27 Gruis		5 LY	27 Gruis I		27 Gruis II		27 Gruis III		27 Gruis IV		27 Gruis V	
F type star			Volcanic ash		Arid desert		Gas giant Reverse rotation Plural Safellites		Prairie Satellite		Oceanic jungle Satellite	
Iron ore	61,947,656		Iron ore	36,548,032	Iron ore	4,508,030	Collectable Hydr	0.91/s	Iron ore	12,323,314	Iron ore	8,568,280
Copper ore	73,922,938		Copper ore	44,053,834	Copper ore	23,442,336	Collectable Deuti	0.04/s	Copper ore	5,822,160	Copper ore	604,608
Silicon ore	38,854,776		Silicon ore	4,231,240	Silicon ore	0			Silicon ore	9,243,862	Silicon ore	25,379,674
Titanium ore	51,977,542		Titanium ore	23,978,260	Titanium ore	27,330,570	Orbit type	Orbit radius	Titanium ore	668,712	Titanium ore	0
Stone	46,756,150		Stone	5,414,260	Stone	35,668,854	Orbit radius	Orbiting the star	Stone	1,165,478	Stone	4,507,558
Coal	68,187,168		Coal	397,954	Coal	328,766	Orbital period	10,504 sec	Coal	29,378,828	Coal	38,081,620
Crude oil	148.13/s		Ocean type	Sulfurica acid	Ocean type	None	Rotation period	-124 sec	Ocean type	Water	Ocean type	Water
Spiniform stalagn	279,810		Wind energy	80 %	Wind energy	150%	Orbit inclination	5°49'	Water	Construction area	Water	Construction area
Sulfuric acid	Ocean		Solar energy	139%	Solar energy	108 %	Planet's axial incl	3° 56'	Wind energy	110%	Wind energy	100%
Water	Ocean								Solar energy	89%	Solar energy	89%
Water	Ocean		Construction area	99.3%	Construction area	100.0%	Collecting		Crude oil	74.40/s	Crude oil	73.73 ls
Hydrogen	0.91/s		Orbit type	Orbit radius	Orbit type	Orbit radius					Spiniform stalagn	279,810
Deuterium	s		Orbit radius	Orbiting the star	Orbit radius	Orbiting the star			Construction area	85.5%		
			Orbital period	1,646 sec	Orbital period	6,211 sec			Orbit type	Orbit radius	Construction area	62.8%
Mass	1.251 MO		Rotation period	284 sec	Rotation period	852 sec			Orbit radius	Orbit III	Orbit type	Orbit radius
Spectral class	F		Orbit inclination		Orbit inclination	-5°30'			Orbital period	1,068 sec	Orbit radius	Orbit III
Radius	1.01 RO		Planet's axial incl	10°42'	Planet's axial incl	15° 51'			Rotation period	524 sec	Orbital period	2,190 sec
Luminosity	1.053 L o								Orbit inclination	-11° 23'	Rotation period	804 sec
Temperature	6,500 K		Dyson sphere: rockets, sails, ray receivers, photons		8x30 Glass smelting				Planet's axial incl	-21° 14'	Orbit inclination	-9°43'
Age	3,433 Myrs										Planet's axial incl	-7° 0'
									Mining organic crystal	3/3		
											2x4x30 Silicon smelting	
											Organic crystal mining	1x

39 Tucanae		5 LY	39 Tucanae I			39 Tucanae II			39 Tucanae III			39 Tucanae IV			39 Tucanae V	
G type star			Arid desert Tidal locking perpetual dayand night			Ice giant			Ocean world Satellite			Ice field gelisol			Barren desert	
Iron ore	19,363,270		Iron ore	2,369,206		Collectable Hydro	0.26/s		Iron ore	0		Iron ore	14,592,658		Iron ore	2,401,406
Copper ore	24,603,990		Copper ore	20,581,004					Copper ore	0		Copper ore	487,966		Copper ore	3,535,020
Silicon ore	16,669,720		Silicon ore	0		Orbit type	Orbit radius		Silicon ore	0		Silicon ore	12,923,078		Silicon ore	3,746,642
Titanium ore	81,513,920		Titanium ore	23,352,244		Orbit radius	Orbiting the star		Titanium ore	0		Titanium ore	40,182,302		Titanium ore	17,979,374
Stone	127,149,560		Stone	42,739,788		Orbital period	5,381 sec		Stone	0		Stone	6,604,102		Stone	77,805,670
Coal	4,921,630		Coal	329,826		Rotation period	84 sec		Coal	4,383,354		Coal	208,450		Coal	0
Crude oil	63.19/s		Ocean type	None		Orbit inclination	7°28'		Ocean type	Water		Ocean type	Water		Ocean type	None
Fire ice	51,951,220		Wind energy	150%		Planet's axial incl	0° 0'		Water	Construction area		Water	Construction area		Wind energy	0%
Kimberlite ore	2,750,914		Solar energy	133 %					Wind energy	110%		Wind energy	70%		Solar energy	55%
Spiniform stalagr	11,210,506								Solar energy	94%		Solar energy	64%		Fire ice	2,215,178
Water	Ocean		Construction area	100.0 %					Crude oil	63.19/s		Fire ice	49,736,042		Kimberlite ore	2,750,914
Water	Ocean		Orbit type	Orbit radius					Spiniform stalagr	11,210,506						
Fire ice	0.61/s		Orbit radius	Orbiting the star								Construction area	98.7%		Construction area	100.0%
Hydrogen	0.26/s		Orbital period	1,356 sec					Construction area	0.7%		Orbit type	Orbit radius		Orbit type	Orbit radius
			Rotation period	1,356 sec					Orbit type	Orbit radius		Orbit radius	Orbiting the star		Orbit radius	Orbiting the star
Mass	0.943 MO		Orbit inclination	7° 11'					Orbit radius	Orbit II		Orbital period	14,292 sec		Orbital period	21,051 sec
Spectral class	G		Planet's axial incl	0° l'					Orbital period	993 sec		Rotation period	872 sec		Rotation period	499 sec
Radius	0.88 RO								Rotation period	611 sec		Orbit inclination	4°19'		Orbit inclination	2° 51'
Luminosity	0.987 LO								Orbit inclination	0° 10'		Planet's axial incl	-4° 17'		Planet's axial incl	0° 11"
Temperature	5,570 K		Carbon nanotubes from spiniform						Planet's axial incl	-4°42'						
Age	3,952 Myrs		Graphene from Fire Ice													
			Deuterium by fractionaters													
									Spiniform mining							

