advanced world-building sequence system summary page

Universe number 1 System number 1 12

max. habitability 5

max. affinity 5

Name of star					Epsilon Indi									
system number 1					12 companion stars 2									
class of star					V			mass 0.1		periapsis 0.07 a.				
			mass	0.7	65	M(so		class M7 V	-	papsis				
luminosity				0.2	44	、 L(sol)	mass 0.1		 riapsis	24			
age						billion	years	class M7 V		, papsis	56	a.u.		
diameter					06	a.u.								
row	ID #	orbit radius (a.u.) ^{(10,000} _{km)}	world type	(Earth	mass (Earth	(Earth	atmosphere	hydrographics	temp (C)	climate	solar day (hours)	ні	RVM	Arrivity .
number 1	Т	0.10	medium gas giant	dia.)	masses)	g.) 2.3	superdense corrosive		(0)		infinite			Ŷ
2	I	0.10	tiny rock planet	0.27		0.21	none		10	cool	infinite		-1	-1
3	III	0.43	standard garden planet	1.1	1.1	0.21	standard marginal	50% water	-13	cold	23.4	5	0	5
4	IIIa	53	tiny rock moon			0.21	none		-37	frozen	1233	0	0	0
5	IV	1.1	standard ice planet		0.36		thin suffocating		-74		25.5	-1	1	0
6	V	2.4	medium gas giant	8.2	100	1.5	superdense corrosive		, -		10.6		-	-
7			7 moonlets				*		-152	frozen		0	1	1
8	Va	120	small ice moon	0.42	0.04	0.21	very dense mildly toxic	70% hydrocarbons	-142	frozen	365	-1	0	-1
9			4 moonlets						-152	frozen		0	0	0
10	VI	4.2	medium gas giant	11	300	2.6	superdense corrosive				13.3			
11			8 moonlets						-180	frozen		0	0	0
12	VIa	110	tiny sulfur moon	0.13	0.00	0.08	none		-199	frozen	185	-2	0	-2
13	VIb	187	small ice moon	0.37	0.02	0.18	dense mildly toxic	50% hydrocarbons	-178	frozen	410	-1	0	-1
14			6 moonlets						-180	frozen		0	0	0
15	VII	7.1	small gas giant	3.9	15	1.0	superdense corrosive				144			
16			10 moonlets						-202	frozen		0	0	0
17	VIIa	35	standard hadean moon				none		-224	frozen	144	0	0	0
18	VIIb	42	small hadean moon			0.16	none		-224	frozen	194	0	0	0
19	VIIc	50	standard hadean moon			0.18	none		-224		254	0	0	0
20	VIId	61	tiny sulfur moon	0.24	0.01	0.10	none		-217	frozen	341	-1	1	0
21			5 moonlets						-202	frozen		0	0	0

GURPS Space Idvanced world-building sequence planet data display

display row #



(see system table)

system number	12	2	wor	ld III	Apollo
Planet	Popula	tion &	& economy	Society	
class of star	K2 V		Н	abitability 5	
mean distance	0.64 a.u.	Resources	avera	ge RVM ()	
perihelion	0.62 a.u.			Affinity 5	
aphelion	0.67 a.u.	settlemen	t type		
axial tilt	2.8°	carrying ca	pacity	7.4 E+8	
annual period	0.589 years	popu	lation		
	220.2 local days	tech level	10	PR	
local day	23.4 hours	per-capita i	ncome	G\$	
		typical	wealth		
standard ga	rden planet	economic v	olume	G\$	
diameter	1 x Earth's	spacepoi	rt class		
	14191 km				
	0.80 x Earth's	G	overn	iment	
	4.4 g/cm^3	world	unity		
surface gravity		governmen	-		
	8.7 m/s^2	control			
escape velocity	11 km/s			_	
	moderate	In	stalla	ations	
	moderate	type		PR	
climate	cold				
temperature					
average	-13 C				
periphelion	-19 C				
aphelion	-18 C				
illumination	$\frac{16}{46}$ % Earth's				
oceans	50%				
composition					
tidal range	2.8 m				
atmospher					
main gases					
	inert gases				
class	marginal				
pressure	0.89 bar				
	(standard)	<u> </u>			1
Sky objects	apparent:	size period			
class		(degrees) (hours)			
sun: K2 V	1	0.57 23.4			
IIIa: tiny ro	ck moon	0.42 23.9	0.91		

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	10		11	25 million		
			12	30 million		

