

STAR TREK ***OBSERVING LIST***

BY: CLARA SCATTOLIN

"SPACE, THE FINAL FRONTIER"

***"TO BOLDLY GO WHERE NO ONE HAS
GONE BEFORE"***

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INTRODUCTION

Have you ever wondered where all Gene Roddenberry's famous planets are? Have you ever wanted to see them through a telescope? Well, here's your chance.

You might wonder why anyone might want to look at stars that are probably irrelevant. I don't know about you, but I would love the opportunity to look at a star that someone believed was a solar system, with habitable planets in orbit.

Have you ever stopped to think that maybe someone really lives on that planet? It might not be your best friend, but they could be even more evolved than we are. They might be looking for us, or they might already have all found us, and are planning a visit. Who knows!

All this is just to say, these stars have been mentioned in Gene Roddenberry's famous Star Trek universe.

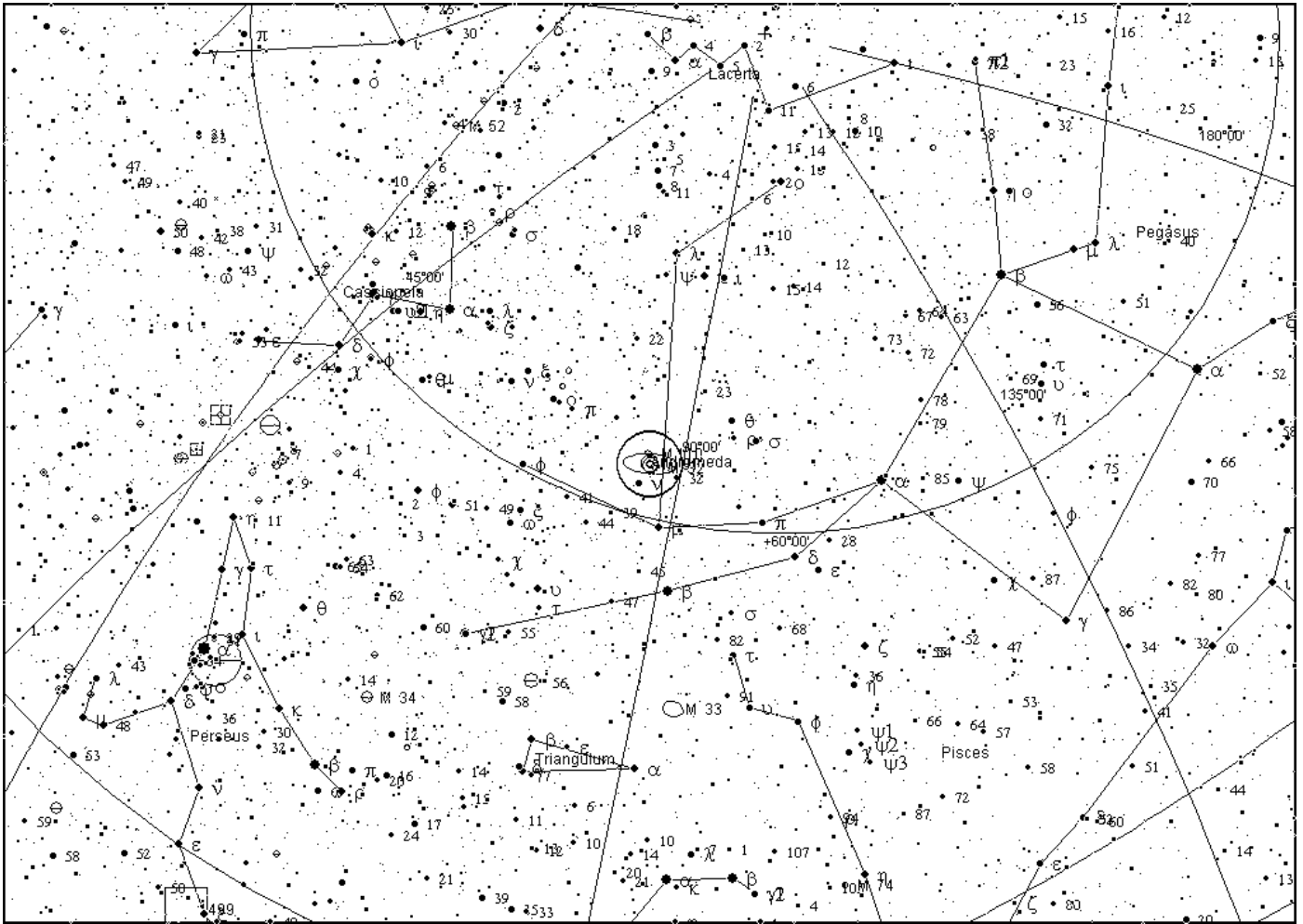
OBJECT LIST

Here is the list of objects to observe. They are sorted in RA for your convenience:

Name:	Catalogue number:
Andromeda Galaxy	M31
Pinwheel Galaxy	M33
	Tau Ceti
	Delta Trianguli
	Gamma Trianguli
Mira	Omicron Ceti
Acamar	Theta Eridani
Menkar	Alpha Ceti
	Epsilon Eridani
Pleiades	M45
Keid	40 Eridani
Hyadum I	Gamma Tauri
Aldebaran	Alpha Tauri
Rigel	Beta Orionis
Capella	Alpha Auriga
Mintaka	Delta Orionis
Crab Nebula	M1
Menkalinan	Beta Auriga
Canopus	Alpha Carinae
Pollux	Beta Gemini
Ashlesha	Epsilon Hyadrae

Regulus	Alpha Leo
	Wolf 359
Merak	Beta Ursa Majoris
Cor Caroli	Alpha Canes Venatici
Cauda Hydrae or Dhanab al Shuja Gamma Hydrae	Gamma Hydrae
Mizar	Zeta Ursa Majoris
Rigil Kentaurus	Alpha Centauri
Izar	Epsilon Bootes
Antares	Alpha Scorpio
Atria	Alpha Trianguli Australis
Barnard's Star	Gliese 699
Vega	Alpha Lyrae
Sheliak	Beta Lyrae
Alsafi	Sigma Draconis
Altair	Alpha Aquila
Deneb	Alpha Cygni
Helix Nebula	NGC 7293

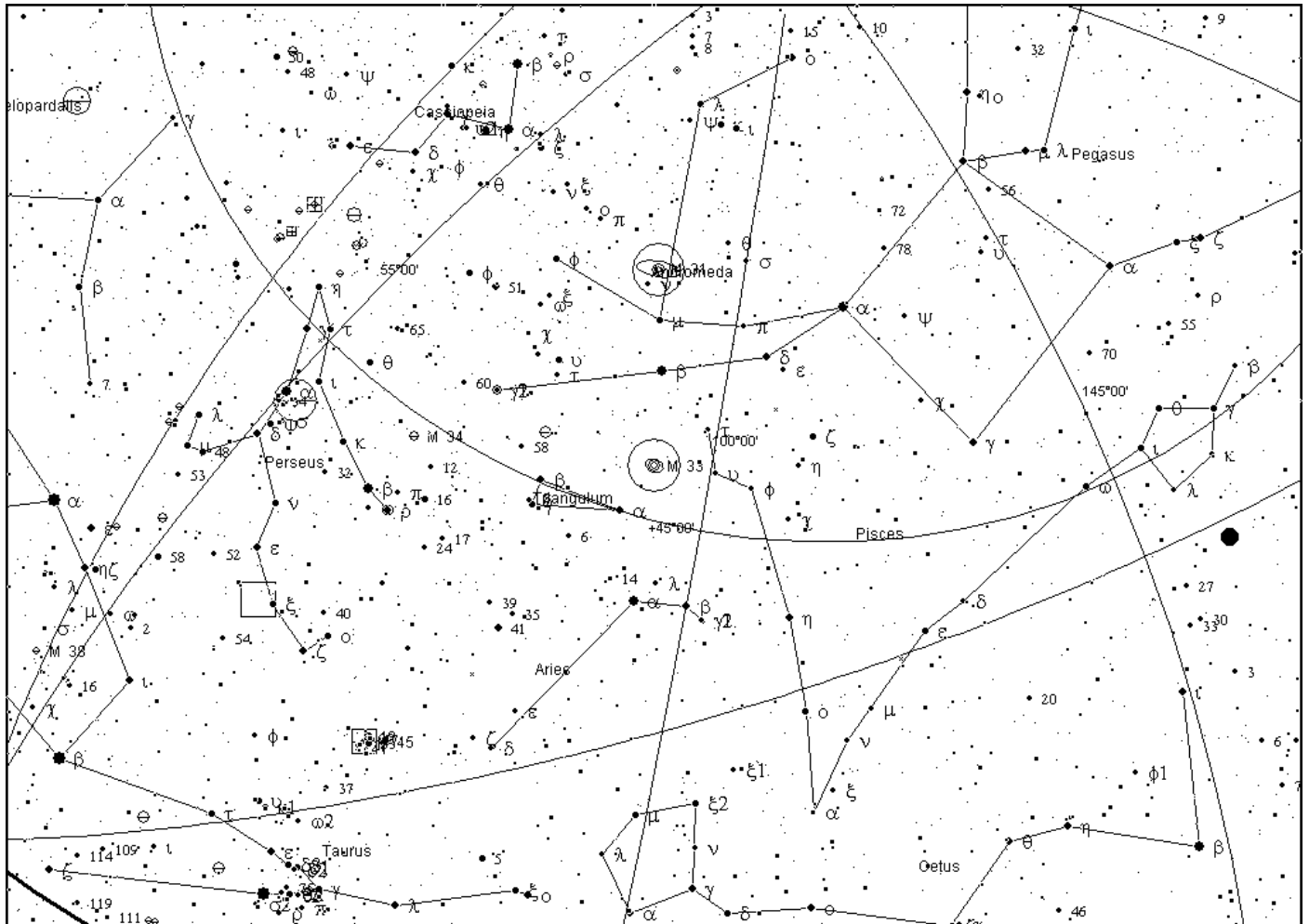
Name	Catalogue	Long Lat	Visual Magnitude	Dimension	Type
Andromeda Galaxy	M31	RA:0h42m42.00s DE:+41°16'00.0"	3.40	189.1'x 61.7'	Galaxy (spiral)



Episode	Name	Description
By Any Other Name (TOS)	Andromeda Galaxy	Home of the Kelvans, who try to take over our galaxy.



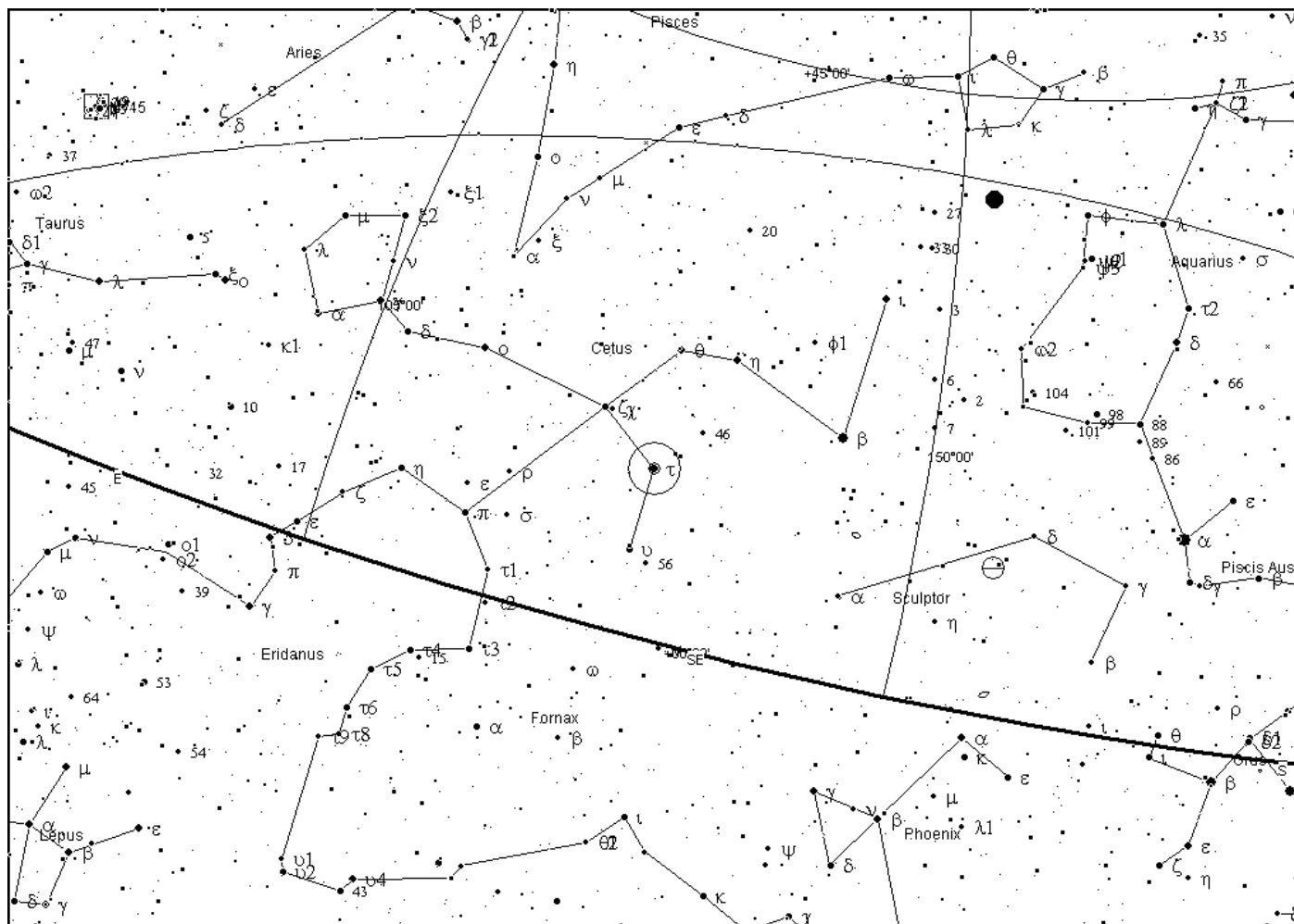
Name	Catalogue	Long Lat	Visual Magnitude	Dimension	Type
Pinwheel Galaxy	M33	RA:1h33m54.00s DE:+30°39'00.0"	5.70	68.7'x 41.6'	Galaxy (spiral)



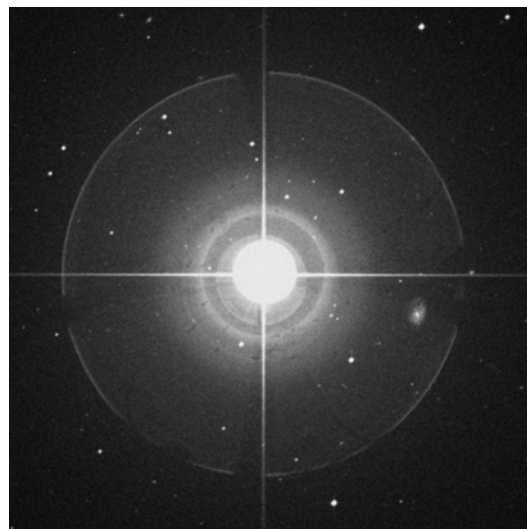
Episode	Name	Description
Where No One Has Gone Before (TNG)		



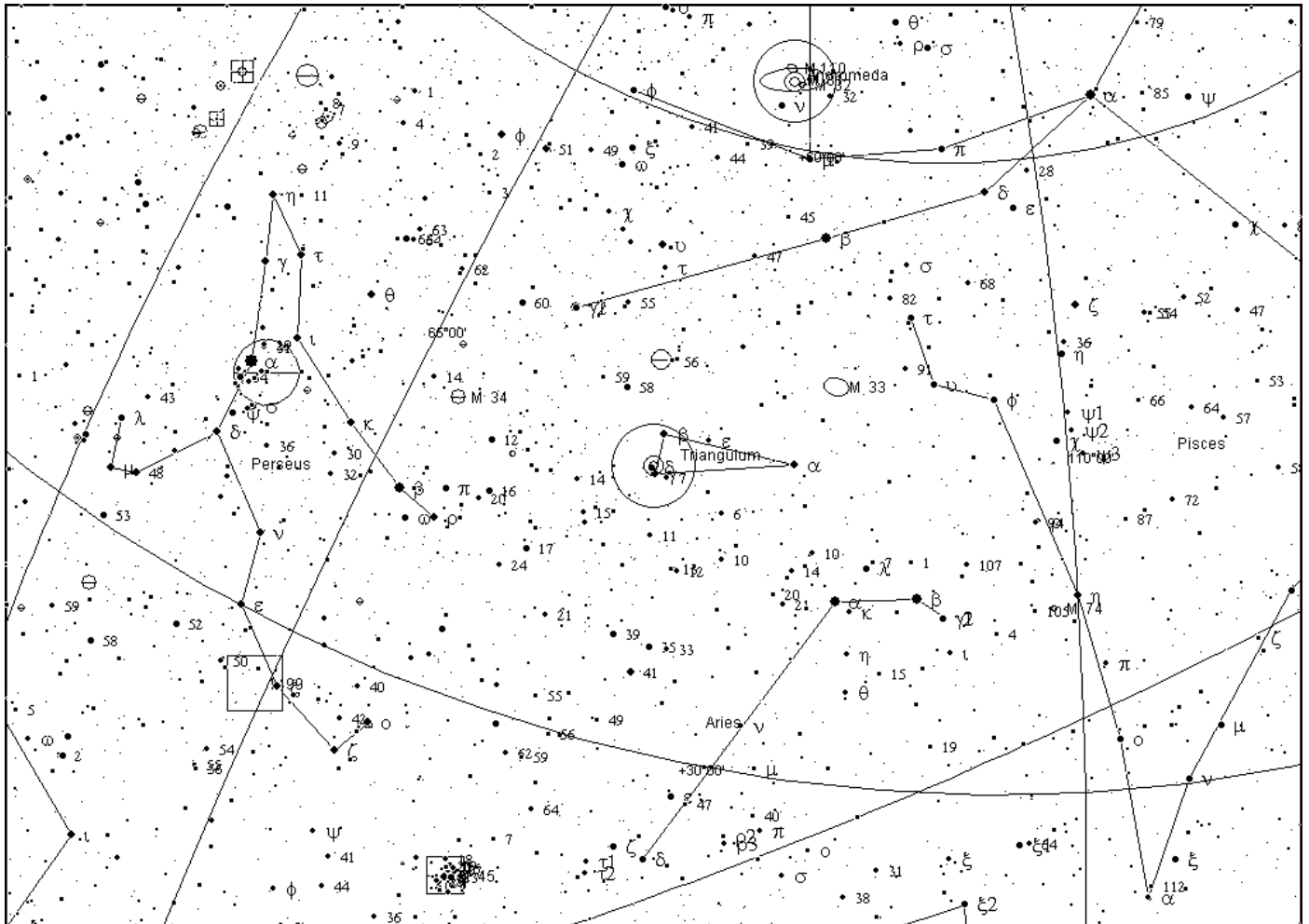
Name	Catalogue	Long Lat	Visual Magnitude	Type
	Tau Ceti	RA:1h44m05.13s DE:-15°56'14.4"	3.5	Star G8 (yellow)



Episode	Name	Description
Conspiracy (TNG)	Tau Ceti III	In the Tau Ceti system, Tau Ceti is the third planet.
Mosaic (VOY)		



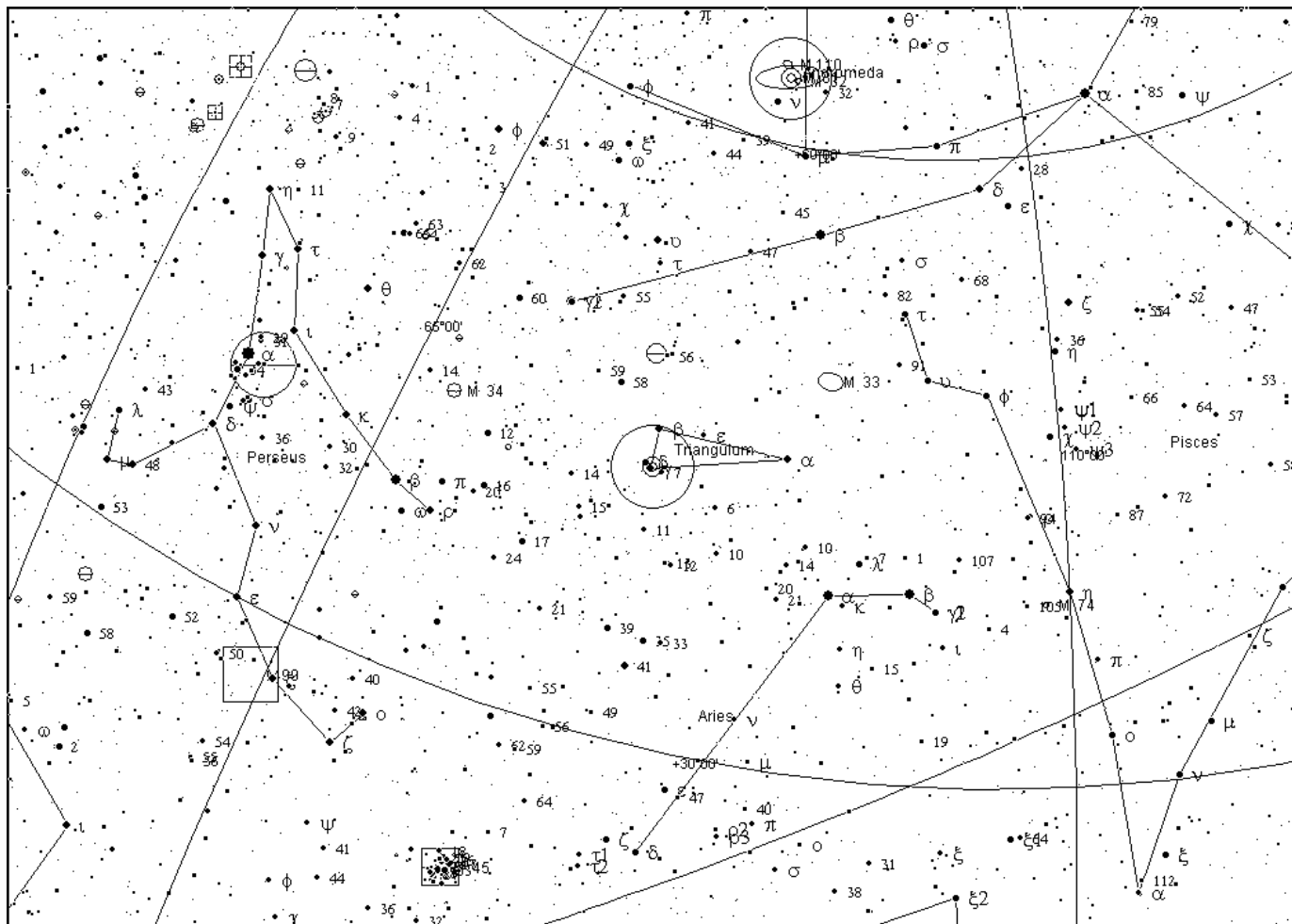
Name	Catalogue	Long Lat	Visual Magnitude	Type
	Delta Trianguli	RA:2h17m02.42s DE:+34°13'29.4"	4.84	G (yellow)



Episode	Name	Description
Time Trap (TAS)	Delta Triangle	A place were many ships of different origins are disappearing.