Anchat		4 LY		Anchat I				Anchat II				Anchat III		
K type star				Lava				Ice giant				Oceanic jungle Satellite		
Iron ore	61,747,474			Iron ore	52,486,986			Collectable Hydr	0.30 /s			Iron ore	9,260,488	
Copper ore	49,763,016			Copper ore	48,024,642							Copper ore	1,738,374	
Silicon ore	22,656,294			Silicon ore	4,071,710			Orbit type	Orbiting the star			Silicon ore	18,584,584	
Titanium ore	30,044,626			Titanium ore	30,044,626			Orbit radius	Orbit radius			Titanium ore	0	
Stone	7,085,510			Stone	3			Orbital period	5,334 sec			Stone	4,184,190	
Coal	30,748,470			Coal	852,612			Rotation period	93 sec			Coal	29,895,858	
Crude oil	72.99/s			Ocean type	Lava			Orbit inclination	-5° 42'			Ocean type	Water	
Water	Ocean			Wind energy	70%			Planet's axial inc	0° 12'			Water	Construction area	
Fire ice	0.66 /s			Solar energy	123%							Wind energy	100%	
Hydrogen	0.30/s											Solar energy	79%	
				Construction are	89.8%							Crude oil	72.99 /s	
Mass	0.743 M°			Orbit type	Orbit radius									
Spectral class	K			Orbit radius	Orbiting the star							Construction are	57.9%	
Radius	0.89 R			Orbital period	1,354 sec							Orbit type	Orbit radius	
Luminosity	0.934 LO			Rotation period	287 sec							Orbit radius	Orbit II	
Temperature	4,909 K			Orbit inclination								Orbital period	970 sec	
Age	6,952 Myrs			Planet's axial inc	-18° 42'							Rotation period	519 sec	
												Orbit inclination	12°36'	
												Planet's axial inc	-3°19'	

DSR J0756-32				DSR J0756-32 I		
Black hole				Ice field gelisol		
Iron ore	28,962,278			Iron ore	28,962,278	
Copper ore	1,372,974			Copper ore	1,372,974	
Silicon ore	39,452,684			Silicon ore	39,452,684	
Titanium ore	121,866,732			Titanium ore	121,866,732	
Stone	18,311,624			Stone	18,311,624	
Coal	611,222			Coal	611,222	
Fire ice	36,588,908			Ocean type	Water	
Unipolar magnet	2,789,910			Water	Construction area	
Water	Ocean			Wind energy	70%	
				Solar energy	92 %	
Mass	85.368 MO			Fire ice	36,588,908	
Spectral class	X			Unipolar magnet	2,789,910	
Radius	4.52 R					
Luminosity	0.200LO			Construction are	98.8%	
Temperature	20 Myrs			Orbit type	Orbit radius	
Age	20 Myrs			Orbit radius	Orbiting the star	
				Orbital period	2,706sec	
				Rotation period	158sec	
				Orbit inclination	5° 11'	
				Planet's axial inc	41° 9'	

HR 9266		7 LY
Red giant		
Iron ore	Signal detected	
Copper ore	Signal detected	
Silicon ore	None	
Titanium ore	Signal detected	
Stone	Signal defected	
Coal	Signal detected	
Orbit type		
Orbit radius		
Orbital period		
Rotation period		
Orbit inclination		
Planet's axial inclination		

Lambda Virginis	5 LY	Lambda Virginis I		Lambda Virginis II		Lambda Virginis III		Lambda Virginis IV			Lambda Virginis V	
G type star		Lava		Arid desert		Gobi		Red stone			Barren desert	
Iron ore	71,489,170	Iron ore	55,798,588	Iron ore	4,535,208	Iron ore	1,249,946	Iron ore	6,403,156		Iron ore	3,502,272
Copper ore	125,471,016	Copper ore	59,338,656	Copper ore	21,562,568	Copper ore	32,114,032	Copper ore	9,909,364		Copper ore	2,546,396
Silicon ore	39,485,150	Silicon ore	4,473,784	Silicon ore	0	Silicon ore	30,971,236	Silicon ore	0		Silicon ore	4,040,130
Titanium ore	79,271,438	Titanium ore	33,619,658	Titanium ore	23,731,340	Titanium ore	0	Titanium ore	0		Titanium ore	21,920,440
Stone	183,054,564	Stone	3,646,966	Stone	42,969,248	Stone	28,486,372	Stone	31,052,020		Stone	76,899,958
Coal	37,367,298	Coal	241,628	Coal	338,026	Coal	7,685,096	Coal	29,102,548		Coal	0
Crude oil	47.13/s	Ocean type	Lava	Ocean type	None	Ocean type	None	Ocean type	Water		Ocean type	None
Organic crystal	1,717,341	Wind energy	70%	Wind energy	150%	Wind energy	80%	Water	Construction area		Wind energy	0%
Water	Ocean	Solar energy	135 %	Solar energy	116%	Solar energy	.	Wind energy	100%		Solar energy	48%
								Solar energy	79%			
Mass	0.998 MO	Construction area	85.8%	Construction area	100.0%	Construction area	97.8%	Crude oil	47.13/s		Construction area	100.0%
Spectral class	G	Orbit type	Orbit radius	Orbit type	Orbit radius	Orbit type	Orbit radius	Organic crystal	1,717,341	Mining 1/1	Orbit type	Orbit radius
Radius	0.88 R o	Orbit radius	Orbiting the star	Orbit radius	Orbiting the star	Orbit radius	Orbiting the star				Orbit radius	Orbiting the star
Luminosity	1.000 L O	Orbital period	1,351 sec	Orbital period	3,167 sec	Orbital period	5,302 sec	Construction area	59.0%		Orbital period	32,253 sec
Temperature	5,744 K	Rotation period	283 sec	Rotation period	403 sec	Rotation period	591 sec	Orbit type	Orbit radius		Rotation period	1,225 sec
Age	5,253 Myrs	Orbit inclination	1° 36'	Orbit inclination	0°58'	Orbit inclination	1°58'	Orbit radius	Orbiting the star		Orbit inclination	-2°40'
		Planet's axial incl	19°39'	Planet's axial incl	13° 56'	Planet's axial incl	2°55'	Orbital period	9,207 sec		Planet's axial incl	-9°46'
								Rotation period	901 sec			
								Orbit inclination	-3°2'			
								Planet's axial incl	0° 11'			

