

# Stellar Metamorphosis: Classification of astrons within 20 light years



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**Abstract:** The observed stars and planets (astrons<sup>1</sup>) within 20 light years of our solar system are classified according to Stellar Metamorphosis<sup>2</sup>. After the table some notes are provided on certain classifications and explanations on why certain choices were made.

Our local stellar environment contains many stars and much more planets; we have observed all the stars (probably) and only a few of the planets. With all the new more powerful observational tools (like TESS\*) we are sure to find many more planets in the coming years. With tools like CHEOPS\*\* and in the future ARIEL\*\*\* more characteristics (like chemical composition/type of atmosphere etc) will be observed. These new observations will be of great help to Stellar Metamorphosis to fill in much more detail on how stars/planets evolve, confirm predictions and guide future research. This calls for the classification of stars/planets that we have observed. I chose to limit the classification to within 20 light years, it gives a good amount of systems to classify and if/when we start to visit other systems these are the ones we will venture out to so it is good to know what is out there. Also the observations of stars/planets within this distance is more trustworthy. I already made the Astron Classification table<sup>3</sup>, so I used that table to classify all the known stars and planets within 20 light years. This automatically sets up many predictions for every planet within 20 light years, making Stellar Metamorphosis the prime classification method in astronomy.

The legend is below on page 1, the classification table is on page 2,3 and the notes start from page 4. I have also submitted a printable version of the table to viXra, it is called: "**astrons within 20ly\_printable version**".

## Legenda:

**Blue text** = Possibly exists, probable, but unconfirmed

**Red text** = Ruled out, disconfirmed

**Bolded text** / **highlighted in any color** = There is a note on this object, see pages after the table

Distance(ly) = Distance in light years

Time -->	Very Young										Very Old									
Population	I		II		III		IV		V		VI		VII		VIII		IX		X	
Type	White	Yellow	Orange	Red	Brown	Gas Giant	Gas Dwarf	Ocean	Pre-Earth	Life Host	Post Life	Solid	Mercurius + Pluto	Temperature average in Kelvin (K)	Size average in Jupiter radius (R <sub>J</sub> )	Distance (ly)	System	Star	Planet	Other
Centauri	4.3	α Centauri A	α Centauri B	Proxima Centauri	Planet X	Jupiter + Saturn	Uranus + Neptune		Barnard b	Earth	Venus + Mars			8750	15	4.3	Solar			
Barnard	5.9			Barnard A						Proxima Centauri b	α Centauri Bc			6350	10	5.9				
Luhman 16	6.5			Luhman 16A+B		WISE 0855-0714				(Luhman 16Ab)				4450	7	6.5				
WISE 0855-0714	7.2													5	5	7.2				
Wolf 359	7.8			Wolf 359										5	5	7.8				
Lalande	8.3			Lalande 21185										5	5	8.3				
Sirius	8.6	Sirius A	(Sirius C)											5	5	8.6				
Luyten 726-8	8.8			Luyten 726-8A+B										5	5	8.8				
WISE 1541-2250	9.1			WISE 1541-2250										5	5	9.1				
Ross 154	9.7			Ross 154										5	5	9.7				
Ross 248	10.3			Ross 248										5	5	10.3				
Epsilon Eridani	10.4					Epsilon Eridani b								5	5	10.4				
Lacaille 9352	10.7			Lacaille 9352										5	5	10.7				
Ross 128	11			Ross 128										5	5	11				
EZ Aquarii	11.1			EZ Aquarii A+B+C										5	5	11.1				
WISE 1506-7027	11.1			WISE 1506-7027		(61 Cygni Ab+Ac+Bb)								5	5	11.1				
61 Cygni	11.4													5	5	11.4				
Procyon	11.4	Procyon A								Procyon B				5	5	11.4				
Struve 2398	11.5			Struve 2398 A	Struve 2398 B									5	5	11.5				
Groombridge 34	11.6			Groombridge 34 A	Groombridge 34 B		Groombridge 34 Ac							5	5	11.6				
DX Cancr	11.6			DX Cancr	DX Cancr									5	5	11.6				
Tau Ceti	11.7													5	5	11.7				
Epsilon Indi	11.8			Epsilon Indi A	Epsilon Indi Ba + Bb									5	5	11.8				
SIPS 1259-4336	11.8			SIPS 1259-4336										5	5	11.8				
GJ 1061	11.9			GJ 1061										5	5	11.9				
YZ Ceti	12.1			YZ Ceti										5	5	12.1				
Luyten's Star	12.2			Luyten's Star										5	5	12.2				
Teegarden's Star	12.5			Teegarden's Star	Teegarden's Star									5	5	12.5				
SCR 1845-6357	12.6			SCR 1845-6357 A	SCR 1845-6357 B									5	5	12.6				
Kapteyn's Star	12.8			Kapteyn's Star										5	5	12.8				
Lacaille 8760	12.9			Lacaille 8760										5	5	12.9				
Kruiger 60	13			Kruiger 60 A	Kruiger 60 B									5	5	13				
DEN 1048-3956	13.1			DEN 1048-3956										5	5	13.1				
Ross 614	13.4			Ross 614A	Ross 614B									5	5	13.4				
UGPS J0722-0540	13.4			UGPS J0722-0540										5	5	13.4				
Wolf 1061	14			Wolf 1061										5	5	14				
Wolf 424	14			Wolf 424 A+B										5	5	14				
Van Maanen 2	13.9			Van Maanen 2										5	5	13.9				
Gliese 1	14.1			Gliese 1										5	5	14.1				



## NOTES

### A note on the colours used for the Population Types

I used red for Population I (plasma), yellow for Population II (gas), blue for Population III (liquid) and green for Population IV (solid). This is done to match the colours of the 'Platonic Solids', see picture:



The ancients had **Fire**, **Air**, **Water**, **Earth** and Ether as the elements. My understanding from a young age was that they were not saying that these are the elements matter is made from but that they were saying something about the possible aggregate states of matter; to me this is much more logical. And as explained in my astron classification paper<sup>3</sup>, these are just generalizations of which phase an astron is in. You can see the ancients also had Aether, this could either be a super solid, a super plasma or as I think; it is photonic matter (a sea of photons known as the charge field). Photons which are recycled by all other matter in any state, I touched on this in my paper *The Charge Engine of Stellar Evolution*<sup>4</sup>.

