# advanced world-building sequence system summary page

Universe number 1 System number						87 max. habitab max. affi						abi ffin	lity hity	8 9
Name of star						Omicron 2 Eridani								
		S	system number	87		companion stars 2								
			class of star mass luminosity age diameter	KO 0.8 0.4 9.5 0.0	V 4 56 08	M(so L(sol billior a.u.	l) ) I years	mass 0.5 class M0 V mass 0.2 class M5 V	per a per a	riapsis papsis riapsis papsis	8.4 20 210 490	a.u. a.u. a.u. a.u.		
row number	ID #	<b>orbit</b> <b>radius</b> (a.u.) <sup>(10,000</sup> <sub>km)</sub>	world type	size (Earth dia.)	mass (Earth masses)	<b>g</b> (Earth g.)	atmosphere	hydrographics	temp (C)	climate	solar day (hours)	HI	RVM	A.S.
1	Ι	0.10	tiny rock planet	0.55	0.13	0.44	none		441	infernal	infinite	0	-2	-2
2	Π	0.25	small rock planet	0.77	0.32	0.54	none		169	infernal	infinite	0	0	0
3	III	0.42	small rock planet	0.61	0.18	0.48	none		66	very hot	infinite	0	-1	-1
4	IV	0.66	standard garden planet	0.91	0.82	0.99	standard breathable	75% water	19	normal	23.6	8	1	9
5			2 moonlets						1	chilly		0	0	0
6	V	1.1	small rock planet	0.43	0.06	0.34	none		-61	frozen	16.2	0	-1	-1
/	<b>X</b> / <b>T</b>	1.6	l moonlet	0.47	0.10	0.42			-59	frozen	10.5	0	0	0
ð		1.6	standard ice planet	0.47	0.10	0.43	thin mildly toxic		-/8	trozen	13.5	-1	0	-1
9 10	VII	4.0	12 magniate	10.0	200	2.0	superaense corrosive		170	frozor	20.1	0	0	0
11	VIIa	Q /	12 moonets	0.17	0.00	0.12	none		-1/0 101	frozen	151	0	0	0
12	v 11a	04	4 moonlets	0.17	0.00	0.12	none		-170	frozen	131	0	0	0

## GURPS Space dvanced world-building sequence

planet data display

display row #

4

(see system table)

system number	87	7	world	IV	Bay Jing
Plane	tology	Popula	tion & e	conomy	Society
class of star	<b>K0</b> V		Habit	ability <mark>8</mark>	
mean distance	<b>0.66</b> a.u.	Resources	abundant	RVM 1	
perihelion	<b>0.64</b> a.u.		Α	Affinity <mark>9</mark>	
aphelion	0.67 a.u.	settlemen	nt type		
axial tilt	16°	carrying ca	pacity	8.2 E+9	
annual period	0.579 years	popu	lation		
	214.6 local days	tech level	10 PR		
local day	23.6 hours	per-capita i	ncome G\$	•	
		typical	wealth		
standard ga	rden planet	economic v	olume G\$	5	
diameter	0.91 x Earth's	spacepo	rt class		
	11586 km		Nornm	ont	
density	1.1 x Earth's	G	overnmo	ent	
	6.0 g/cm^3	world	unity		
surface gravity	<b>0.99</b> g.	governmen	it type		
	9.7 m/s^2	control	rating		
escape velocity	11  km/s	In	stallatic	ne	
vulcanism	moderate	111	stanati	<b>J</b> 115	
tectonics	moderate	type	PR	2	
climate	normal				
temperature					
average	<b>19</b> C				
periphelion	22 C				
aphelion	16 C				
illumination	96 % Earth's				
oceans	75%				
composition	water				
tidal range	<b>1.2</b> m				
atmospher	e				
main gases	N2, O2				
traces &c.					
class	breathable				
pressure	<b>1.1</b> bar				
	(standard)				
Sky objects	apparent:	size period	tides		
class	-	(degrees) (hours)	(m)		
sun: K0 V		0.68 23.6	1.2		

#### **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	9.5	Insert the system age in billions of years, or leave blank for a random result
mass of primary star	0.84	Insert the mass of the primary star in solar masses, or leave blank for a random result
class of primary star	<u>ко v</u>	The stellar class is calculated from mass and age. You cannot alter it.
luminosity of primary star	0.46	The star's luminosity is calculated from mass and age. You cannot alter it.
mass of [nearer] companion	0.5	Insert the mass of a companion star in solar masses, or leave blank for a random result
class of [nearer] companion	MO V	The stellar class is calculated from mass and age. You cannot alter it.
luminosity of [nearer] companion	0.09	The star's luminosity is calculated from mass and age. You cannot alter it.
radius of 1st companion's orbit	0.014	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	0.2	Insert the mass of the primary star in solar masses, or leave blank for a random result
class of further companion	M5 V	The stellar class is calculated from mass and age. You cannot alter it.
luminosity of further companion	0.01	The star's luminosity is calculated from mass and age. You cannot alter it.
radius of 2nd companion's orbit	0.31	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 'arranger

#### 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.	4 4				
primordial atmospheric mass	1.1	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?	FALSE	insert TRUE for marginal atmosphere, else FALSE or leave blank					
atmospheric composition	breathable	This value is calculated. You cannot alter it.					
marginal condition number			number marginal condition				
marginal condition			1 Cl, F				
primordial hydrographic coverage	75	Insert hydrographic % between $50$ and $100$	2 sulfur compounds				
average surface temperature	292	Insert temperature between 250 and 340 Kelvins	3 NOx				
that's	19	Celsius	4 organic toxins				
climate	normal	This value is calculated. You cannot alter it.	5 low 02				
blackbody temperature	282	This value is calculated. You cannot alter it.	6 pollutants				
density	1.09	Insert density between 0.8 and 1.2 times Earth's	7 high CO2				
diameter	0.91	This value is calculated. Adjust it using density and surface gravity.	8 high O2				
surface gravity	0.99	Insert surface gravity between $0.49$ and $1.04$ times Earth's	9 inert gases				
mass	0.82	times Earth's. This value is calculated, you cannot alter it.					
atmospheric pressure	1.09	times Earth's. This figure is calculated. To adjust it, alter atmospheric m	ass.				
orbital radius	0.66	Astronomical units. This figure is calculated. You cannot alter it.					
orbital eccentricity	0.02						
obliquity (axial tilt)	16	(degrees)					
primordial day length	6.5	Insert the original day length (before tidal braking) in hours. About 6 to	40, average about 12.				
number of major moons	0	0, 1, or 2. Or leave blank for a random result.					
number of moonlets	2	0, 1, or 2. This value will be over-ridden if number of major moons is not blank or zero.					

resource value modifier	1	Insert resource value between	-2	and	2	
vulcanism	moderate	Insert "none", "light", "moderate",	"heav	y", or	"extreme",	or leave blank for a random result.
tectonics	moderate	Insert "none", "light", "moderate",	"heav	y", or	"extreme",	or leave blank for a random result.