Saak		2 LY		Saak		
K type star				Volcanic ash Tidal locking perpefual day and night		
Iron ore	35,403,634			Iron ore	31,285,895	
Copper ore	35,326,644			Copper ore	33,897,045	
Silicon ore	1,372,266			Silicon ore	495,152	
Titanium ore	23,858,014			Titanium ore	23,858,014	
Stone	5,016,790			Stone	5,016,790	
Coal	348,408			Coal	348,408	
Sulfuric acid	Ocean			Ocean type	Sulfuric acid	
				Sulfuric acid	Construction area	
Mass	0.824 MO			Wind energy	80 %	
Spectral class	K			Solar energy	128 %	
Radius	0.82 RO					
Luminosity	0.956 LO			Construction are	98.8%	
Temperature	5,184 K			Orbit type	Orbit radius	
Age	5,151 Myrs			Orbit radius	Orbiting the star	
				Orbital period	1,367 sec	
				Rotation period	1,367 sec	
				Orbit inclination	0°! 50'	
				Planet's axial inc	0° 3'	

Suha		0 LY	Suha I		Suha II		Suha III				Suha IV	
G type star			Ice giant Horizontal rotation		Mediterranean Satellite		Ashen gelisol				Ice field gelisol	
Iron ore	13,856,874		Collectable Hydr	0.28 /s	Iron ore	153,820	Iron ore	6,880,670	Mining, processing		Iron ore	6,821,763
Copper ore	1,170,174				Copper ore	139,135	Copper ore	760,897	Mining, remote supply		Copper ore	270,520
Silicon ore	27,441,245		Orbit type	Orbit radius	Silicon ore	0	Silicon ore	21,876,833	Mining, smelting		Silicon ore	5,562,385
Titanium ore	38,363,042		Orbit radius	Orbiting the star	Titanium ore	0	Titanium ore	8,037,548			Titanium ore	30,324,396
Stone	14,312,451		Orbital period	5,071 sec	Stone	5,042,374	Stone	7,132,200			Stone	2,138,286
Coal	13,441,476		Rotation period	104 sec	Coal	13,161,142	Coal	281,398			Coal	0
Crude oil	31.77/s		Orbit inclination	-5° 40'	Ocean type	Water	Ocean type	None			Ocean type	Water
Water	Ocean		Planet's axial incl	-71° 13'	Water	Construction area	Wind energy	40%			Water	Construction area
Water	Ocean				Wind energy	100 9 %	Solar energy	62 %			Wind energy	70%
Fire ice	0.59 /s				Solar energy	93 %					Solar energy	52%
Hydrogen	e				Crude oil	31.77 /s	Construction area	100.0%				
							Orbit type	Orbiting the star			Construction area	98.9%
Mass	0.903 M°				Construction area	88.1%	Orbit radius	Orbit radius			Orbit type	Orbiting the star
Spectral class	G				Orbit type	Orbit radius	Orbital period	13,982 sec			Orbit radius	Orbit radius
Radius	0.89 R				Orbit radius	Orbit I	Rotation period	672 sec			Orbital period	21,562 sec
Luminosity	0.977 LO				Orbital period	1,004 sec	Orbit inclination	5° 48'			Rotation period	802 sec
Temperature	5,441 K				Rotation period	699 sec	Planet's axial incl	1°10'			Orbit inclination	1°18'
Age	5,748 Myrs				Orbit inclination	0°32'					Planet's axial incl	15° 1'
					Planet's axial incl	2° 21'	Silicon 4x30					
							Iron 4x28				Iron 4x30 (-> steel)	
							Magnets 4x28				Steel 4x30	
											Silicon 4x30	
											Titanium 8x30	
											Netěží se:	
											2 titany	
											1 železo	
											1 měd	

