in warm seasons. The Narfa is worth +10d10% more than M'Raaugh pelts.

Torsaurgh: A mighty AAAA beast with A weapons and average speed, the Torsaurgh is a wooly grazer armed with great tusks and a prehensile trunk. It is the favorite prey of the SnowCaat, and can often be found in herds of 6-15. It has little value as a fur-bearing animal, but its flesh is worth CR 2.50 per kg.

Other animals abound, many of them corresponding to the deer and moose of Terra. These are hunted by the local populace as a source of food, though domesticated versions are raised in the settlements. (Waaurf and humans alike claim that the wild meat simply tastes better

Leonidas is fast becoming an attraction for hunters, and a tourist trade is growing, However, local hunting regulations require that only slugthrowers and stunners be used, and fines of CR 500-5000 are imposed for the use of advanced armaments in the hunt. Off-worlders must engage local guides. However, there is the off chance that stray Bugs may still be encountered, so personal arms may include energy projectors. The Leonidan government pays a bounty of CR 100 per Warrior killed, with antennae required as proof of such a kill.

MAAT II

StarSystem Coord. 3,DD.+30 Terran Sector GSC 14.JJ.+000

M1v main sequence star Stellar Primary

FTL Conversion 10,000 LS

Planets in System

Type 14 Airless Planet: 3 moonlets MAAT II

300 LS (0.60 A.U.) Orbital Distance Length of year 215 Terran days 32 Terran days Length of day 8000 km Planetary Diameter 0.80 G (very dense) Surface Gravity

-125°C to 65°C Temperature Range

Vacuum: RAD/1-4 during solar flare periods, Atmosphere Type which occur every 25 days and last for 7 days.

Hydrosphere Type Non-existent, but considerable amounts of sub-

terranean water exist in the form of ice.

LIEP Colony StarNationality Sentient Race **Human Colonial**

1,000,000 humans in domed cities Population

Tech/10 Tech Level

UFP StarPort C Class 2 (Tech/10) StarPort Rating

Social Organization Wide Open Society

Societal Strength 6 07% Xeno Acceptance

Miners' Republic Government Type Government Support 20% (vote = 58%) 65% (revolt = 05%) Loyalty Index

05% Repression Index Minimal Bureaucracy Level 16% Corruption Level Law Level 1.5

Economic Rating Exceedingly Rich Industrial (Mining)

MCR 125,000 **Gross Productivity** CR 125,000 Per Capita Income 10% = MCR 12,500 Tax %/Levv 05% = MCR 6250 Military Spending

collapsium, industrial metals, gold, silver, Major Exports

platinum

food, parts, liquor Major Imports Free Trade Policy Trade Restrictions

38% Trade Acceptance

Maat II is an airless planet exhibing some of the characteristics of Luna in the Solarian System. The planet is subject to occasionally severe meteor infalls, and the entire surface is thickly pocked by craters that range from a few meters to a hundred kilometers across.

The human community lives in 5 domed cities and a number of mining settlements. Average earnings reach CR 25,000 to CR 30,000 per year, with the mining companies obtaining the major share of the profits from the very rich mining operations. The planet has a characteristic boom town character. However, a sinister criminal element has managed to insert itself into the community and takes advantage of the predilection of local officials to accept graft. The IPA would like to clean out the mob but has not been invited to do so by the planetary government (which is often in the pocket of the local gangsters).

MARA III

6.11.+70 Terran Sector GSC 14.JJ.+000 StarSystem Coord.

G4v main sequence star Stellar Primary

FTL Converstion 10,000 LS Planets in System

Type 1 Terran Ocean Planet: 3 moons MARA III

415 LS (0,83 A.U.) Orbital Distance 291 days Length of year

28 hours 30 minutes Length of day 10.000 km Planetary Diameter

0.72 G (dense) Surface Gravity Temperature Range -45°C to 60°C

Terran: 800mm, with 02 at 175mm (normal). Atmosphere Type

Moderate climate, with intense tropical storms 92% = 3 small continents and many island

Hydrosphere Type chains and small archepelagoes

Independent Planet StarNationality Avians Sentient Race

250,000,000 Avians Population Tech Level Tech/9

StarPort Rating Mara StarPort AAAAA Class 1 (Tech/9)

Social Organization Aristocratic

Societal Strength 10 25% Xeno Acceptance

Avian Oligarchy Government Type 40% (vote = 65%) Government Support Loyalty Index 79% (revolt = 15%)

Repression Index 10% Minimal Rureaucracy Level Corruption Level 13% 1-5 Law Level

Economic Rating Rich Industrial MCR 3,375,000 **Gross Productivity** Per Capita Income CR 13.500

30% = MCR 1,012,500 Tax %/Levy Military Spending 25% = MCR 850,000

aircraft, general tools, misc. equipment Major Exports

Major Imports industrial metals, industrial chemicals, petro-

chemicals, gems

15% import duty on non-preferred goods Trade Restrictions

Trade Acceptance 50%

Mara III is inhabited by a race of fierce, hawk-faced Avians who have otherwise lost much of their bird-like appearance and resemble humanoids with a light covering of down. They attained space flight about 200 years before Terra, but other than exploration flights, they have not tended to move beyond the bounds of their planetary system. Though flightless, they retain the bird's natural instincts when in flight and prove to be peerless pilots and combatants in atmosphere or in

Mara III is a generally congenial Ocean Planet, but occasionally savage typhoons sweep along the equatorial regions in the late summer and early fall. The land masses are largely mountainous, however, and the worst of the storms is felt far below the airy heights on which the breathtaking spires of the Maran cities are built.

The Avians of Mara do not evidence a high degree of tolerance toward alien races, partly because they have suffered greatly in several of the interstellar wars that have swept theough their region. Nevertheless, they will not mistreat off-worlders. They simply restrict the movements of those they mistrust to the StarPort area.

MARATHON III -

StarSystem Coord, 3.CC.+45 Terran Sector GSC 14.JJ.+000 G5v main sequence star Stellar Primary

10,000 LS

FTL Conversion Planets in System

MARATHON III Type 2 Terran No Seasons Planet: 0 moons

415 LS (0.83 A.U.) Orbital Distance

Length of year 240 days

Length of day 23 hours 10 minutes

20,000 km Planetary Diameter

1.25 G (moderate density) Surface Gravity

Temperature Range -40°C to 70°C

Atmosphere Type Terran High Pressure: 2000mm, with 02 at 450mm. Oxygen toxicity likely for most per-

Hydrosphere Type 68% = 5 continents and 2 sub-continents, with

adequate precipitation over most regions,

UFP Colony StarNationality

Sentient Race Human Colonials (former Lost Colony)

Population 500,000 humans

Tech Level Tech/8

StarPort Rating UFP StarPort C Class 3 (limited Tech/10)

Social Organization **Aristocratic Society**

Societal Strength

25% prejudice Xeno Acceptance

Constitutional Monarchy Government Type Government Support 22% (vote = 58%) Loyalty Index 72% (revolt = 28%)

Repression Index 28% Bureaucracy Level Moderate Corruption Level 16%

Law Level 10-13, with Commons limited to archaic arms

Extremely Rich Agricultural Economic Rating

Gross Productivity MCR 10 000 Per Capita Income CR 20,000 Tax %/Levy 30% = MCR 3000 Military Spending 25% = MCR 2500

Major Imports misc, equipment, general tools Major Exports food, wines, textiles, gold, silver, platinum

Trade Restrictions 10% import duty on all imports

Trade Acceptance 75%

Marathon III was settled early during the Exodus and lost contact with Terra in 2130. When it was rediscovered in 2315, the colony had sunk to a Tech/3-4 feudal level. Over the following century, it was restored to Tech/8 levels, and the aristocratic society had evolved into a democratic constitutional monarchy in which the nobility still played a major role in government and general society. However, the commons were granted a parliament and abve limited legislative capabilities,

The noble and upper classes of Marathon III enjoy considerable privilege and a significantly higher standard of living than do the majority of the commoners. While the average per capita income is CR 20,000, the typical family sees only about CR 10,000 per year. About 80% of the population is engaged in agriculture, producing a good portion of its needs from the very fertile soil of the steppelands in the temperate zones of the planet. The monied classes derive the bulk of their wealth from rents and from the rich deposits of precious metals found in the Blue Mountains of Thuria, the largest continent on which the largest percentage of the population lives.

Marathon III evidences many life forms similar to those of Terra, but there are a considerable number of dangerous carnivores in the densely forested highlands. The furs of these animals are not especially valuable because of the relatively mild winters in all except the high polar zones of the planet. The most valuable are:

Tarla: A B sized carnivore massing 900 kg, with B weapons and fast movement over short distances, the Tarla is a characteristically sixlegged animal native to Marathon, which otherwise resembles a giant grizzly bear. It exhibits stalker/ambusher behavior, but is also omnivorous. Tarla are found in the forested regions only. Pelt Value is CR 100 x 2d6 in winter and 25% of that in summer,

Sieena: A G sized stalker/ambusher massing 400 kg, with C to E weapons, depending on its age and the location from which it originates (highland Sleens are the most dangerous). The creature vaguely looks like a leopard with six legs and may be tawny (steppelands), spotted (forests), or pure black or white (uplands and polar regions) in coloration. Pelt Value is CR 150 x 2d6 for polar Sleena, CR 100 x 1d6 for forest Sleena, and CR 50 x 1d6 for steppe Sleena. All are very fast to fleet in speed (the latter are steppe Sleena), and they are so quick and cunning in combat that they tend to gain an advantage 25% of the time, regardless of other factors.

Slaar: J carnivores massing 100 kg with E weapons and fast movement, the Slaar are pack hunters which resemble six-legged foxes, and exhibit the same reddish-brown coloration. They are native to the steppes and desert regions. They are valued for their bushy tails, which may bring CR 25 x 1d6. Slaar may be solitary or can run in packs of 3-18. They are very persistent trackers with phenomenal endurance (twice I stamina values) and dogged determination,

Other carnivores are small and have little interest. However, the Teksal, an intermittent grazer I with D horns and fleet movement is the 200 kg Marathani version of the deer. It is especially aggressive when brought to bay and is much prized as a game animal by the nobility. It cannot be hunted by a commoner except by license from the local lord, who awards such permission as a special mark of favor. Tekaal are traditionally hunted with a spear or bow, and firearms are regarded as unsporting.

MARKAAB V

10.GG,+99 Terran Sector GSC 14,JJ,+000 StarSystem Coord. Stellar Primary B9iii glant star

FTL Conversion 35,000 LS 11

Planets in System

MARKAAR V Type 15 Airless Planet: rings

Orbital Distance 3250 LS (6.50 A.U.) Length of year 3.70 Terran years Length of day 3.70 Terran years Planetary Diameter 12,000 km Surface Gravity 1,20 G (very dense) -100°C to 400°C Temperature Range

Vacuum: RAD/1-10 BrightSide, depending Atmosphere Type

upon solar flare activity (20% chance of flares

Hydrosphere Type Non-existent: all traces of water appear to be

absent, necessitating importation of water.

StarNationality **UFP Colony** Sentient Race **Human Colonial**

Population 7,500,000 humans in domed cities

Tech Level Tech/10

StarPort Rating UFP StarPort AAAAA Class 1 (Tech/10+)

Social Organization **Open Society**

Societal Strength 8 05% Xeno Acceptance Government Type Republic Government Support 29% (vote = 82%) Loyalty Index 93% (revolt = 01%) Repression Index 02%

Bureaucracy Level Moderate, efficient

Law Level 6-9

Economic Rating Exceedingly Rich Industrial (Mining)

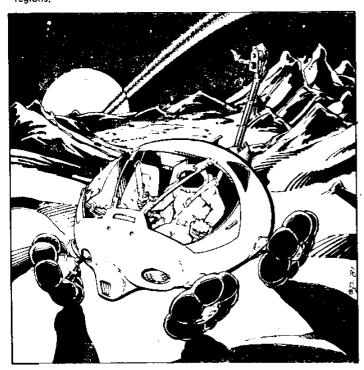
Gross Productivity MCR 1,125,000 Per Capita Income CR 150,000 Tax %/Levy 30% = MCR 337,500 Military Spending 20% = MCR 225,000

collapsium, industrial metals, precious metals, Major Exports

Major Imports food, parts, factory equipment, luxuries, liquor Trade Restrictions

Free Trade Policy

Trade Acceptance 65% Markhaab is a Mercury class planet, rich in raw resources which can often be found tying molten in hot pools connected to the planetary interior by vents leading down through the crust. Volcanic and seismic activity are often intense, while the radiation levels BrightSide can attain intensities approaching those experienced near a nuclear fireball. Most colonies are located in the Twilight Zone, where temperatures reach -25°C to 30°C, and radiation levels rarely exceed RAD/1. Seismic activity is also much lower in the Twilight and DarkSide regions.



The entire community of 7.5 million humans fives in 58 domed cities and mining settlements. Average earnings often exceed CR 30,000 per year, but the bulk of the profits go to the mining corporations which dominate the economic life of the planet. The planet has a boom town air about it, with a lot of hard work and hard play afterward.

MENKAAR V -

StarSystem Coord. Stellar Primary FTL Conversion Planets in System MENKAAR V Orbital Distance Length of year Length of day Planetary Diameter Surface Gravity Temperature Range Atmosphere Type

Hydrosphere Type

StarNationality Sentient Race Population Tech Level StarPort Rating Social Organization Societal Strength Xeno Acceptance Government Type Loyalty Index Repression Index Bureaucracy Level Law Level

10,AA,+09 Terran Sector GSC 14,JJ,+000

The state of the s

M2iii qiant star 35,000 LS 10

Type 2 Terran No Seasons Planet: ringed

6000 LS (12.00 A.U.) 9,30 Terran years 35 hours 17 minutes 10 000 km 1.00 G (very dense)

-55°C to 60°C Terran: 800mm, with 02 at 175mm (normal).

