GURPS Space

advanced world-building sequence system summary page

| | Universe number 1 System number | | | | | | 60 max. habitabi max. affir | | | | | lity hity | 8 9 | |
|----------|------------------------------------|----------------------|------------------------|--------|-----------------|------------|--------------------------------|------------------|------|---------|----------|--------------|--------|--------------|
| | Name of star | | | | Epsilon Eridani | | | | | | | | | |
| | | L | system number | 60 | | | | | | | | | | |
| | | | class of star | GG | v | | | | | | | | | |
| | | | | | • | M(co | D. | | | | | | | |
| | mass Juminosity | | | 0.4 | 81 | |) | | | | | | | |
| | | | 0.8 | - | billior |) vears | | | | | | | | |
| | | | diameter | 0.0 | 07 | a.u. | ., | | | | | | | |
| | | orhit | | 1 | | | | | | | solar | | | |
| | ID # | radius | would true | size | mass | g | at magn have | hydrographia | temp | alimata | dav | ш | Σ | Ŝ |
| row | ID # | (au) ^{(10,} | world type | (Earth | (Earth | (Earth | atmosphere | nyurographics | (C) | cimate | (hours) | пі | R I | And a second |
| number | т | $(u.u.)_{kn}$ |) madium aga giant | dia.) | masses) | g.) | superdense corrective | | (0) | | (nours) | | | Ŷ |
| 1 | 1 11 | 0.09 | medium gas giant | 12 | 250 | 2.0 | superdense corrosive | | | | infinite | | | |
| 2 | | 0.41 | standard garden planet | 0.03 | 230 | 2.3 | standard breathable | 73% water | 17 | normal | 23.6 | Q | 1 | 0 |
| 4 | IIIa | 0.07 |) tiny rock moon | 0.93 | 0.04 | 0.97 | none | 7570 Water | 1/ | chilly | 882 | o | 1 | 9 |
| 5 | IV | - | medium gas giant | 11 | 350 | 28 | superdense corrosive | | 1 | cinity | 50.8 | U | 1 | 1 |
| 6 | 1 7 | 1.1 | 2 moonlets | 11 | 550 | 2.0 | superdense corrosive | | -63 | frozen | 50.0 | 0 | _1 | -1 |
| 7 | IVa | 4 | 3 tiny rock moon | 0.35 | 0.03 | 0.25 | none | | -63 | frozen | 41.6 | -1 | 0 | -1 |
| 8 | IVh | 4 | 9 small rock moon | 0.51 | 0.08 | 0.31 | none | | -65 | frozen | 50.8 | -1 | 0 | -1 |
| 9 | IVc | 5 | 7 tiny rock moon | 0.16 | 0.00 | 0.13 | none | | -63 | frozen | 63.4 | 0 | -1 | -1 |
| 10 | IVd | 6 | 5 tiny rock moon | 0.21 | 0.01 | 0.15 | none | | -63 | frozen | 77.5 | 0 | 0 | 0 |
| 11 | IVe | 7 | 4 small rock moon | 0.45 | 0.08 | 0.36 | none | | -65 | frozen | 94.7 | -1 | 0 | -1 |
| 12 | | | 1 moonlet | | | | | | -63 | frozen | | 0 | 0 | 0 |
| 13 | V | 1.9 | tiny rock planet | 0.22 | 0.01 | 0.15 | none | | -112 | frozen | 16.7 | 0 | -1 | -1 |
| 14 | | 2.9 | asteroid belt | | | | | | -141 | frozen | | 0 | -1 | -1 |
| 15 | VI | 4.9 | medium gas giant | 10.0 | 200 | 2.0 | superdense corrosive | | | | 39.0 | | | |
| 16 | | | 4 moonlets | | | | | | -172 | frozen | | 0 | 1 | 1 |
| 17 | VIa | 6 | small ice moon | 0.34 | 0.02 | 0.20 | very dense mildly toxic | 50% hydrocarbons | -163 | frozen | 99.8 | -1 | 0 | -1 |
| 18 | VIb | 7 | 2 standard ice moon | 0.45 | 0.09 | 0.45 | very thin suffocating | | -167 | frozen | 119 | -1 | 0 | -1 |
| 19 | VIc | 7 | 9 small ice moon | 0.46 | 0.04 | 0.18 | very dense mildly toxic | 60% hydrocarbons | -164 | frozen | 137 | -1 | 0 | -1 |
| 20 | VId | 8 | tiny sulfur moon | 0.13 | 0.00 | 0.05 | none | | -193 | frozen | 161 | -2 | 1 | -1 |
| 21 | Vle | 10 | 0 tiny ice moon | 0.16 | 0.00 | 0.06 | none | | -184 | frozen | 195 | 0 | 0 | 0 |
| 22 | VII | 1. | 1 tiny ice moon | 0.19 | 0.00 | 0.08 | none | | -184 | frozen | 229 | 0 | 0 | 0 |
| ∠3 24 | 1/11 | 7.0 | ∠ moonlets | 2.0 | 15 | 1.0 | superdense corrective | | -1/2 | irozen | 171 | U | U | U |
| 24 | VII | 7.9 | 7 moonlets | 3.9 | 15 | 1.0 | superdense corrosive | | 102 | frozen | 1/.1 | 0 | 0 | 0 |
| 25 | VIIa | 3 |) tinvice moon | 0.26 | 0.01 | 0.10 | none | | -195 | frozen | 177 | 0 | 0 | 0 |
| 20 | VIIh | 5 | tiny ice moon | 0.20 | 0.01 | 0.10 | none | | -202 | frozen | 264 | 0 | 0 | 0 |
| 28 | VIIc | 6 | 5 tiny ice moon | 0.21 | 0.00 | 0.10 | none | | -202 | frozen | 376 | 0 | 1 | 1 |
| 29 | | | 6 moonlets | | | | | | -193 | frozen | | 0 | 1 | 1 |
| 30 | VIII | 13 | small gas giant | 3.9 | 15 | 1.0 | superdense corrosive | | | | 87.3 | | | |
| 31 | | | 8 moonlets | | | | | | -212 | frozen | | 0 | 1 | 1 |
| 32 | VIIIa | 2 | 5 standard hadean moon | 0.49 | 0.06 | 0.25 | none | | -231 | frozen | 87.3 | 0 | 0 | 0 |
| 33 | VIIIb | 3 | 2 tiny ice moon | 0.20 | 0.00 | 0.10 | none | | -219 | frozen | 130 | 0 | 1 | 1 |
| 34 | VIIIc | 4 | small hadean moon | 0.31 | 0.02 | 0.18 | none | | -231 | frozen | 185 | 0 | 0 | 0 |
| 35 | | | 3 moonlets | | | | | | -212 | frozen | | 0 | -1 | -1 |
| 36 | IX | 23 | small gas giant | 3.9 | 15 | 1.0 | superdense corrosive | | | | 15.5 | | | |
| 37 | | | 11 moonlets | | | | | | -226 | frozen | | 0 | 0 | 0 |
| 38 | IXa | 3 | 5 tiny ice moon | 0.13 | 0.00 | 0.05 | none | | -231 | frozen | 145 | 0 | -1 | -1 |
| 39 | IXb | 5 | tiny ice moon | 0.20 | 0.00 | 0.10 | none | | -231 | frozen | 321 | 0 | 0 | 0 |
| 40 | | | 3 moonlets | | | | | | -226 | frozen | | 0 | 0 | 0 |