Gamma Equulei		5 LY		Gamma Equulei I				Gamma Equulei II		
M type star				Volcanic ash				Prairie Horizontal rotation		
Iron ore	51,421,634			Iron ore	39,635,392			Iron ore	11,786,242	
Copper ore	40,212,006			Copper ore	34,573,490			Copper ore	5,638,516	
Silicon ore	13,722,632			Silicon ore	2,616,236			Silicon ore	11,106,396	
Titanium ore	31,192,234			Titanium ore	30,354,674			Titanium ore	837,560	
Stone	5,473,244			Stone	3,510,870			Stone	1,962,374	
Coal	24,049,242			Coal	331,936			Coal	23,717,306	
Crude oil	80.53/s			Ocean type	Sulfuric acid			Ocean type	Water	
Sulfuric acid	Ocean			Wind energy	80%			Water	Construction area	
Water	Ocean			Solar energy	100%			Wind energy	110%	
								Solar energy	72%	
Mass	0.387 MO			Construction area	99.1%			Crude oil	80.53/s	
Spectral class	M			Orbit type	Orbit radius					
Radius	0.78 R o			Orbit radius	Orbiting the star			Construction area	84.6%	
Luminosity	0.803 LO			Orbital period	1,672 sec			Orbit type	Orbit radius	
Temperature	3,565 K			Rotation period	414 sec			Orbit radius	Orbiting the star	
Age	2,249 Myrs			Orbit inclination	-4°37'			Orbital period	3,941 sec	
				Planet's axial incl	14° 51'			Rotation period	452 sec	
				Planet's axial incl	14° 51'			Orbit inclination	0°32'	
								Planet's axial incl	-83° 16'	

Gallina				Gallina I				Gallina II				Gallina III	
K type star				Lava Reverse rotation				Ashen gelisol				Barren desert	
Iron ore	84,811,348			Iron ore	63,807,140			Iron ore	17,507,370			Iron ore	3,496,838
Copper ore	67,312,034			Copper ore	59,610,788			Copper ore	3,840,408			Copper ore	3,860,838
Silicon ore	42,193,804			Silicon ore	3,813,902			Silicon ore	34,670,650			Silicon ore	3,709,252
Titanium ore	68,131,078			Titanium ore	33,560,352			Titanium ore	8,275,688			Titanium ore	26,295,038
Stone	104,816,948			Stone	5,023,884			Stone	9,808,848			Stone	89,984,216
Coal	922,298			Coal	492,776			Coal	429,522			Coal	0
				Ocean type	Lava			Ocean type	None			Ocean type	None
Mass	0.877 M°			Wind energy	70%			Wind energy	40%			Wind energy	0%
Spectral class	K			Solar energy	129%			Solar energy	59 %			Solar energy	50%
Radius	0.87 R												
Luminosity	0.962 LO			Construction area	87.7%			Construction area	100.0%			Construction area	100.0%
Temperature	5,251 K			Orbit type	Orbit radius			Orbit type	Orbit radius			Orbit type	Orbiting the star
Age	8,902 Myrs			Orbit radius	Orbiting the star			Orbit radius	Orbiting the star			Orbit radius	Orbit radius
				Orbital period	1,319 sec			Orbital period	13,584 sec			Orbital period	20,977 sec
				Rotation period	-329 sec			Rotation period	511 sec			Rotation period	501 sec
				Orbit inclination	-3°35'			Orbit inclination	0°33'			Orbit inclination	-6°55'
				Planet's axial inc	2°27'			Planet's axial inc	-6°22'			Planet's axial inc	30° 15'

Sirrah		13 LY		Sirrah I				Sirrah II		
K type star				Gas giant				Ice field gelisol Satellite		
Iron ore	40,499,758			Collectable Hydr	1.12 /s	ok		Iron ore	18,278,776	
Copper ore	2,433,940			Collectable Deute	0.04 /s	ok		Copper ore	676,924	
Silicon ore	68,598,698							Silicon ore	20,297,274	
Titanium ore	67,377,794			Orbit type	Orbit radius			Titanium ore	54,695,630	
Stone	25,652,340			Orbit radius	Orbiting the star			Stone	10,241,710	
Coal	924,816			Orbital period	8,841 sec			Coal	423,272	
Fire ice	50,560,700			Rotation period	135 sec			Ocean type	Water	
Water	Ocean			Orbit inclination	0°35'			Water	Construction area	
Hydrogen	1.12 /s			Planet's axial incl	14° 21'			Wind energy	70%	
Deuterium	0.04 /s							Solar energy	65%	
								Fire ice	44,135,890	
Mass	0.749 M o									
Spectral class	K							Construction are	99.2%	
Radius	0.81 R							Orbit type	Orbit radius	
Luminosity	0.935 L°							Orbit radius	Orbit I	
Temperature	4,931 K							Orbital period	969 sec	
Age	3,827 Myrs							Rotation period	767 sec	
								Orbit inclination	-12° 42'	
								Planet's axial inc	6°6'	