Usually favorable climate and weather,

71% = 9 small continents and numerous islands, with Terran levels of precipitation/humidity.

UFP Member Planet Human Colonial 75,000,000 humans

Tech/10

UFP StarPort AAAAA x 2 Class 1 (Tech/10+)

Open Society

8 10% Republic

96% (revolt = 01%) 03%

Moderate, efficient 6.9

Economic Rating **Gross Productivity** Per Capita Income Tax %/Levy Military Spending

Major Exports

Very Rich Agricultural MCR 1,875,000 CR 25,000 30% = MCR 562,500 20% = MCR 475,000

food, wine, power metals, collapsium, gold,

Major Imports parts, vehicles, aircraft, armaments

Trade Restrictions Free Trade Policy

Trade Acceptance

Menkaar V was founded in 2218 as an agricultural colony, and its chief exports are still meat, grain, and fine Menkaar vintage wines (200% higher price for the finer wines). However, extensive deposits of uranium and thorium have been discovered, and along with the gold and silver extracted from the mountain mines since the colony was founded these valuable metals have produced a healthy interstellar balance of trade. In 2547 collapsium was discovered in the great rings that circle Menkaar V, the remnants of a large, exploded moon, and a rush of meteor miners has occurred,

Life on Menkaar itself is rather sedate and conservative, despite the boisterous nature of the meteor miners now arriving to prospect the planetary rings. Indeed, a few miles out of the StarPort city of Menkaar itself, one would think he had stepped back in time to stroll the peaceful country lanes of old England on Terra. However, for all their quaint attachment to antique and archaic forms - be it in homes, furniture, or dress - the Menkaarites are among the most advanced technologists in the StarSector and encourage thorough education in all of the sciences and technical skills.

G4v main sequence star

10,000 LS

MINERVA II

StarSystem Coord. Stellar Primary FTL Conversion Planets in System MINERVA II Orbital Distance Length of year

335 LS (0.67 A,U) 211 days 30 hours 00 minutes Length of day

20,000 km Planetary Diameter Surface Gravity 2,50 G (very dense) Temperature Range -25°C to 75°C Atmosphere Type

Terran: 900mm, with 02 at 200mm (slightly high). High humidity and intense tropical

8.GG,--75 Terran Sector GSC 14.JJ,+000

Type 1 Terran Jungle Planet: 1 large moon

storms.

Hydrosphere Type 75% = 6 continents and 5 large island archepelagoes. Very small polar ice caps.

StarNationality **UFP Member Planet** Sentient Race Pithecine Anthropoids 500,000,000 Pithecines Population

Tech Level Tech/9

UFP StarPort AAAAA Class 1 (Tech/10) StarPort Rating

Social Organization Open Society

Societal Strength 10% Xeno Acceptance Government Type Republic Government Support 42% (vote = 70%)

Loyalty Index 83% (revolt = 07%) Repression Index 10% **Bureaucracy Level** Moderate

Corruption Level 12% Law Level 6-9

Economic Rating Very Rich Agricultural **Grass Productivity** MCR 4,500,000 Per Capita Income CR 9000

30% = MCR 1, 350,000 Tax %/Levy Military Spending 20% = MCR 900,000 Major Exports

Quoropa leaves, food, luxury foods, metals

Major Imports manufactured goods Trade Restrictions Free Trade Policy

Trade Acceptance 55% The Pithecines of Minerva look exactly like Terran gorillas, only they have well-formed hands and their hips and legs are distinctly human in general appearance and efficiency. They have managed to attain Tech/9 levels under the careful tutelage of the Contact Service over the last 300 years and are staunch supporters of the Federation,

It has been said of Minerva II that it is one of the best manicured jungles in the universe, and it is. Most of the destructive wildlife has been hunted down and slain by the Minervites, and the regions that are densely inhabited have been cleared and drained, converting vast sections of the planet into conventional farmland. However, there are still extensive jungle and swamp regions, particularly on the two largest continents. There, a variety of jungle wildlife can be encountered. including the most dangerous feline known in the galaxy:

Minervan CaatOwl: An I class flier with a body resembling the Terran leopard, this 200-250 kg hunter/stalker is armed with C talons and fangs. Aerodynamically, it should not be able to fly at all because its wing span is only 3m from tip to top. However, it apparently has a psionic ability to levitate for long periods, permitting it to raise its considerable mass from the earth with ease. Its wings exist largely to stabilize and propell it in flight, and the CaatOwl can attain speeds in excess of 350 kmh (580-600m in 6 seconds) in a sprint, The creature attacks its prey from above, spotting it from thousands of meters of altitude, then plummeting downward with great force to deliver the killing blow. The creature is so-named because its eyes are very large and owl-like.

MIRA IV

9.BB.-05 Terran Sector GSC 14.JJ.+000 StarSystem Coord.

Stellar Primary M5iii giant star **FTL Conversion** 35,000 LS Planets in System 10

Type 2 Terran No Seasons Planet: 3 moons MIRA IV

Orbital Distance 5500 LS (11.00 A.U.) 8.16 Terran years Length of year 32 hours 20 minutes Length of day Planetary Diameter 25,000 km Surface Gravity 2,50 G (very dense) -60°C to 65°C Temperature Bange

Terran: 2500mm (high); with 02 at 350mm Atmosphere Type

(high). Severe storms along the equatorial

80% = 5 continents. Humidity and precipi-Hydrosphere Type

tation levels are very high in the equatorial

region.

StarNationality UFP Member Planet (former Blarad Kingdom)

Sentient Race Ursoid (Blarad type) Population 1,000,000,000 Blarads

Tech Level Tech/9

StarPort Rating UFP StarPort AAAAA x3 Class 1 (Tech/10+)

Social Organization **Open Society** Societal Strength

05% Xeno Acceptance

Government Type Constitutional Monarchy Government Support 40% (vote = 73%) 90% (revolt = 02%) Loyalty Index

Repression Index 01%

Bureaucracy Level Moderate, slow but very efficient and precise

Corruption Level 06% 6-9 Law Level

Economic Rating Very Rich Industrial **Gross Productivity** MCR 22,500,000 CR 22,500 Per Capita Income

40% = MCR 9.000.000 Tax %/Levy Military Spending 30% = MCR 6,000,000

Major Exports vehicles, aircraft, armaments, mech. parts, gold

Major Imports power metals, industrial metals, food

Trade Restrictions Free Trade Policy

Trade Acceptance 70%

Mira IV was founded as a Blarad colony in 1862 (Terran calendar), from the HorseHead Nebula StarSector - just like Ankaa III. In 2388, Mira IV joined the Terran Union as an Allied Planet, and in 2412 became a full member of the Federation.

Mira IV possesses a powerful gravity field, like Ankaa's, beyond the capacity of most races to withstand and adapt to successfully. However, there are about 2,500,000 humans from Ankaa who can function quite easily on the planet, and they provide a good portion of the high-tech expertise required to run the industrial complexes of the planet.

See the note on Ankaa for details about Blarad life and government, The planet owes allegiance to the Crown of Ankaa, and is traditionally the seat of the Crown Prince.

As in the case of Ankaa, Miran life forms are very deadly and dangerous The wildlife is tanacious of life and generally deadly in the attack. Most of these beasts are confined to the equatorial region (continent of Terala), and the rest of the planet is relatively well settled and

MITRA III

10.JJ.+00 Terran Sector GSC 14.JJ.+000 StarSystem Coord.

Stellar Primary FOiv subgiant star FTL Conversion 20,000 LS Planets in System

MITRA III Type 14 Terran Ice Planet: 1 moon 4665 LS (9.33 A.U.) Orbital Distance Length of year 10.41 Terran years Length of day 28 hours 20 minutes

8000 km Planetary Diameter

Surface Gravity 0.95 G (exceedingly dense)

Temperature Range -105°C to 20°C

Terran: 1000mm (dense), with 02 at 150mm Atmosphere Type (slightly thin), Savage blizzards are common,

Hydrosphere Type 66%, with vast ice cpas covering the 5 continents to the equatorial zone.

StarNationality UFP Colony (Procyon colonists) Sentient Race MekPurr Feline Colonials

250,000 MekPurrs/2,500,000 Meks Population

Tech Level Tech/10+

StarPort Rating MekPurr StarPort AAAA Clas 1 (Tech/10+)

Social Organization Open Society Societal Strength 08% Xeno Acceptance

Government Type MekPurr Feudal Aristocracy

Government Support 49% (vote = 62%) Loyalty Index 82% (revolt = 07%)

Repression Index 04%

Bureaucracy Level Minimal, very efficient

Law Level 1-5

Economic Rating Very Rich Industrial

Gross Productivity MCR 25,000

CR 10,000/Mek = CR 100,000/MekPurr Per Capita Income

Tax %/Levy 50% = MCR 12,500 Military Spending 40% = MCR 10,000

industrial metals, gems, gold, irridium Major Exports Major Imports food, wines, luxuries, factory equipment

Trade Restrictions Free Trade Policy

Trade Acceptance 45%

Mitra III was founded by MekPurr colonists from Procyon V in 1912 (Terran calendar). In 2068, it was granted the status of Mm'Tai (equivalent to Terran duchy) and quasi-independent powers. When Procyon V jointed the UFP in 2415, Mitra III followed,

The planet is very similar to Leonidas II, and the same life forms are found on Mitra III, arguing for a possible 'seeding' of the planet by an earlier starculture. See the note on Leonidas II for details. However, the MekPurrs have largely ignored the rich fur trade, concentrating on mining and smelting the large deposits of metals found on the planet. Recently, a small group of Leonidan humans and canines have arrived to exploit the potentials of the animal population, but these number only a few hundred and the fur trade is only beginning.

See also the note on Baast culture.

NAMIR II

StarSystem Coord. 9.FF.-90 Terran Sector GSC 14,JJ,+000

Stellar Primary G9v main sequence star

10 000 LS **FTL Conversion**

Planets in System

Type 8 Terran Arid Planet: 3 moons NAMIR II

Orbital Distance 315 LS (0.63 A.U.)

Length of year 207 days

Length of day 32 hours 55 minutes Planetary Diameter 12,000 km 0.92 G (dense) Surface Gravity -20°C to 80°C Temperature Range

Terran: 1000mm, with 02 at 200mm (high). Atmosphere Type Humidity and precipitation are minimal, and

dust storms are common in desert areas.

Hydrosphere Type 17% = landlocked seas and lakes. StarNationality Independent Planet: Bug Hive World

Sentient Race Larvae (Ruo)

10,000,000,000(est)/2,000,000,000 warriors Population

Tech Level Tech/8

StarPort Rating StarPort AAAAA x3 Class 1 (Tech/8 facility)

Social Organization Larvan Hive

Societal Strength 10

100% prejudice: instant attack Xeno Acceptance

Government Type Hive Mind **Economic Rating** Poor Industrial MCR 25,000,000 Gross Productivity Per Capita Income CR 3500/worker 50% = MCR 12,500,000 Military Spending

Namir II is a major Hive World untouched by the long-term campaign waged against the Bugs by the Terran Union and its allies. Indeed, so secret was its presence, that the Bugs had managed to build their colony into a massive bastion by 2423, when it was discovered by an independent survey team. The 10th Federation BattleFleet maintains reqular surveillance of the starsystem and has fought several skirmishes with the highly aggressive starforces of Namir II in recent years. Personnel of all races are advised to avoid the starsystem and to stand to battlestations when in this region of the StarSector, as Namir patrols are clearly spoiling for a fight, A colonizing breakout is expected from this planet at any time.

NASSUR III

StarSystem Coord. 9.AA,-75 Terran Sector GSC 14.JJ.+000

Stellar Primary G7v main sequence star

10,000 LS FTL Conversion

Planets in System

NASSUR III Type 1 Terran Standard Planet: 1 moon

Orbital Distance 350 LS (0.70 A.U.)

235 days Length of Year

25 hours 50 minutes Length of day

10,000 km Planetary Diameter

1.00 G (very dense) Surface Gravity -60°C to 65°C Temperature Range

Terran: 800mm, with 02 at 175mm (normal). Atmosphere Type Climate and weather closely approximate

that of Terra.

76% = 5 continents, 2 sub-continents, and 6 Hydrosphere Type

large island archepelagoes.

Occupied UFP Colony: Bug Outpost StarNationality Sentient Race Larvae (Bug) and Human Colonial Survivors 1,000,000 (est.) = 75-100,000 warriors Population Tech Level Tech/8

StarPort A Class 2 (Tech/8 facilities) StarPort Rating Larvan Hive

Social Organization

Societal Strength 10

Xeno Acceptance 100% prejudice: instant attack

Government Type Hive Mind Economic Rating Poor Industrial MCR 3150 **Gross Productivity** Per Capita Income CR 3500/worker Military Spending 50% = MCR 1575

Until recently, Nassur III was a small but thriving Lost Colony planeted from Terra in 2096. However, in 2538 a Bug assault unit overwhelmed the colonial defenses and began the extermination of all human life on the planet. About 3000 survivors were evacuated by the Free Trader Terrapin, operating out of Talos. The survivors have become fanatic agitators for a major campaign against the Bugs, and their suffering has caused widespread war-fever on Talos, Mira, and Menkaar. While Nassur III is an enemy-occupied planet, Bug strength is not yet so powerful as to deny the planet to courageous adventurers seeking the valuable StarStones for which the world is famous throughout Known Space. (StarStones command five times the value of gems.)



UFP authorites estimate that as many as 10,000 of the original 250,000 colonists have managed to survive by fleeing into the forested regions of the middle latitudes, away from the steppes and deserts preferred by the Bugs.