### A note on **Ross 128 b**

This astron is just larger than Earth and it is marked extra green in the classification table because it is possibly a dinosaur planet; there are other candidates but this planet is a more archetypical example where creatures like dinosaurs can thrive. This does not mean there are dinosaurs and that it looks like the picture below but at least it is possible. A dinosaur planet in stellar metamorphosis has a very thick atmosphere with a higher pressure, 3 to 5 bar, this higher pressure is what makes it possible for giant creatures like dinosaurs to exist and especially only this pressure range can accommodate the largest flying reptile quetzalcoatlus<sup>5,6</sup>. Dinosaur-like creatures have a natural place to exist only with Stellar Metamorphosis, also with stellar metamorphosis we can predict features about astrons that are not possible with any other paradigm. For Ross 128 it is now predicted we will find oxygen and methane as byproducts of biological life and possibly dinosaur-like life.

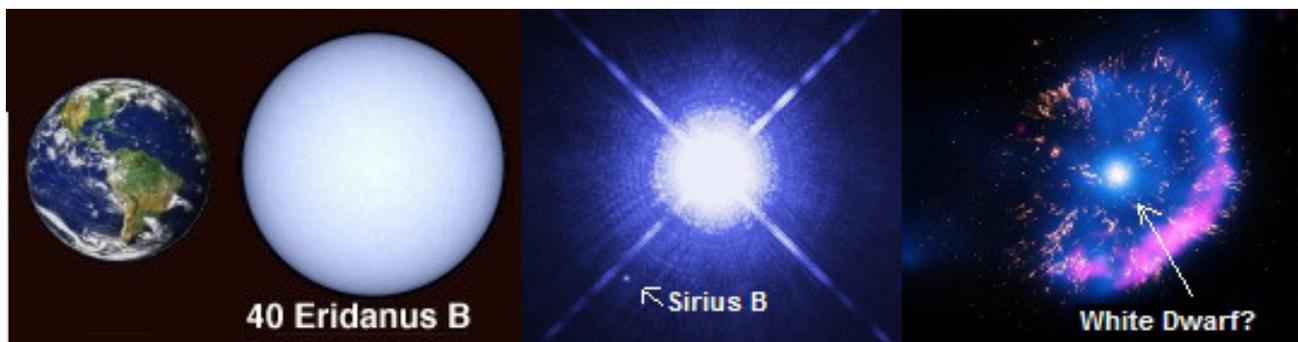


### A note on **Gliese 974 B**

I highlighted this world because in standard astronomy the description has it has either a) rocky or b) gaseous, it is a sub gas dwarf, this makes it an ocean world. An ocean world is not a rocky world, the crust has not yet formed, it is in the process of forming. It does have a gaseous atmosphere but that is no longer it's main characteristic. It is really in a different phase of evolution compared to a gas dwarf. More detail is in my paper: From Neptune to Earth<sup>7</sup>.

### A note on **'white dwarf stars'**

These objects are said to be stars (plasmatic and shining astrons), they have high temperatures (in a variety of ranges) and apparently shine but are very dim. The real difference with normal stars is that white dwarf stars have a very small radius (compared to normal stars) and in Stellar Metamorphosis the classification of astrons is done generally first by radius. That is why I have placed **'white dwarf stars'** as pre-earth, life host and post-life types based only on the radius that is given for them; this does not mean they are these types of astron. But I do question what exactly these objects are and that is why I made them stand out, because I think these are objects that need further examination. This will be the subject of a future exploratory paper about these objects called: 'What are White Dwarf stars?':



### References:

\* TESS: <https://www.nasa.gov/tess-transiting-exoplanet-survey-satellite>

\*\* CHEOPS: <http://sci.esa.int/cheops/>

\*\*\* ARIEL: <http://sci.esa.int/ariel/>

1 M. Zajaczkowski, Star and Planet: Stages of Astron Evolution: <http://vixra.org/pdf/1510.0381v1.pdf>

2 J. Wolynski, Stellar Metamorphosis: <http://vixra.org/pdf/1205.0107v9.pdf>

3 D. Archer, 2017, Astron Classification Table: <http://vixra.org/pdf/1712.0460v1.pdf>

4 D. Archer, 2018, The Charge Engine of Stellar Evolution: <http://vixra.org/pdf/1811.0168v1.pdf>

5 O. Levenspiel, 2006, Atmospheric Pressure at the Time of Dinosaurs :

<http://www.ingenieriaquimica.org/system/files/Chemical%20Paleo-Engineer.pdf>

6 J. Wolynski, Dinosaurs in 3 to 5 Bar Atmospheric Pressure: <http://vixra.org/pdf/1810.0225v1.pdf>

7 D. Archer, 2018, From Neptune to Earth: <http://vixra.org/pdf/1801.0149v1.pdf>