Choo		16 ly	Choo I		Choo II			Choo III		Choo IV		Choo V		Choo VI	
0 type star			Lava		Gobi			Arid desert		Barren desert		Ashen gelisol		Ice field gelisol	
Iron ore	171,618,862		Iron ore	101,739,902	Iron ore	7,722,132		Iron ore	8,987,814	Iron ore	4,423,688	Iron ore	26,650,250	Iron ore	22,095,076
Copper ore	224,784,860		Copper ore	111,550,638	Copper ore	58,415,072		Copper ore	44,402,160	Copper ore	5,040,260	Copper ore	4,700,682	Copper ore	676,048
Silicon ore	161,414,664		Silicon ore	8,258,584	Silicon ore	68,354,306		Silicon ore	0	Silicon ore	9,568,420	Silicon ore	50,386,366	Silicon ore	24,846,988
Titanium ore	249,031,268		Titanium ore	55,120,868	Titanium ore	0		Titanium ore	52,372,624	Titanium ore	34,821,372	Titanium ore	22,553,942	Titanium ore	84,162,462
Stone	332,511,118		Stone	6,915,556	Stone	53,202,776		Stone	83,298,644	Stone	147,997,962	Stone	23,109,500	Stone	17,986,680
Coal	10,994,586		Coal	1,979,604	Coal	7,396,716		Coal	618,870	Coal	0	Coal	568,418	Coal	430,958
Fire ice	62,877,902		Ocean type	Lava	Ocean type	None		Ocean type	None	Ocean type	None	Ocean type	None	Ocean type	Water
Kimberlite ore	14,663,556		Wind energy	70%	Wind energy	80%		Wind energy	150 %	Wind energy	0%	Wind energy	40%	Water	Construction area
Fractal silicon	4,678,418		Solar energy	145%	Solar energy	126%		Solar energy	114 %	Solar energy	100 %	Solar energy	85 %	Wind energy	70%
Water	Ocean		Kimberlite ore	5,281,174	Kimberlite ore	9,382,382	Mining 1/2			Fire ice	4,238,642			Solar energy	72%
					Optical grating	3,766,776	Mining 1/1	Construction area	100.0 %			Construction area	100.0%	Fire ice	58,639,260
Mass	47.950 M		Construction area	86.6%				Orbit type	Orbit radius	Construction area	100.0 %	Orbit type	Orbit radius	Fractal silicon	4,678,418
Spectral class	0		Orbit type	Orbiting the star	Construction area	98.6%		Orbit radius	Orbiting the star	Orbit type	Orbit radius	Orbit radius	Orbiting the star		
Radius	4.81 R		Orbit radius	Orbit radius	Orbit type	Orbit radius		Orbital period	12,253 sec	Orbit radius	Orbiting the star	Orbital period	28,128 sec	Construction area	98.3%
Luminosity	2.445 L O		Orbital period	2 689 sec	Orbit radius	Orbiting the star		Rotation period	1,304 sec	Orbital period	18,544 sec	Rotation period	939 sec	Orbit type	Orbiting the star
Temperature	49,759 K		Rotation period	954 sec	Orbital period	7,788 sec		Orbit inclination	3° 53'	Rotation period	1,201 sec	Orbit inclination	5° 59'	Orbit radius	Orbit radius
Age	8 Myrs		Orbit inclination	-2°59'	Rotation period	581 sec		Planet's axial incl	2°54'	Orbit inclination	-3° 14'	Planet's axial incl	-6°39'	Orbital period	41,905 sec
			Planet's axial incl	-6°19'	Orbit inclination	4°13'				Planet's axial incl	4°43'			Rotation period	858 sec
			Orbit inclination	-1°32'	Planet's axial incl	-4° 41'								Orbit inclination	-1°32'
			Planet's axial incl	0°3'										Planet's axial incl	0°3'

Canum Venaticorum	
B type star	
Iron ore	Signal detected
Copper ore	Signal detected
Silicon ore	Signal detected
Titanium ore	Signal detected
Stone	Signal detected
Coal	Signal detected
Sulfuric acid	Ocean
Fire ice	Signal detected
Hydrogen	o
Mass	14.631 M
Spectral class	B
Radius	2.55 R
Luminosity	1.859 LO
Temperature	25,885 K
Age	16 Myrs

DenebOkab		DenebOkab I		DenebOkab II		DenebOkab III		DenebOkab IV		DenebOkab V	
A type star		Lava		Gobi Horizontal rotation		Barren desert		Ashen gelisol		Ice field gelisol	
Iron ore	367,277,528	Iron ore	234,214,258	Iron ore	9,602,440	Iron ore	14,754,558	Iron ore	60,953,198	Iron ore	47,753,074
Copper ore	378,543,140	Copper ore	252,876,912	Copper ore	93,952,572	Copper ore	15,109,728	Copper ore	15,082,564	Copper ore	1,521,364
Silicon ore	342,361,298	Silicon ore	10,590,880	Silicon ore	149,252,580	Silicon ore	28,314,402	Silicon ore	114,732,448	Silicon ore	39,470,988
Titanium ore	390,908,256	Titanium ore	125,258,534	Titanium ore	0	Titanium ore	89,763,140	Titanium ore	32,116,386	Titanium ore	143,770,196
Stone	558,318,298	Stone	15,220,648	Stone	96,944,140	Stone	380,835,290	Stone	51,962,050	Stone	13,356,170
Coal	39,090,846	Coal	3,063,176	Coal	33,592,706	Coal	O	Coal	1,529,678	Coal	905,286
Fractal silicon	45,580,936	Ocean type	Lava	Ocean type	None	Ocean type	None	Ocean type	None	Ocean type	Water
Optical grating	4,485,894	Wind energy	70%	Wind energy	80%	Wind energy	0%	Wind energy	40%	Water	Construction area
Water	Ocean	Solar energy	135%	Solar energy	108%	Solar energy	92 %	Solar energy	78%	Wind energy	70%
		Fractal silicon	39,297,108			Fire ice	17,975,188	Fractal silicon	6,283,828	Solar energy	66%
Mass	2.683 MO			Construction area	99.5%	Optical grating	4,485,894			Fire ice	16,522,774
Spectral class	A	Construction area	86.6%	Orbit type	Orbit radius			Construction area	100.0%		
Radius	1.48 RO	Orbit type	Orbit radius	Orbit radius	Orbiting the star	Construction area	100.0%	Orbit type	Orbit radius	Construction area	98.6%
Luminosity	1.254 L O	Orbit radius	Orbiting the star	Orbital period	14,849 sec	Orbit type	Orbit radius	Orbit radius	Orbiting the star	Orbit type	Orbit radius
Temperature	9,948K	Orbital period	5,082 sec	Rotation period	704 sec	Orbit radius	Orbiting the star	Orbital period	35,006 sec	Orbit radius	Orbiting the star
Age	564 Myrs	Rotation period	407 sec	Orbit inclination	-7° 0'	Orbital period	23,198 sec	Rotation period	724 sec	Orbital period	52,805 sec
		Orbit inclination	-2°6'	Planet's axial incl	71° 3'	Rotation period	1,439 sec	Orbit inclination	1° 10'	Rotation period	1,714 sec
		Planet's axial incl	-1° 59'			Orbit inclination	-4° 44'	Planet's axial incl	0° 51'	Orbit inclination	0° 54'
						Planet's axial incl	3° 2'			Planet's axial incl	10° 41'