36 OPHIUCHI II

StarSystem Coord. Stellar Primary FT1 Conversion Planets in System

36 OPHIUCHI II

Orbital Distance Length of year

Length of day Planetary Diameter Surface Gravity

Temperature Range Atmosphere Type

Hydrosphere Type

StarNationality Sentient Race Population Tech Level

StarPort Rating Social Organization

Societal Strength Xeno Acceptance Government Type

Government Support Loyalty Index Repression Index

Corruption Index Law Level

5.FF,+08 Terran Sector GSC 14.JJ.+000 K1v/K5v binary main sequence stars

10,000 LS

Type MS.4 Terran Outer Ecosphere Planet:

2 moons

465 LS (0.93 A.U.)

300 days 22 hours 53 minutes

10,000 km

1,00 G (very dense)

-100°C to 30°C Terran Thin Atmosphere at 350mm, with 02

at 100mm (minimal). Breathing apparatus needed over 1500m.

63% = 4 continents, 3 sub-continents, and several large island chains; extensive polar ice caps.

UFP Colony

Human Colonials and others

1,000,000 Tech/10

UFP StarPort C Class 3 (Tech/10 facility)

Wide Open Society

10% prejudice

Miners' Republic with UFP prsence

16% (vote = 56%) 60% (revolt = 20%)

Very minimal; almost all provided by UFP 20% local officials; 01% UFP officials

1-5

Exceedingly Rich Industrial (Mining) **Economic Rating**

MCR 40,000 Gross Productivity CR 40,000 Per Capita Income 10% = MCR 4000 Tax %/Levy 7.5% = MCR 3000 Military Spending

Major Exports power metals, precious metals, gems Major Imports food, misc. equipment, parts, liquor

Trade Restrictions Free Trade Policy

Trade Acceptance

In 2096 a group of 10,000 Terrans arrived on 36 Ophiuchi III to found a high-technology mining colony. The planet if particularly well supplied with uranium, thorium, gold, silver and platinum, with some moderately rich deposits of industrial metals as well. Recently, gems of high quality have been found in the icebound mountains of the north.

36 Ophiuchi is a fairly standard Ice Planet, with wildlife comparable to that found on Terra during its last Ice Age. However, the animals are all possessed of huge lungs and can survive and move about with great efficiency, even in very low pressure (100mm or less). Only a few have furs of any commercial value, Most are very functional but tack in attractiveness. The only carnivore of note is the IceWolf, a J beast of 125 kg, with D or E fangs and fast movement. The IceWolves hunt in packs of 3-30 and are superb hunting animals when raised from cubs. They tend not to attack armed parties or individuals, but they seem to know when a person is unarmed and may close in for the kill at that time.

Old prospectors tell tales about a mysterious creature of the high mountains, which often reach 10,000m in height and cover 25% of the land surface of the planet. The Phantoms are bipedal, covered with white fur that blends perfectly with glacial snow and ice, and mass about 250 kg (beast I). But what is especially terrifying are the stories of great rending claws and fangs (A weapons with +1 or +2 penetration DM) and superhuman strength. The creatures cannot be readily seen or detected in the ice-crystal fogs of the high altitute regions, and appear to strike without warning from nowhere. Contact Service experts surmise that, if the creatures exist, they are possibly sentient.

70 OPIUCHI (VALARION)

StarSystem Coord, 5.FF.+00 Terran Sector GSC 14.JJ.+000 Stellar Primary K1v/K5v binary main sequence stars

FT1 Conversion 10,000 LS

Planets in System 70 OPHIUCHI

Type MS, 1 Terran Standard Planet: 1 moon Orbital Distance 415 LS (0.83 A,U,)

Length of year 288 days

Length of day 25 hours 25 minutes

11,000 km Planetary Diameter 0.84 G (dense) Surface Gravity -70°C to 65°C Temperature Range

Terran: 775mm, with 02 at 150mm (slightly Atmosphere Type thin). Climates and weather approach Terran

norms.

Hydrosphere Type 73% = 3 continents, 5 sub-continents, and

several large island archepelagoes.

StarNationality **UFP** Member Planet **Human Colonials** Sentient Race

Population 150,000,000 humans and some non-humans

Tech Level Tech/10

StarPort Rating UFP StarPort AAAAA x3 Class 1 (Tech/10+)

Social Organization Open Society

Societal Strength 10

02% prejudice: significant non-human minority Xeno Acceptance

Government Type Republic Government Support 89% (vote = 66%) Loyalty Index 89% (revolt = 03%)

Repression Index 02%

Bureaucracy Level Moderate, highly efficient

Corruption Index 04% Law Level 10-13 **Economic Rating Exceedingly Rich Industrial**

MCR 3,750,000 Gross Productivity Per Capita Income CR 25,000

Tax %/Levv 30% = MCR 1.125.000 20% = MCR 750,000 Military Spending

Major Exports vehicles, aircraft, spacecraft, parts, misc. tools power metals, industrial metals, petrochemi-Major Imports

cals, food Free Trade Policy

Trade Restrictions Trade Acceptance 68%

has become a virtual twin of Terra.

When Terran colonists arrived on 70 Ophiuchi in 2075, they found a planet in the early stages of development, Primitive plant and animal life had just begun to move onto the land from the seas, and conditions are thought to have resembled those of Terra early in its development before the Carboniferous Age. Then it was discovered that vast petroleum reserves existed beneath the surface. Not until 2286 did scientists find that the planet had been swept clean of life above the ocean surface by some ForeRunner device of unknown design and power. Apparently, evolutionary forces had operated in the hundreds of thousands of years since that ecological disaster to begin the colonization of the land. In the meantime, Terraforming was initiated to bring

The society is very similar to that of Terra, with identical social and political institutions.

the land areas into a more productive state, and by 2250, 70 Ophiuchi

OSIRIS IV

2.EE.+40 Terran Sector GSC 14.JJ.+000 StarSystem Coord.

Stellar Primary K4iv subgiant star 20,000 LS FTL Conversion

Planets in System R

OSIRIS IV Type 2 Terran No Season Planet: 3 moons 1000 L\$ (2,00 A,U,) **Orbital Distance** 2.30 Terran years Length of year 25 hours 20 minutes

Length of day Planetary Diameter 11,000 km Surface Gravity 1,10 G (very dense)

-75°C to 65°C Temperature Range Terran: 1200mm, with 02 at 200mm (slightly Atmosphere Type

high). Terran patterns of weather and climate. 68% = 4 continents, 3 sub-continents, and Hydrosphere Type numerous islands. Good precipitation and

humidity levels.

StarNationality UFP Affiliate: Indpendent Planet

Sentient Race Canine 100,000,000 Population Tech Level Tech/9

Osiris StarPort AAAAA Class 1 (Tech/9) StarPort Rating

Social Organization Aristocratic

Societal Strength 15% Xeno Acceptance

Constitutional Monarchy Government Type Government Support 28% (vote = 61%) Loyalty Index 81% (revolt = 12%)

Repression Index 08% **Bureaucracy Level** Moderate 10% Corruption Level 6-9 Law Level

Rich Agricultural Economic Rating **Gross Productivity** MCR 675,000 Per Capita Income CR 6750

30% = MCR 200,000 Tax %/Levv 20% = MCR 135,000 Military Spending

food, textiles, industrial metals, gems Major Exports general tools, misc. equipment, vehicles Major Imports

Free Trade Policy Trade Restrictions

Trade Acceptance 45% Little is known about the surface conditions on Osiris IV other than those observable from space and from Osiris StarPort. The Canines of Osiris have a definite aversion to letting off-worlders explore their planet, though they will engage in trade. BRINT agents have been able to piece together some disturbing evidence that Osiris IV may be an advance base for some as yet unknown starculture, Indeed, several devices obtained by BRINT operatives are clearly not of Osirian manufacture, nor do they correspond to any known starculture's workmanship. Since they are patently of Tech/10 level, the nature of the unknown starculture is definitely ultra-high technology. Osirian starships of the WarFleet are also unlike commercial designs and are beyond the capacity of the shipbuilding industry of Osiris to produce. They, too, are suspected to be of Tech/10 design.

PROCYON IV (BRITANNIA)

StarSystem Coord. 5.EE.+02 Terran Sector GSC 14.JJ.+000 Stellar Primary F5iv/K5d binary subgiant and main sequence

stars **FTL Conversion** 20,000 LS Planets in System 10

Type MS.1 Terran Standard Planet: 3 moonlets PROCYON IV

Orbital Distance 1500 LS (3,00 A,U,) Length of year 2.53 Terran years 23 hours 50 minutes Length of day Planetary Diameter 11,000 km Surface Gravity 1.10 G (very dense) -80°C to 70°C Temperature Range

Atmosphere Type Terran: 700mm, with Q2 at 125mm (thin). Weather and climate approximate Terran.

Hydrosphere Type 78% = 6 continents and numerous island chains and archepelagoes. Good precipitation patterns,

StarNationality **UFP Member Planet** Human Colonials Sentient Race 250,000,000 humans Population

Tech Level Tech/9

StarPort Rating UFP StarPort AAAAA x2 Class 1 (Tech/10)

Social Organization Open Society

Societal Strength Xeno Acceptance 08%

Constitutional Monarchy Government Type Government Support 72% (vote = 61%) Loyalty Index 85% (revolt = 12%)

Repression Index

Moderately high Bureaucracy Level

Corruption Index 20%: Institutionalized graft, but not treasonous Law Level

Economic Rating Very Rich Agricultural **Gross Productivity** MCR 3,125,000 Per Capita Income CR 12.500 30% = MCR 937,500

Tax %/Levy 20% = MCR 625,000 Military Spending

Major Exports food, wines, liquor, textiles, chemicals, indus-

trial metals

Major Imports parts, vehicles, aircraft, armaments

Trade Restrictions Free Trade Policy

Trade Acceptance 70%

The MekPurr of Procyon V have been close associates of Terra since humanity won the stars. Thus, it is not at all unusual that humans would found what has eventually become a very successful agricultural colony on Procyon IV to serve the needs of MekPurr society as well as to provide much needed food for crowded Terra itself. Procyon IV is an orbital twin of Procyon V, the MekPurr planet, exactly 1800 opposite in orbital position.

When it was first settled in 2077, Procyon IV was devoid of life and needed massive Terraforming. This was accomplished in a 200-year period, with the valuable assistance of the MekPurr of Procyon V, Now the colony is a New Terra, and boasts a population of 250 millions. Each year several million Terrans arrive to further increase the population, and the planet is in every way a double of Old Earth.

The government is a constitutional monarchy established on the line of the Kings of Old England on Terra, and the planet bears the name Britannia as a result. Indeed, the Royal Family fled to Britannia when the fanatic Pure Earthers gained dominance and began dismantling all of the hated trappings of class privilege and social inequality on Terra. Many of their subjects followed them, and a few subsequently moved on to Menkaar V, with its more salubrious climate (until Terraforming was completed on Britannia, that is). Ties between Britannia and Menkaar are particularly close as a result.

PROCYON V =

StarSystem Coord. 5.EE.+02 Terran Sector GSC 14.JJ.+000 Stellar Primary K5iv/K5d binary subgiant and dward stars FTL Conversion 20,000 LS

Planets in System 10

PROCYON V Type MS.1 Terran Standard Planet: 1 moon

Orbital Distance 1500 LS (3.00 A.U.) Lenght of year 2.53 Terran years 24 hours 16 minutes Length of Day Planetary Diameter 13,000 km

Surface Gravity 1,00 G (dense) -85°C to 75°C Temperature Range

Atmosphere Type Terran: 1500mm (dense), with 02 at 200mm

(high). Storms tend to be rather severe, with

high winds.

Hydrosphere Type 80% = 4 continents, 5 sub-continents, and very many island chains and archepelagoes, Good

precipitation.

UFP Member Planet StarNationality Sentient Race MekPurr Feline

25,000,000 MekPurrs/500,000,000 Meks Population

Tech Level Tech/10+

MekPurr StarPort AAAAA x4 Class 1 StarPort Rating

(Tech/10+ facilities) Open Society

Social Organization Societal Strength 10 Xeno Acceptance 01%

Government Type MekPurr Feudal Aristocracy

Government Support 55% (vote = 75%) 95% (revolt = 01%) Lovalty Index

Repression Index 02%

Bureaucracy Level Moderate, devastatingly efficient

Corruption Index 01% 1-5 Law Level

Economic Rating Incredibly Rich Automated Industrial

Gross Productivity MCR 10,000,000

CR 20,000/Mek = CR 400,000/MekPurr Per Capita Income

Tax %/Levy 50% = MCR 5,000,000 Military Spending 40% = MCR 4,000,000

Major Exports Tech/10 computers and parts, robotic equip. power metals, industrial metals, luxuries, wines Major Imports

Trade Restrictions Free Trade Policy

Trade Acceptance 50%

Procyon V is a major center of MekPurr power in the Terran Sector. surpassed only by Baast III. The planet is literally manicured, with almost 25,000,000 Meks detailed to maintaining the countryside in all the finicky attention to detail so characteristic of the MekPurr.

Most of the comments about Baast are equally applicable to Procyon V except that military forces are about half the strengths given for Baast. The MekPurr of Procyon are specialists in difficult Terraforming projects and have done signal service in other StarSectors to develop marginal planets into congenial environments suitable for Class A colonization.

PTAHII -

StarSystem Coord. 2.GG.+35 Terran Sector GSC 14.JJ.+000

Stellar Primary G4v main sequence star

10,000 LS **FTI Conversion**

Planets in System 6

PTAH II Type 2 Terran No Season Planet: 1 moon

Orbital Distance 460 LS (0.92 A.U.)

Length of year

340 days 25 hours 00 minutes Length of day

Planetary Diameter 9000 km

0.90 G (very dense) Surface Gravity

~90°C to 55°C Temperature Range

Atmosphere Type Terran: 1400mm (dense), with 02 at 225mm (high). Severe storms at edges of equatorial

zone,

Hydrosphere Type 68% = 5 large and 3 small continents, with a

huge island archepelago in the northern hemi-

sohere.

