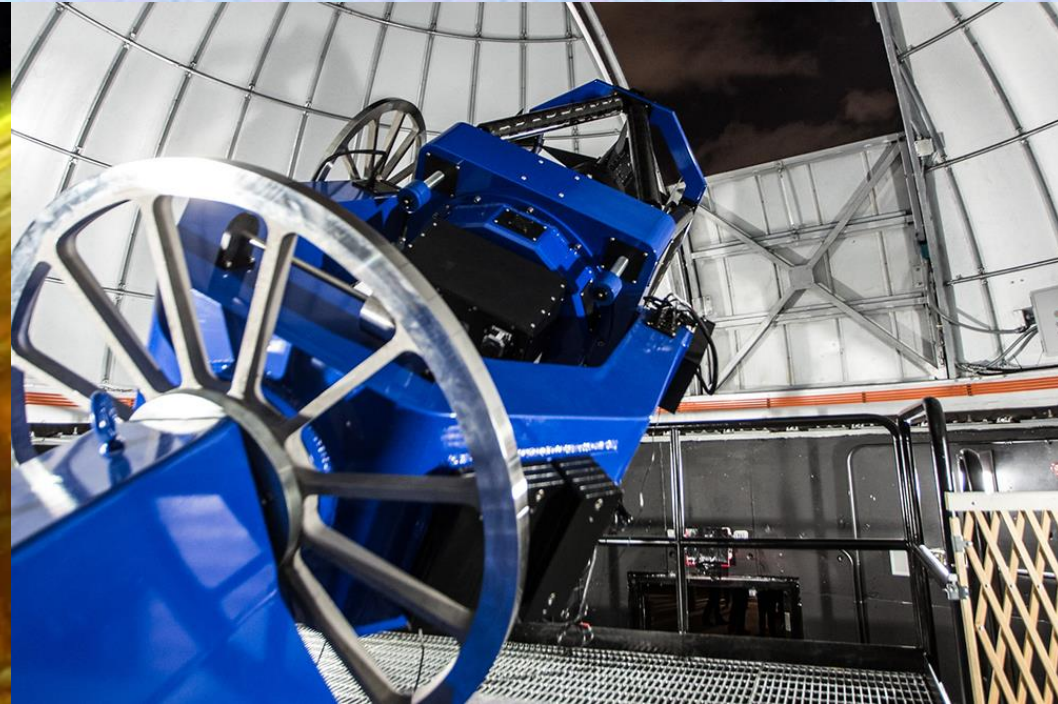


The Stars of Star Trek



Dr. James Webb -FIU

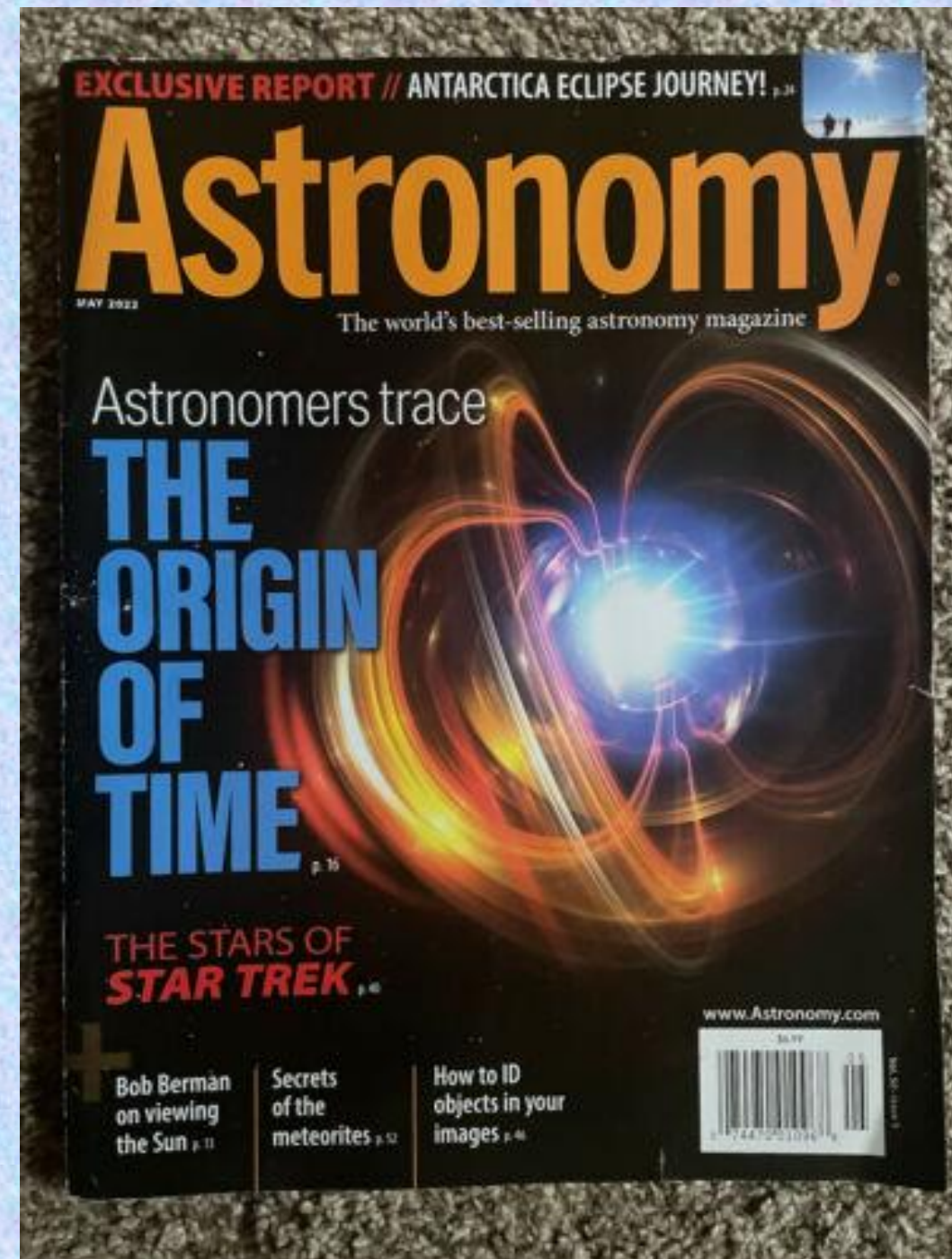
Jonathon Barata – Archimedian Academy high school

Ernesto Guevara - FIU

The project: Photograph all of the stars mentioned in the Star Trek universe accessible with the Stocker 24" telescope and learn about them.

Inspiration for the project:
Growing up watching the original series and seeing the Astronomy magazine article "The Stars of Star Trek".