Zubeneschamali				Zubeneschamali II								Zubeneschamali III				Zubeneschamali IV				Zubeneschamali V	
B type star				Ice giant								Volcanic ash Safelite				Barren desert				Ashen gelisol	
Iron ore	153,512,118			Collectable Hydn	0.40/s							Iron ore	90,354,608			Iron ore	12,015,386			Iron ore	41,312,780
Copper ore	183,190,124											Copper ore	110,196,360			Copper ore	10,067,990			Copper ore	3,238,832
Silicon ore	188,746,030			Orbit type	Orbit radius							Silicon ore	3,562,860			Silicon ore	16,703,152			Silicon ore	78,292,998
Titanium ore	137,320,474			Orbit radius	Orbiting the star							Titanium ore	70,219,458			Titanium ore	46,547,828			Titanium ore	20,553,188
Stone	333,076,602			Orbital period	6,190 sec							Stone	14,694,856			Stone	206,426,316			Stone	32,674,668
Coal	20,090,496			Rotation period	144 sec							Coal	996,202			Coal	0			Coal	825,096
Fire ice	3,630,194			Orbit inclination	2°7'							Ocean type	Sulfuric acid			Ocean type	None			Ocean type	None
Sulfuric acid	Ocean			Planet's axial incl	-71 9'							Sulfuric acid	Construction area			Wind energy	0%			Wind energy	40%
Fire ice	0.83 /s			Solar energy	141%							Wind energy	80%			Solar energy	91 %			Solar energy	77%
Hydrogen	0.40/s											Solar energy	132%			Fire ice	3,630,194				
				Construction area	97.9%															Construction area	100.0%
Mass	15.131 M o			Orbit type	Orbit radius							Construction area	98.8%			Construction area	100.0%			Orbit type	Orbit radius
Spectral class	B			Orbit radius	Orbiting the star							Orbit type	Orbit radius			Orbit type	Orbit radius			Orbit radius	Orbiting the star
Radius	3.17 RO			Orbital period	3,573 sec							Orbit radius	Orbit II			Orbit radius	Orbiting the star			Orbital period	36,705 sec
Luminosity	1.873 LO			Rotation period	685 sec							Orbital period	1,362 sec			Orbital period	24,181 sec			Rotation period	1,041 sec
Temperature				Orbit inclination								Rotation period	741 sec			Rotation period	796 sec			Orbit inclination	2°52'
Age	12 Myrs			Planet's axial incl	-19° 50'							Orbit inclination	-11° 25'			Orbit inclination	-4° 57'			Planet's axial incl	0° 14'
												Planet's axial incl	-16 47'			Planet's axial incl	0°45'				

NTR J0431+05				NTR J0431+051		
Neutron star				Ice field gelisol Orbital resonance 1:2		
Iron ore	77,964,772			Iron ore	77,964,772	
Copper ore	1,951,876			Copper ore	1,951,876	
Silicon ore	53,963,356			Silicon ore	53,963,356	
Titanium ore	196,689,402			Titanium ore	196,689,402	
Stone	17,652,532			Stone	17,652,532	
Coal	1,228,850			Coal	1,228,850	
Fire ice	69,031,402			Ocean type	Water	
Fractal silicon	39,068,700			Water	Construction area	
Optical grating	16,907,306			Wind energy	70%	
Unipolar magnet	4,688,518			Solar energy	144%	
Water	Ocean			Fire ice	69,031,402	
				Fractal silicon	39,068,700	
Mass	1.431 MO			Optical grating	16,907,306	
Spectral class	X			Unipolar magnet	4,688,518	
Radius	0.31 RO					
Luminosity	0.627 LO			Construction area	99.2%	
Temperature	63,361,280 K			Orbit type	Orbit radius	
Age	1,161 Myrs			Orbit radius	Orbiting the star	
				Orbital period	23,688 sec	
				Rotation period	11,844 sec	
				Orbit inclination	-6° 0'	
				Planet's axial inclination		
				Mining unipolar magnets		

Eta Aquarii		14 ly		Eta Aquarii I		
White dwarf				Ice field gelisol Orbital resonance 1:4		
Iron ore	19,763,598			Iron ore	19,763,598	
Copper ore	809,132			Copper ore	809,132	
Silicon ore	16,236,874			Silicon ore	16,236,874	
Titanium ore	74,038,366			Titanium ore	74,038,366	
Stone	5,612,594			Stone	5,612,594	
Coal	394,368			Coal	394,368	
Fire ice	28,075,948			Ocean type	Water	
Kimberlite ore	23,689,616			Water	Construction area	
Fractal silicon	23,597,756			Wind energy	70%	
Optical grating	18,270,865			Solar energy	43%	
Water	Ocean			Fire ice	28,075,948	
				Kimberlite ore	23,689,616	Mining 3
Mass	0.550MC			Fractal silicon	23,597,756	Mining 2
Spectral class	X			Optical grating	18,277,690	Mining 4/4
Radius	0.29 RO					
Luminosity	0.346 L LO			Construction are	98.7%	
Temperature	122,007K			Orbit type	Orbit radius	
Age	8,792 Myrs			Orbit radius	Orbiting the star	
				Orbital period	10,354 sec	
				Rotation period	2,588 sec	
				Orbit inclination	-5°8'	
				Planet's axial inc	2° 9'	