UFP Colony (Baast colonists) StarNationality Sentient Race MekPurr Feline Colonials

100,000 MekPurrs/1,000,000 Meks Population

Tech Level Tech/10+

MekPurr StarPort AAA Class 1 (Tech/10+) StarPort Rating

Social Organization Open Society

Societal Strength 06% Xeno Acceptance

MekPurr Feudal Aristocracy Government Type

53% (vote = 62%) Government Support 80% (revolt = 10%) Lovalty Index 02% Repression Index **Bureaucracy Level** Minimal, very efficient

Corruption Level 07%

Law Level 1-5

Very Rich Industrial **Economic Rating Gross Productivity** MCR 10,000

Per Capita Income CR 10,000/Mek = CR 100,000/MekPurr

50% = MCR 5000 Tax %/Levy

Military Spending 40% = MCR 4000

Major Exports power metals, gold, silver, platinum, irridium Major Imports food, wines, luxuries

Free Trade Policy Trade Restrictions

Trade Acceptance

Ptah II was founded by MekPurr colonists from Baast in 1932 (Terran calendar). In 2086 it was granted the status of a Mm Srirri (equivalent to a Terran earldom). When Baast joined the UFP in 2410, Ptah II followed as a loyal vassal,

The planet is Terraformed and has all of the ferocity of a flowergarden, The industrial strength of the colony was diminished by a sneak raid by the Hiss in 2465, which resulted in mass destruction of the main industrial complex, which is only now completing reconstruction. The physical scars to the landscape were healed far more quickly than the devastation wrought on industry.

A treaty has been signed to open up the rural region to Terran colonists for development into agricultural complexes. Over the next fifty years, 25 million human colonists will emigrate to Ptah II.

RA III

StarSystem Coord. 3.BB.+85 Terran Sector GSC 14.JJ.+000

M4iv subgiant star Stellar Primary **FTL** Conversion 20,000 LS

10 Planets in System

RA III Type 1 Terran Standard Planet: 3 moonlets

1250 LS (2.50 A.U.) Orbital Distance Length of Year 1.98 Terran years Length of Day 30 hours 00 minutes 13,000 km Planetary Diameter

1.00 G (dense) Surface Gravity -75°C to 55°C Temperature Range

Atmosphere Type Terran: 1000mm (high), with 02 at 225mm (high). Weather and climate patterns are simi-

lar to those of Terra.

70% = 6 continents, 3 sub-continents, and Hydrosphere Type many islands. Precipitation heavy along the

equator.

StarNationality **UFP Protectorate** Sentient Race Humanoid 250,000,000 Population Tech/2-3 Tech Level

StarPort Rating UFP StarPort B Class 2 on Moonlet I: Tech/10+

Social Organization Aristocratic/Tribal Anarchy

Societal Strength Xeno Acceptance 50% Government Type Multi-Government/Feudal/Tribal Anarchy

Government Support 15% (vote = 45%) Loyalty Index 50% (revolt = 25%)

Repression Index 50% Bureaucrácy Level Minimal Corruption Level 15% Law Level 1-5

Economic Rating Poor Agricultural **Gross Productivity** MCR 81,250 Per Capita Income CR 325

Tax %/Levy 30% = MCR 24,000 Military Spending 15% = MCR 12,000

Major Exports Major Imports

Trade Restrictions Tech/3-4 technology items under UFP license

Trade Acceptance

Ra III is a Terran planet with a humanoid culture ate about the same level of development as on Ancient Terra at the time of the Roman Empire. Indeed, many of the nations have characteristics and institutions similar to those of Rome, Greece, Egypt, Parthia, Germania, etc., and the Ra have tended to adopt many Terran names and mannerisms reflecting that resemblance. Thus, it is now possible to walk again in the Ra version of ancient Rome or Athens (complete with buildings), although there are significant local differences from anything in Terran history. At first, Contact Service officials were alarmed at the copycat quality of the Ra reaction to Terran culture, but careful analysis has revealed that the cultural shock effects of contact with advanced starcultures is being rapidly diminished by it. Indeed. nothing has really been lost, for traditional art forms and customs are still maintained as necessary ceremonials, and the character of true Ra society is not diminished.

RAKSHASHA V

8.CC.+40 Terran Sector GSC 14.JJ.+000 StarSystem Coord. Stellar Primary M2iv subgiant star 20,000 LS

FTL Conversion Planets in System 10

RAKSHASHA V Type 2 Terran No Season Steppe Planet:

0 moons

Orbital Distance 1100 LS (2.20 A.U.) Length of Year 1.74 Terran years Length of Day 26 hours 54 minutes

Planetary Diameter 11,000 km Surface Gravity 0.69 G -60°C to 50°C Temperature Range Atmosphere Type

Terran: 750mm, with 02 at 150mm (normal). Heavy atmospheric contaminants (chemical warfare residue) and radiation levels of RAD/ 1-8 prevail over most of the planetary surface.

Hydrosphere Type 38% = landlocked seas, contaminated. Independent Planet: Bug Hive World StarNationality Sentient Race Larvae (Bug)

Population

250,000,000(ext.) w/ 50,000,000 warriors Tech Level Tech/7-8

StarPort Rating StarPort AAA Class 1 (Tech/8 facilities)

Social Organization Larvan Hive

Societal Strength

Xeno Acceptance 100% prejudice = instant attack

Government Type Hive Mind Economic Rating Poor Industrial **Gross Productivity** MCR 750,000 Per Capita Income CR 3500/Worker 50% = MCR 375,000 Military Spending

Rakshasha V is one of 5 Bug planets remaining in the Terran StarSector after the Bug Raids of 2281-2310. The planet was once a major Hive World, but the devastatingly successful assault made on this planet by the famous 10th BattleFleet of the Terran Union in 2310 reduced it to little more than an outpost of Bug power. Personnel of all races are advised to avoid the starsystem and to stand to battle stations when in this region of the StarSector, for Bug patrols are heavy and utterly hostile.

REGULUS VI

StarSystem Coord. 2.DD.+17 Terran Sector GSC 14.JJ.+000

Stellar Primary B7v main sequence star

FTL Conversion 10,000 LS Planets in System 10

REGULUS VI Type 7 Jungle Planet: 5 moons

Orbital Distance 7500 LS (15.00 A.U.)
Length of Year 25.98 Terran years
Length of Day 28 hours 08 minutes
Planetary Diameter 15,000 km

Surface Gravity 0.94 G (moderate density)

Temperature Range 25°C to 70°C

Atmosphere Type Terran: 850mm, with 02 at 200mm (high). Humidity levels are excessive, and storms

are severe.

Hydrosphere Type 83% = very extensive swamps and shallow seas: 7 continents and innumerable islands.

StarNationality UFP Member Planet
Sentient Race Human Colonials
Population 25,000,000 humans

Tech Level Tech/9

StarPort Rating UFP StarPort AAA Class 1 (Tech/10 facilities)

Social Organization Open Society

Societal Strength 6 Xeno Acceptance 09% Government Type Republic

Government Support 41% (vote = 64%) Loyalty Index 78% (revolt = 14%)

Repression Index 09%
Bureaucracy Level Minimal
Corruption Index 07%
Law Level 1-5

Économic Rating Rich Agricultural
Gross Productivity MCR 225,000
Per Capita Income CR 9000
Tax 9/1 and 20% a MCR 57.5

Tax %/Levy 30% = MCR 67,500
Military Spending 15% = MCR 33,750
Major Exports Quoropa leaves, food

Major Imports vehicles, parts, general foods, medicines

Trade Restrictions Free Trade Policy

Trade Acceptance 34%

Regulus VI is a planet in a Jurassic period of development, with very lush vegetation, high temperatures, and uniformly tropical conditions across most of the planetary surface. Dinosaurian life forms predominate, and personnel are advised to go well armed at all times. XAB Xeno-Anti-Biotics are essential to combat the virulent Regulian fever and the many vicious fungus infections which pervade the environment. However, a weekly dose of XAB has a 95% chance of preventing most infections. An immunity will be built up against most native diseases after about 5 years residence (90% chance of immunity).

Life forms of special note are:

Tyrannosaurus Regularus: A terrible AAAA stalker/ambusher massing over 10,000 kg at maturity, with A weapons capable of penetrating up to +5 armor (add +5 DM to attack rolls). TeeReg is fast in movement and is well armored by a leathery B/B/C hide. It is the largest and by far the most dangerous carnivore of the light forest and open plains, but rarely is it encountered in dense jungles, swamps, or highlands.

Terrorsaurus: An A stalker/ambusher massing up to 1500 kg, with A weapons and fast movement. Terrorsaurs have good hearing and sense of smell, but only poor eyesight, yet they function very efficiently in their jungle and swamp habitat. They are also well armored with D/D/E hides and may absorb 125% normal damage for an A beast before perishing. They may hunt alone or in mated pairs.

Lupus Regulanus: The Regulian wolf is a hair-covered, 4-footed saurian pack hunter of I size (150-200 kg) capable of very fast movement and armed with fangs varying from E to G levels. Their hides are H/H/I, and they have a shock resistance of 15+. Wolves tend to travel in packs of 6-25 and evidence the intelligence and cunning of their canine namesakes. Raised from the egg, they can be domesticated and prove to be remarkably loyal and affectionate. Lupus Regulanus can be encountered in jungle, forest, plain, and upland environments, but only rarely in swamps.

Killersaurus: A J sized bipedal pack hunter with F to H weapons and massing about 100 kg. Killers are capable of fast movement and travel in packs of 10-30, employing mob tactics to pull down and tear apart larger prey. They are utterly fearless and are insatiable once they catch the scent of blood. Killersauri are very common in swampy regions, but will also prowl the dense jungles. They have I/I/J hides, but G heads. Cultural anthropologists relate the species to Hissss ist, suggesting that the Killersaurus is a distant ancestor of this star race.



Krocasaurus: A lurker carnivore of E to G size (200-400 kg), armed with E to G weapons and protected by C/C/D armored hides. Krocasaura slow on land but are very fast in swamps and rivers, their natural habitats. Krocasauri are swamp and river dwellers, rarely venturing more than 100m from water.

There are many dangerous beasts, but most of them are smaller and less deadly than those noted above. Also, there is a vast range of herbivorous saurians ranging from tiny O sized creatures up to AAAA+20,000-30,000 kg grazers reminiscent of Terran brontosaurians. One intermittent grazers used as a mount and work animal by the colonials is the TeeCee, a beast resembling the ancient Terran Tricerotops:

Tricerotops Regulanus: An AAAA beast massing from 5000 kg to 20,000 kg, armed with A horns and protected by a massive bone mantle giving AFV to +2 armor protection frontally, and by a tough B/B/C hide over the remainder of the body. Tricerotops or TeeCee can move at a fast rate in a charge, bur normally proceed at a slow pace, like most saurian herbivores. They are found on the plains, rarely venturing into the dense forests. When startled or frightened, they face the enemy and charge (200m triggering range, normally). Since TeeCees run in herds of 5-30, such a reaction can be very hard on assailants. They can be domesticated from the egg, but wild TeeCees are not tamable.

An intelligent plant can also be found on Regulus, the feared Hydra Plant of the deep jungles and swamps. It is equivalent to an A beast in the damage it can inflict (usually D to F weapons) or receive, and has a very tough A/B/D covering. The plant resembles the microscopic hydra of Terra in appearance, with numerous tentacles emanating from a thick central stalk. It is often overgrown by other plants, especially hanging jungle vines, and so is often missed until it strikes (range of 10-20m). The plant should be regarded as equivalent to a lurker carnivore.

The human population dwells in fortified towns and plantations. Political activity is quite limited, as most efforts are expended on coping with the hostile environment. Individual liberty is prized by this fearless group of frontiersmen, and they honor men with courage and plain common sense. Theft is almost unknown on the planet and all doors

are open to strangers. In many respects life is similar to that of the pioneer west of Terra, except for the absence of the gunslinger.

The principal crop is the Quoropa leaf, used to make QRD QuickTime Regen drugs and other medical preparations, Quoropa leaves are available in one ton lots at CR 5000 + CR 50 x 2d6 per ton. The resale value can be 100% + 10.d20% when marketed at a Rich Industrial Tech/8+ destination. (Expensive lots represent very high grade leaves, so the greater the initial cost, the greater the potential profit.)

Other crops are also available. These tend to have double the cost and resale value of usual food items, as many of the roots and fruits of Regulus are prized for their attractiveness and flavor.

RIGIL KENTAURUS III (ALPHA-CENT)

StarSystem Coord. 5,FF,-04 Terran Sector GSC 14.JJ.+000

Stellar Primary G2v/K5v/M5d triple star system

10,000 LS **FTL Conversion**

Planets in System

Type MS.2 Terran No Seasons Steppe Planet RIGIL KENTAURUS

1 moon

500 LS (1.00 A.U.) Orbital Distance

290 days Length of Year 27 hours 00 minutes Length of Day

11,000 km Planetary Diameter Surface Gravity 0,84 G (dense)

Temperature Range -60°C to 55°C

Terran: 750mm, with 02 at 175mm (Terran Atmosphere Type

normal). Severe storms in high latitudes.

Hydrosphere Type 37% = landlocked seas and lakes, with exten-

sive plains and deserts in low latitudes.

UFP Member Planet StarNationality **Human Colonials** Sentient Race 100,000,000 humans Population

Tech Level Tech/10

StarPort Rating UFP StarPort AAAAA Class 1 (Tech/10)

Social Organization Open Society

Societal Strength 09% Xeno Acceptance Republic Government Type 39% (vote = 61%) Government Support Loyalty Index 72% (revolt = 10%)

Repression Index 08% Moderate Bureaucracy Level Corruption Index 08% 14-15 Law Level

Economic Rating Rich Agricultural MCR 750,000 **Gross Productivity** CB 7500 Per Capita Income

30% = MCR 225,000 Tax %/Levy Military Spending 20% = MCR 150,000

food, wine, textiles, industrial metals, petro-Major Exports

chemicals

Major Imports parts, vehicles, general tools, misc. equipment

Trade Restrictions Free Trade Policy

50% Trade Acceptance

Rigil Kentaurus III (or Alpha-Cent as it is more commonly called), is a Terraformed planet fashioned with the able assistance of the MekPurr of Procyon. It was originally settled as a desolate world by TransLunar Mining, but in 2315 the Terraforming project was completed and a truly congenial Class A planet had been constructed on the standard Terran model, complete to selected flora and fauna.