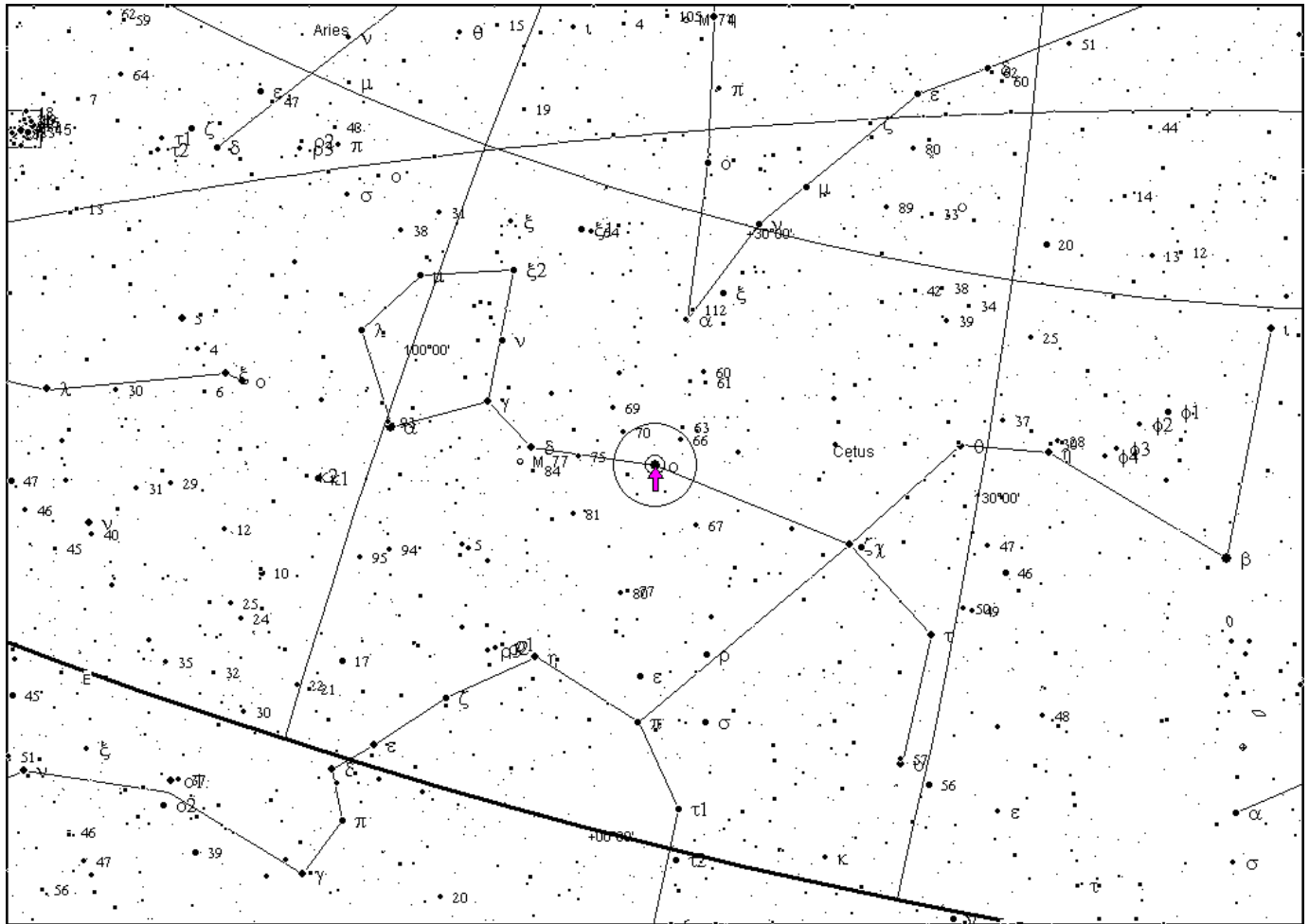
Name	Catalogue	Long Lat	Visual Magnitude	Type
	Gamma Trianguli	RA:2h17m18.84s DE:+33°50'50.4"	4.01	Star A (bluish-white)



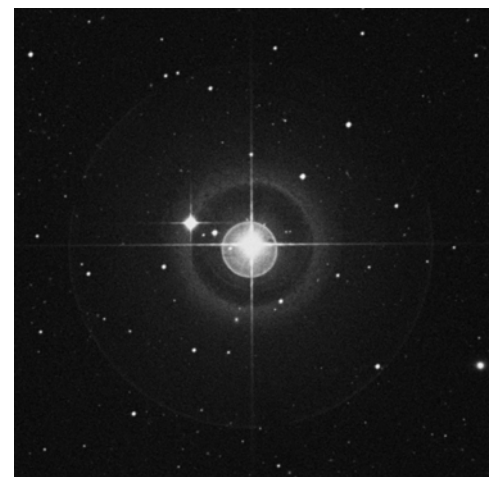
Episode	Name	Description
The Apple (TOS)	Gamma Trianguli VI	This is a planet carefully guarded by Vaal.



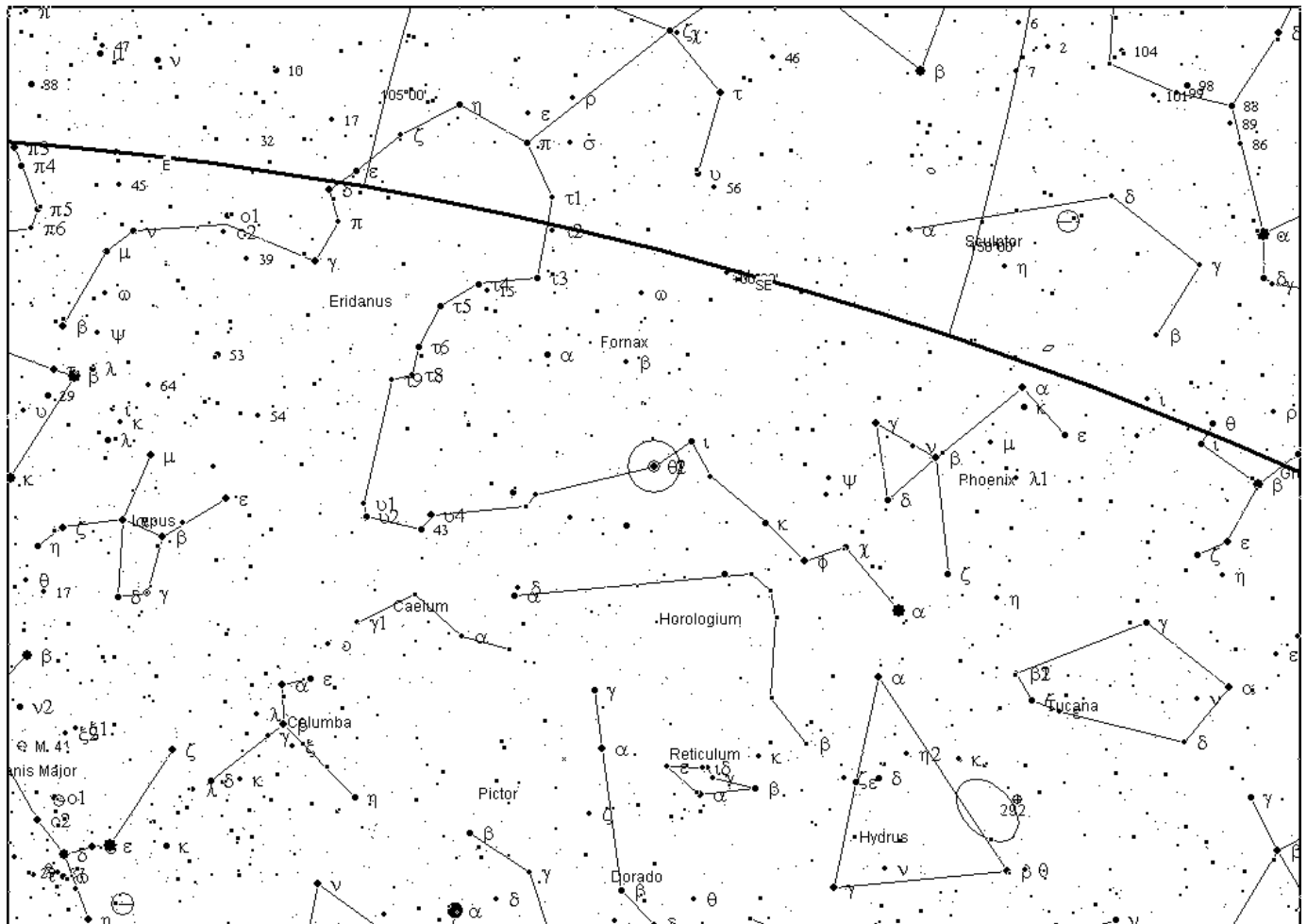
Name	Catalogue	Long Lat	Visual Magnitude	Type
Mira	Omicron Ceti	RA:2h19m20.79s DE:-02°58'37.4"	2.0 - 10.1	Eclipsing binary M (Red Giant)



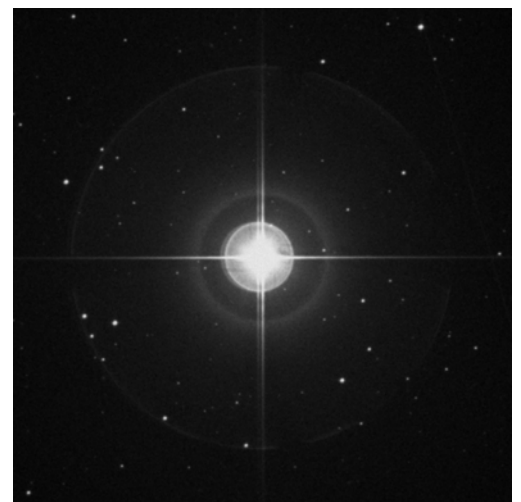
Episode	Name	Description
This Side Of Paradise (TOS)	Ceti III	Planet of spores that keeps you healthy and makes it so you want to stay.
Conspiracy (TNG)	Dytallix B	Planet that infiltrates Star Fleet with alien parasites.



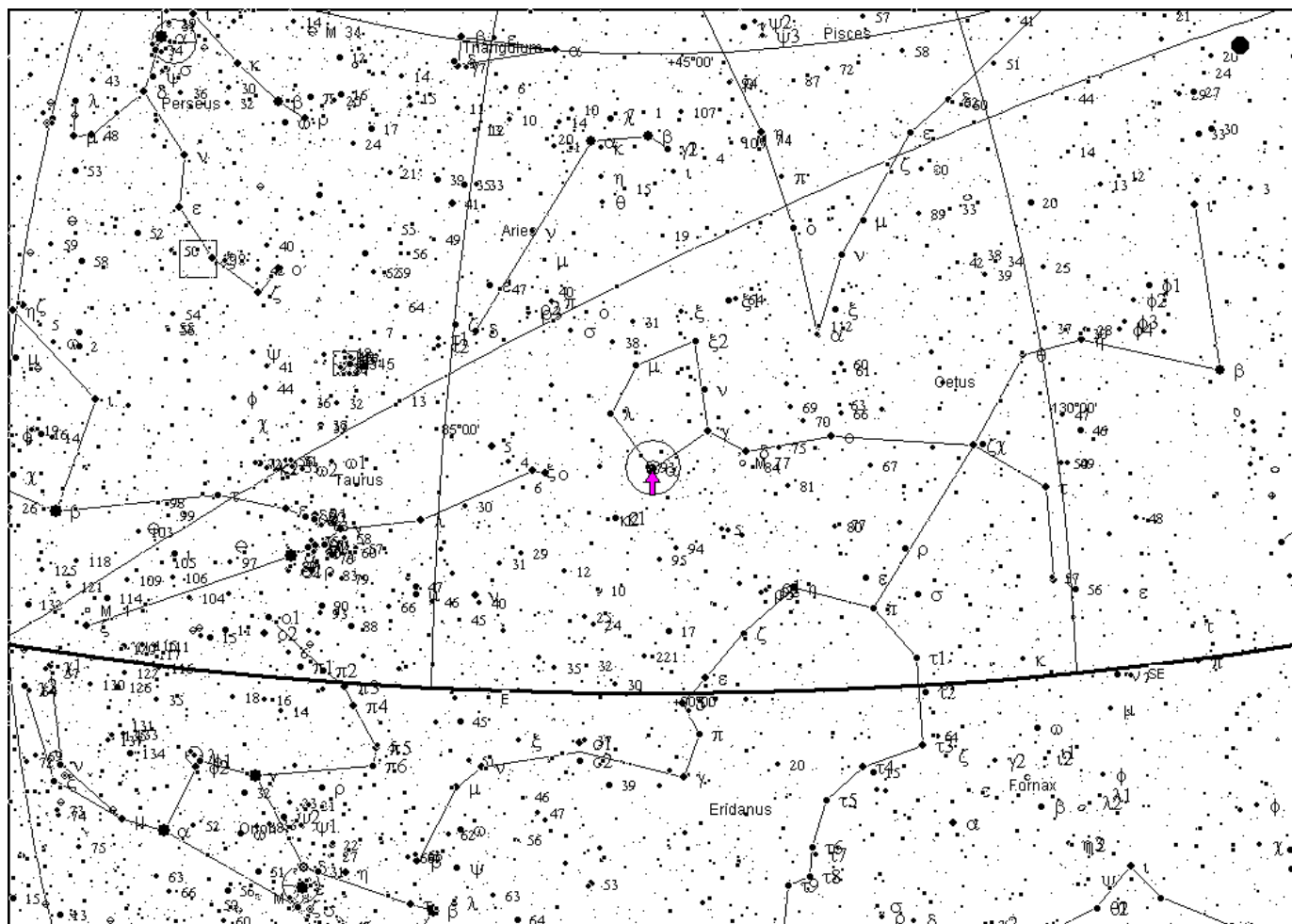
Name	Catalogue	Long Lat	Visual Magnitude	Type
Acamar	Theta Eridani	RA:2h58m15.72s DE:-40°18'17.0"	2.88	Star A (bluish)



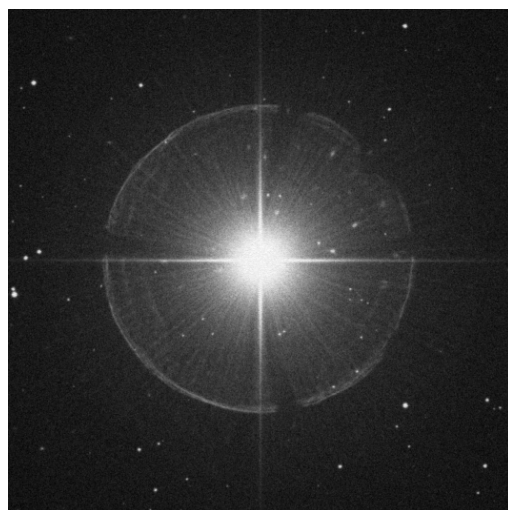
Episode	Name	Description
The Vengeance Factor (TNG)	Acamar III	Acamar III is the homeworld of the Acamarian species.



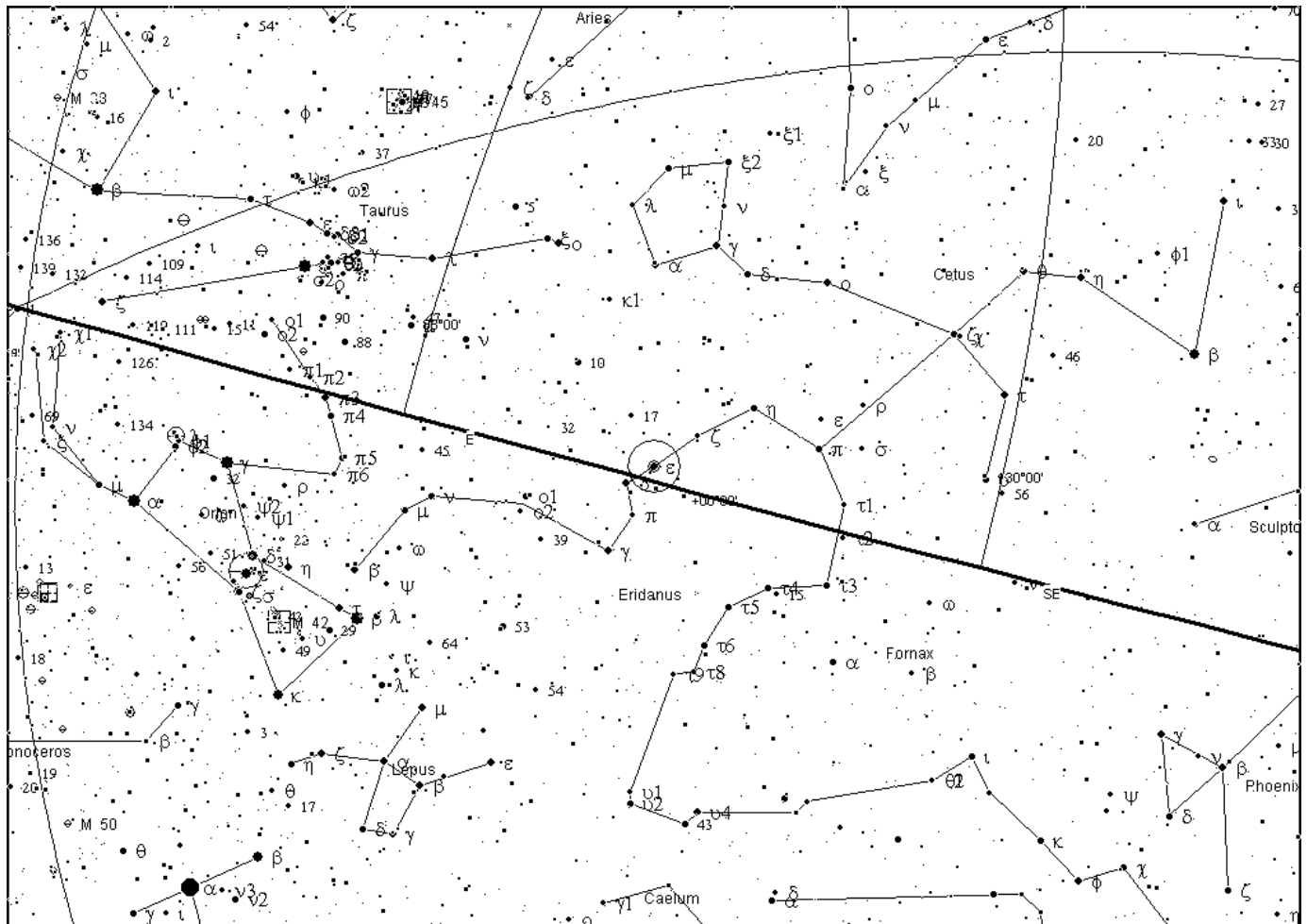
Name	Catalogue	Long Lat	Visual Magnitude	Type
Menkar	Alpha Ceti	RA: 3h02m16.78s DE: +04°05'23.7"	2.54	Star



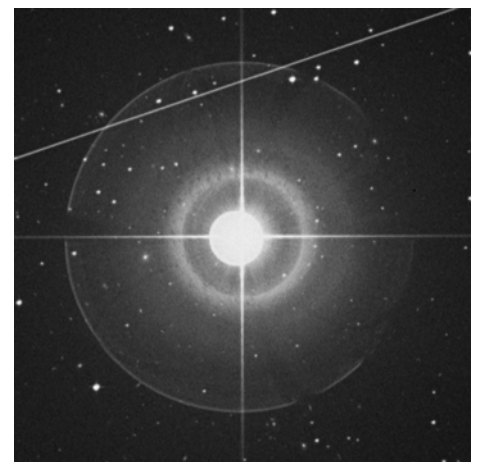
Episode	Name	Description
Space Seed (TOS)	Ceti Alpha V	Were Kirk marooned Khan.
ST2 The Wrath Of Khan (TOS)	Ceti Alpha VI	Was destroyed and shifted the orbit of Ceti Alpha V.