Kappa Bootis		10 LY		Kappa Bootis I				Kappa Bootis II				Kappa Bootis III				Kappa Bootis IV				Kappa Bootis V				Kappa Bootis VI	
Btype star				Lava				Gobi				Gas giant				Volcanic ash Satellite				Ice giant				Barren desert Satellite	
Iron ore	140,859,616			Iron ore	77,395,176			Iron ore	4,814,030			Collectable Hydro	1.00 /s		Collecting 40	Iron ore	52,401,518			Collectable Hydro	0.33 /s		Collecting 40	Iron ore	6,248,892
Copper ore	163,828,662			Copper ore	74,539,738			Copper ore	36,831,312			Collectable Deut	0.04/s		Collecting 40	Copper ore	47,222,592								Copper ore	5,235,020
Silicon ore	66,975,362			Silicon ore	4,980,294			Silicon ore	47,443,064							Silicon ore	5,433,516			Orbit type	Orbit radius			Silicon ore	9,118,488
Titanium ore	110,688,460			Titanium ore	46,508,764			Titanium ore	0			Orbit type	Orbit radius			Titanium ore	31,278,826			Orbit radius	Orbiting the star			Titanium ore	32,900,870
Stone	179,369,700			Stone	7,709,104			Stone	42,160,408			Orbit radius	Orbiting the star			Stone	8,191,040			Orbital period	40,719 sec			Stone	121,309,148
Coal	12,706,640			Coal	1,409,804			Coal	10,737,540			Orbital period	11,344 sec			Coal	559,296			Rotation period	162 sec			Coal	0
Sulfuric acid	Ocean			Ocean type	Lava			Ocean type	None			Rotation period	198 sec			Ocean type	Sulfuric acid			Orbit inclination	-6° 14'			Ocean type	None
Hydrogen	1.00/s			Wind energy	70%			Wind energy	80%			Orbit inclination	6°4'			Sulfuric acid	Construction area			Planet's axial incl	12° 17'			Wind energy	0%
Deuterium	0.04/s			Solar energy	139%			Solar energy	130 %			Planet's axial incl	22° 13'			Wind energy	80%							Solar energy	74%
Fire ice	0.72 /s															Solar energy	117%								
Hydrogen	0.33 /s			Construction area	88.7%			Construction area	98.9%															Construction area	100.0%
				Orbit type	Orbit radius			Orbit type	Orbit radius							Construction area	99.0%							Orbit type	Orbit radius
Mass	9.507 M			Orbit radius	Orbiting the star			Orbit radius	Orbiting the star							Orbit type	Orbit radius							Orbit radius	Orbit IV
Spectral class	B			Orbital period	4,044 sec			Orbital period	6,763 sec							Orbit radius	Orbit III							Orbital period	1,353 sec
Radius	2.49 R o			Rotation period	551 sec			Rotation period	624 sec							Orbital period	1,342 sec							Rotation period	824 sec
Luminosity	1.682 LO			Orbit inclination	4°49'			Orbit inclination	-6° 2'							Rotation period	684 sec							Orbit inclination	-2°46'
Temperature	20,386 K			Planet's axial incl	1°9'			Planet's axial incl	35° 26'							Orbit inclination								Planet's axial incl	0° 24'
Age	44 Myrs															Planet's axial incl	-11° 7								

Alcor		
K type star		
Iron ore	Signal defected	
Copper ore	Signal detected	
Silicon ore	Signal detected	
Titanium ore	Signal detected	
Stone	Signal defected	
Coal	Signal detected	
Fire ice	Signal detected	
Kimberlite ore	Signal detected	
Fractal silicon	Signal detected	
Optical grating	Signal defected	mining 1/1
Water	Ocean	
Mass	0.789 M o	
Spectral class	K	
Radius	0.83 RO	
Luminosity	0.947 LO	
Temperature	5,065 K	
Age	5,259 Myrs	

				NTR J0431+051		
				Ice field gelisol Orbital resonance 1:2		
				Iron ore	77,964,772	
				Copper ore	1,951,876	
				Silicon ore	53,963,356	
				Titanium ore	196,689,402	
				Stone	17,652,532	
				Coal	1,228,850	
				Ocean type	Water	
				Water	Construction area	
				Wind energy	70 %	
				Solar energy	144%	
				Fire ice	69,031,402	
				Fractal silicon	39,068,700	
				Optical grating	16,907,306	
				Unipolar magnet	4,688,518	
				Construction are	99.2 %	
				Orbit type	Orbiting the star	
				Orbit radius	Orbit radius	
				Orbital period	23,688 sec	
				Rotation period	11,844 sec	
				Orbit inclination	-6° 0'	
				Planet's axial inc	0°19'	

Markab		Markab I		Markab II		Markab III		Markab IV		Markab V	
B type star		Lava		Arid desert Horizontal rotation		Volcanic ash		Gas giant Plural Satellites		Gobi Satellite	
Iron ore	207,387,622	Iron ore	96,673,910	Iron ore	5,713,650	Iron ore	70,203,168	Collectable Hydr	1.04 /s	Iron ore	6,918,454
Copper ore	250,190,586	Copper ore	98,670,688	Copper ore	35,331,140	Copper ore	67,318,942	Collectable Deut	0.04 /s	Copper ore	45,118,142
Silicon ore	99,373,044	Silicon ore	4,105,030	Silicon ore	0	Silicon ore	2,317,778			Silicon ore	45,625,242
Titanium ore	155,498,840	Titanium ore	51,923,982	Titanium ore	48,639,260	Titanium ore	41,048,662	Orbit type	Orbit radius	Titanium ore	0
Stone	128,843,600	Stone	5,401,630	Stone	56,555,838	Stone	8,461,734	Orbit radius	Orbiting the star	Stone	39,906,354
Coal	16,059,088	Coal	1,662,634	Coal	631,068	Coal	494,948	Orbital period	17,676 sec	Coal	12,676,694
Sulfuric acid	Ocean	Ocean type	Lava	Ocean type	None	Ocean type	Sulfuric acid	Rotation period	282 sec	Ocean type	None
Hydrogen	1.04 ls	Wind energy	70%	Wind energy	150%	Sulfuric acid	Construction area	Orbit inclination	6° 8'	Wind energy	80%
Deuterium	0.04 /s	Solar energy	152 %	Solar energy	140%	Wind energy	80 %	Planet's axial incl	-18° 57'	Solar energy	103 %
						Solar energy	130 %				
Mass	9.819 MO	Construction area	87.8%	Construction area	100.0%					Construction area	98.8%
Spectral class	Radius	Orbit type	Orbiting the star	Orbit type	Orbiting the star	Construction area	98.5%			Orbit type	Orbit radius
Radius	2.35 R o	Orbit radius	Orbit radius	Orbit radius	Orbit radius	Orbit type	Orbit radius			Orbit radius	Orbit IV
Luminosity	1.695 L°	Orbital period	1,654 sec	Orbital period	3,872 sec	Orbit radius	Orbiting the star			Orbital period	1,342 sec
Temperature	20,755 K	Rotation period	593 58C	Rotation period	569 sec	Orbital period	6,837 sec			Rotation period	458 sec
Age	48 Myrs	Orbit inclination	5°4'	Orbit inclination	0° 41'	Rotation period	1,013 sec			Orbit inclination	-12° 10'
		Planet's axial incl	-2°37'	Planet's axial incl	-79° 37'	Orbit inclination	3°15'			Planet's axial incl	-10° 27'
						Planet's axial incl	6°0'				