GURPS Space Idvanced world-building sequence planet data display

display row #



(see system table)

| system number | 6(| | wor | ·ld | III | Concordia |
|------------------|------------------|-------------------|----------|--------|----------------------|-----------|
| Plane | Popula | tion d | & eco | onomy | Society | |
| class of star | G6 V | | Н | abitab | ility <mark>8</mark> | |
| mean distance | 0.67 a.u. | Resources | abund | lant R | VM 1 | |
| perihelion | 0.66 a.u. | | | Affi | nity <mark>9</mark> | |
| aphelion | 0.68 a.u. | settlemen | t type | C | olony | |
| axial tilt | 23° | carrying ca | pacity | 1.1 | E+10 | |
| annual period | 0.578 years | popu | lation | 6. | 3 E+7 | |
| | 214.5 local days | tech level | 11 | PR | 7 | |
| local day | 23.6 hours | per-capita i | ncome | G\$ 1 | 16,400 | |
| | | typical | wealth | av | verage | |
| standard ga | arden planet | economic v | olume | G\$ 7 | .3 E+12 | |
| diameter | 0.93 x Earth's | spacepoi | rt class | | | |
| | 11897 km | C | | | 4 | |
| density | 1.0 x Earth's | G | Jvern | imen | l | |
| | 5.7 g/cm^3 | world | unity | | | |
| surface gravity | 0.97 g. | governmen | t type | | | |
| | 9.5 m/s^2 | control | rating | | | |
| escape velocity | 11 km/s | In | atalla | otion | q | |
| vulcanism | moderate | 111 | Stalla | 111011 | 8 | |
| tectonics | moderate | type | | PR | | |
| climate | normal | | | | | |
| temperature | | | | | | |
| average | 17 C | | | | | |
| periphelion | 20 C | | | | | |
| aphelion | 14 C | | | | | |
| illumination | 102 % Earth's | | | | | |
| oceans | 73% | | | | | |
| composition | water | | | | | |
| tidal range | 1.5 m | | | | | |
| atmospher | re | | | | | |
| main gases | N2, O2 | | | | | |
| traces &c. | | | | | | |
| class | breathable | | | | | |
| pressure | 1.00 bar | | | | | |
| | (standard) | | - | - | | |
| Sky objects | apparent: | size period | tides | | | |
| class | | (degrees) (hours) | (m) | | | |
| sun: G6 V | | 0.61 23.6 | 1.3 | | | |
| IIIa: tiny ro | ock moon | 0.26 24.3 | 0.19 | | | |