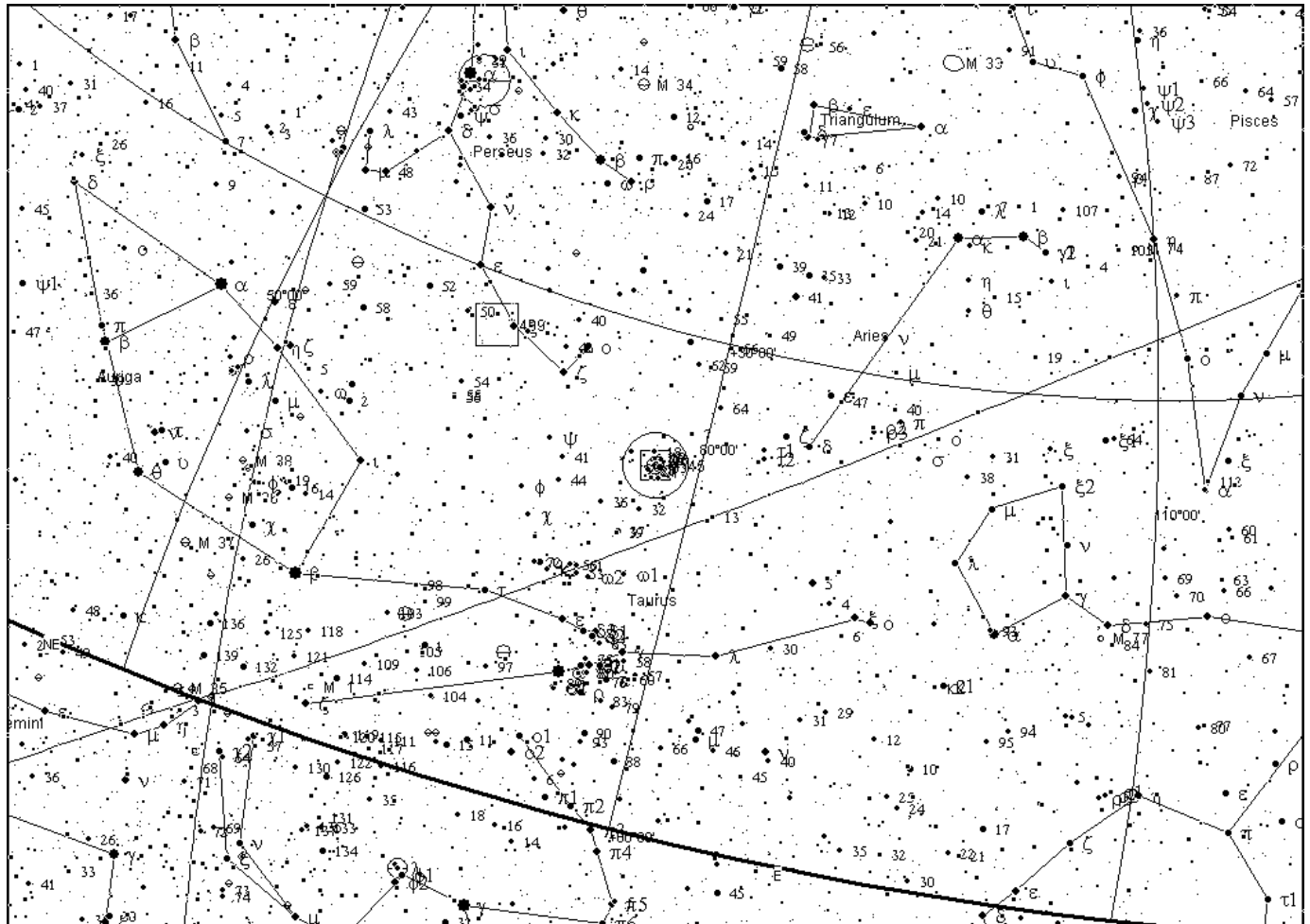
Name	Catalogue	Long Lat	Visual Magnitude	Type
	Epsilon Eridani	RA:3h32m56.42s DE:-09°27'29.9"	3.72	Star K2 (orange)



Episode	Name	Description
Pathways (VOY)	Epsilon IV	Captain Rudolph Ransom met a Klingon war ship near this planet
Pathways (VOY)	Epsilon VIII	



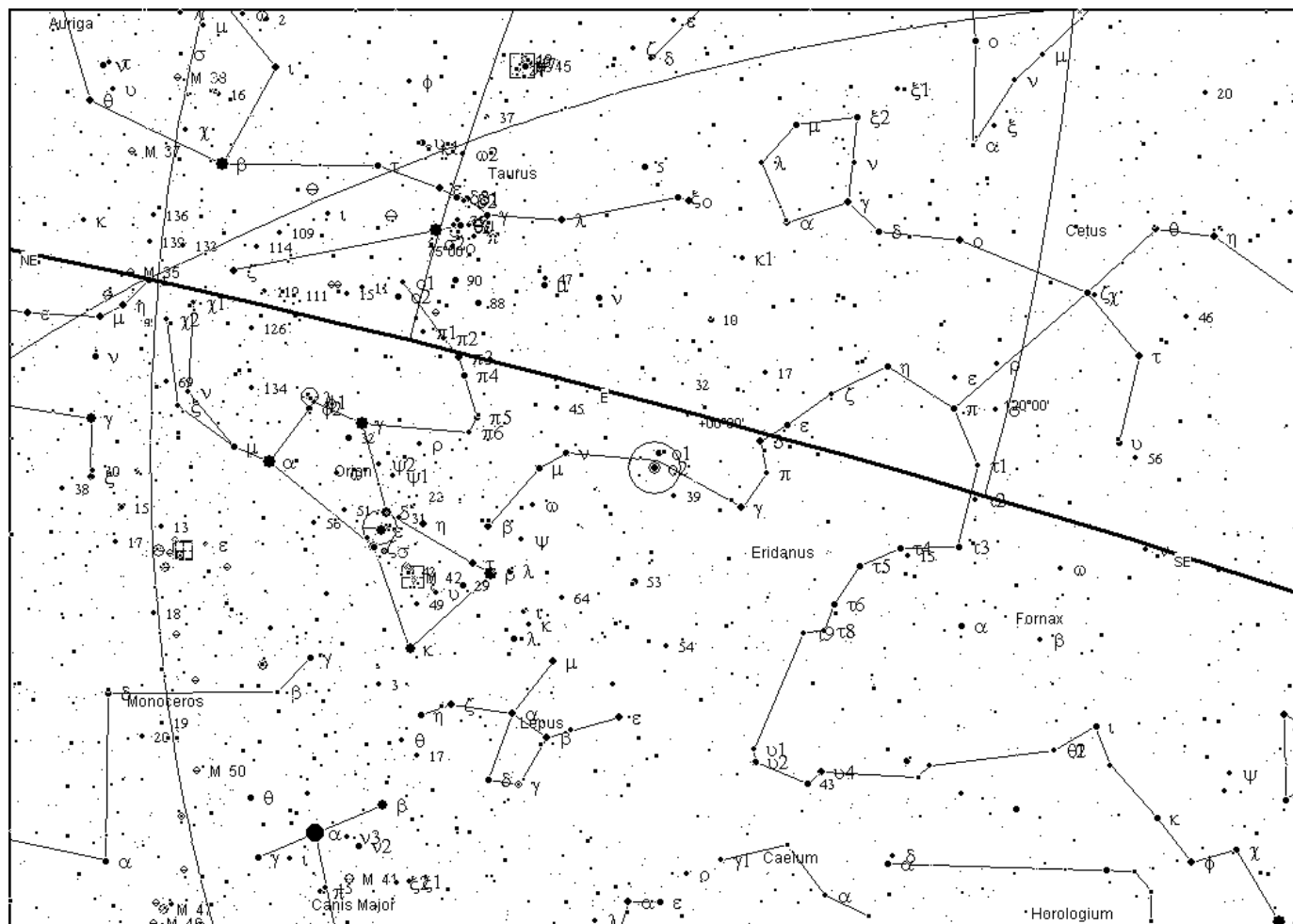
Name	Catalogue	Long Lat	Visual Magnitude	Type
Pleiades	M45	RA:3h47m00.00s DE:+24°07'00.0"	1.20	Open Cluster (with nebulosity)



Episode	Name	Description
Home Soil (TNG)	Pleiades Cluster	A small crystalline life form was found here, it was not believed to be alive.



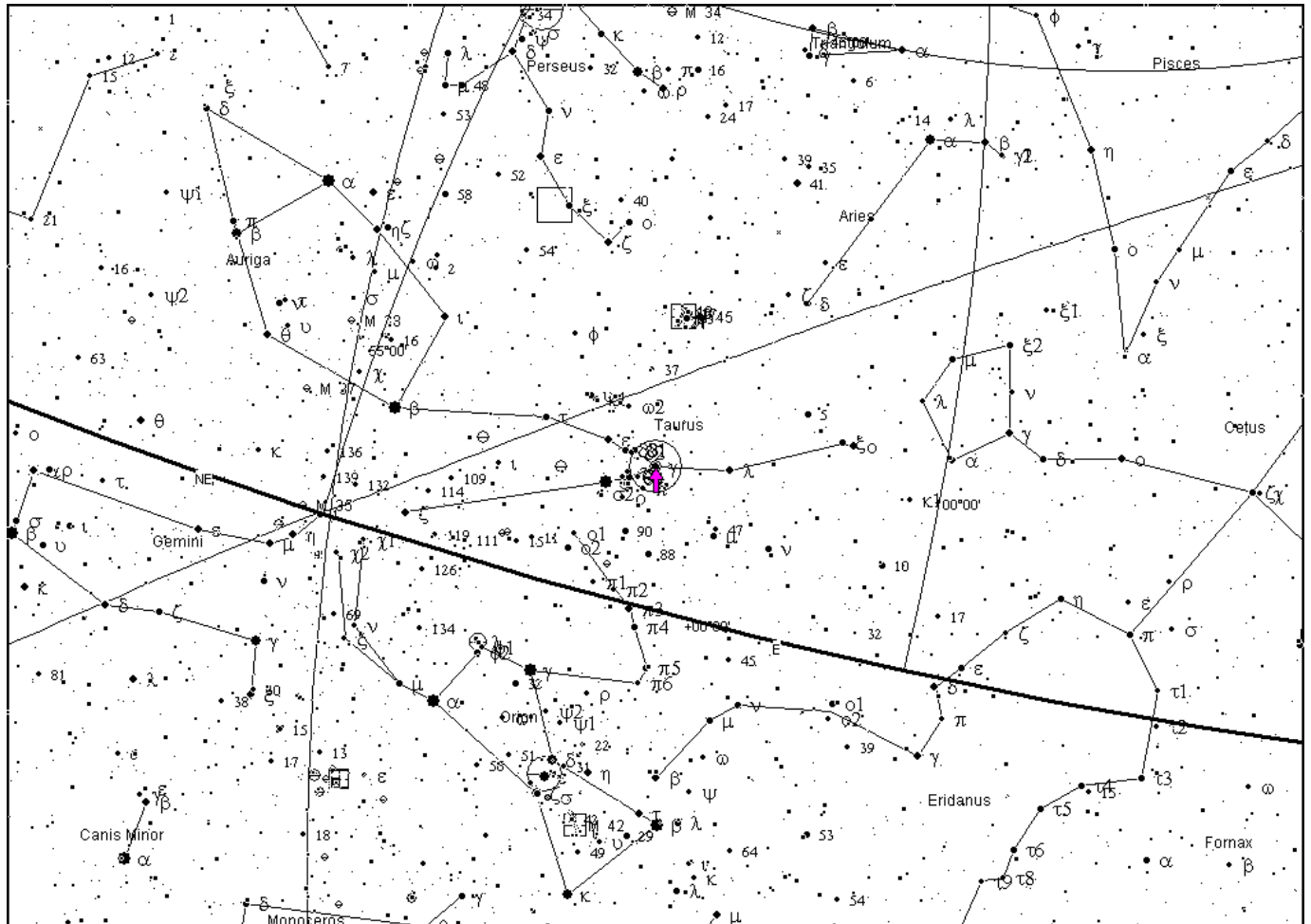
Name	Catalogue	Long Lat	Visual Magnitude	Type
Keid	40 Eridani	RA:4h15m17.64s DE:-07°38'40.4"	4.43	Triple K1 (orange)



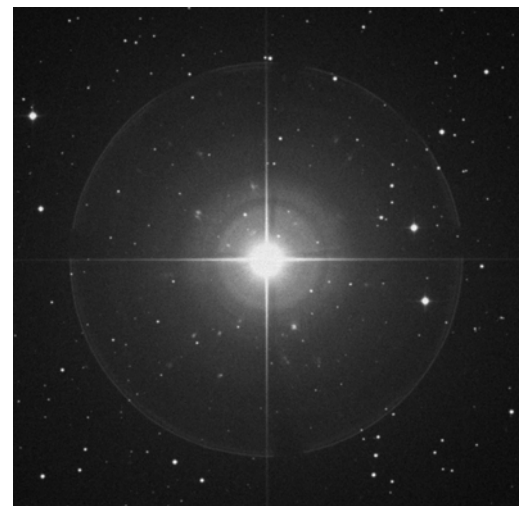
Episode	Name	Description
Amok Time (TOS)	Vulcan	A class M planet where the humanoids, Vulcan, live.
Pathways (VOY)	40 Eridani A - T'Khut	Vulcan's sister planet



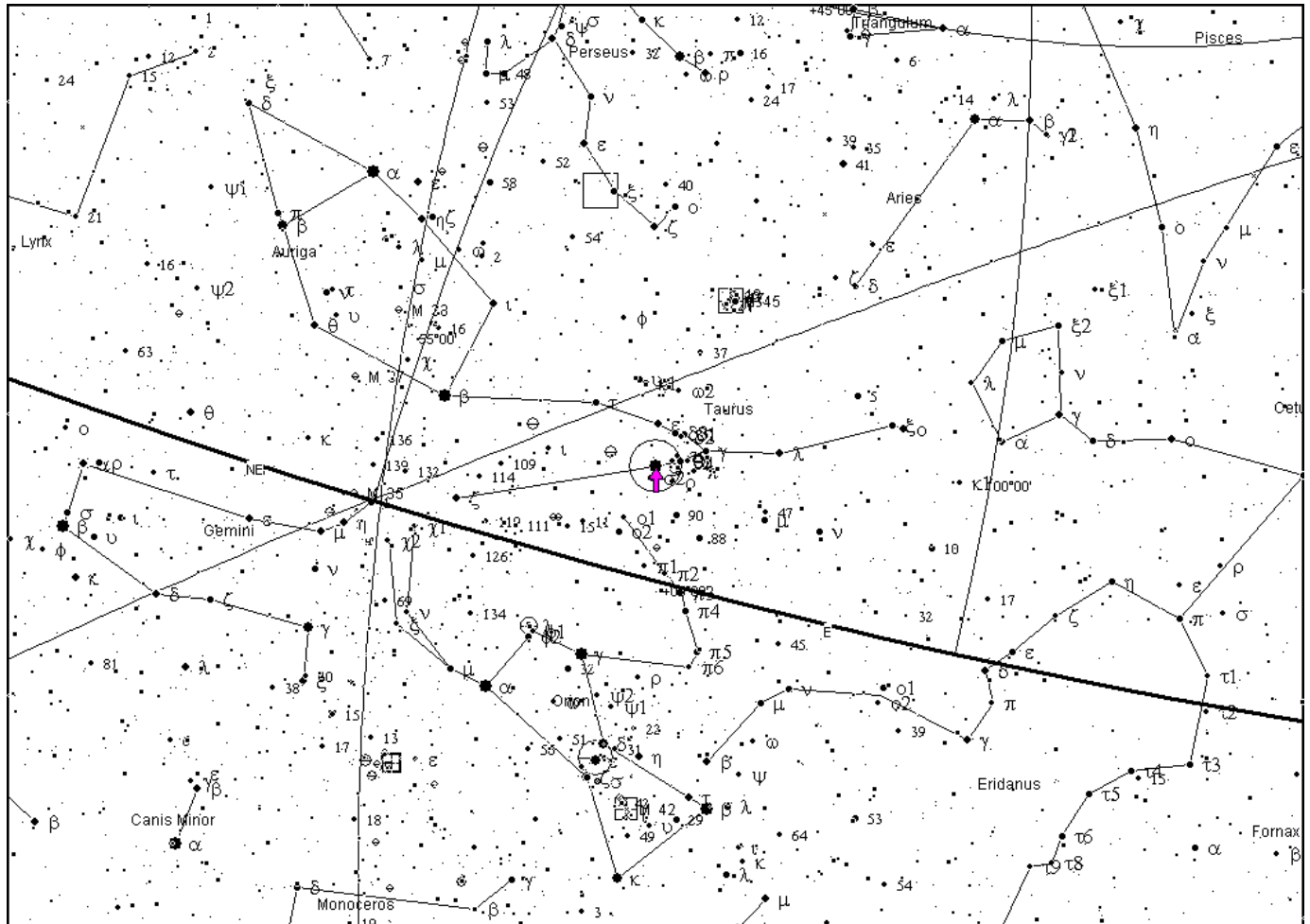
Name	Catalogue	Long Lat	Visual Magnitude	Type
Hyadum I	Gamma Tauri	RA:4h19m47.53s DE:+15°37'39.7"	3.65	Star G (yellow)



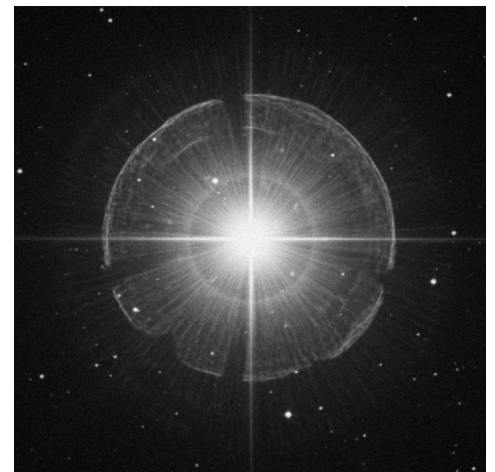
Episode	Name	Description
The Last Outpost (TNG)	Gamma Tauri IV	The Ferengi stole a T-9 energy converter from this unmanned Federation monitoring post.