Beta Piscium				Beta Piscium I				Beta Piscium II				Beta Piscium III	
Ktypestar				Volcanic ash Horizontal rotation				Arid desert				Ashen gelisol	
Iron ore	72,373,640			Iron ore	45,328,450			Iron ore	5,805,572			Iron ore	21,239,618
Copper ore	83,404,518			Copper ore	54,562,248			Copper ore	26,111,412			Copper ore	2,730,858
Silicon ore	38,610,576			Silicon ore	3,529,420			Silicon ore	0			Silicon ore	35,081,156
Titanium ore	73,073,996			Titanium ore	39,253,796			Titanium ore	24,355,638			Titanium ore	9,464,562
Stone	71,631,820			Stone	4,431,934			Stone	53,694,246			Stone	13,505,640
Coal	1,327,166			Coal	389,294			Coal	481,430			Coal	456,442
Sulfuric acid	Ocean			Ocean type	Sulfuricacid			Ocean type	None			Ocean type	None
				Wind energy	80%			Wind energy	150%			Wind energy	40%
Mass	0.805 MO			Solar energy	125%			Solar energy	99 %			Solar energy	65%
Spectral class	K												
Radius	0.90 R o			Construction area	98.9%			Construction area	100.0%			Construction area	100.0%
Luminosity	0.939 LO			Orbit type	Orbit radius			Orbit type	Orbit radius			Orbit type	Orbit radius
Temperature				Orbit radius	Orbiting the star			Orbit radius	Orbiting the star			Orbit radius	Orbiting the star
Age	9,981 Myrs			Orbital period	1,272 sec			Orbital period	3,069 sec			Orbital period	8,866 sec
				Rotation period	452 sec			Rotation period	339 sec			Rotation period	427 sec
				Orbit inclination	-7°27'			Orbit inclination	-2°2'			Orbit inclination	-6°46'
				Planet's axial inc	70° 15'			Planet's axial inc	-17° 31'			Planet's axial inc	-30° 25'

Eta Arietis				Eta Arietis I				Eta Arietis II				Eta Arietis III				Eta Arietis IV	
G type star				Volcanic ash Reverse rotation				Ocean world				Ice field gelisol				Barren desert	
Iron ore	51,127,500			Iron ore	35,957,366			Iron ore	0			Iron ore	10,125,244			Iron ore	5,044,890
Copper ore	46,778,892			Copper ore	42,557,258			Copper ore	0			Copper ore	451,614			Copper ore	3,770,020
Silicon ore	17,587,454			Silicon ore	1,572,178			Silicon ore	0			Silicon ore	10,426,906			Silicon ore	5,588,370
Titanium ore	92,258,010			Titanium ore	26,471,756			Titanium ore	0			Titanium ore	38,505,858			Titanium ore	27,280,396
Stone	104,766,876			Stone	5,276,450			Stone	0			Stone	6,628,858			Stone	92,861,568
Coal	5,690,514			Coal	301,834			Coal	5,183,294			Coal	205,386			Coal	0
Crude oil	69.86/s			Ocean type	Sulfuric acid			Ocean type	Water			Ocean type	Water			Ocean type	None
Fire ice	3,969,196			Sulfuric acid	Construction area			Water	Construction area			Water	Construction area			Wind energy	0%
Spiniform stalagr	10,658,152			Wind energy	80%			Wind energy	110%			Wind energy	70%			Solar energy	54%
Sulfuric acid	Ocean			Solar energy	133 %			Solar energy	94%			Solar energy	63%				
Water	Ocean							Crude oil	69.86/s							Construction area	100.0%
Water	Ocean			Construction area	99.3 9 %			Spiniform stalagr	10,658,152			Construction area	98.2%			Orbit type	Orbit radius
				Orbit type	Orbit radius							Orbit type	Orbit radius			Orbit radius	Orbiting the star
Mass	0.930 MO			Orbit radius	Orbiting the star			Construction area	0.4%			Orbit radius	Orbiting the star			Orbital period	21,231 sec
Spectral class	G			Orbital period	1,344 sec			Orbit type	Orbit radius			Orbital period	14,145 sec			Rotation period	1,059 sec
Radius	0.93 R o			Rotation period	-314 sec			Orbit radius	Orbiting the star			Rotation period	703 sec			Orbit inclination	7° 43'
Luminosity	0.983 LO			Orbit inclination	1° 11'			Orbital period	5,301 sec			Orbit inclination	4°7'			Planet's axial incl	-30° 14'
Temperature				Planet's axial incl	-27° 32'			Rotation period	702 sec			Planet's axial incl	7° 59'				
Age	6,499 Myrs							Orbit inclination	3° 16'								
								Planet's axial incl	-12° 47'								