MAY 2022

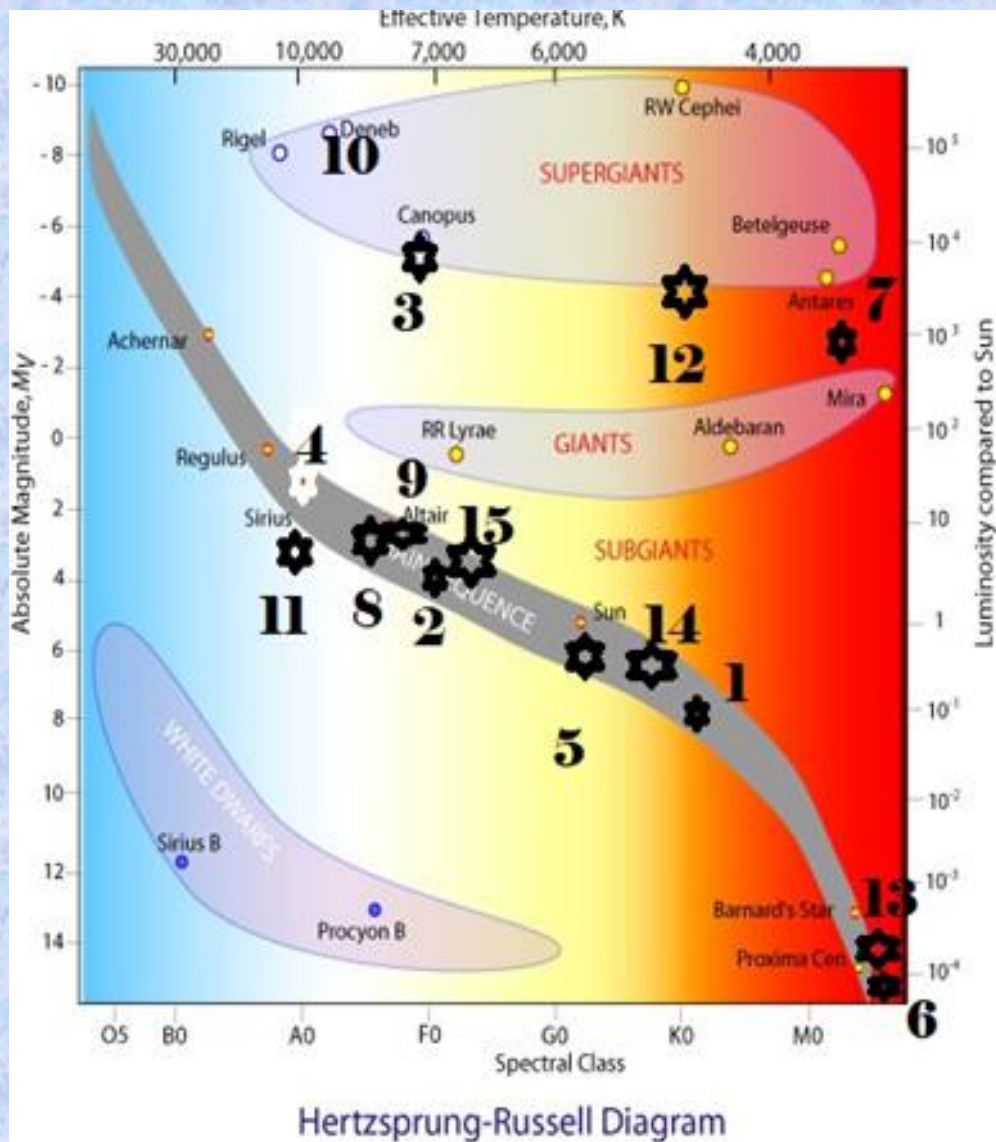


The Stars of Star Trek

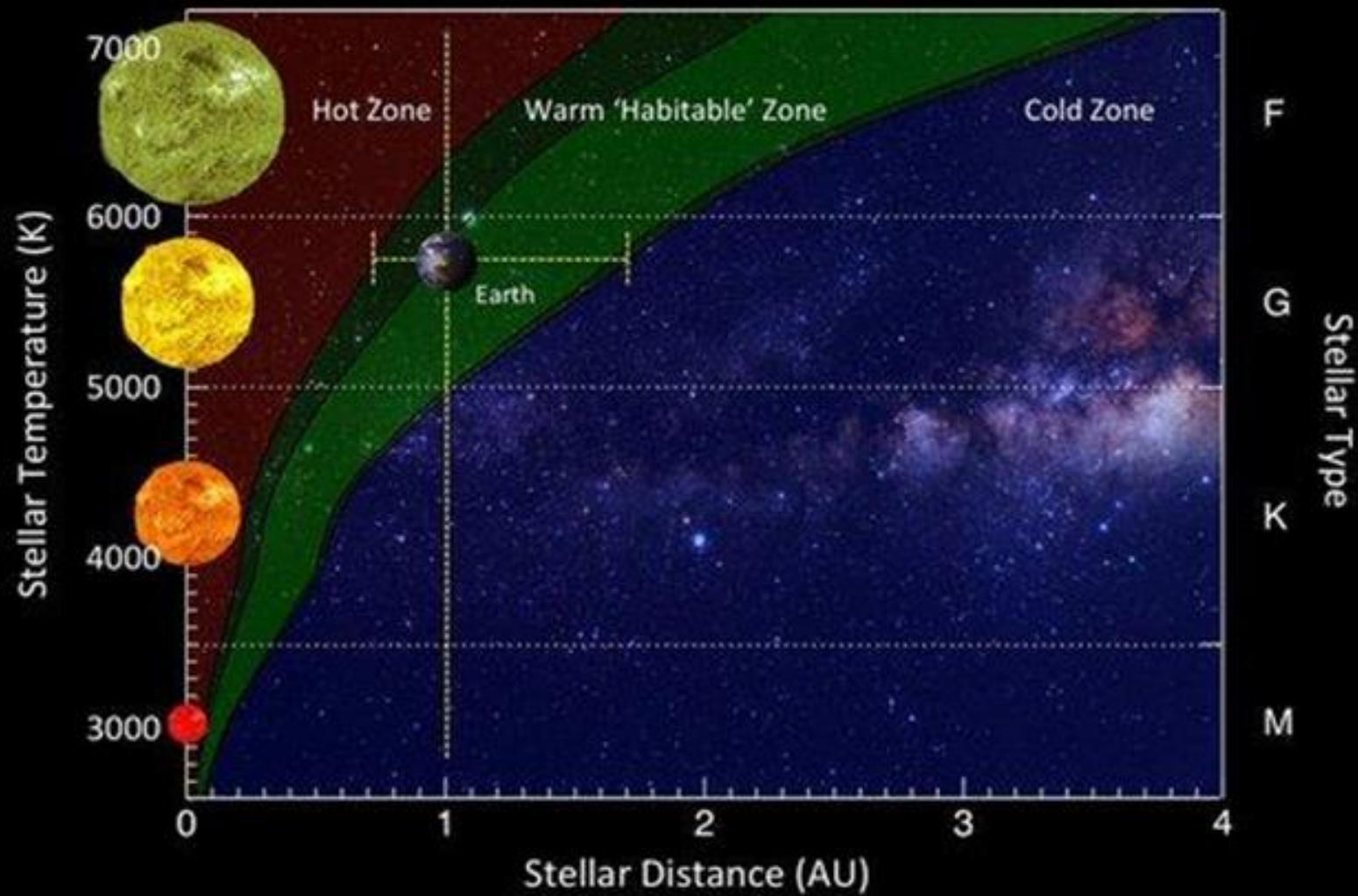


star	other name	distance (LY)	magnitude	spectral type	ra	dec	planets?	date observed
ϵ eridani		10.8	3.7	K2V	3 32 55.48	-09 27 29.73	Yes	Planet Vulcan star 10/25/2022
omicron eridani	Beid	121.7	4.04	F0	04 11 51.9	-06 50 15.28	No	Planet Vulcan star 10/25/2022
α Carina	Canopus	310	-0.7	A9 II	06 23 57.1	-52 41 44.4	No	original series "The ultimate Computer episode"
α Canis Majoris	Sirius	8.7	-1.47	A0 V	06 45 9.0	-16 43 06	No	Done!! 4/19/2022
α Centauri		4.37	0.01	G2 V	14 39 36.4	-60 50 02.37	3 star system no planets	
wolf 424		14	13.2	dM6e/dM6e	12 33 17.3	+9 01 15.8		7/9/2022
HD 93131		14,000	6.5	WN6ha-w	10 43 52.2	-60 07 04.0	No	journey to babel and Babel episodes
α Ceti	Khans planet (menkar)	249	2.53	M1.5 IIIa	03 02 16.7	+04 05 23.0	No	Khans planet 10/7/2022