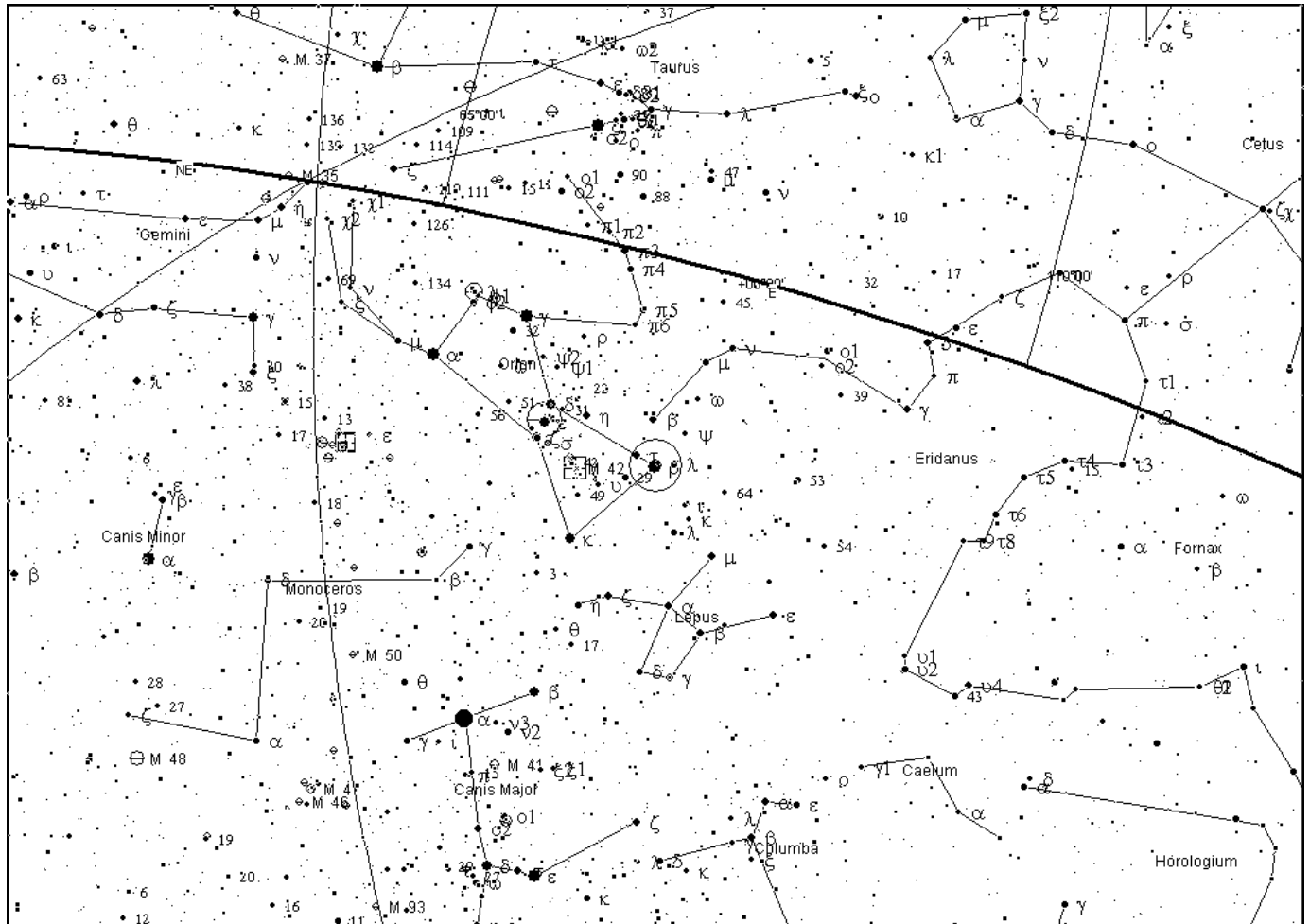
Name	Catalogue	Long Lat	Visual Magnitude	Type
Aldebaran	Alpha Tauri	RA:4h34m58.61s DE:+16°59'41.6"	0.87	Star K (orange)



Episode	Name	Description
Where No One Has Gone Before (TNG)	Tau Alpha C	The home of the Traveler who can control the warp engines with his mind.
The Deadly Years (TOS)	Aldebaran III	Home of the Aldebaran Music Academy.
Past Tense, Part I (TNG)		

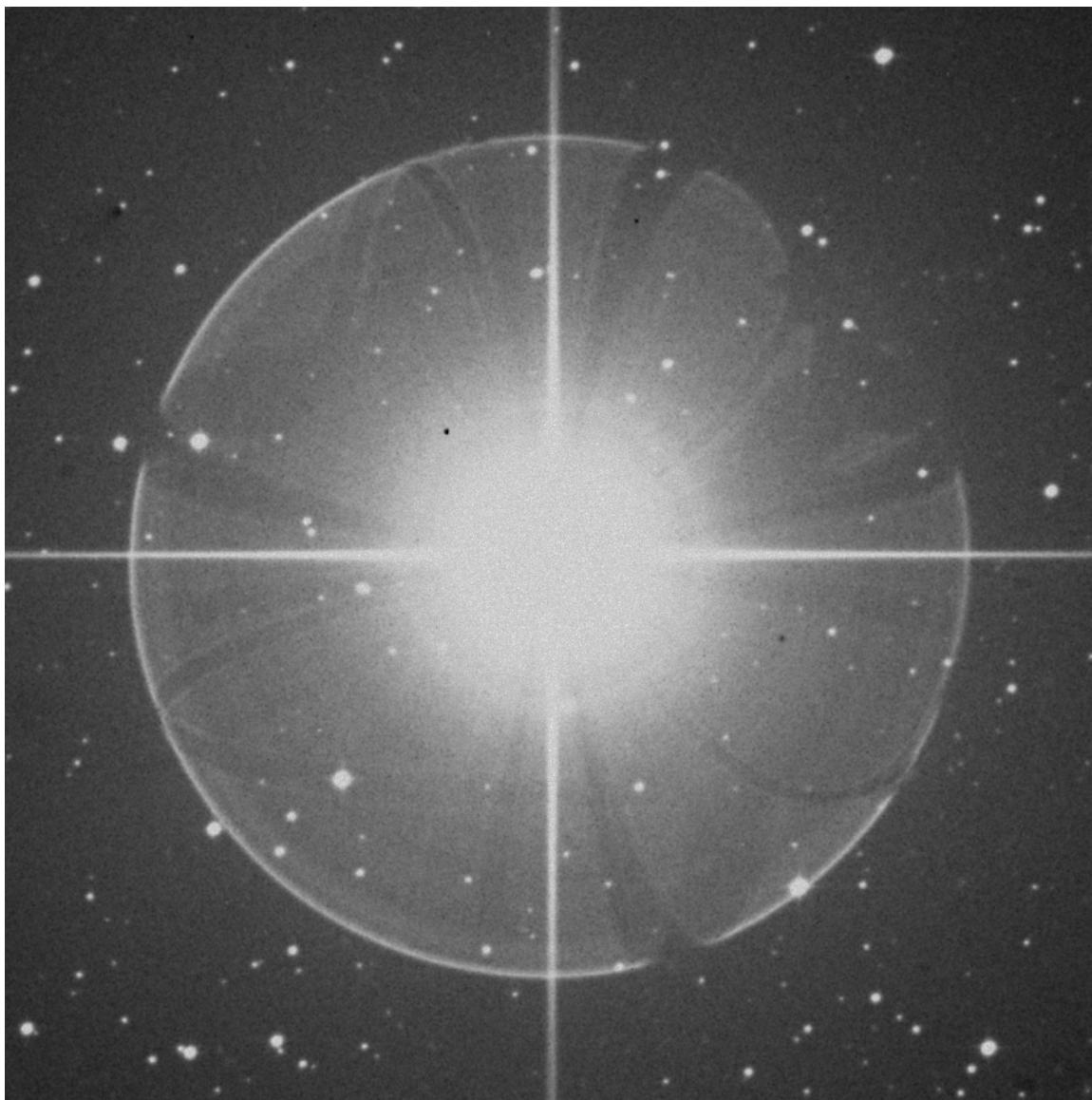


Name	Catalogue	Long Lat	Visual Magnitude	Type
Rigel	Beta Orionis	RA:5h14m32.30s DE:-08°12'06"	6.37	Star G (yellow)

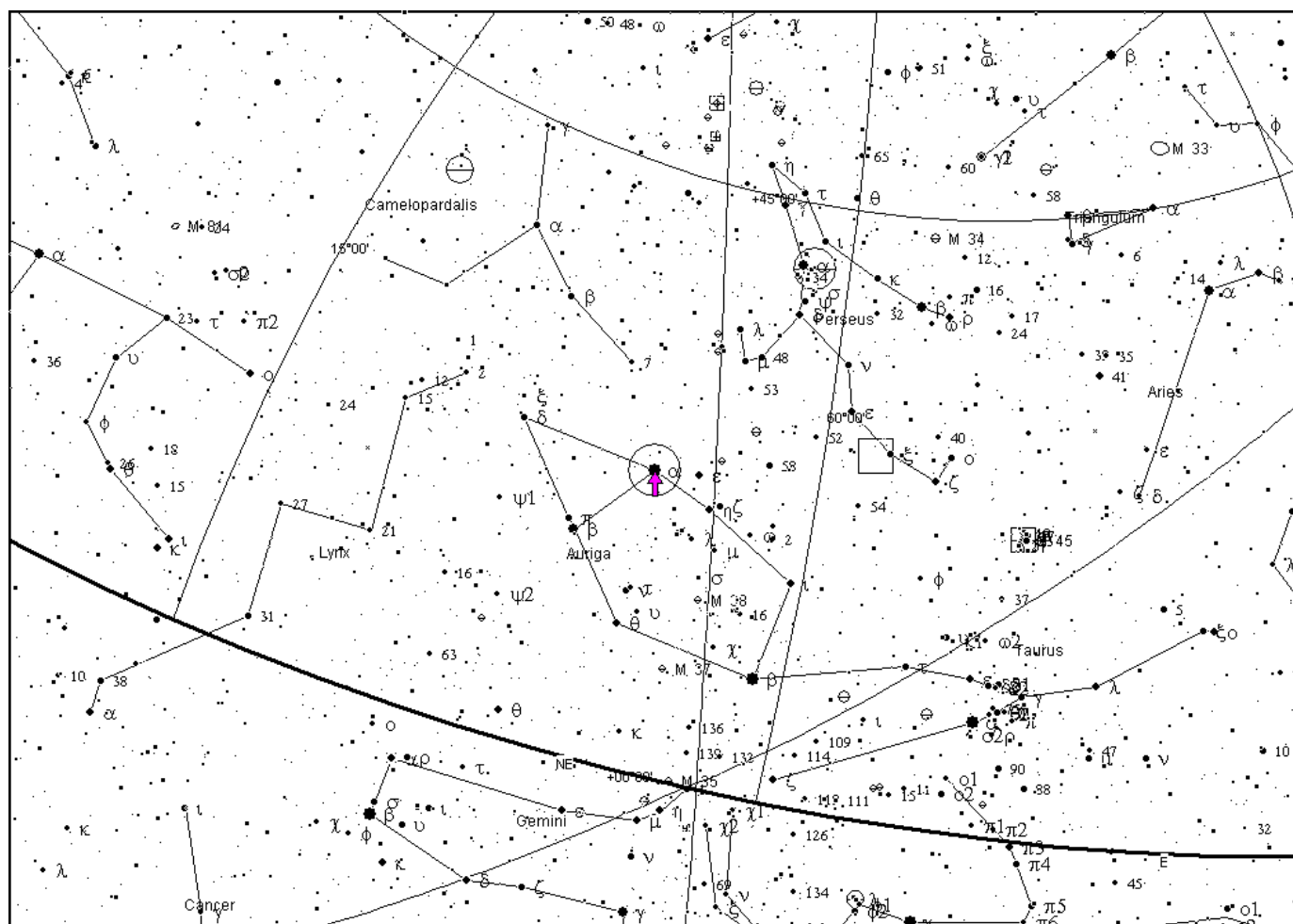


Episode	Name	Description
The Doomsday Machine (TOS)		
Wolf In The Fold (TOS)	Rigel IV	Several women were killed here because of the Redjac entity.
Journey To Babel (TOS)	Rigel V	The homeworld of the Rigelians is Rigel V.
The Cage (TOS)	Rigel VII	This was Pike's mission before being assigned to Talos IV

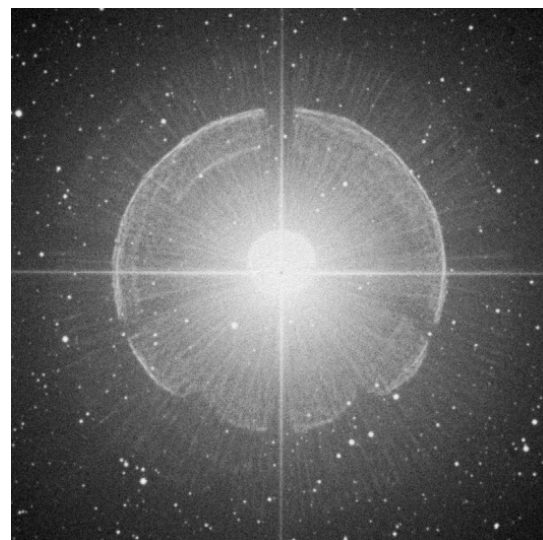
Mudd's Women (TOS)	Rigel XII	A planet that mines dilithium.
All Good Things... (TNG)	Rigel III	Geordi La Forge lived here after finishing a career in Star Fleet.
Prodigal Daughter (DS9)	Rigel IV	A pergium ore processing facility.
TM (DS9)	Rigel VI	



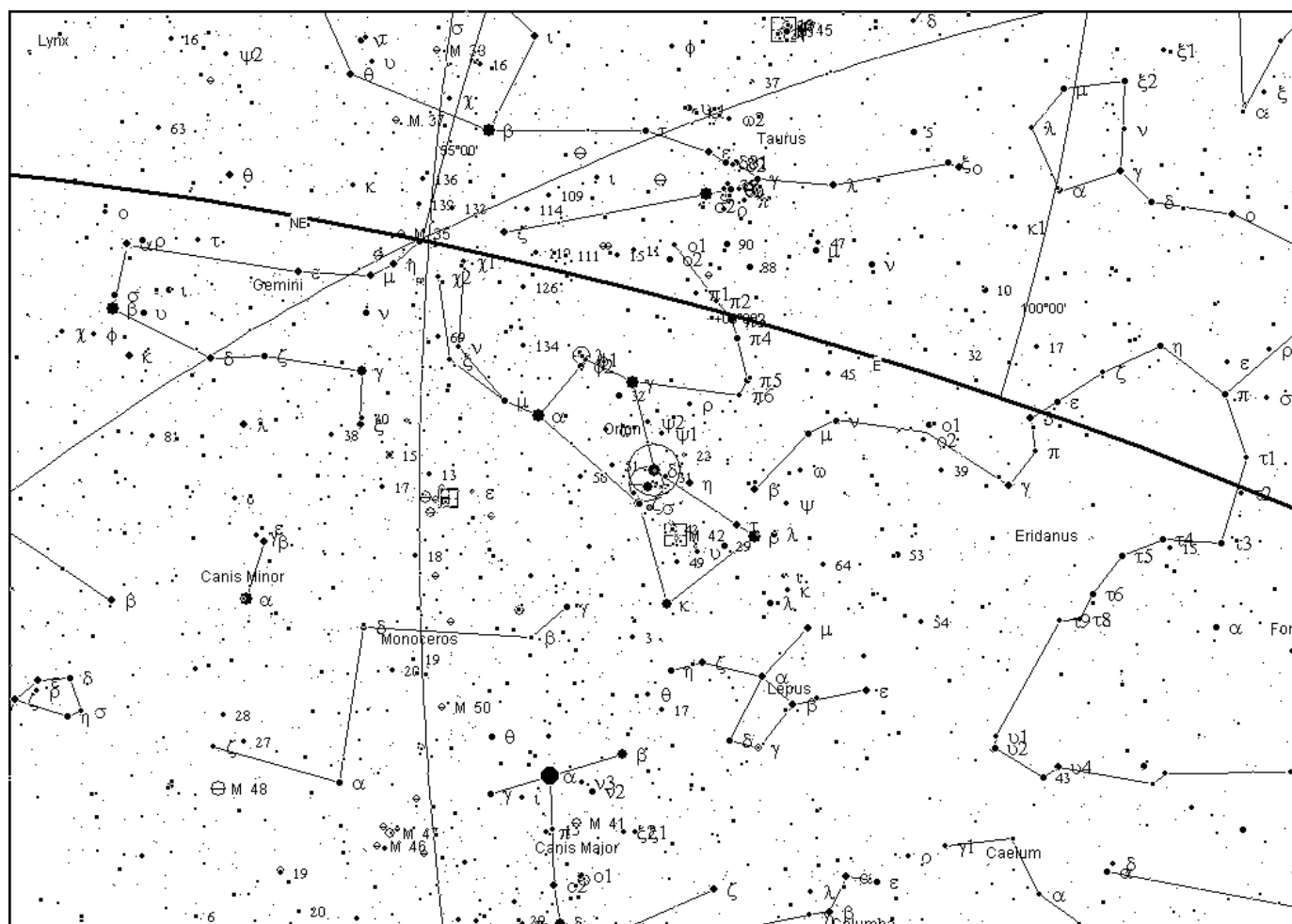
Name	Catalogue	Long Lat	Visual Magnitude	Type
Capella	Alpha Auriga	RA:5h16m41.30s DE:+45°59'56.5"	0.08	Double star (G 0.91) (G 0.76) (yellow)



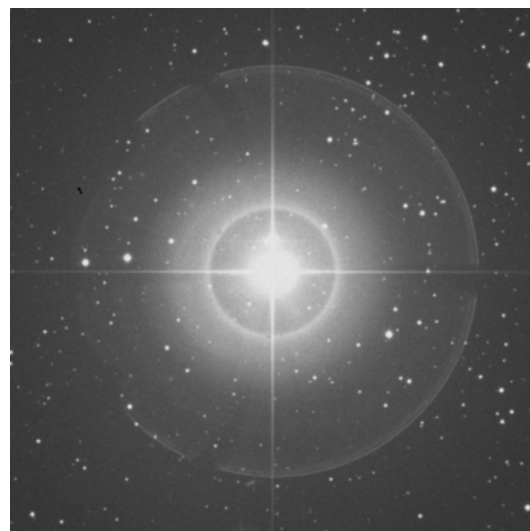
Episode	Name	Description
Friday's Child (TOS)	Capella IV	A planet that is rich in topaline.
How Sharper Than a Serpents Tooth (TAS)	Capella	



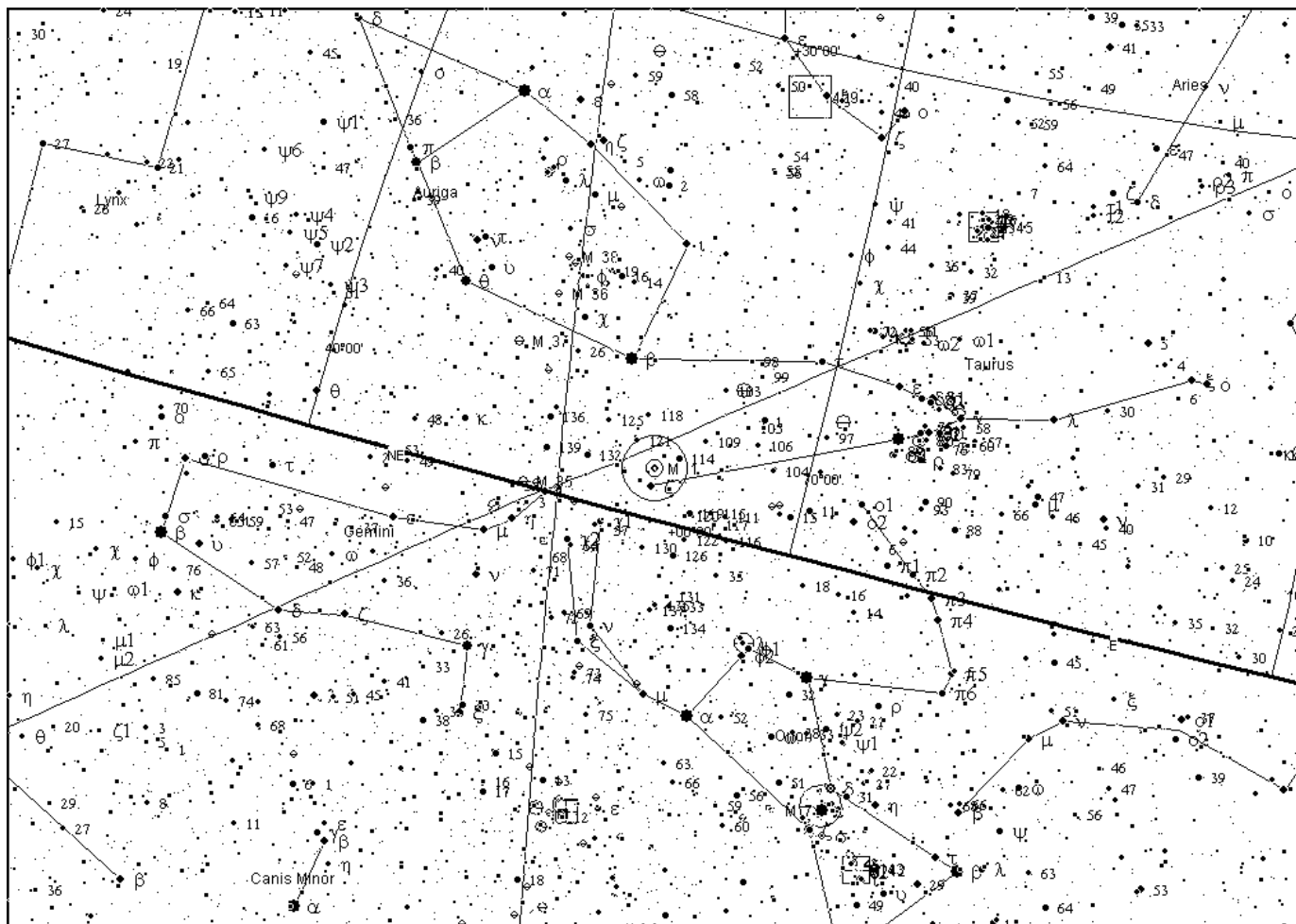
Name	Catalogue	Long Lat	Visual Magnitude	Type
Mintaka	Delta Orionis	RA:5h29m43.98s DE:-01°05'31.8"	4.71	Star O (bluish)



Episode	Name	Description
Who Watches The Watchers (TNG)	Mintaka III	Home to a rational and Vulcan-like species.



