GURPS Space

advanced world-building sequence system summary page

Universe number 1

System number 56

max. habitability 7

max. affinity 6

Name of star

Gliese 581 / Wolf 562

system number 56

class of star M4 V

mass 0.31 M(sol)
luminosity 0.024 L(sol)
age 7.0 billion years

diameter 0.004 a.u.

row	ID#	orbit radius	world type	size (Earth	mass (Earth	g (Earth	atmosphere	hydrographics	temp	climate	solar day	HI	RVM	4 Aprilia
number		(a.u.) (10,0) km		dia.)	masses)	g.)			(C)		(hours)			₹
1	I	0.09	medium gas giant	9.2	150	1.8	superdense corrosive				906			
2			1 moonlet						73	infernal		0	0	0
3		0.18	standard garden planet		3.4	1.3	dense marginal	49% water	-4	chilly	infinite	7	-1	6
4	IIa	21		0.27	0.01	0.19	none			very cold	160	0	-1	-1
5		0.33	asteroid belt						-88	frozen		0	-1	-1
6	Ш	0.56	medium gas giant	9.2	150	1.8	superdense corrosive				infinite			
7			2 moonlets						-131	frozen		0	0	0
8	IV	0.95	small gas giant	3.9	15	1.0	superdense corrosive				18.3			
9			8 moonlets						-164	frozen		0	-1	-1
10	V	1.9	small gas giant	5.4	30	1.0	superdense corrosive				20.1			
11			8 moonlets						-196	frozen		0	0	0
12	Va	46	tiny ice moon	0.06	0.00	0.02	none		-205	frozen	156	0	-2	-2
13			5 moonlets						-196	frozen		0	1	1
14	VI	3.4	small gas giant	2.9	10	1.2	superdense corrosive				49.2			
15			10 moonlets						-216	frozen		0	0	0
16	VIa	15	small hadean moon	0.32	0.02	0.16	none		-233	frozen	49.2	0	0	0
17	VIb	17	small hadean moon	0.34	0.02	0.14	none		-233	frozen	62.3	0	0	0
18	VIc	21	tiny sulfur moon	0.10	0.00	0.04	none		-227	frozen	83.6	-2	0	-2
19	VId	25	tiny ice moon	0.11	0.00	0.03	none		-222	frozen	109	0	0	0
20			4 moonlets						-216	frozen		0	0	0
21	VII	5.8	medium gas giant	12	450	3.2	superdense corrosive				18.7			
22			7 moonlets						-229	frozen		0	0	0
23	VIIa	60	tiny sulfur moon	0.11	0.00	0.06	none		-238	frozen	61.4	-1	0	-1
24	VIIb	72	tiny ice moon	0.15	0.00	0.08	none		-234	frozen	79.7	0	1	1
25	VIIc	83	small hadean moon	0.26	0.01	0.13	none		-243	frozen	99.3	0	0	0
26	VIId	95	tiny ice moon	0.21	0.00	0.10	none		-234	frozen	121	0	-1	-1
27	VIIe	10	small hadean moon	0.26	0.01	0.13	none		-243	frozen	145	0	0	0
28			5 moonlets						-229			0	0	0
29	VIII	8.7	medium gas giant	11	300	2.6	superdense corrosive				22.2			
30			8 moonlets				-		-237	frozen		0	-1	-1
31	VIIIa	15		0.09	0.00	0.04	none		-245	frozen	314	-2	2	0
32			1 moonlet						-237	frozen		0	0	0

display row #

(see system table)

system number	56	Ó	world	II	Zarmina ("Gee",
Plane	tology	Popula	tion & e	conomy	Society
class of star	M4 V		Habit	ability 7	
mean distance	0.18 a.u.	Resources	poor	RVM -1	
perihelion	0.16 a.u.		A	ffinity 6	
aphelion	0.20 a.u.	settlemen		colony	
axial tilt	20°	carrying ca	-	2.4 E+9	
annual period				1.1 E+7	
	locked	tech level		7	
local day	infinite	per-capita i			
		typical	wealth s	truggling	
standard ga	rden planet	economic v	olume G\$	4.1 E+11	
diameter	1.6 x Earth's	spacepo	rt class		
	20729 km	G	overnmo	- -nt	
density	0.80 x Earth's			-11 t	
	4.4 g/cm ³	world	unity		
surface gravity	1.3 g.	governmen	t type		
	13 m/s^2	control	rating		
escape velocity	16 km/s	In	stallatio	ns	
	moderate				
tectonics	moderate	type	PR		
climate	chilly				
temperature					
average	-4 C				
dayside	20 C				
nightside	-36 C				
illumination	8 % Earth's				
oceans	49%				
composition	water				
tidal range	16 m				
atmospher	e				
main gases	N2, O2				
traces &c.					
class	marginal				
pressure	1.4 bar				
	(dense)				
Sky objects	apparent:	size period	tides		
class	-	(degrees) (hours)			
sun: M4 V		1.4 infinite			
IIa: tiny ro	ck moon	0.95 -159.901	16		

GURPS Space advanced world-building sequence user controls

			Base carrying cap	acity 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 characteristics

number of stars	1	Insert 1, 2, or 3, or leave blank for a random result
age of system	7	Insert the system age in billions of years, or leave blank for a random result
mass of primary star	0.31	Insert the mass of the primary star in solar masses, or leave blank for a random result
class of primary star	M4 V	The stellar class is calculated from mass and age. You cannot alter it.
luminosity of primary star	0.02	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		
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 giant
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

User-specified planet

world type	standard	Insert "asteroid belt", "tiny", "small", "standard", or "large", or leave bla	ank for a random system.
subtype	garden	Insert "hadean", "ammonia", "ice", "ocean", "garden", "greenhouse" or	"chthonian"
complete world type	standard garder	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?	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	5	Insert the number of a marginal condition from the table on the right	number marginal condition
marginal condition	low O2	This value is calculated. You cannot alter it.	1 CI, F
primordial hydrographic coverage	59	Insert hydrographic % between 50 and 100	2 sulfur compounds
average surface temperature	269	Insert temperature between 250 and 340 Kelvins	3 NOx
that's	-4	Celsius	4 organic toxins
climate	chilly	This value is calculated. You cannot alter it.	5 low O2
blackbody temperature		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	1.63	This value is calculated. Adjust it using density and surface gravity.	8 high O2
surface gravity	1.3	Insert surface gravity between 0.55 and 1.17 times Earth's	9 inert gases
mass	3.43	times Earth's. This value is calculated, you cannot alter it.	
atmospheric pressure	1.43	times Earth's. This figure is calculated. To adjust it, alter atmospheric m	nass.
orbital radius	0.18	Astronomical units. This figure is calculated. You cannot alter it.	
orbital eccentricity	0.12		
obliquity (axial tilt)	20	(degrees)	
primordial day length	12	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, standar	rd, or large), or leave blank for a random
distance of moon	10	(planetary diameters). No less than 5. No more than 40.	
resource value modifier vulcanism		Insert resource value between -2 and 2 Insert "none", "light", "moderate", "heavy", or "extreme", or leave blani	k fay a yandam yasult
tectonics	moderate	Insert "none", "light", "moderate", "heavy", or "extreme", or leave blank Insert "none", "light", "moderate", "heavy", or "extreme", or leave blank	
tectonics	moderate	insert none , light , moderate , heavy , or extreme , or leave blank	K IOI a Talluolii Tesuit.