Alphan life styles and institutions are closely parallel to those of Terra, although there is a definite rural tone to it all - reflecting the predominantly agricultural nature of the world.

SABIK VI

5,II.-19 Terran Sector GSC 14.JJ.+000 StarSystem Coord.

Stellar Primary A2v main sequence star

FTL Conversion 10,000 LS Planets in System

Type 1 Terran Arid Planet: 0 moons SABIK VI

2250 LS (4.5 A.U.) Orbital Distance 3.49 Terran years Length of Year Length of Day 44 hours 10 minutes Planetary Diameter 7000 km

0.58 G (dense) Surface Gravity -25°C to 75°C Temperature Range

Terran: 300mm (thin), with 02 at 75mm (mini-Atmosphere Type mal), requiring respirator, RAD/0-2.

22% = landlocked seas and large lakes, but with

Hydrosphere Type most of the planet under very arid conditions.

Terran UFP Military Outpost StarNationality

Terran humans: UFP personnel and scientists Sentient Race

50,000 Terran humans Population

Tech Level Tech/10

StarPort Rating UFP StarPort C Class + (minimal Tech/10

facility)

Terran Research Colony: Military Discipline Social Organization 10

Societal Strength 01% Xeno Acceptance Government Type

Military Command 100% (vote = 100%) Government Support Loyalty Index 100% (revolt = 00%)

Repression Index 00%

Military Security Bureaucracy Level

Corruption Level 00% Law Level 16-17 **Economic Rating**

food, parts, vehicles, misc, equipment Major Imports Trade Restrictions Government Contract: Interdicted StarSystem

Trade Acceptance

Sabik VI is a desolate planet recently colonized by the UFP StarForce While the planet officially is rated as a research colony with minimal facilities, it is known that a surprising tonnage of equipment and large numbers of personnel were assigned to that destination, Some have speculated that Sabik VI is, in fact, a major StarBase of the Federation, with a complete BattleFleet assigned there to counter some as yet unannounced threat. Other rumors have it that a major ForeRunner discovery was made at Sabik VI by archeologists of the University of Tycho, and that the StarFleet has mounted a heavy guard over it because of its importance.

Federation Directive: Sabik VI, 5.II.—19 Terran Sector GSC 14.JJ.+000 is placed under Class AAA interdict and Quarantine, Unauthorized vessels entering Sabik SystemSpace will be hailed and then fired upon if they do not immediately heave to and permit boarding inspection. -By order of Fleet Admiral Richard R. Dickson, Commandant-General, UFP StarForces, StarDate 10.03.2545.

SET III

3.CC.-45 Terran Sector GSC 14.JJ.+000 StarSystem Coord,

Stellar Primary MOv main sequence star

10,000 LS FTL Conversion

Planets in System

Type 16 Airless Planet: 1 moon SET III 1500 LS (3.00 A.U.) Orbital Distance

6.42 Terran years Length of Year Length of Day 8 Terran days Planetary Diameter 6000 km 0,50 G (dense) Surface Gravity -160°C to -80°C Temperature Range

Vacuum: Rad/1 background radiation, rising Atmosphere Type

to RAD/3 during solar flare periods (7 days

every 30 days).

Non-existent, with limited amounts of sub-Hydrosphere Type

terranean ice, necessitating importation of witer

LIEP Colony StarNationality Sentient Race Human Colonials

Population 2,500,000 humans in damed colonies

Tech Level Tech/10

UFP StarPort B Class 1 (Tech/10 facility) StarPort Rating

Social Organization Wide Open Society

Societal Strength 5 10% Xeno Acceptance

Government Type
Government Support
Loyalty Index
Repression Index

Miners' Republic
18% (vote = 50%)
72% (revolt = 05%)

Bureaucracy Level Minimal
Corruption Level 16%
Law Level 1-5

Economic Rating Exceedingly Rich Industrial (Mining)

Gross Productivity MCR 250,000
Per Capita Income
Tax %/Levy 10% = MCR 25,000
Military Spending 05% = MCR 12,500

Major Exports collapsium, industrial metals, precious metals,

gems

Major Imports food, parts, factory equipment, liquor, luxuries

Trade Restrictions Free Trade Policy

Trade Acceptance 49%

Set III is a domed mining colony which produces large quantities of collapsium and other metals. Founded in 2416, it has all of the usual wildness of a boom town society. Again, as is unfortunately the case with most rich mining colonies, a criminal element has moved in to dominate many aspects of the social life and corruption and graft is spreading throughout the local administration. IPA agents are busy observing the situation and have assisted the local law enforcement agency, which is the only uncorrupt government body remaining on the planet.

SIRIUS V

StarSystem Coord. 5.EE.—02 Terran Sector GSC 14,JJ.+000
Stellar Primary A1v/wd binary main sequence and dwarf star
FTL Conversion 10,000 LS

Planets in System 9

SIRIUS V Type 2 Terran No Seasons Planet: 1 moon

Orbital Distance
Length of Year
Length of Day
Planetary Diameter
Surface Gravity
Temperature Range
2000 LS (4.0 A.U.)
3.58 Terran years
25 hours 25 minutes
10,000 km
1.00 G (very dense)
-65°C to 60°C

Atmosphere Type Terran: 800mm, with 02 at 150mm. Conditions

closely resemble Terran weather.

Hydrosphere Type 79% = 6 continents, 2 sub-continents, and

numerous islands and archepelagoes,

StarNationality UFP Member Planet
Sentient Race Human Colonials
Population 250,000,000 humans

Tech Level Tech/10

StarPort Rating UFP StarPort AAAAA Class 1 (Tech/10+)

Social Organization Open Society

Societal Strength 8 Xeno Acceptance 10%

Government Type
Government Support
Loyalty Index
Repression Index
Bureaucracy Level

Constitutional Monarchy
35% (vote = 61%)
70% (revolt = 13%)
09%
Moderately high

Corruption Level 12%

Law Level 14-15
Economic Rating Very Rich Agricultural
Gross Productivity MCR 2,500,000

Per Capita Income CR 10,000
Tax %/Levy 30% = MCR 750,000

Military Spending 20% = MCR 500,000
Major Exports food, wines, textiles, power metals, petro-

chemicals

Major Imports parts, vehicles, aircraft, luxury goods

Trade Restrictions Free Trade Policy

Trade Acceptance 65%

Sirius V is one of the oldest Terran colonies. Sirius V was Terraformed over a 130-year period, until its worst features were eliminated. The planet is a tame one, with all dangerous local wildlife eliminated or relegated to zoos and game parks. The countryside itself is considered to be among the most beautiful in known space.

The Sirian society is Terran in most respects, although rural oriented.

STATOR III -

StarSystem Coord. 3.II.—30 Terran Sector GSC 14.JJ.+000 Stellar Primary G3v main sequence star

FTL Conversion 10,000 LS

Planets in System 6

STATOR III Type 1 Terran Standard Planet: 2 moons

Orbital Distance 415 LS (0.83 A.U.)

Length of Year 286 days

Length of Day 28 hours 16 minutes

Planetary Diameter 11,000 km

Surface Gravity 0.69 G (moderate density)

Temperature Range -65°C to 55°C

Atmosphere Type Terran: 675mm, with 02 at 150mm (slightly thin). Humidity higher than Terran normal.

Hydrosphere Type 80% = 4 continents and 7 large islands, with in-

numerable islands and archepelagoes,

StarNationality Independent Planet

Sentient Race Humanoid

Population 250,000,000 humanoids

Tech Level Tech/9

StarPort Rating UFP StarPort AAAAA Class 1 (Tech/10+)

Social Organization Open Society
Societal Strength 6

Societal Strength 6 Xeno Acceptance 50%

Government Type Constitutional Monarchy
Government Support 28% (vote = 60%)
Loyalty Index 65% (revolt = 18%)

Repression Index 10%

Bureaucracy Level Pervasive, with much red tape

Corruption Level 18%
Law Level 14-15
Economic Rating Average Agricultural
Gross Productivity MCR 1,125,000

Per Capita Income CR 4500

Tax %/Levy 30% = MCR 337,500

Military Sacradian 15% - MCR 170,000

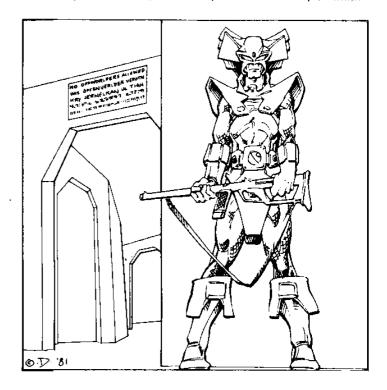
Military Spending 15% = MCR 170,000
Major Exports food, textiles, luxury goods, industrial chemical

Major Imports electronic and computer parts, misc, tools and equipment

Trade Restrictions 10% import duty on non-preferred imports

Trade Acceptance 55%

Virtually nothing is known about the hinterland of Stator, as all offworlders are regarded with deep suspicion and are not allowed past the StarPort facilities. Despite their high technological level, Statorians had not developed space travel of any kind before they were discovered by Contact Service Survey personnel in 2466. It required over 30 years of hard negotiation to acquire 1000 square km of territory on which



to construct a StarPort facility to open any form of trade with this xenophobic race. Most significant, the Statorians are clearly hiding

Statorians closely resemble the humanoids of Alphard V, and BRINT has recruited a number of Alphari for penetration operations to discover what it is that the Statorians appear to be hiding. Surgically altered humans also are being trained for the operations.

SUCCARATH IV

9.GG.-80 Terran Sector GSC 14.JJ.+000 StarSystem Coord.

Stellar Primary F7v main sequence star 10,000 LS

FTL Conversion

Planets in System 11

Type 8 Terran Steppe Planet - No Seasons: SUCCARATH IV

1 moon

635 LS (1.27 A.U.) Orbital Distance Length of Year 1 15 Terran years 36 hours 12 minutes Length of Day

Planetary Diameter 13,000 km 1.00 G (dense) Surface Gravity -35°C to 75°C Temperature Range

Terran: 850mm, with 02 at 175mm (normal). Atmosphere-Type Radiation levels vary from RAD/0-6 (nuclear

fallout).

Hydrosphere Type 34% = landlocked seas, contaminated Independent Planet: Bug Hive StarNationality

Sentient Race Larvae (Bug)

500,000,000(est) = 100,000,000 warriors **Population**

Tech Level Tech/7-8

StarPort Rating StarPort AAAAA Class 1 (Tech/8 facility)

Social Organization Larvan Hive

Societal Strength 10

100% prejudice: instant attack Xeno Acceptance

Government Type Hive Mind Economic Rating Poor Industrial **Gross Productivity** MCR 1.400.000 CR 3500/Worker Per Capita Income 50% = MCR 700,000 Military Spending

Succarath IV is one of 5 Bug planets remaining in the Terran StarSector after the Bug Raids of 2281-2310. A large portion of the planetary surface have been ravaged by the heavy thermonuclear bombardment laid down by the 4th and 10th BattleFleets of the Terran Union in 2308 to cover the retreat of the decimated 15th and 16th Marine Assault Corps when they failed to penetrate the Hive defenses. Personnel of all races are advised to avoid the starsystem and to stand to battle stations when in this region of the StarSector for Bug patrols are heavy and utterly hostile.

SURA II

StarSystem Coord. Stellar Primary **FTL Conversion** Planets in System

SURA II

Orbital Distance Length of Year Length of Day

Planetary Diameter Surface Gravity

Temperature Range Atmosphere Type Hydrosphere Type

StarNationality Sentient Race

Population Tech Level

StarPort Rating

Social Organization Societal Strength Xeno Acceptance

5.11,+35 Terran Sector GSC 14.JJ.+000

M1v main sequence star

10,000 LS

Type 13 Airless Planet: 1 moon

200 LS (0.40 A.U.) 114 Terran days 114 Terran days 6000 km

0.60 G (very dense) -140°C to 100°C

Vacuum: RAD/1-3 (BrightSide) Subterranean ice deposits

UFP Colony Human Colonials

250,000 humans in domed cities

Tech/10

UFP StarPort C Class 2 (Tech 10+ facility)

Wide Open Society

06%

Miners Republic Government Type 15% (vote = 50%) Government Support 50% (revolt = 08%) Lovalty Index

Repression Index 05% Bureaucracy Level Minimal Corruption Level 20% Law Level 1-5

Exceedingly Rich Industrial (Mining) Economic Rating **Gross Productivity** MCR 37,500

CR 75,000 Per Capita Income Tax %/Levv 10% = MCR 3750 05% = MCR 1875 Military Spending

Major Exports collapsium, industrial metals, precious metals

Major Imports food, parts, liquor Trade Restrictions Free Trade Policy

35% Trade Acceptance

Sure II is a standard airless palnet mining colony, with surface conditions similar to those on Luna. The planet is a veritable treasure house of minerals, including a rich deposit of collapsium.

The domed colonies are all but totally controlled by mob elements, but the last act of the previous colonial government was to call in the IPA to enforce law and order. Since the action was tied to a 20-year service contract drafted by IPA's elite legal staff, the current corrupt administration has been unable to break it or to legally eject the Interstellar Police. The result has been a form of undeclared war between the IPA and the criminal element. Since the courts are riddled with corruption and graft, the IPA officers attempt to bring Federation charges against the criminals they arrest or else see them have a good 75% chance of going free, even if guilty.

TALOS III

9.AA.-30 Terran Sector GSC 14.JJ.+000 StarSystem Coord. KOv main sequence star Stellar Primary

FTL Conversion 10,000 LS

Planets in System

Type 1 Terran Standard Planet: 0 moons TALOS III 335 LS (0.67 A.U.)