GURPS Space

advanced world-building sequence

user controls

| | | | Base carrying capacity at very high TL | | | | |
|-----------------------------|------------|---------------------------------------------------|----------------------------------------|------------------------|--|--|--|
| Personal user number | 1 | enter a counting number (i.e. a positive integer) | TL | Base carrying capacity | | | |
| | | | 8 | million | | | |
| use US Customary units? | FALSE | enter TRUE for US units, FALSE for Metric | 9 | million | | | |
| | | | 10 | million | | | |
| campaign technology level | 11 | | 11 | 25 million | | | |
| | | | 12 | 30 million | | | |
| User-specified stellar char | acteristic | CS | | | | | |

Insert 1, 2, or 3, or leave blank for a random result number of stars 1 0.8 Insert the system age in billions of years, or leave blank for a random result age of system 0.9 mass of primary star Insert the mass of the primary star in solar masses, or leave blank for a random result **G6 V** class of primary star The stellar class is calculated from mass and age. You cannot alter it. 0.48 luminosity of primary star The star's luminosity is calculated from mass and age. You cannot alter it. mass of [nearer] companion class of [nearer] companion luminosity of [nearer] companion radius of 1st companion's orbit :centricity of 1st companion's orbit periapsis of 1st companion apapsis of 1st companion mass of further companion class of further companion luminosity of further companion radius of 2nd companion's orbit centricity of 1st companion's orbit periapsis of 2nd companion apapsis of 2nd companion epistellar Insert "none", "conventional", "epistellar", or "eccentric", or leave blank for a random result arrangement of gas giants radius of orbit of first gas giant Insert the semimajor axis of the first gas giant's orbit in AU, or leave blank for a random result. Will over-ride 'arrangement of gas giants'. centricity of orbit of first gas giant Insert the eccentricity of the first gas giant's orbit, on a scale of 0 to 1, not including 1, or leave blank for a random result. Will over-ride 'arrange

User-specified planet

| world type subtype complete world type primordial atmospheric mass basic atmosphere worse atmosphere? atmospheric composition | standard garden standard garden 1.03 breathable FALSE breathable | Insert "asteroid belt", "tiny", "small", "standard", or "large", or leave bla Insert "hadean", "ammonia", "ice", "ocean", "garden", "greenhouse" or This value is calculated. You cannot alter it. Insert relative atmospheric mass (about 0.5 to 1.5). May be diminished This value is calculated. You cannot alter it. Insert TRUE for marginal atmosphere, else FALSE or leave blank This value is calculated. You cannot alter it. | eroid belt", "tiny", "small", "standard", or "large", or leave blank for a random system. Jean", "ammonia", "ice", "ocean", "garden", "greenhouse" or "chthonian" is calculated. You cannot alter it. 4 4 tive atmospheric mass (about 0.5 to 1.5). May be diminished by tide-locking. is calculated. You cannot alter it. IE for marginal atmosphere, else FALSE or leave blank is calculated. You cannot alter it. | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| marginal condition number | | | number marginal condition | | | | | |
| marginal condition | | | 1 Cl, F | | | | | |
| primordial hydrographic coverage | 73 | Insert hydrographic % between 50 and 100 | 2 sulfur compounds | | | | | |
| average surface temperature | 290 | Insert temperature between 250 and 340 Kelvins | 3 NOX | | | | | |
| that's | 17 | Celsius | 4 organic toxins | | | | | |
| climate | normal | This value is calculated. You cannot alter it. | 5 low O2 | | | | | |
| blackbody temperature | 283 | This value is calculated. You cannot alter it. | 6 pollutants | | | | | |
| density | 1.04 | Insert density between 0.8 and 1.2 times Earth's | 7 high CO2 | | | | | |
| diameter | 0.93 | This value is calculated. Adjust it using density and surface gravity. | 8 high O2 | | | | | |
| surface gravity | 0.97 | Insert surface gravity between 0.5 and 1.07 times Earth's | 9 inert gases | | | | | |
| mass | 0.84 | times Earth's. This value is calculated, you cannot alter it. | | | | | | |
| atmospheric pressure | 1.00 | times Earth's. This figure is calculated. To adjust it, alter atmospheric m | ass. | | | | | |
| orbital radius | 0.67 | Astronomical units. This figure is calculated. You cannot alter it. | | | | | | |
| orbital eccentricity | 0.02 | | | | | | | |
| obliquity (axial tilt) | 23 | (degrees) | | | | | | |
| primordial day length | 19 | Insert the original day length (before tidal braking) in hours. About 6 to 40, average about 12. | | | | | | |
| number of major moons | - | 0, 1, or 2. Or leave blank for a random result. | | | | | | |
| number of moonlets | *i | 0, 1, or 2. This value will be over-ridden if number of major moons is no | ot blank or zero. | | | | | |
| type of moon | uny | Insert a world type no larger that that of the planet (tiny, small, standar | d, or large), or leave blank for a random result. | | | | | |
| distance of moon | | (planetary diameters). No less than 5. No more than 40. | | | | | | |
| resource value modifier vulcanism tectonics | 1 moderate moderate | Insert resource value between -2 and 2 Insert "none", "light", "moderate", "heavy", or "extreme", or leave bland Insert "none", "light", "moderate", "heavy", or "extreme", or leave bland | < for a random result. < for a random result. | | | | | |