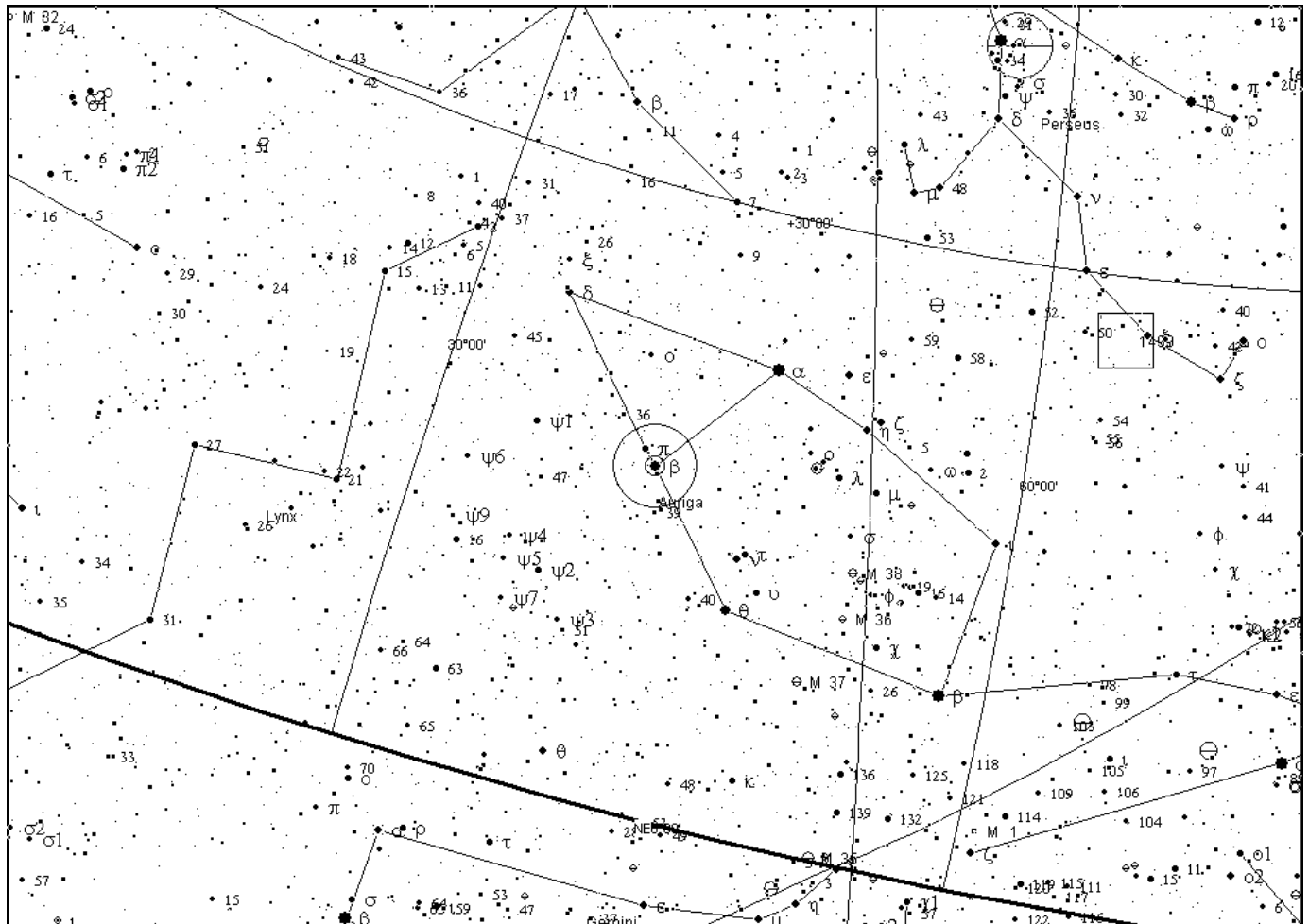
Name	Catalogue	Long Lat	Dimension	Type
Crab Nebula	M1	RA:5h34m30.00s DE:+22°01'00.0"	8.0'x 4.0'	Planetary Nebula



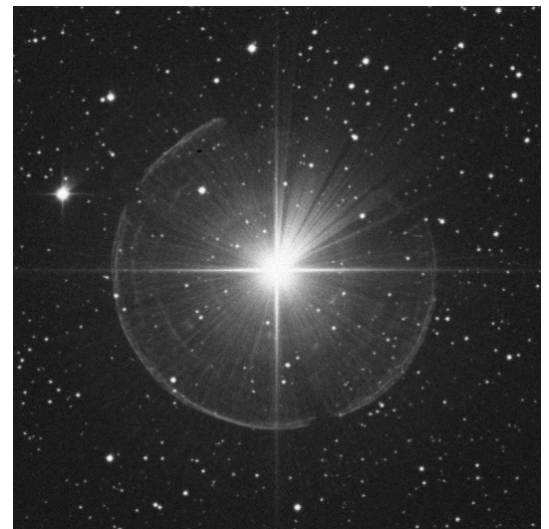
Episode	Name	Description
Manhunt (TNG)	Crab Nebula	Data can calculate the distance between here and the Omicron system by multiplying pi by 9 to the power of 3.



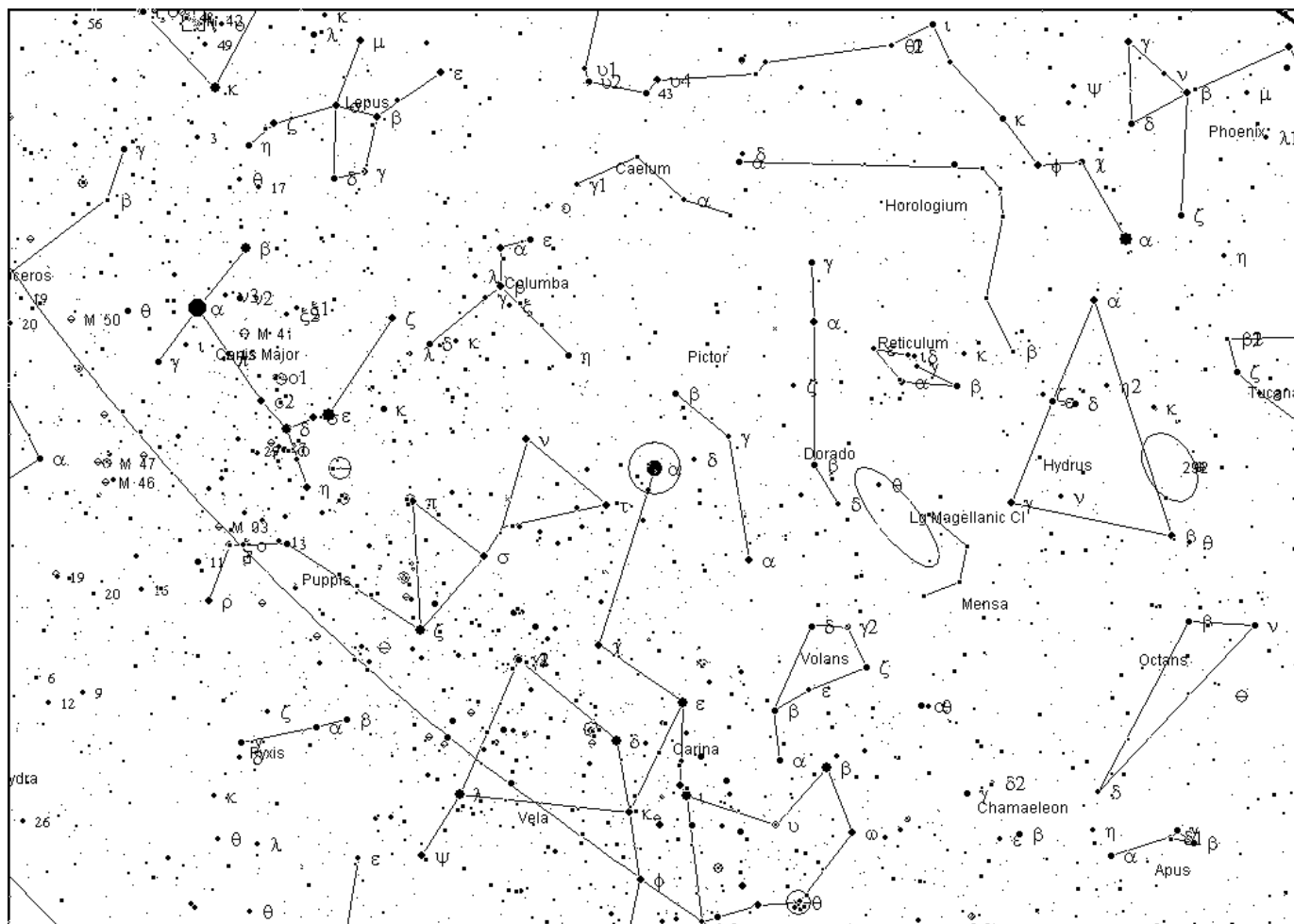
Name	Catalogue	Long Lat	Visual Magnitude	Type
Menkalinan	Beta Auriga	RA:5h59m31.77s DE:+44°56'50.8	1.896	Triple star (spectroscopic)



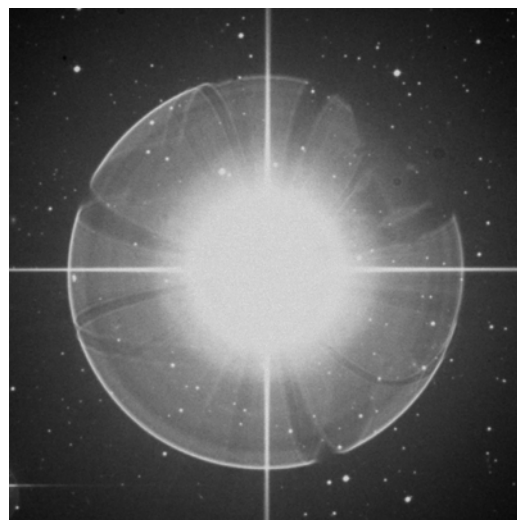
Episode	Name	Description
Turnabout Intruder (TOS)	Camus II	Where Kirk switches body with a woman.



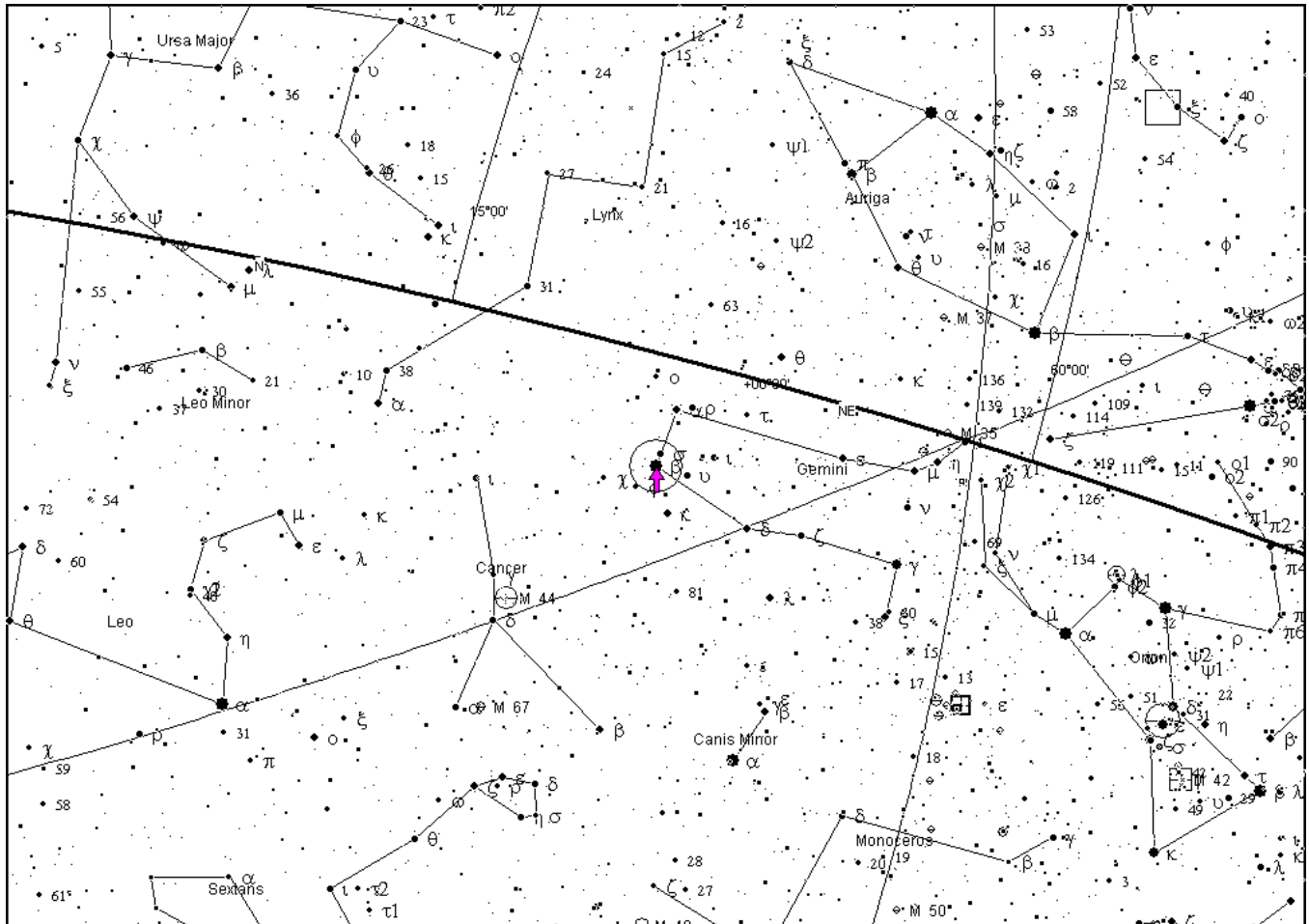
Name	Catalogue	Long Lat	Visual Magnitude	Type
Canopus	Alpha Carinae	RA:6h23m57.09s DE:-52°41'44.6"	-0.72	Star F (white)



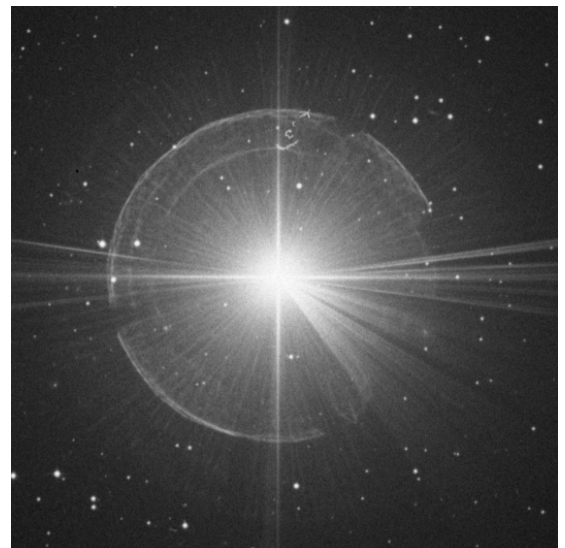
Episode	Name	Description
Wolf In The Fold (TOS)	Alpha Carinae V	A Star base.



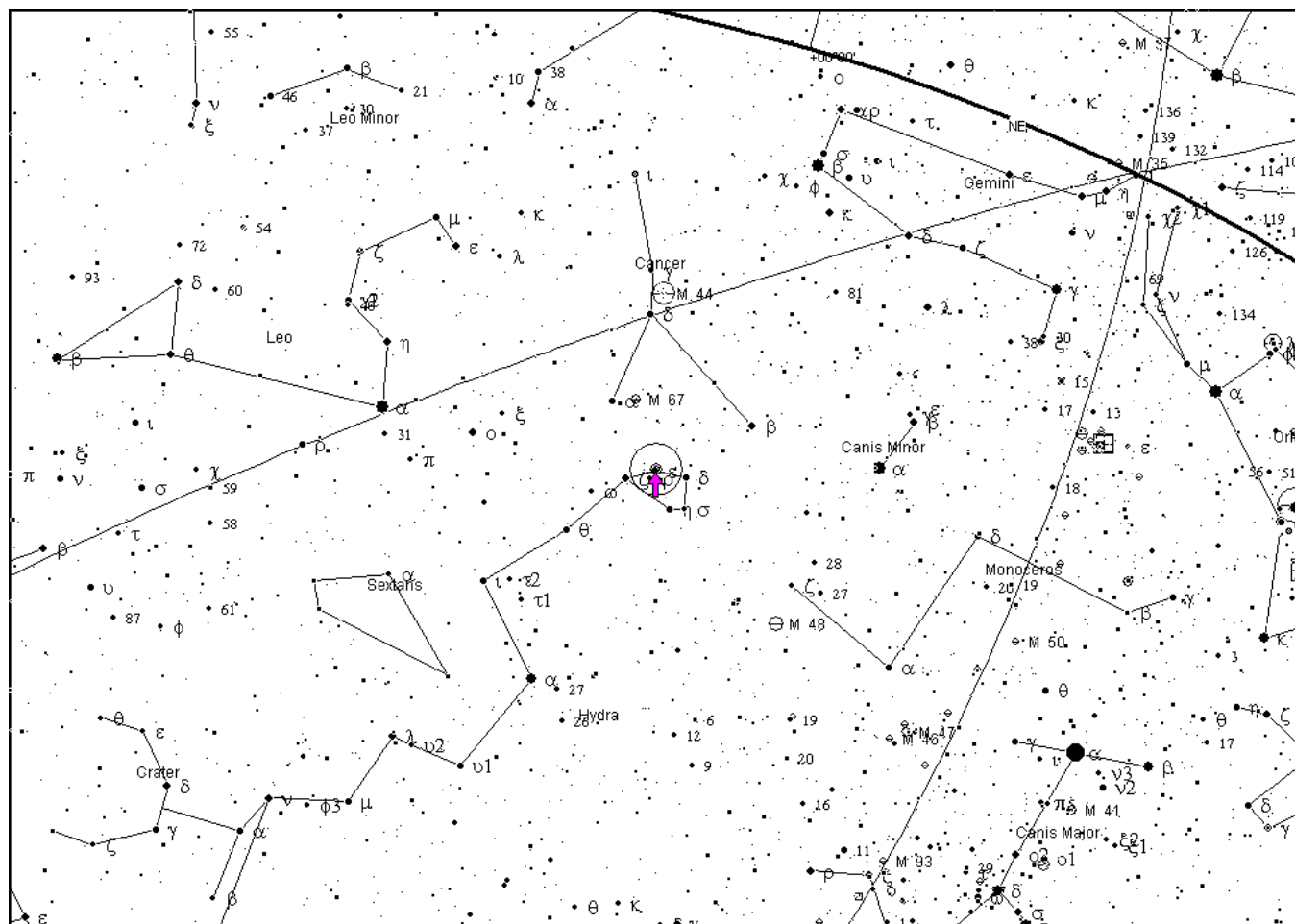
Name	Catalogue	Long Lat	Visual Magnitude	Type
Pollux	Beta Gemini	RA:7h45m19.36s DE:+28°01'34.7"	1.16	Star K (orange)



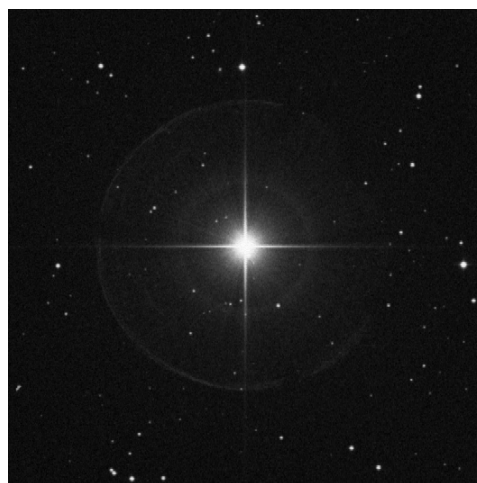
Episode	Name	Description
Who Mourns For Adonais? (TOS)	Pollux IV	The home of a race of ancient gods from earth's history.