Orbital Distance

Length of Year 231 days

29 hours 19 minutes Length of Day 11,000 km

Planetary Diameter 0.84 G (dense) Surface Gravity -45°C to 50°C Temperature Range

Terran: 650mm, with 02 at 100mm. Oxygen Atmosphere Type levels at higher altitudes prove minimal, requiring use of breathing apparatus over 3000m

83% = 3 continents and many island archepelagoes and island chains, with extensive swamps in low-lying areas, Talos III approaches Ocean Planet status, with extensive seas having

a moderating influence over the climate.

StarNationality **UFP Colony**

Sentient Race Human Colonials: former Lost Colony

2,500,000 humans **Population**

Tech/8-9 Tech Level

StarPort Rating UFP StarPort B Class 2 (Tech/10+ facility)

Social Organization Open Society

Societal Strength

Hydrosphere Type

15% prejudice Xeno Acceptance Republic Government Type Government Support 42% (vote = 64%) 80% (revolt = 05%) Loyalty Index Repression Index 06%

Minimal, largely provided by UFP Bureaucracy Level

09% Corruption Index Law Level 1-5 Rich Agricultural

Economic Rating **Gross Productivity** Per Capita Income Tax %/Levv Military Spending

Trade Restrictions

Trade Acceptance

Major Exports Major Imports CR 6375 30% = MCR 4780 10% = MCR 1600

MCR 15,937,5

luxury crafts and foods, jewellery made of

silver and gold

parts, vehicles, misc. tools, and equipment

Free Trade Policy

25%

Talos III was colonized by political dissidents from Terra in 2097 and soon lost contact with the rest of humanity. Rediscovered in 2512, the colony was found thriving at a Tech/7 level, but without the resources to construct spacecraft. The colony has been incorporated into the UFP as a non-voting member.

Talos is actually an aquatic planet in many respects, as the sea is never more than a 100 km distance from any point, with deep gulfs and bays extending far inland. Some 90% of the population lives in coastal areas. most engaged in farming or fishing. The unique fish, grains and fruits of Talos III command a good price throughout the StarSector because of their superb flavor.

The people of Talos are peace-loving and friendly once their mistrust of strangers is overcome. Social life and government are more informal than on most planets in the Federation. Indeed, the Talosians have a rather lackadasical manner of approaching any problem, secure in their belief that everything will work out in the end. This lack of concern tends to be most frustrating to more organized personalities used to keeping to a fixed schedule and performing a task with crisp efficiency. The Trade Acceptance index clearly reflects this unfortunate attitude on the part of the Talosians, who will typically put off to tomorrow what can be put off until tomorrow.

Talosian luxury items and jewellery can command +10.d10% premiums upon resale. If reasonably prompt deliveries can be obtained, a good profit can be turned from trade with the planet.

TAU CETI II (CETA)

StarSystem Coord. 6.FF.+17 Terran Sector GSC 14.JJ.+000

Stellar Primary AOv main sequence star

FTL Conversion 10,000 LS

Planets in System 12

TAU CETI II Type 2 Terran No Seasons Planet: 11 moons

and moonlets

Orbital Distance 4000 LS (8.00 A.U.) Length of Year 8 Terran years Length of Day 25 hours 00 minutes Planetary Diameter 15,000 km

Surface Gravity 1.15 G (dense) -80°C to 55°C Temperature Range

Atmosphere Type Terran: 1000mm, with 02 at 200mm (rich). Weather is comparable to Terran conditions.

79% = 5 continents, 9 large islands, and several

large island archepelagoes

StarNationality **UFP Member Planet** Sentient Race Ursoid 250,000,000 Ursoids Population

Tech Level Tech/10

StarPort Rating UFP StarPort AAAAA Class 1 (Tech/10+) Social Organization Aristocratic, but with democratic elements

Societal Strength R

Hydrosphere Type

10% Xeno Acceptance Constitutional Monarchy

Government Type Government Support 38% (vote = 88%) 88% (revolt = 02%) Lovalty Index

02%

Repression Index Moderate, ponderous but thorough

Bureaucracy Level Corruption Level 07%

Law Level 10 - 13Economic Rating Very Rich Agricultural

Gross Productivity MCR 3,125,000 Per Capita Income CR 12.500 30% = MCR 937,000 Tax %/Levy

Military Spending 20% = MCR 625,000 Major Exports

food, liquor, textiles, industrial metals, industrial chemicals

armaments, parts, misc. tools and equipment Major Imports Trade Restrictions 10% import duty on non-preferred imports

Trade Acceptance 60%

Tau Ceti II (Ceta) is a very salubrious world which has become one of the major centers of learning in the Federation, with scholars and students from every corner of the confederacy to study at the famous Ceta University. The populace itself is a unique ursoid race closely resembling Blarads, but native to Ceta. When first contacted by Terran explorers in 2063, the Cetans were struggling to reconstruct their planet after a devastating world war. With Terran help, this Tech/5 culture soon began to develop into a stable society which eventually

took on many Terran traits and beliefs.

TERRA/SOLARIAN SYSTEM

000/00 Terran Sector GSC 14.JJ.+000 StarSystem Coord. Stellar Primary G2v main sequence Marker Star

FTL Conversion 10,000 LS Planets in System 10

SOL I (MERCURY): Type 15 Airless High Temperature Planet at 195 LS (0.39 A.U.) with a year of 88 Terran days. Day = 58,5 Terran days. Temperature = -175° C (night) to 375°C (day), Diameter = 4850 km. Gravity = 0.37 G. Mercury is a member of the High Republic of the Terran Union and an Associate Member of the UFP, Population is 2,500,000 in 12 domed cities and numerous mining sites. Chief Exports are all metals. Chief Imports are food, xeno-vehicles, factory equipment, general tools and equipment. Mercury is classed as an Exceedingly Rich Industrial (Mining) planet with Tech/10, Personnel require radiation shielding and insulated suits to survive the high daytime surface temperatures and intense RAD/2-7 solar radiation on BrightSide. During solar storm activity, RAD/10-12 levels can be attained. Molten metals with low melting points (lead, for example) can be encountered in pools or under thin crusts in BrightSide equatorial regions. Seismic activity is sometimes intense (Richter 5,0-6,5),

SOL II (VENUS): Type 15 High Pressure and High Temperature Planet at 360 LS (0.72 A.U.) with a year 225 Terran days long. The day on Sol II is 243 Terran days in length. Temperature is 485°C. Atmosphere is under pressure of 90 Terran atmospheres (68,500mm), with 97% CO2 and sulphuric acid at Corrosion Index 09% hourly on unspecialized equipment. Diameter is 12,000 km and surface gravity is 0.87 G. Surface conditions are exceedingly hazardous and no equipment currently known can withstand Venusian conditions for more than 50 hours before breakdown probabilities arise. No life forms have been detected.

SOL III (TERRA): Type 1 Standard Terran Planet at 500 LS (1.00 A.U.) with a year of 365.25 days. The day is 23 hours and 56 minutes. Temperature range is -75° C to 65° C, with relatively mild climatic conditions over a major portion of the surface of the planet. Atmosphere is Terran Standard with few significant contaminants, Hydrosphere is 78% which gives 6 continents, 1 sub-continent, and numerous islands. Humidity and precipitation are Terran norms.

StarNationality Capital Planet of the United Federation of Planets and the High Republic of the Terran

Union. Sentient Race Humanity

Population 5,000,000,000 humans and other races (as

minorities)

Tech Level Tech/10+

StarPort Rating UFP StarPort AAAAA x5 Class 1 (Tech/10+)

Social Organization Open Society: Socio-Technic Culture

Societal Strength 10 Xeno Acceptance 01%

Government Type Confederacy (UFP); Republic(Terran Union) Government Support 40% (UFP); 50% (Terran Union) (vote = 59%)

Loyalty Index 90% (revolt = 10%)

Repression Index 04%

Bureaucracy Level High (UFP); Moderate (Terran Union) 01% (UFP); 08% (terran Union) Corruption Level

Law Level 16-17

Economic Rating Very Rich Industrial **Gross Productivity** MCR 125,000,000

Per Capita Income CR 25,000

Tax %/Levy 30% = MCR 37,500,000 Military Spending 20% = MCR 25,000,000

Major Exports starships, machine tools, all parts, factory

equipment, vehicles, aircraft, military equipment, armaments, polytextiles, general tools,

misc. equipment,

Major Imports food, furs, liquor, wines, luxury goods, all

metals, gems, petrochemicals, industrial chemi-

cals, textiles Free Trade Policy

Trade Restrictions 90%

Trade Acceptance

Terra is a truly cosmopolitan society, with almost every race and planet in the Federation present on Terra. The bulk of the population lives in superbly designed urban complexes with attractive landscaping, parks, and recreational areas throughout even the most densely populated regions. The rural countryside is equally pleasant, with large areas of wilderland as well as vast high-technology farming complexes.

There are no longer any true wilderness areas on Terra. Most wildlife is of the relatively harmless variety, although smaller carnivores are allowed to roam quite freely to control animal populations. The dangerous carnivores and large grazers (lions, tigers, elephants, rhinos, etc.) are all in zoos or designated game preserves. The natural habitat is regarded as the heritage of all humanity, and it is protected by severe penalties for unlicensed hunting or vandalism.

Few in the Terran society can be considered needy or vocationally disadvantaged. Using the most advanced of educational techniques, citizens can attain at least a minimum level of expertise in a field for which they have some aptitude and liking, and salaries are equal to the task of providing a reasonably comfortable and secure living. There is rarely a surplus of labor either, for Terra is the chief manufacturing center of the whole Federation and also the Arsenal for its armed forces. Only about 04% of the population is genuinely dissatisfied with its lot and must be watched and occasionally restrained from excessive behavior. Society as a whole determine the limits of advancement for any individual by merit and expertise, so that it is a classless society. It is not for accidents of birth to provide more than an entry to opportunity for the individual, but educational and experience credentials do the

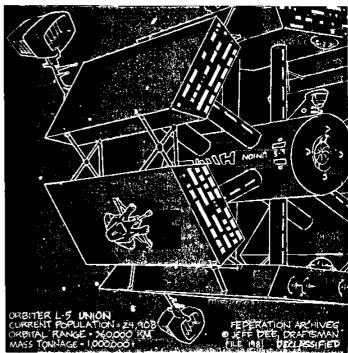
The political situation on Terra reflects the split in Terran thinking almost from the moment humanity went to the stars. The governing Federation Party enjoys a 59% majority, and the opposition Unionist Party 41%. The Federation Party supports the concept of UFP fully, arguing that all member planets and races must have a say in which direction the Federation will take. The Terran-oriented Unionists hold that Terra should be the dominant force, and it is whispered that the more radical elements desire the formation of a Terran Empire, pure and simple. Should a major crisis occur which removes from office the Federation Party, a revolt determination indicates that the radicals have gained control of the Unionist Party and will declare the Empire. Such an act could well destroy the Federation and bring a general civil war, as each planet of the Federation will be placed under extreme crisis conditions and must vote to follow or not. In that instance, the revolt index of each planet (including Terra), represents the percentage of the population that will actively resist the Empire.

All sociological and economic factors apply for the entire Solarian System, except for the general Economic Rating, which determines buy and sell factors,

SOL III (LUNA): Airless satellite of Terra at 1.275 LS (382,500 km) from Terra. It orbits Terra each 27.32 days and rotates so that the same face always faces Terra. Temperatures range from 145°C (darkside) to 105°C (brightside). Diameter is 3475 km and surface gravity is 0.175 G. The Lunar Republic is a member of the High Republic of the Terran Union and is also a full member of the Federation. The population is 50,000,000 in 41 domed cities and 570 smaller communities and mining sites. Chief exports are food and industrial metals. Chief imports are parts, general equipment, misc. tools, xeno-vehicles. Luna is rated at a Very Rich Agricultural area, but it has a strong industrial (mining and manufacturing) base as well. Tycho Naval StarBase is an AAAAA x5 installation, one of the strongest in the Federation.

SOL III-L5: 18 high-orbit space cities at 1.20 LS (360,000 km) from Terra orbit the planet each 25 days, Gravity is artificial and ranges from 0.35 G to 1.00 G. The L-5 colonies together form the Orbital Republic of High Terra and are members of the High Republic of the Terran Union and have Associate Member status in the Federation, Population is 500,000. Chief Exports are high-tech products and starships. Chief Imports are raw materials, power metals, wines and luxury goods. The L-5 colonies are rated as Very Rich Industrial communities, but they have the capacity to provide for most of their food requirements through intensive hydroponic farming. Each of the L-5s is now fitted out as an Orbital Fortress with battleship firepower and can maneuver at 5 LS speeds under low power TISA drive. On occasion, one of these orbiting factory/fortress cities will warp out to the asteroid belt for intensive smelting operations. (An L-5 is about 5 km x 0.5 km and has a

mass equivalent of 1,000,000t, though its volume is about 1 cubic kilometer, with a population of about 25,000 permanent inhabitantts and room for up to 50,000.) the colonies are:



L-5 O'Neill L-5 Copernicus L-5 Doppler L-5 Alliance L-5 Brahe L-5 Hale 1 -5 Lowell L-5 Constitution L-5 Keppler L-5 Confederation L-5 Flammarion L-5 Pickering L-5 Union L-5 Messier L-5 Schmidt L-5 Galileo L-5 Shapley L-5 Washington

SOL IV (MARS): Type 14 Low Pressure Planet at 760 LS (5.07 A.U.) with a year of 1.88 Terran years and a day of 24 hours and 37 minutes. Temperature range is -100°C to 25°C. The atmosphere is 75mm pressure, chiefly CO₂. Diameter is 6800 km and surface gravity is 0.38 G. Mars is a member of the High Republic of the Terran Union and an Associate Member of the UFP, Population is 100,000,000 in 116 domed cities and over 500 smaller communities. Chief Exports are heavy equipment and armaments. Chief Imports are high-tech parts, food, wine, luxury goods. Mars is classed as a Very Rich Industrial Planet. It is one of hte most important Arsenal Planets of the Federation , and an AAAAA x2 Class 1 Naval StarBase is located at Nix Olympica. Deimos and Phobos, the Martian moons, are fitted as battleship class Orbital Fortresses.