α Lyrae	Vega	25	+0.26	A0 Va	18 36 56.3	+38 47 01.28	Possible planets	mirror. Mirror episode 7/9/2022
α Aquilae	Altair	16.73	0.76	A7 V	19 50 46.9	+08 52 05.96	No	Amok time original series 7/9/2022
α Cygni	Deneb	2,615	1.25	A2 Ia	20 41 25.9	+45 16 49	No	Star trek 1st next gen Q episode 7/9/2022
γ Trianguli		112.3	4.1	A1 V	02 17 18.8	+33 50 48.8	Dusty torus no planets	original series "The Apple" 10/7/2022
Iota Geminorium		120.4	3.8	G9 III	07 47 53.1	+27 47 53.1	No	original series tribbles 4/10/2022,5/6/2022
	wolf 359	81	13.5	M6 V	10 56 28.9	+07 00 52.0	Yes	next generation "best of both worlds" 5/6/2022
61 Ursa Majoris		31.24	5.3	G8 V	11 41 03.0	_34 12 05.88	No	Enterprise planet Archer 5/6/2022
Iota Bootis		84.8	4.8	A7 V	14 16 09.9	+51 22 02.02	double star, no planets	Enterprise - Dr. Pflox's home planet 7/8/2022

What types of star did they choose?



Habitable Zone of Main Sequence Stars



Epsilon
Eridani



40 Eridani B (brighter)
and C (fainter)



Omicron Eridani
or 40 Eridani A or
KEID



Sirius



wolf 359



Wolf 454



Alpha Ceti



Vega



Alpha Aquila



Deneb



Iota Genimorum



61 Ursa Majoris



Iota Bootes



Gamma Trianguli



High Proper motion
star (moves fast across
the sky). Wolf 359

Wolf 359 5/6/2022

From FIU Stocker astroscience center



Wolf359 May 2020

Wolf359 April 2016



Conclusions

Writers failed to consider even the most rudimentary astrophysics when choosing star to use in the Star trek universe.

They could have chosen main sequence stars but instead randomly chose stars, some of which have evolved off the main sequence destroying any habitable planets that may have been orbiting them.

Other stars they chose like Wolf 454 and Wolf 359, are flare stars that would sterilize any planets orbiting around them with high energy flares.

Oh well, its science fiction, but really cool fiction.