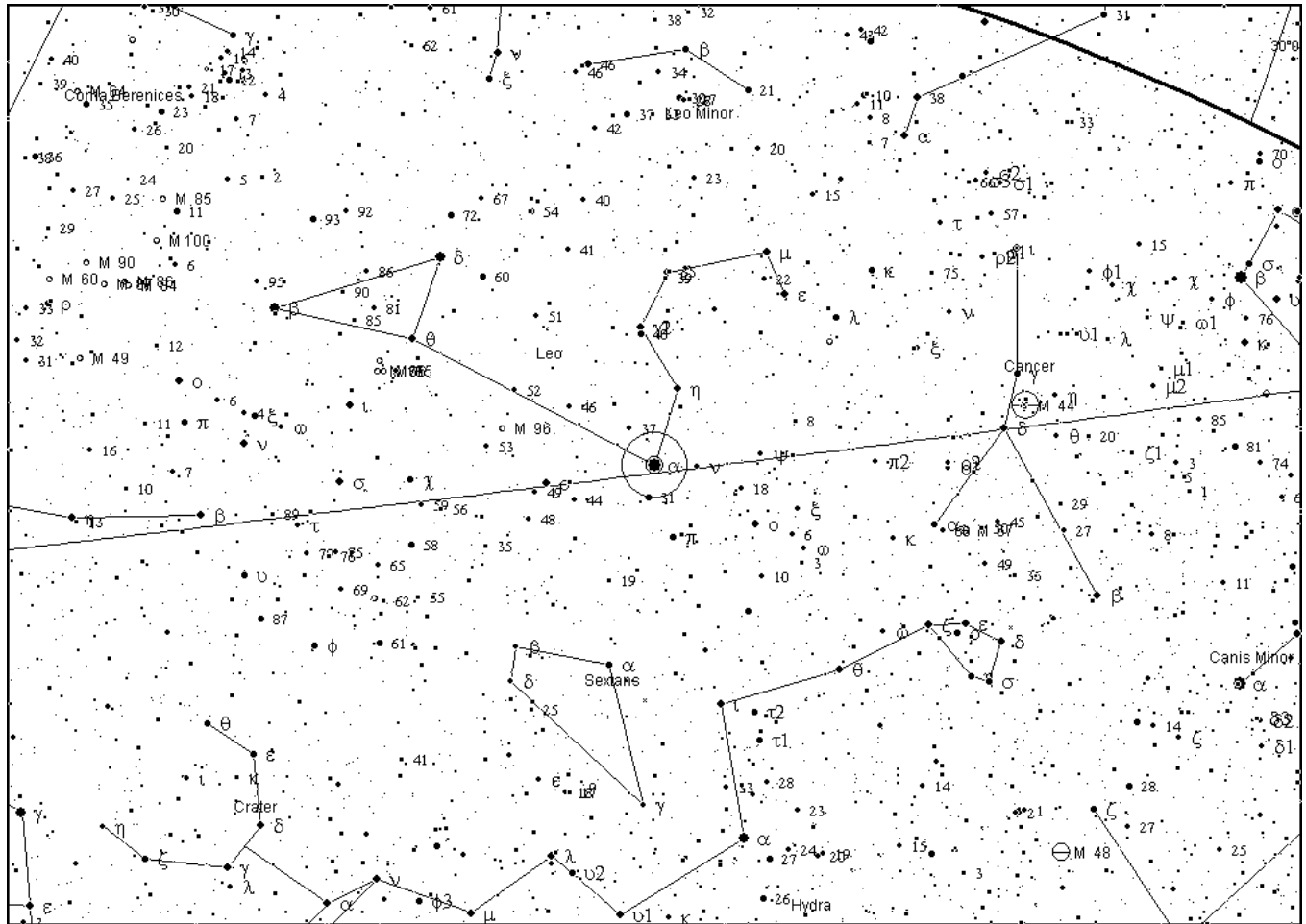
Name	Catalogue	Long Lat	Visual Magnitude	Type
Ashlesha	Epsilon Hyadrae	RA:8h46m46.65s DE:+06°25'08.1"	3.38	Star G5 (yellow)



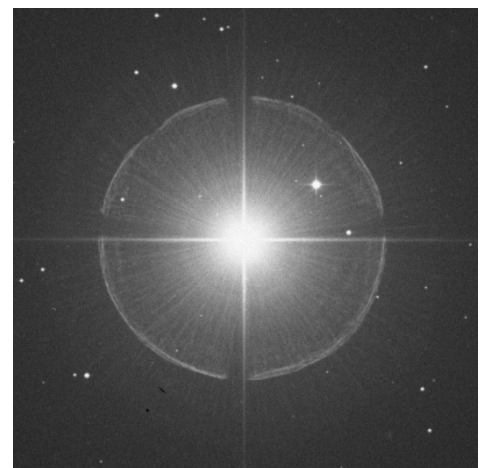
Episode	Name	Description
The Enemy Within (TOS)		
Q-Less (DS9)	Epsilon Hyadrae VII	Epsilon Hyadrae VII is the seventh planet in the Epsilon Hydra system.



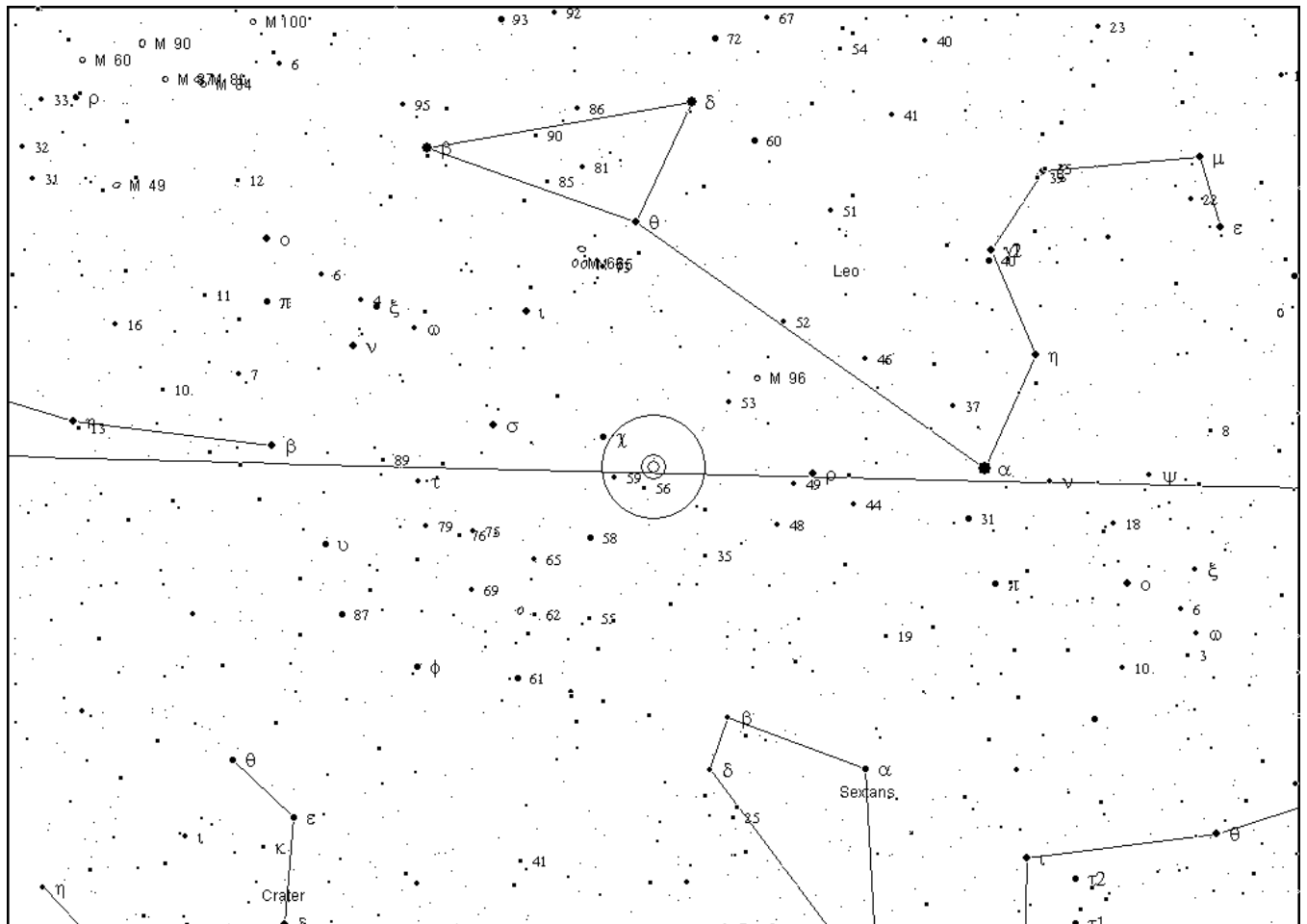
Name	Catalogue	Long Lat	Visual Magnitude	Type
Regulus	Alpha Leo	RA:10h08m22.46s DE:+11°58'01.9"	1.36	Star B (blue)



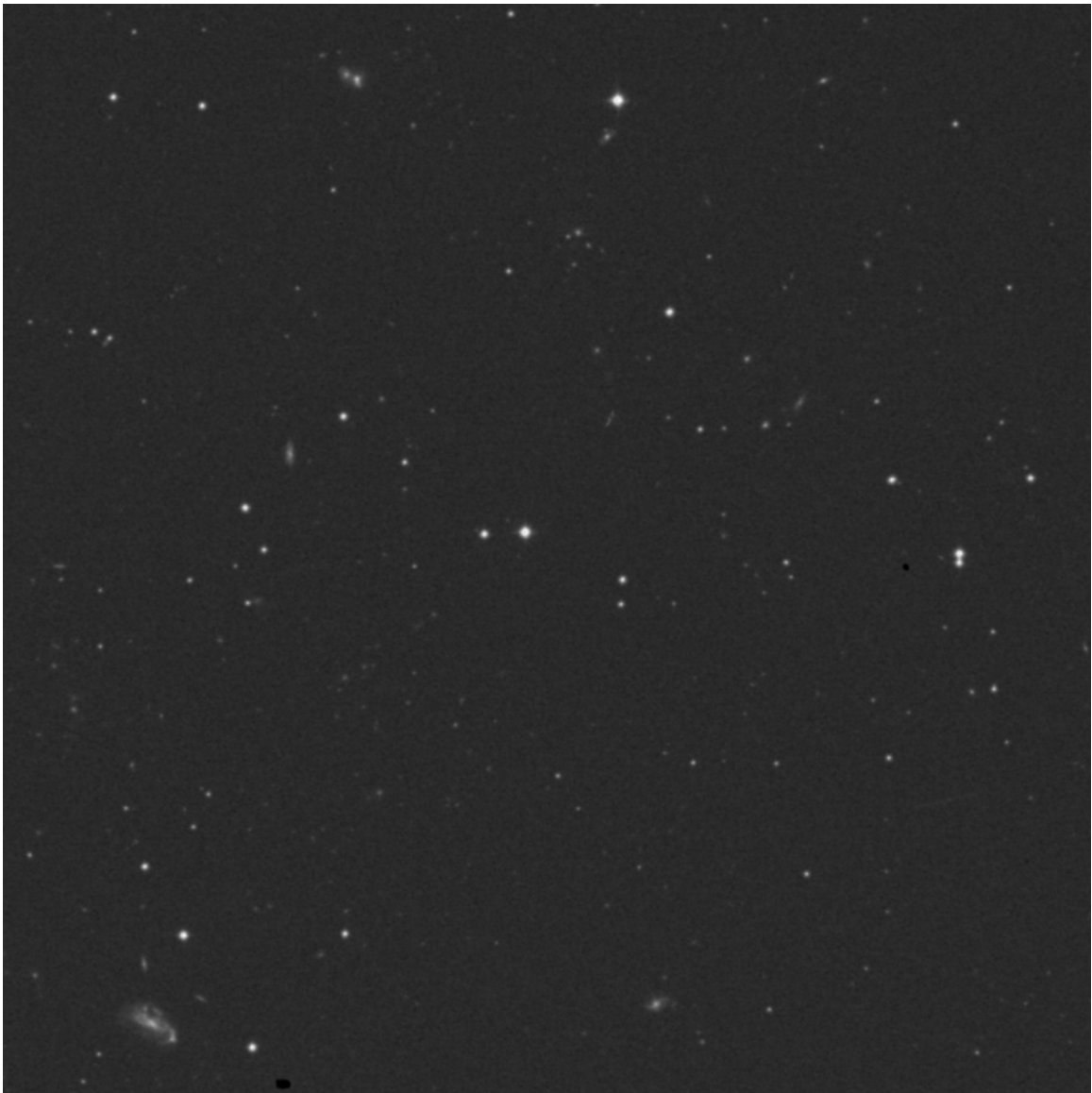
Episode	Name	Description
Amok Time (TOS)	Regulus V	Home of giant eel-bird that returns to its nest only once every 11 years.
The Vengeance Factor (TNG)		
Fascination (DS9)	Regulus III	Science academy.



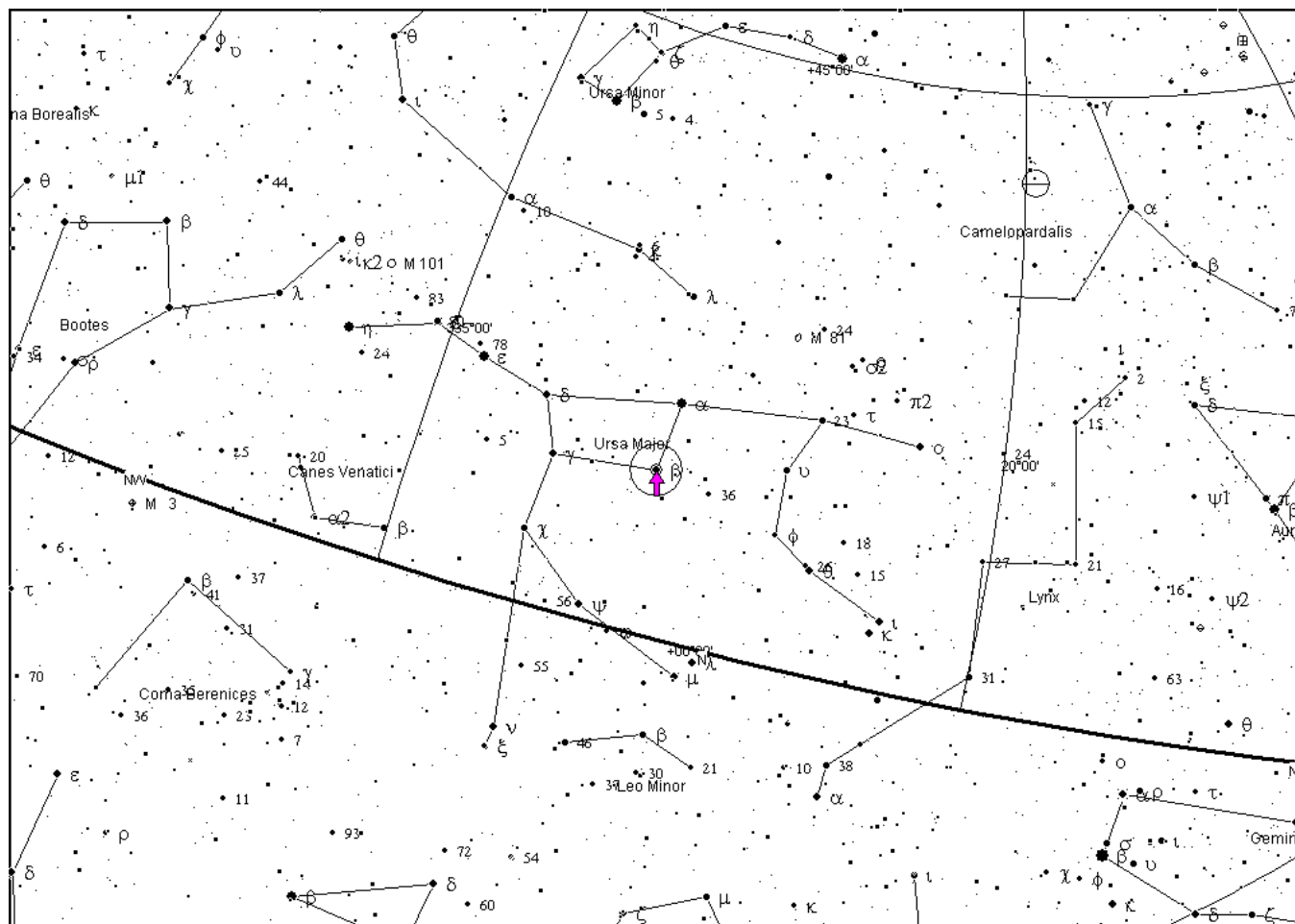
Name	Catalogue	Long Lat	Visual Magnitude	Type
	Wolf 359	RA:10h56m28.99s DE:+07° 00' 52.0"	13.54	Star M (red)



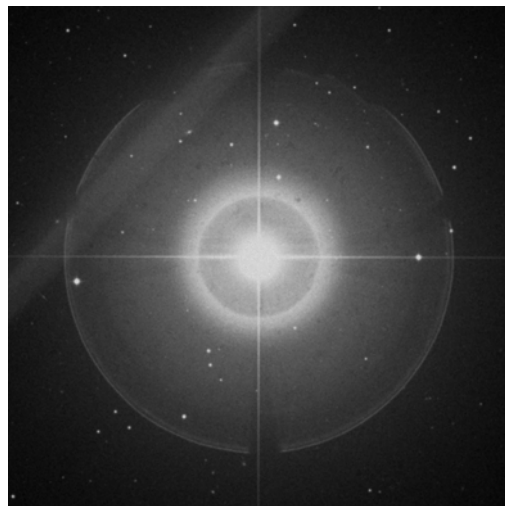
Episode	Name	Description
The Best of Both Worlds (TNG)	Battle at Wolf 359	Earth's last chance against the Borg attack.