SOLARIAN ASTEROID BELT: 150,000 planetoids of 1 km diameter or larger at an average of 1500 LS (3.00 A.U.) from Sol. They orbit the primary for a year of approximately 5,20 Terran years. Temperature is -145°C. Gravity is minimal, but the largest approach 0.05 G. Population is 500,000 in the domed cities of Pallas, Ceres and Vesta and in many small mining sites. Chief Exports are collapsium, industrial metals, gold, silver, and platinum. Chief Imports are food, wine, liquor, mining and misc. equipment and parts. The Belt is a Very Rich Industrial (Mining) area with a decided Wild West flavor because of the gold rush nature of life in the asteroids.

SOL V (JUPITER): Type 20 Gas Giant at 2600 LS (5.20 A.U.) from Sol with a year of 11.86 Terran years. Each day is 9 hours and 51 minutes long. The temperature in the upper atmosphere is -130°C and the atmosphere is composed of Hydrogen, Helium, Methane and small amounts of other gases at incredible pressures. The planetary diameter is 140,000 km and gravity is 2,54 G. Jupiter is a ptted star that never quite ignited, for it is slightly under the minimum mass requirement for stellar birth beyond the prot-star stage. There are huge life forms in the upper atmosphere, notably the vast Jovian Medusa and the delta-shaped Manta Shark. The environment is hostile because of the immense pressures even in the high atmosphere. Experimental operations have been conducted at high altitude by balloon-hydrox aerospace craft armored by DDKDX forcefields, but it is not expected that any permanent bases can ever be established on such a planet. Jupiter has nine major satellites, two of which are Terraformed.

SOL Viv (GANYMEDE): Terraformed satellite of Jupiter, it is a Type 1 Terran Planet with an orbit at 2.20 LS (660,000 km) from Jupiter and a 7.15 day revolution. Each day is 33 hours and 16 minutes. The temperature ranges from -25°C in winter to 25°C in summer with a managed climate. The atmosphere is Terran at 450mm and 02 at 150mm. Diameter is 5150 km for a surface gravity of 0.30 G. Hydrosphere of 48% is in carefully arranged patterns of lakes and small seas to give the required humidity and precipitation levels. Population is 75,000,000 in 87 cities and over 5000 smaller communities. Chief Exports are food, textiles, and luxury goods. Chief Imports are parts, general tools, misc. equipment and vehicles. Ganymede is rated as a Very Rich Agricultural area. It has member status in both the Terran Union and the UFP.

SOL Vv (CALLISTO): Terraformed satellite of Jupeter for a Type 1 Terran Planet. Its orbit is at 6.275 LS (1,882,500 km) from Jupiter with a 16.7 day revolution. The day is 25 hours and 17 minutes. Temperature ranges from -25°C in winter to 25°C in summer with a managed climate. Atmosphere is Terran with 550mm and 02 at 175 mm. Diameter is 5175 km for a gravity of 0.31 G. The hydrosphere is 52% in carefully prepared patterns of lakes and small seas for required precipitation and humidity levels. Population is 50,000,000 in 73 cities and in over 5000 smaller communities. Chief Exports are food, textiles, luxury goods, poer metals. Chief Imports are parts, general tools, misc, equipment and vehicles. Callisto is rates as a Very Rich Agricultural area. It has member status in both the Terran Union and the United Federation of Planets.

SOL VI (SATURN): Type 20 Ringed Gas Giant at 4480 LS (1334 million km) from Sol with a year equal to 29,46 Terran years. A day is 10 hours and 14 minutes. Surface temperatures are approximately -175°C in a Jovian type atmosphere with incredible pressures. The diameter of the planet is 105,000 km for a gravity of 1.16 G. There are plans for operations to be conducted in the upper atmosphere of Saturn as described for Jupiter. No life forms have been discovered. Saturn has 10 moons, one of which is Terraformed.

SOL VIvii (TITAN): Terraformed satellite of Saturn to create a Type 1 Terran Planet with an orbit 2.50 LS (750,000 km) from Saturn and a 15.95 day revolution, Each day is 28 hours and 30 minutes, Temperature on Titan ranges from -25°C to 25°C in summer with a managed climate. The atmosphere is Terran at 550mm pressure, with 02 at 150mm. Diameter of Titan is 5800 km for a gravity of 0.38 G. The hydrosphere is 50% in carefully arranged patterns of lakes and small seas to give the required precipitation and humidity levels. The population is 50,000,000,

SOL VII (URANUS): Type 20 Gas Giant at 9150 LS (18.3 A.U.) for a year that is 84,01 Terran years long. Each day is 23 hours. The temperature on Uranus is approximately -200°C in a Jovian type huge pressure atmosphere. The planetary diameter is 51,500 km for a surface gravity of 1.12 G. No life forms have been discovered. There ere five satellites.

SOL VIII (NEPTUNE): Type 20 Gas Giant at 15,000 LS (30.0 A.U.) from Sol with a year that is 164.8 Terran years long. Temperatures are near -220°C in a Jovian type atmosphere with high pressure. Planetary diameter is 49,250 km for a surface gravity of 1,18 G. No life forms have been detected. Neptune has two satellites.

SOL IX (PLUTO): Type 18 Airless Distant Planet at 20,000 LS (40.0 A.U.) from Sol. Each year is 248.4 Terran years long. The temperature approaches -250°C and the atmosphere is frozen with extensive oxygen and nitrogen. The diameter is 5900 km for a surface gravity of 0.50 G. Surface conditions are extremely hazardous and untrained personnel may experience difficulty. Pluto is the site of Tombaugh Outpost, an AAAAA Class 1 StarBase and Scientific Research Outpost with an estimated 50,000 personnel.

SOL X (SPECTRE): Type 18 Airless Distant Planet at 27,000 LS (54.0 A,U,) from Sol. The year is 396.8 Terran years long. The temperatures on Spectre reach -265°C. Diameter is 4000 km and gravity is 0.34 G. Spectre is the advanced base of the StarFleet Command. The region for 7500 LS around is interdicted and heavily patrolled. Any vessel approaching Spectre will be hailed and, if it does not immediately heave to, shall be fired upon. StarFleet Headquarters is an AAAAA x 10 Class 1 StarBase with an estimated 500,000 personnel and very heavy planetary defense armaments.

THOTH IV =

StarSystem Coord. 2.AA.-40 Terran Sector GSC 14,JJ,+000 Stellar Primary M7iv subgiant star FTL Conversion 20,000 LS Planets in System 8

THOTH IV Type 14 Terran Ice Planet: 1 large moon **Orbital Distance** 1500 LS (3.00 A.U.)

Length of Year 2.12 Terran years Length of Day 52 hours 17 minutes Planetary Diameter 13,000 km Surface Gravity 1.00 G (dense) Temperature Range -100°C to 20°C

Atmosphere Type Terran: 900mm (dense), with 02 at 175mm

(normal). Weather is characteristically stormy and savage.

Hydrosphere Type 79% = all seas frozen and vast ice caps overlying all land surfaces.

UFP Outpost (Procyon colonists) StarNationality MekPurr Feline Colonials Sentient Race

Population 50,000 MekPurrs/500,000 Meks Tech Level Tech/10+ MekPurr StarPort B Class 2 (Tech/10+)

StarPort Rating Social Organization Open Society Societal Strength 10

Xeno Acceptance 09% MekPurr Feudal Aristocracy Government Type

Government Support 80% (vote = 66%) Loyalty Index 96% (revolt = 01%)

Repression Index 01%

Bureaucracy Level Minimal, very efficient

Law Level 1-5

Economic Rating Rich Agricultural **Gross Productivity** MCR 3750

Per Capita Income CR 7500/Mek = CR 75,000/MekPurr

Tax %/Levv 50% = MCR 1500 Military Spending 40% = MCR 1500

Major Exports luxury foods, furs, gems, silver, gold, platinum

Major Imports parts, vehicles, armaments Trade Restrictions Free Trade Policy

Trade Acceptance 25%

Thoth IV was established as a MekPurr colony in 2345 by Procyon MekPurrs, immediately after the defeat of the Hiss in the Land Grab of 2309-2338. The colony is, strangely enough, devoted to agricultural pursuits, with luxury foods grown in automated hydroponic complexes (10.d10% profit on resale, in addition to usual returns). In addition, wholesale transplantations of animal and plant life from Alphard (Alphari Cave Bear), Leonidas (Leonidan SnowCaat, Thaurruf, Akka Tharrlu, Tekka Nu, M'Raaugh, Torsaurgh), 36 Ophiuchi (IceWolf) have been made to provide a good representation of fine fur-bearing animals with some sporting value. In all, over 17,000 species were transported to Thoth IV to put some life into the previously desolate world.

See notes on Procyon V and Baast III for other details on MekPurr culture and society.

VEGA V

StarSystem Coord. 6.FF.+17 Terran Sector GSC 14.JJ.+000

Stellar Primary AOv main sequence star FTL Conversion 10,000 LS

Planets in System 10

VEGA V Type 1 Terran Standard Planet: 2 moons

Orbital Distance 4000 L\$ (8.00 A.U.) 7.99 Terran years Length of Year Length of Day 24 hours 06 minutes Planetary Diameter 12,000 km Surface Gravity 1,00 G (dense) Temperature Range -85°C to 75°C

Atmosphere Type Terran: 900mm, with 02 at 200mm (rich).

Severe winter storms in higher latitudes,

Hydrosphere Type 80% = 9 minor continents and numerous islands and island archepelagoes.

UFP Member Planet

StarNationality

Human Colonials Sentient Race 500,000,000 humans Population

Tech Level Tech/10

UFP StarPort AAAAA x2 Class 1 (Tech/10+) StarPort Rating

Social Organization Open Society

Societal Strength 04% Xeno Acceptance Government Type Republic 40% (vote = 70%) Government Support Loyalty Index 90% (revolt = 01%)

Repression Index

Moderately high, with much red tape Bureaucracy Level

Corruption Level 14-15 Law Level

Economic Rating Very Rich Agricultural MCR 75,000,000 **Gross Productivity** Per Capita Income CR 15,000

15%

30% = MCR 22,500,000 Tax %/Levy Military Spending 20% = MCR 15,000,000 **Major Exports** food, wines, luxury goods

vehicles, aircraft, parts, misc, equipment Major Imports 10% duty on agricultural products Trade Restrictions

Trade Acceptance 75%

Vega V is a pleasant agricultural planet colonized in 2099 by Terrans from the old North American Federation. The planet has prospered as a prime supplier of food, luxury goods, and petrochemicals to Terra and the other industrial worlds of the Home Planets.

Life on Vega V is rather staid and ultra-conservative, with tradition playing an important part in the lives of the inhabitants, However, the Vegans greatly value individual freedom and have contributed greatly to the defense of the ideals for which the Terran Union and now the Federation stand. Vegan contingents represent a good portion of the StarForces of the UFP and have fought valiantly in every conflict threatening the security of humanity and its allies,

VISHNU II

Hydrosphere Type

StarSystem Coord, 5.HH.+60 Terran Sector GSC 14.JJ.+000

Stellar Primary G2v main sequence star FTL Conversion 10,000 LS

Planets in System

VISHNU II Type 1 Terran Standard Planet: 0 moons

Orbital Distance 165 LS (1.10 A.U.) Length of Year 1.18 Terran Years Length of Day 26 hours 35 minutes

Planetary Diameter 8000 km Surface Gravity 0.68 (dense) Temperature Range -65°C to 50°C

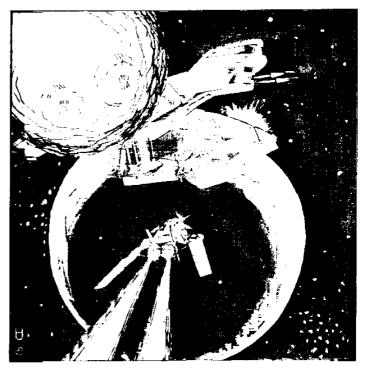
Terran: 650mm (slightly thin), with 02 at Atmosphere Type

150mm. Colder winters than on Terra. 75% = 7 continents and several large island

archepelagoes. Adequate humidity and pre-

cipitation.

StarNationality UFP Affiliate: Indpendent Lost Colony



Sentient Race **Human Colonials** 250,000 humans Population Tech Level Tech/3

StarPort Rating Vishnu D landing ground, no facilities

Social Organization **Aristocratic Society** Societal Strength

25% Xeno Acceptance Government Type Feudal

20% (vote = 55%) Government Support 58% (revolt = 30%) Lovalty Index

Repression Index 45% Bureaucracy Level Minimal Corruption Level 18% Law Level 14-15

Economic Rating Poor Agricultural **Gross Productivity** MCR 93.75 Per Capita Income CR 375 30% = MCR 28 Tax %/Levv Military Spending 20% = MCR 18.75 Major Exports

food, furs, gold, silver, gems general tools, misc. equipment Major Imports

Trade Restrictions 15% import duty

Trade Acceptance 30%

Little more is currently known about Vishnu II, other than the minimal facts listed above. The planet was rediscovered in 2549 and has not yet been thoroughly surveyed by a Contact Service team.

STARLINES OF THE TERRAN SECTOR

Many of the planets in the Terran StarSector are linked by major Star-Ship lines. The following schedules present the routes followed and the usual tariffs for passengers and cargo, In addition to the major Star-Lines, a considerable number of small companies offer service over the same routes, often between only a few planets and at rates 10-30% higher. However, bookings on the major StarLines are generally full (20% chance of a berth in any category), so one of the minor lines will often have to be taken.