User-specified stellar characteristics

number of stars	3	Insert 1, 2, or 3, or leave blank for a random result
age of system	1.3	Insert the system age in billions of years, or leave blank for a random result
mass of primary star	0.765	Insert the mass of the primary star in solar masses, or leave blank for a random result
class of primary star	K2 V	The stellar class is calculated from mass and age. You cannot alter it.
luminosity of primary star	0.24	The star's luminosity is calculated from mass and age. You cannot alter it.
mass of [nearer] companion	0.1	Insert the mass of a companion star in solar masses, or leave blank for a random result
class of [nearer] companion	M7 V	The stellar class is calculated from mass and age. You cannot alter it.
luminosity of [nearer] companion	0.00	The star's luminosity is calculated from mass and age. You cannot alter it.
radius of 1st companion's orbit	0.066	Insert the semimajor axis of the nearer companion's orbit in AU, or leave blank for a random result
centricity of 1st companion's orbit:		Insert the eccentricity of the nearer companion's orbit, on a scale of 0 to 1, not including 1, or leave blank for a random result
periapsis of 1st companion		Insert the periapsis of the 1st companion's orbit in AU, or leave blank for a random result. This will over-ride radius and eccentricity
apapsis of 1st companion		Insert the apapsis of the 1st companion's orbit in AU, or leave blank for a random result. This will over-ride radius and eccentricity
mass of further companion	0.1	Insert the mass of the primary star in solar masses, or leave blank for a random result
class of further companion	M7 V	The stellar class is calculated from mass and age. You cannot alter it.
luminosity of further companion	0.00	The star's luminosity is calculated from mass and age. You cannot alter it.
radius of 2nd companion's orbit	0.08	Insert the semimajor axis of the further companion's orbit in AU, or leave blank for a random result
centricity of 1st companion's orbit:		Insert the eccentricity of the further companion's orbit, on a scale of 0 to 1, not including 1, or leave blank for a random result
periapsis of 2nd companion		Insert the periapsis of the 2nd companion's orbit in AU, or leave blank for a random result. This will over-ride radius and eccentricity
apapsis of 2nd companion		Insert the apapsis of the 2nd companion's orbit in AU, or leave blank for a random result. This will over-ride radius and eccentricity
arrangement of gas giants		Insert "none", "conventional", "epistellar", or "eccentric", or leave blank for a random result
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 'arrangei

User-specified planet

world type	standard	Insert "asteroid belt", "tiny", "small", "standard", or "large", or leave blank for a random system.							
subtype	garden	Insert "hadean", "ammonia", "ice", "ocean", "garden", "greenhouse" or "chthonian"							
complete world type	standard garden	This value is calculated. You cannot alter it. 3 4							
primordial atmospheric mass	1	Insert relative atmospheric mass (about 0.5 to 1.5). May be diminished by tide-locking.							
basic atmosphere	breathable	This value is calculated. You cannot alter it.							
worse atmosphere?	TRUE	Insert TRUE for marginal atmosphere, else FALSE or leave blank							
atmospheric composition	marginal	This value is calculated. You cannot alter it.							
marginal condition number	9	Insert the number of a marginal condition from the table on the right number marginal condition							
marginal condition	inert gases	This value is calculated. You cannot alter it. 1 Cl, F							
primordial hydrographic coverage	50	Insert hydrographic % between 50 and 100	2 sulfur compounds						
average surface temperature	260	Insert temperature between 250 and 340 Kelvins	3 NOx						
that's	-13	Celsius	4 organic toxins						
climate	cold	This value is calculated. You cannot alter it. 5 low O2							
blackbody temperature	244	This value is calculated. You cannot alter it. 6 pollutants							
density	0.8	Insert density between 0.8 and 1.2 times Earth's	7 high CO2						
diameter	1.11	This value is calculated. Adjust it using density and surface gravity. 8 high O2							
surface gravity	0.89	Insert surface gravity between 0.53 and 1.13 times Earth's	9 inert gases						
mass	1.10	times Earth's. This value is calculated, you cannot alter it.							
atmospheric pressure	0.89	times Earth's. This figure is calculated. To adjust it, alter atmospheric mass.							
orbital radius	0.64	Astronomical units. This figure is calculated. You cannot alter it.							
orbital eccentricity	0.04								
obliquity (axial tilt)	2.8	(degrees)							
primordial day length	15	Insert the original day length (before tidal braking) in hours. About 6 to 40, average about 12.							
number of major moons	1	0, 1, or 2. Or leave blank for a random result.							
number of moonlets									
type of moon	tiny	Insert a world type no larger that that of the planet (tiny, small, standard, or large), or leave blank for a random result.							
distance of moon	37	(planetary diameters). No less than 5. No more than 40.							
resource value modifier	0	Insert resource value between -2 and 2							
vulcanism	moderate	Insert "none", "light", "moderate", "heavy", or "extreme", or leave blank for a random result.							
tectonics	moderate	Insert "none", "light", "moderate", "heavy", or "extreme", or leave blank for a random result.							