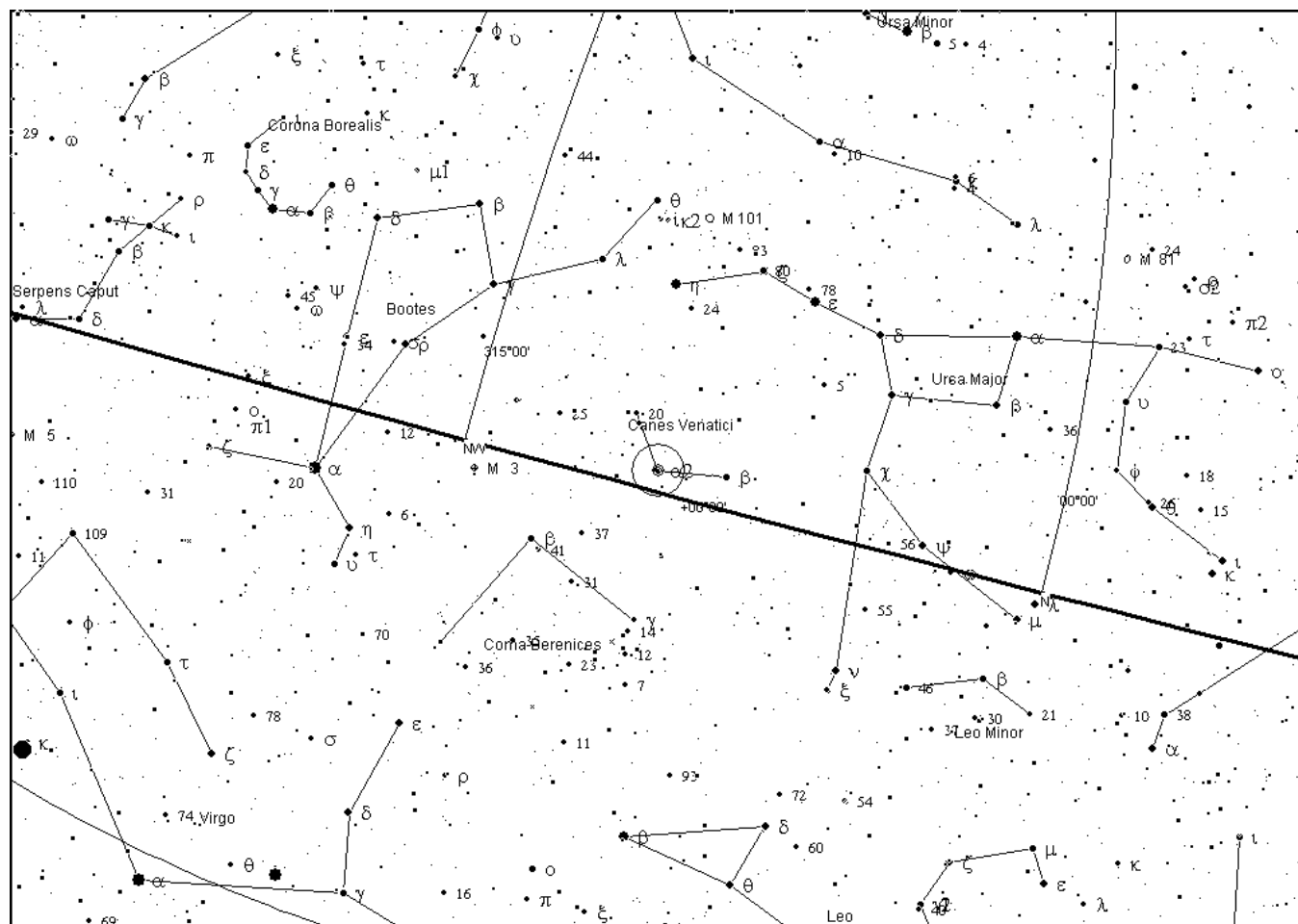
Name	Catalogue	Long Lat	Visual Magnitude	Type
Merak	Beta Ursa Majoris	RA:11h01m50.39s DE:+56°22'56.4"	2.34	Star A (bluish-white)



Episode	Name	Description
The Cloud Minders (TOS)	Merak II	In 2269 a planet experiencing a bacterial botanical plague was in need of zenite.



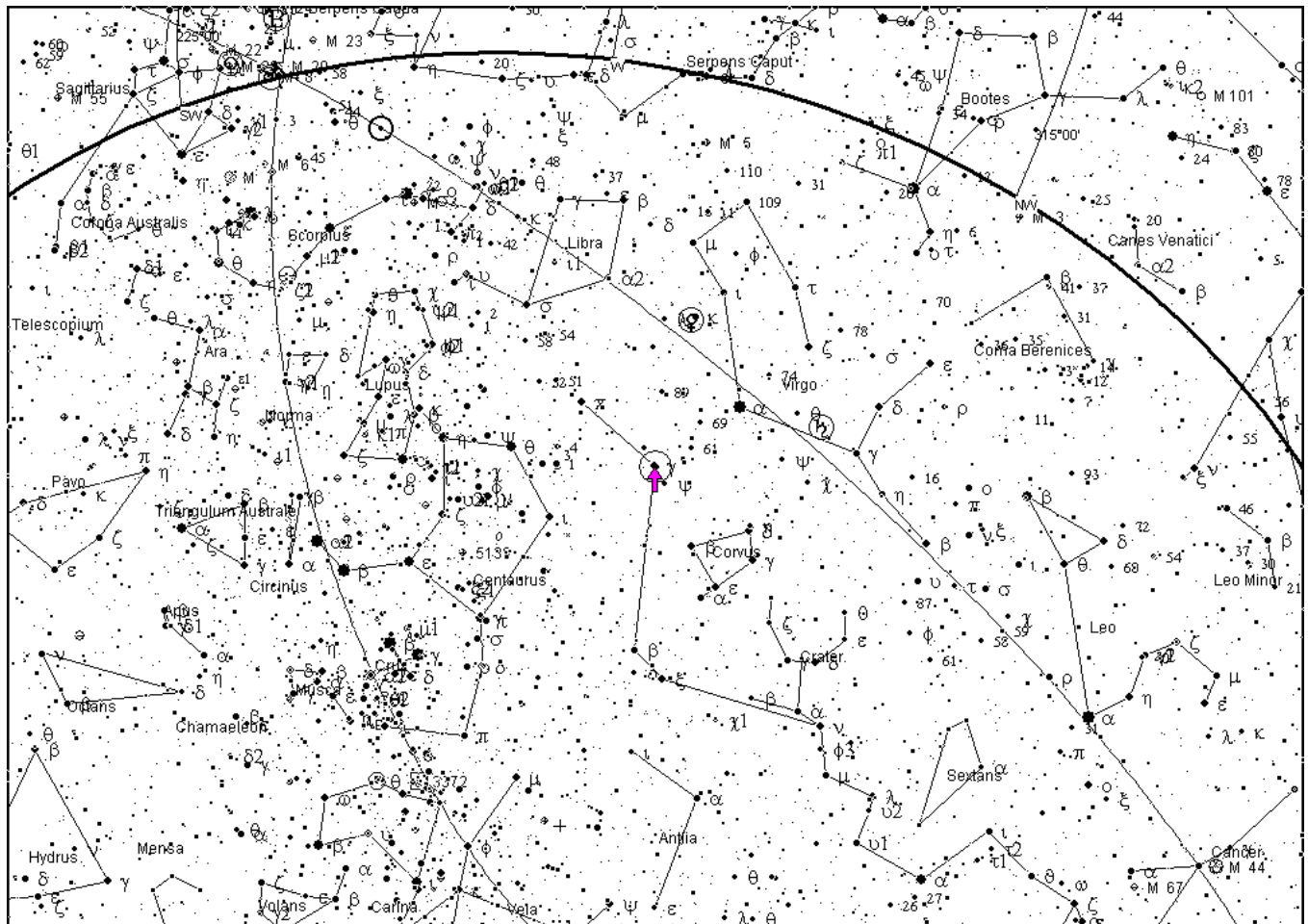
Name	Catalogue	Long Lat	Visual Magnitude	Type
Cor Caroli	Alpha Canes Venatici	RA:12h56m01.84s DE:+38°19'05.7"	2.89	Variable (bluish-white) F (white)



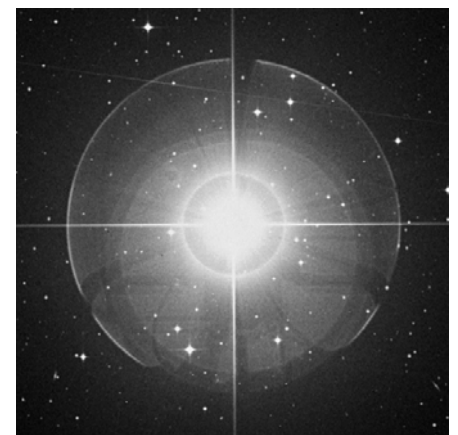
Episode	Name	Description
Allegiance (TNG)	Cor Caroli V	The Cor Caroli system is the location of a Phyrox plague in 2366.



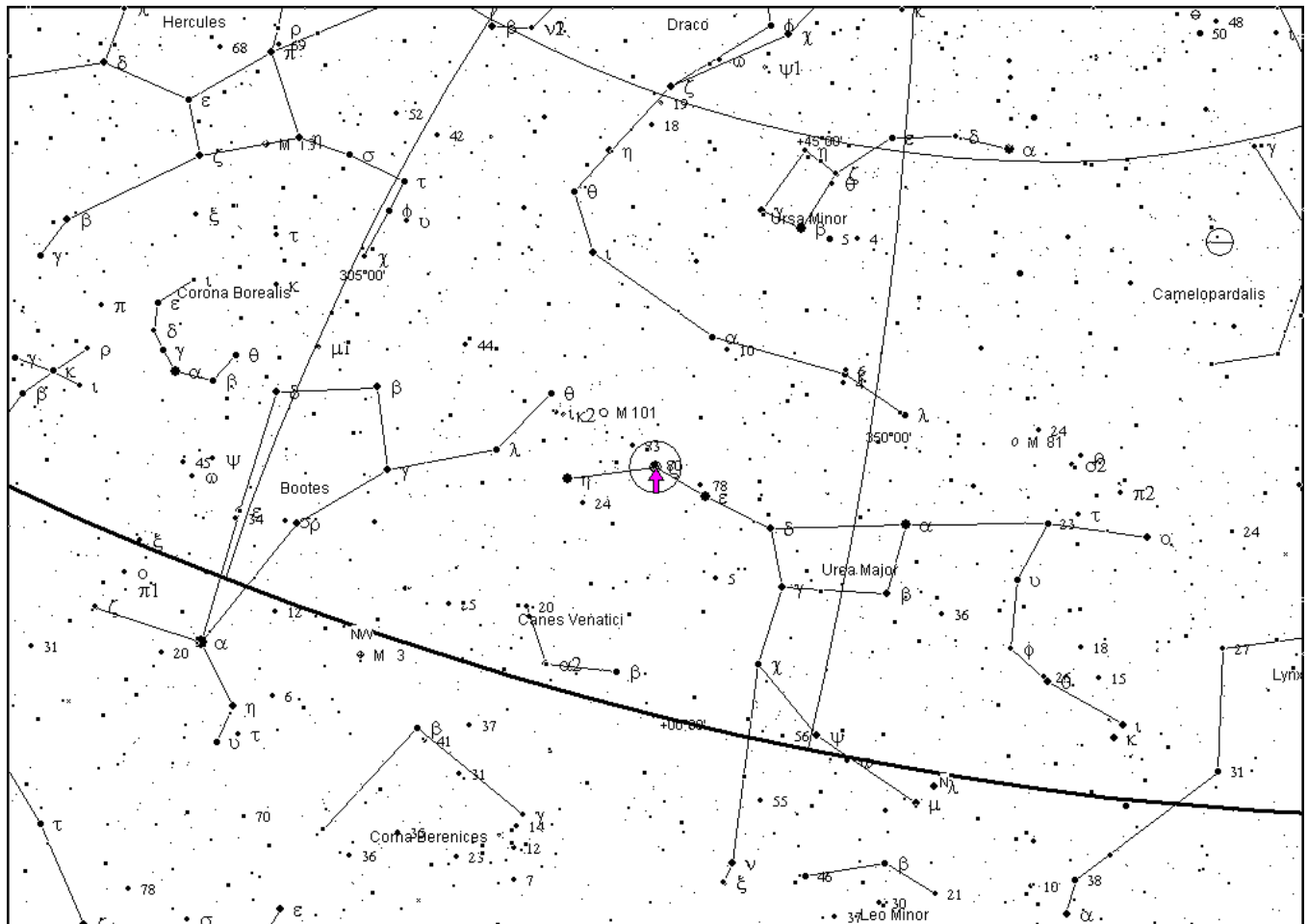
Name	Catalogue	Long Lat	Visual Magnitude	Type
Cauda Hydrae or Dhanab al Shuja	Gamma Hydrae	RA:13h18m55.25s DE:-23°10'17.1"	2.99	Star G8 (yellow)



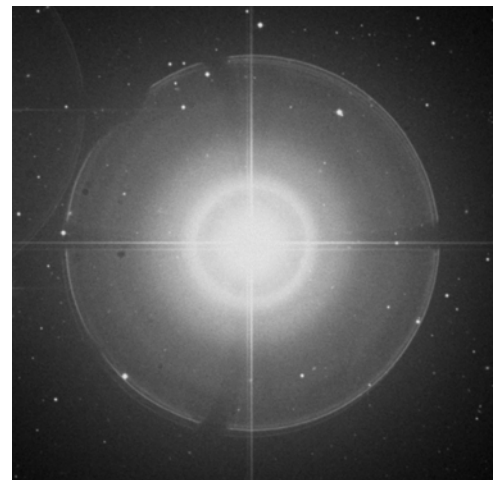
Episode	Name	Description
The Deadly Years (TOS)	Gamma Hydrae II	The planet Kirk kept thinking they were orbiting because of "old age".
The Deadly Years (TOS)	Gamma Hydrae IV	Home to an aging disease that a person will not catch if you have an adrenalin rush.



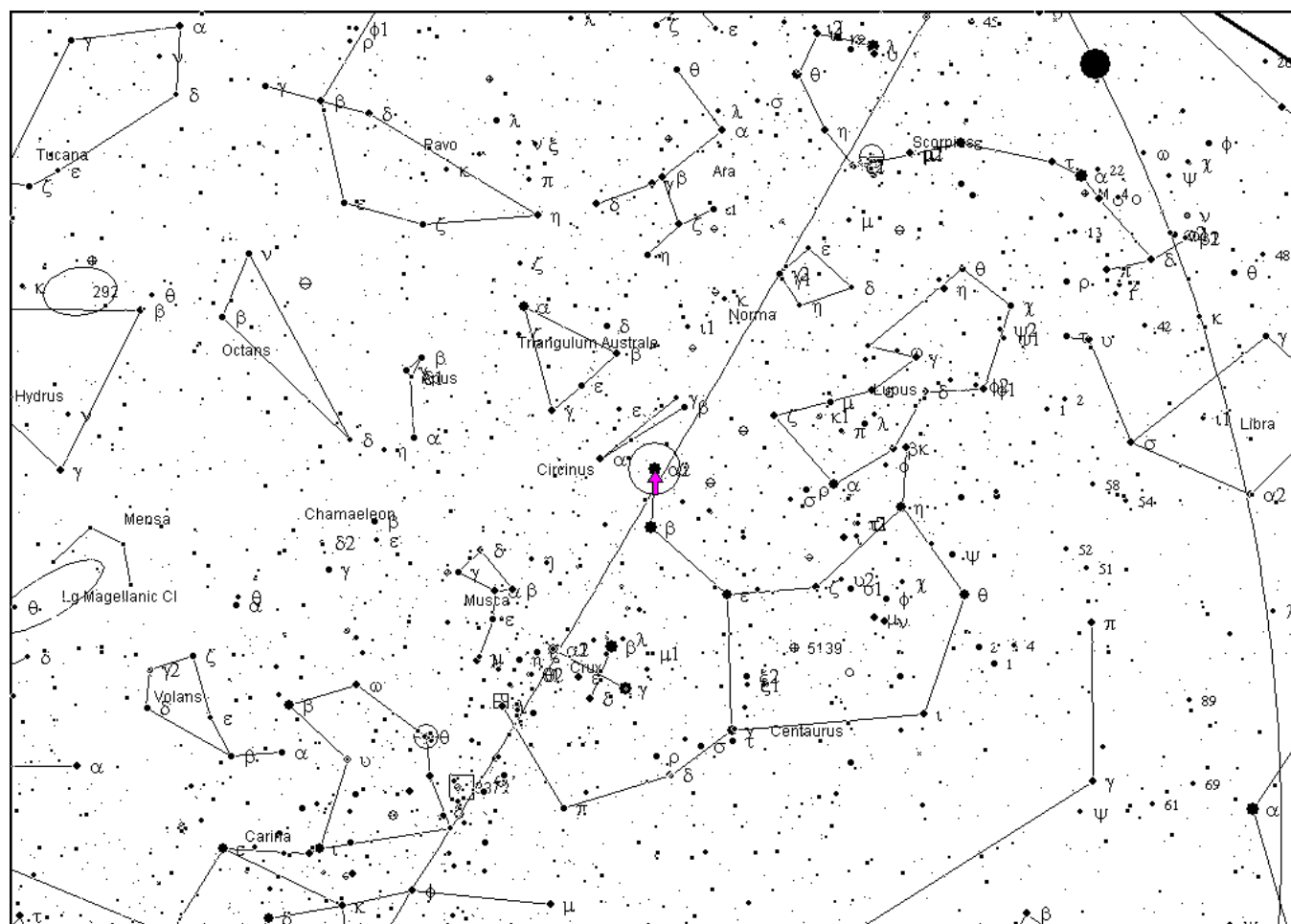
Name	Catalogue	Long Lat	Visual Magnitude	Type
Mizar	Zeta Ursa Majoris	RA:13h23m55.42s DE:+54°55'31.5"	2.23	Star A (bluish-white)



Episode	Name	Description
Allegiance (TN6)	Mizar II	This was a planet that was conquered six times in three centuries.



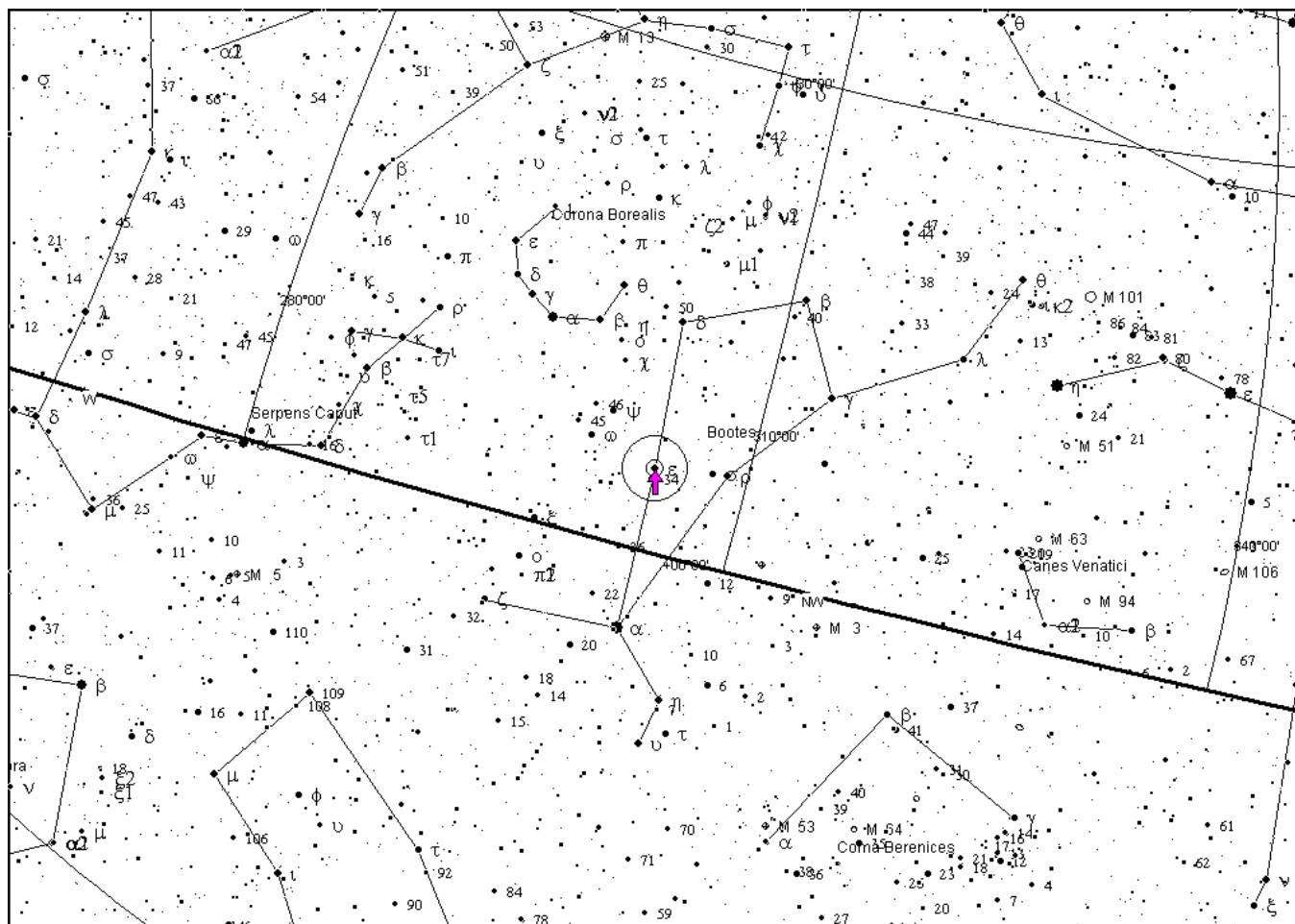
Name	Catalogue	Long Lat	Visual Magnitude	Type
Rigel Kentaurus	Alpha Centauri	RA:14h39m40.90s DE:-60°50'06.5"	-0.01	Double



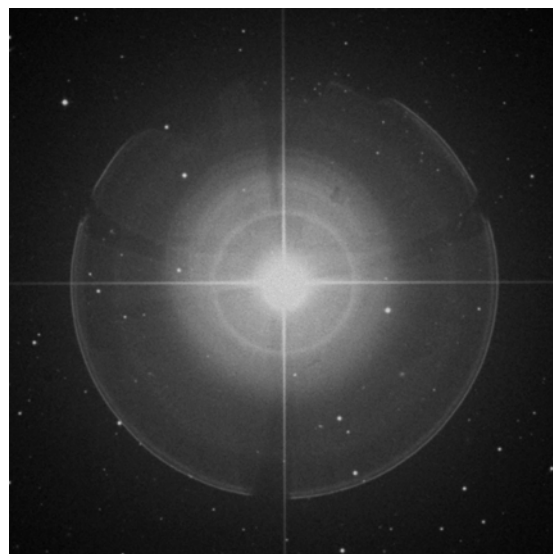
Episode	Name	Description
Metamorphosis (TOS)	Alpha Centauri	Zefram Cochrane lived here after he left his home planet Earth. A being called "The Companion" looked after him.