Boarding fees are paid at the start of a starvoyage and do not have to

be paid again if a passenger is transshipping from one vessle or StarLine to another:

High Passage Boarding Fee											CR 2	250
Middle Passage Boarding Fee											CR 1	25
Low Passage Boarding Fee											, CR	75
ColdSleep Boarding Fee		,									, CR	50

Passenger rates vary considerably, depending upon the StarLine and the destination, as numerous contracts are held by many of the StarLines with planets along their routes to keep the rates down.

TRANS-GALACTIC STARLINES

Trans-Galactic is the largest StarLine in the Federation. Owned and operated by the Federation government, Trans-Galactic offers frequent flights to many of the Home Stars, depending upon the size of the planetary populations. Trans-Galactic vessels are all large, well-crewed, and superbly appointed HighLiners massing 100,000t or more. Accomodations and cuisine are excellent. The typical cruising speed is 12 LY per day. Fares and cargo tariffs are surprisingly low, typically discounted 25-33% from full rates because of government subsidies, numerous planetary contracts, and the generally high volume of traffic.

Trans-Galactic also offers InterSector service to other StarSectors from Terra. The fares and cargo tariffs are no as heavily subsidized by the

Federation government, although subsidies do exist to encourage the maximum in interstellar trade and commerce, and to assist businessmen and colonists:

InterSector High Passage CR 10,000 plus CR 200 per LY over 200
InterSector Middle Passage: CR 5000 plus CR 100 per LY over 200
InterSector Low Passage CR 3000 plus CR 60 per LY over 200
InterSector ColdSleep CR 2000 plus CR 30 per LY over 200
Cargo Rates
Bulk Cargo Rates
Federation Veterans2% x years of service for fare/cargo*

^{*} To a maximum of 40% discount for fares or 20% discount for cargo.

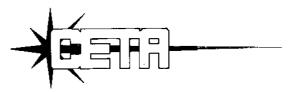


OT A BOOKINGCTION	DISTANCE	FAR	ES& CARG	D RATES	TON (CR)
STARCONNECTION	DISTANCE	HIGH	MIDDLE	LOW	COLD	CARGO
T (D	12 LY	2000	1000	600	400	320
Terra/Procyon	10 LY	1675	840	500	335	270
Procyon/Sirius	09 LY	1500	750	450	300	240
Sirius/Terra	05 L 1					
Tama/Tau Cati	12 LY	2000	1000	600	400	320
Terra/Tau Ceti Tau Ceti/40 Eridani	12 LY	2000	1000	600	400	320
40 Eridani/Sirius	10 LY	1675	840	500	335	270
	09 LY	1500	750	450	300	240
Sirius/Terra	05 2 1					
Tau Ceti/Altair	16 LY	2680	1340	800	535	430
Altair/Rigil Kentaurus	20 LY	3350	1675	1000	665	540
Altali/Algii Kelitasios	20 2	_				
Terra/Altair	15 LY	2500	1250	750	500	400
Altair/Formalhaut	16 LY	2680	1340	800	535	430
Formalhaut/Caph	52 LY	8700	4350	2600	1740	1390
Caph/82 Eridani	55 LY	9200	4600	2750	1840	1470
82 Eridani/Tau Ceti	12 LY	2000	1000	600	400	320
Tau Ceti/Altair	16 LY	2680	1340	800	535	430
1 au Ceci/Aitair	, , , ,					
Aftair/70 Ophiuchi	08 LY	1340	670	400	265	210
70 Ophiuchi/Vega	18 LY	3000	1500	900	600	480
Vega/Sura	48 LY	8000	4000	2400	1600	1280
Sura/Alphecca	45 LY	7500	3750	2260	1500	1200
Alphecca/Hathor	24 LY	4000	2000	1200	800	640
Hathor/Ptah	26 LY	4350	2175	1300	870	695
Ptah/Avatar	62 LY	10380	5190	3100	2075	1660
1 tany Avaitar						
Terra/Vega	28 LY	4680	2340	1400	930	750
Terra/Rigil Kentaurus	04 LY	670	335	200	135	105
Rigil Kentaurus/36 Ophiuchi	18 LY	3000	1500	900	600	480
36 Ophiuchi/Arcturus	20 LY	3350	1675	1000	665	540
Arcturus/Denebola	25 LY	4180	2090	1250	835	670
			_			****
Terra/Helios	43 LY	7200	3600	2150	1440	1150
Helios/Maat	33 LY	5500	2750	1650	1100	880
Maat/Baast	30 LY	5000	2500	1500	1000	800
Baast/Attar	20 LY	3350	1675	1000	665	540
				4655	000	
Maat/Set	24 LY	4000	2000	1200	800	640
Set/Thoth	49 LY	8200	4100	2450	1640	1300
				0750	0500	2000
Terra/Leonidas	75 LY	12500	6250	3750	2500	880
Leonidas/Marathon	33 LY	5500	2750	1650	1100	880

CETA STARWAYS

Ceta StarWays is a well-established StarLine offering weekly starflights between most points on its routes. Ceta StarLiners are large and very comfortable. Interconnecting starflights are available with Trans-

Galactic at Set and Attar, and with Mira Lines at Ankaa. Ceta Star-Ways specializes in bulk cargo haulage and colonial passenger service, but its spacious vessels boast luxurious First Class accommodations and superb cuisine. Average cruising speeds are about 10 LY.



STARCONNECTION	DISTANCE	FA	RES & CARO	O RATE	S/TON (CF	t)
•		HIGH	MIDDLE	LOW	COLD	CARGO
Tau Ceti/Ankaa	81 LY	15180	7590	4550	3000	2400
Ankaa/Archenar	36 LY	6750	3400	2000	1350	1080
Archenar/Canopus	85 LY	15900	8000	4780	3175	2550
Canopus/Set	47 LY	8800	4400	2600	1750	1400
Ankaa/Minerva	41 LY	7650	3825	2300	1530	1200
Minerva/Mara	59 LY	11000	5500	3300	2200	1750
Mara/Stator	80 LY	15000	7500	4500	3000	2400
Stator/Hyperion	33 LY	6180	3090	1850	1220	990
Hyperion/Kephre	36 LY	6750	3400	2000	1350	1080
Kephre/Attar	85 LY	15900	7950	4750	3150	2550

Ceta offers -10% veteran discounts to ex-Federation service personnel for fares and cargo. Bulk cargo over 100t also receives -20% discounts.

MIRA LINE

The Mira Line offers regular weekly service between most points on its routes. Interconnecting starflights with Trans-Galactic are available at Castor. The Mira Line maintains large, well-armed merchant cruise-liners of 25,000t, with crews composed largely of former Federation service personnel. Colonial Low Passage and bulk cargo rates are comparable to the best offered anywhere, while High and Middle Passage accomodations are famous for their sumptuousness. The food at all levels is the incomparable haut cuisine of Mira, Average cruising speeds are around 15 LY.



STARCONNECTION	DISTANCE	FA	RES & CAR	O RATE	S/TON (CF	R)
		HIGH	MIDDLE	LOW	COLD	CARGO
Castor/Capella	14 LY	2650	1325	780	525	420
Capella/Talos	100 LY	18750	9375	5625	3750	3000
Talos/Menkaar	46 LY	8600	4300	2550	1725	1380
Menkaar/Mira	34 LY	6180	3090	1850	1220	990

Mira offers -20% discounts for veterans of the Federation service for both fares and cargo. Mercenaries with contracts for service in the Mira Worlds (Mira, Menkaar, Talos) receive 50% discounts in all levels of accompdation and for all military cargo.

VEGA LINE

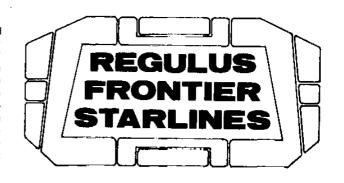
The Vega Line offers regular flights to all points, with interconnecting starflights with Trans-Galactic at Vega, Sura, and Arcturus. The Vega Line is a subsidiary of Trans-Galactic, acquired when Vegan High-Lifters Inc. went bankrupt in 2536. Average cruising speeds are around 10 LY.



STARCONNECTION	DISTANCE	HIGH	MIDDLE	LOW	COLD	CARGO
Terra/Vega	28 LY	4680	2340	1400	930	750
Vega/Sura	48 LY	8000	4000	2400	1600	1280
Sura/Arcturus	75 LY	13120	6560	3900	2620	2000
Arcturus/Terra	36 LY	6300	3150	1880	1250	965
Vega/Markaab	122 LY	21350	10675	6400	4200	3250
Markaab/Mitra	113 LY	19750	9875	5900	3900	3000
Mitra/Vega	102 LY	17850	8925	5350	3500	2700

REGULUS FRONTIER STARLINES

The Regulus Line is an aggressive and fast-growing co-operative formed by independent colonial starservices that combined to increase their resources and service. Most vessels are small corvettes and 'tramp' starships, but the crews are generally competent and courteous. Side trips booked through the Regulus Line can be arranged at handsome discounts (-10-60% of standard rates) and a good list of picked Free Traders is available for such trips. Regulus boasts that it can get a passenger anywhere in the region at the best prices, which is true because it has excellent relations with the Regulian frontier starservices. Interconnecting starflights are available with Trans-Galactic at Denebola and Ptah. Average cruise speeds are 10-12 LY per day, but a few fast 18 LY corvettes are available at +10% cost to fares and cargo tariffs.



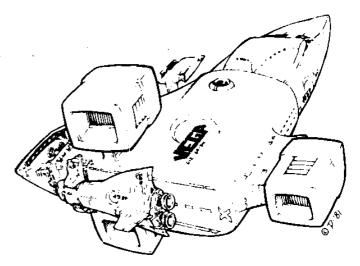
STARCONNECTION	DISTANCE	HIGH	MIDDLE	LOW	COLD	CARGO
Denebola/Regulus	48 LY	9000	4500	2700	1800	1440
Regulus/Asterion	23 LY	4300	2150	1290	850	690
Asterion/Alphard	32 LY	6000	3000	1800	1200	960
Alphard/Regulus	34 LY	6350	3175	1900	1275	1020
Regulus/Marathon	37 LY	6900	3450	2080	1380	1100
Marathon/Ra	43 LY	8060	4030	2400	1600	1290
Ra/Horus	18 LY	3350	1675	1000	675	540
Denebola/Osiris	35 LY	6560	3280	1950	1300	1050
Osiris/Dardanus	32 LY	6000	3000	1800	1200	690
Dardanus/Ptah	34 LY	6350	3175	1900	1275	1020
Ptah/Anubis	29 LY	5400	2700	1630	1085	870
Anubis/Aten	15 LY	2800	1400	840	560	450
Aten/Denebola	41 LY	7680	3840	2300	1525	1200

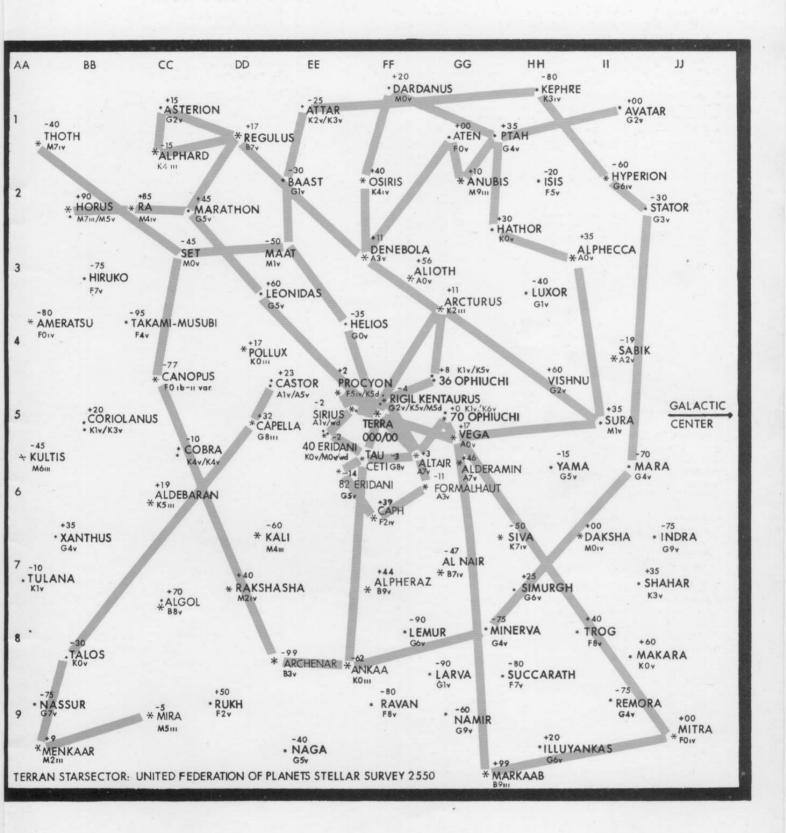
FREE TRADERS

Free Traders are operating from virtually every planet associated with the Federation. Most of these vessels are 'tramp' starships with average speeds of 6-10 LY per day, but some are trade corvettes in good condition and capable of 12-18 LY per day. Rates are based on the direct-line distance between the StarPort of embarkation and the destination, as occasional side trips and diversions will be made because of trade commitments. Rates are:

High Passage	٠		٠		•	,			,	٠	,	,	,				,		.CR 250 per LY
Middle Passage.																			.CR 125 per LY
Low Passage,.	,																	,	, CR 75 per LY
ColdSleep		٠						,											. CR 50 per LY
Cargo		,							,							CI	7	4	0 per LY per ton

Discounts of 2.d10% can be obtained 50% of the time. If booked in the Regulian region through Regulus Frontier Starlines, 6.d10% discounts can be arranged. Discounts are based on there being no more than one side trip. If more than one planet will be visited before reaching the passenger's destination, no discount will be given. Rarely will there be more than two planets intervening.





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