GURPS Space **advanced world-building sequence system summary page**

Universe number 1

System number **21**

max. habitability **6**

max. affinity **7**

Name of star ***Gamma Leporis***

system number **21**

class of star **F8 V**

mass **1.23** M(sol)

luminosity **2.58** L(sol)

age **4.0** billion years

diameter **0.013** a.u.

companion stars **1**

mass **#N/A** **periapsis** **1.5** a.u.

class **#N/A** **apapsis** **3.5** a.u.

row number	ID #	orbit radius (a.u.) (10,000 km)	world type	size (Earth dia.)	mass (Earth masses)	g (Earth g.)	atmosphere	hydrographics	temp (C)	climate	solar day (hours)	HI	RVM	Affinity
1		0.19	asteroid belt						517	infernal		0	-1	-1
2		0.34	asteroid belt						316	infernal		0	-1	-1
3	**I**	1.4	standard garden planet	0.82	0.60	0.90	standard breathable	96% water	26	normal	27.9	**6**	1	**7**
4			1 moonlet						16	normal		0	0	0
5	**II**	10	medium gas giant	8.2	100	1.5	superdense corrosive				15.9			
6			6 moonlets						-166	frozen		0	-2	-2
7	IIa	94	small ice moon	0.33	0.02	0.20	very dense mildly toxic	70% hydrocarbons	-160	frozen	254	-1	0	-1
8			3 moonlets						-166	frozen		0	-1	-1
9	**III**	19	medium gas giant	9.2	150	1.8	superdense corrosive				13.9			
10			3 moonlets						-195	frozen		0	-1	-1
11	IIIa	83	small ice moon	0.42	0.02	0.13	very dense mildly toxic	70% hydrocarbons	-189	frozen	170	-1	0	-1
12	IIIb	140	standard ice moon	0.41	0.07	0.45	very thin suffocating		-193	frozen	376	0	0	0
13			2 moonlets						-195	frozen		0	1	1
14	**IV**	33	medium gas giant	10.0	200	2.0	superdense corrosive				13.3			
15			6 moonlets						-213	frozen		0	0	0
16	IVa	115	tiny ice moon	0.11	0.00	0.06	none		-220	frozen	241	0	0	0
17			6 moonlets						-213	frozen		0	0	0

NOTE: Nouvelle Vie has an additional "outer" Asteroid Belt at 2.1 Aus from the sun. It did not come up in the GURPS Random roll but it has been added

GURPS Space **dvanced world-building sequence** **planet data display**

display row # **3** (see system table)

system number	21	world	I	*Nouvelle Vie*

Planetology

class of star	F8 V	
mean distance	1.4	a.u.
perihelion	1.4	a.u.
aphelion	1.4	a.u.
axial tilt	24°	
annual period	1.48	years
	466.1	local days
local day	27.9	hours

standard garden planet

diameter	0.82	x Earth's
	10437	km
density	1.1	x Earth's
	6.1	g/cm^3
surface gravity	0.90	g.
	8.8	m/s^2
escape velocity	9.6	km/s
vulcanism	moderate	
tectonics	heavy	

climate normal

temperature		
average	26	C
periphelion	29	C
aphelion	23	C
illumination	140	% Earth's

oceans 96%

composition	water	
tidal range	0.16	m

atmosphere

main gases	N2, O2	
traces &c.		
class	breathable	
pressure	1.1	bar
	(standard)	

Sky objects

	apparent: size (degrees)	period (hours)	tides (m)
sun: F8 V	0.52	27.9	0.16

Population & economy

		Habitability	6
Resources	abundant	RVM	1
		Affinity	7

settlement type		
carrying capacity	1.7 E+9	
population	1.5 E+7	
tech level	10	PR 7
per-capita income	G$ 67,000	
typical wealth	average	
economic volume	G$ 1.0 E+12	
spaceport class		

Government

world unity	
government type	
control rating	

Installations

type	PR

Society

Note: This is too high!

Fudging to 109%: Logan's End is 121%

GURPS Space advanced world-building sequence user controls

Personal user number	**1**	enter a counting number (i.e. a positive integer)
use US Customary units?	**FALSE**	enter TRUE for US units, FALSE for Metric
campaign technology level	**10**	

Base carrying capacity at very high TL

TL	Base carrying capacity
8	million
9	million
10	million
11	**25** million
12	**30** million

User-specified stellar characteristics

number of stars	**2**	Insert 1, 2, or 3, or leave blank for a random result
age of system	**4**	Insert the system age in billions of years, or leave blank for a random result
mass of primary star	**1.23**	Insert the mass of the primary star in solar masses, or leave blank for a random result
class of primary star	**F8 V**	The stellar class is calculated from mass and age. You cannot alter it.
luminosity of primary star	**2.58**	The star's luminosity is calculated from mass and age. You cannot alter it.
mass of [nearer] companion		Insert the mass of a companion star in solar masses, or leave blank for a random result
class of [nearer] companion	**#N/A**	The stellar class is calculated from mass and age. You cannot alter it.
luminosity of [nearer] companion	**#N/A**	The star's luminosity is calculated from mass and age. You cannot alter it.
radius of 1st companion's orbit		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		Insert the mass of the primary star in solar masses, or leave blank for a random result
class of further companion		The stellar class is calculated from mass and age. You cannot alter it.
luminosity of further companion		The star's luminosity is calculated from mass and age. You cannot alter it.
radius of 2nd companion's orbit		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", "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. 5 4
primordial atmospheric mass	**1.2**	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		Insert the number of a marginal condition from the table on the right
marginal condition		This value is calculated. You cannot alter it.
primordial hydrographic coverage	**96**	Insert hydrographic % between 50 and 100
average surface temperature	**299**	Insert temperature between 250 and 340 Kelvins
that's	**26**	Celsius
climate	**normal**	This value is calculated. You cannot alter it.
blackbody temperature	**299**	This value is calculated. You cannot alter it.
density	**1.1**	Insert density between 0.8 and 1.2 times Earth's
diameter	**0.82**	This value is calculated. Adjust it using density and surface gravity.
surface gravity	**0.9**	Insert surface gravity between 0.5 and 1.07 times Earth's
mass	**0.60**	times Earth's. This value is calculated, you cannot alter it.
atmospheric pressure	**1.08**	times Earth's. This figure is calculated. To adjust it, alter atmospheric mass.
orbital radius	**1.39**	Astronomical units. This figure is calculated. You cannot alter it.
orbital eccentricity	**0.02**	
obliquity (axial tilt)	**24**	(degrees)
primordial day length	**27**	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	**1**	0, 1, or 2. This value will be over-ridden if number of major moons is not blank or zero.

number	marginal condition
1	Cl, F
2	sulfur compounds
3	NOx
4	organic toxins
5	low O2
6	pollutants
7	high CO2
8	high O2
9	inert gases

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