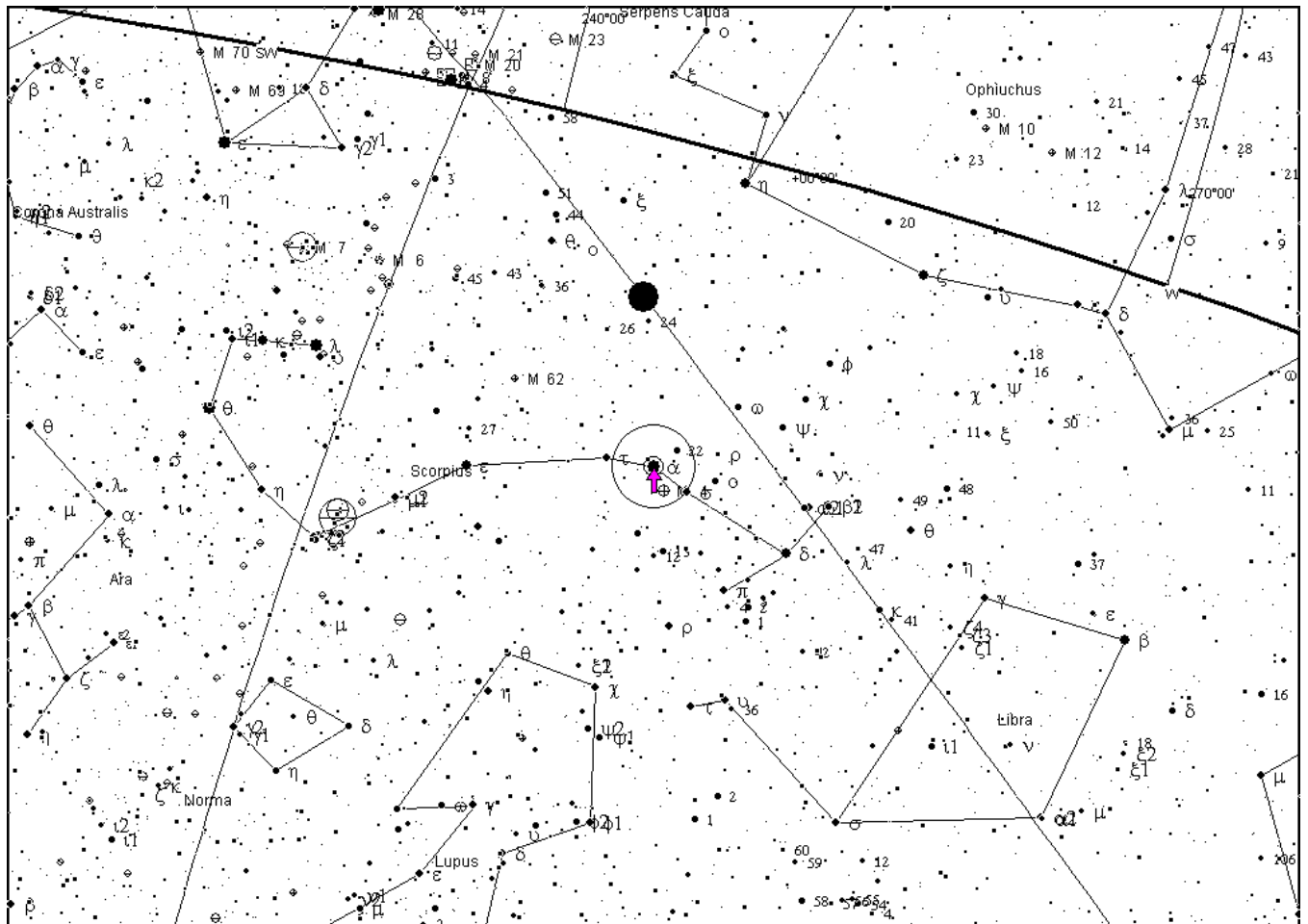
Name	Catalogue	Long Lat	Visual Magnitude	Type
Izar	Epsilon Bötes	RA:14h44m59.25s DE:+27°04'27.0"	2.35	Double (K 2.7) (A 5.1)



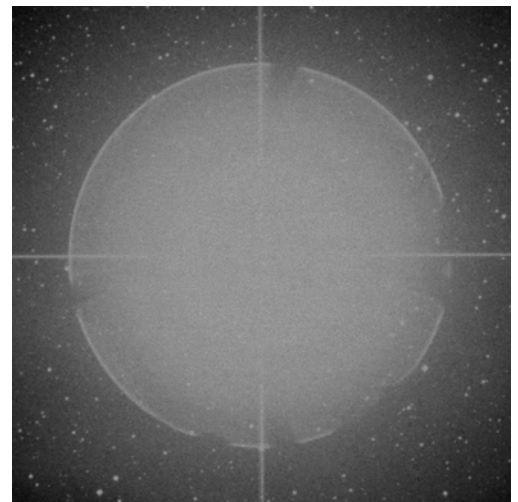
Episode	Name	Description
Whom Gods Destroy (TOS)	Elba II asylum	A sanitarium is on a planet orbiting this star housing Capt. Garth.



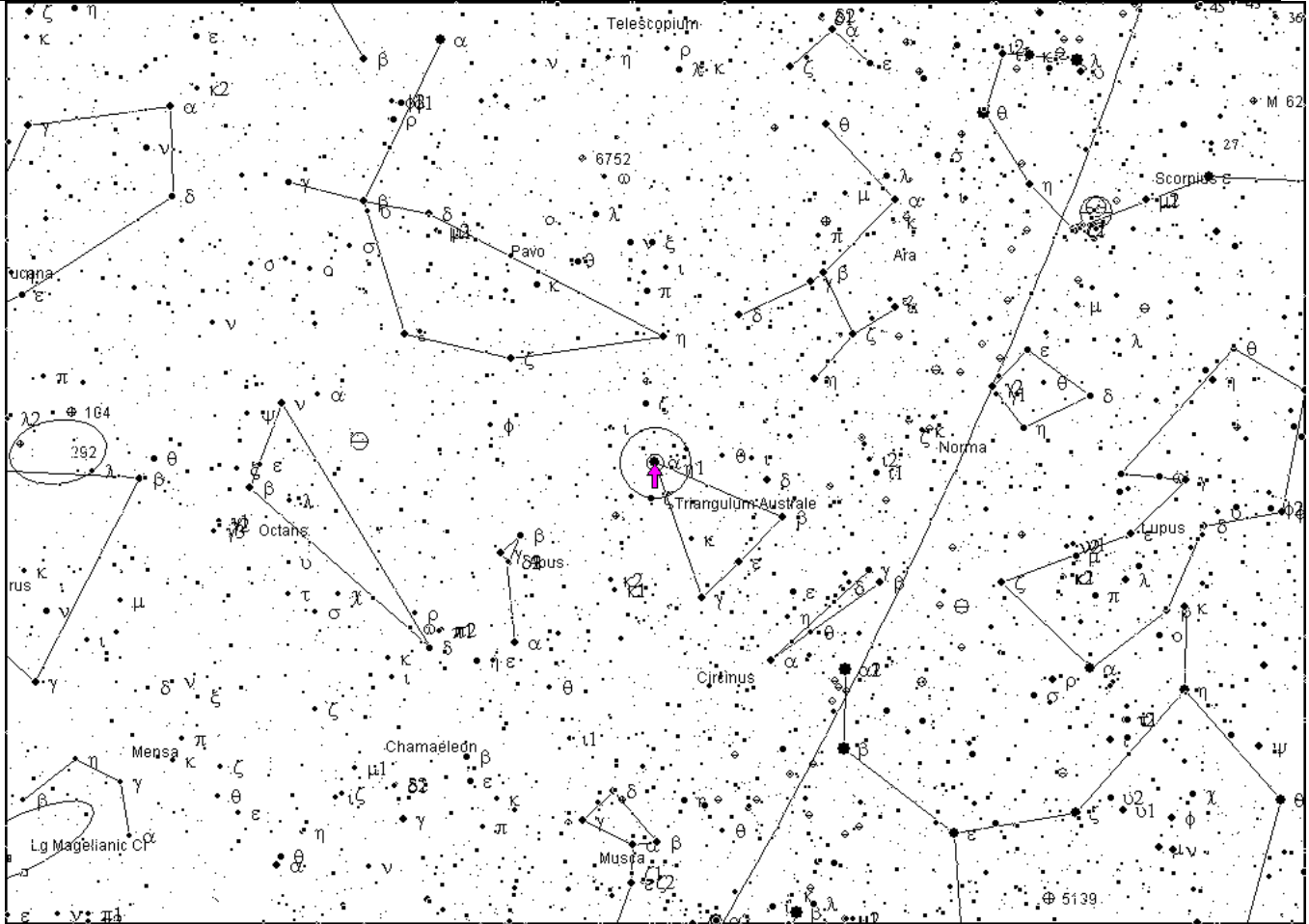
Name	Catalogue	Long Lat	Visual Magnitude	Type
Antares	Alpha Scorpio	RA:16h29m24.47s DE:-26°25'55.0"	1.06	Star M1 (red)



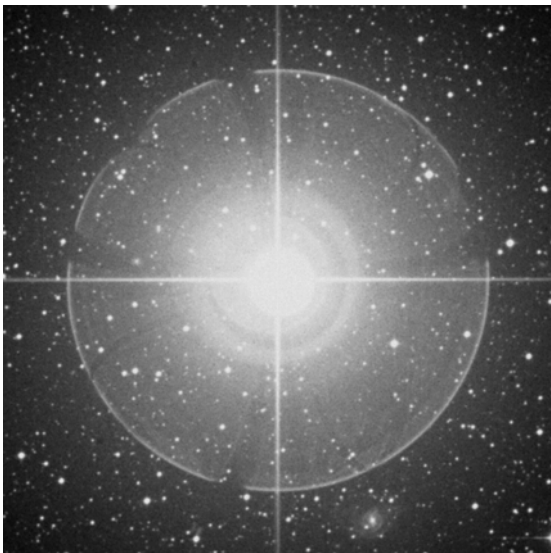
Episode	Name	Description
A Piece Of The Action (TOS)	Beta Antares	Planet with a crazy card game named Fizbin.
TM (DS9)	Antares IV	



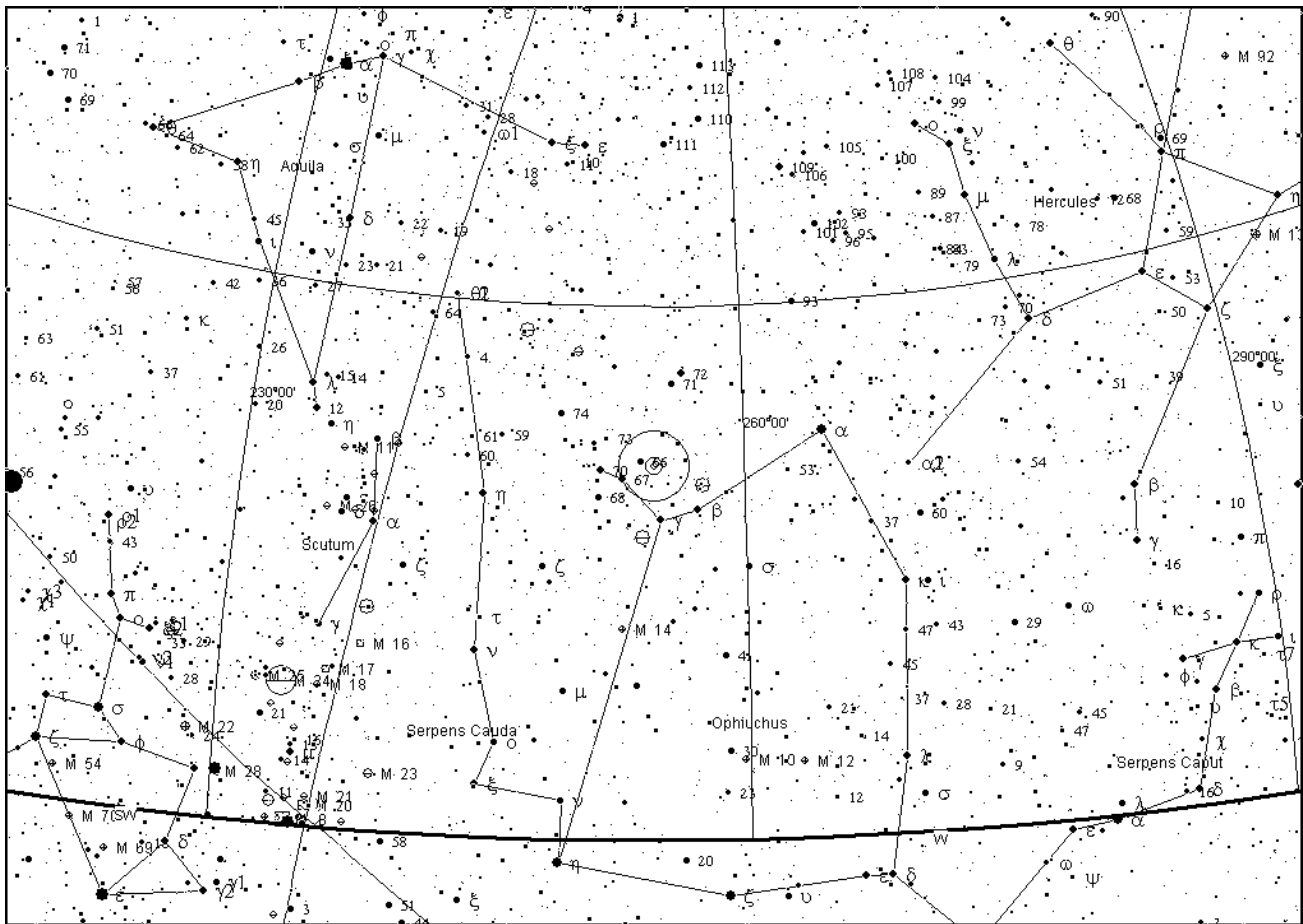
Name	Catalogue	Long Lat	Visual Magnitude	Type
Atria	Alpha Trianguli Australis	RA: 16h48m39.87s DE: -69°01'39.5"	1.91	Star K (orange)



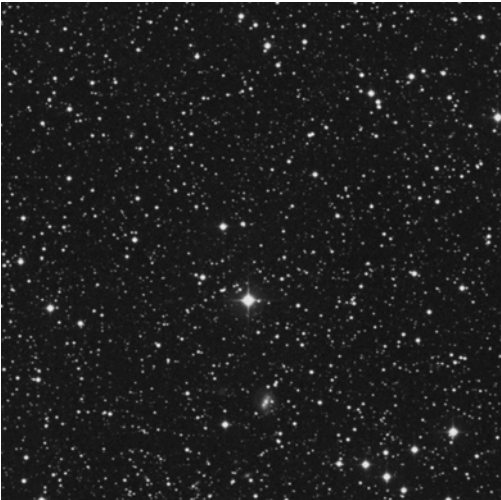
Episode	Name	Description
Inheritance (TNG)		



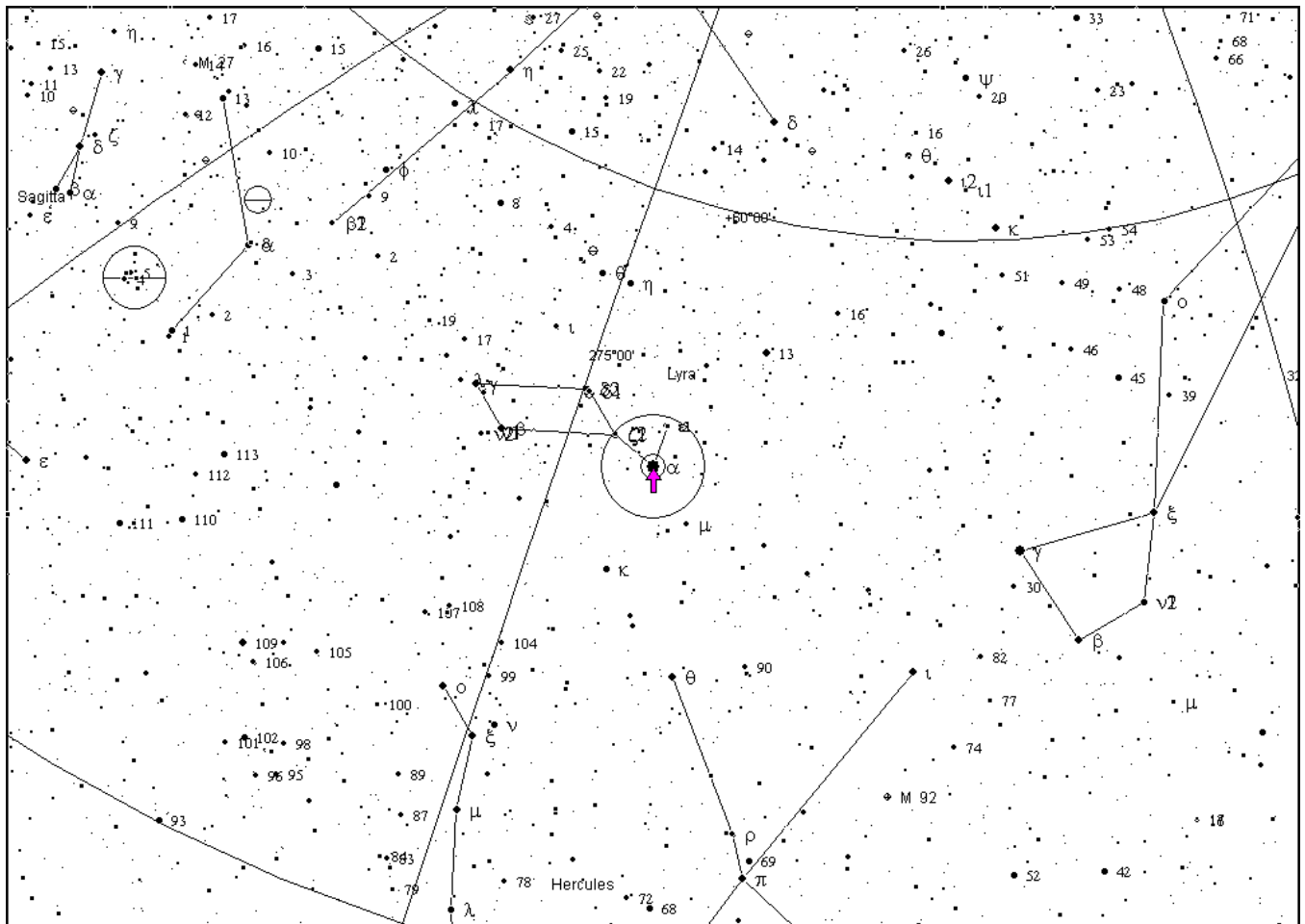
Name	Catalogue	Long Lat	Visual Magnitude	Type
Barnard's Star	Gliese 699	RA:17h57m48s DE:+04°41'36"	6.33	Star



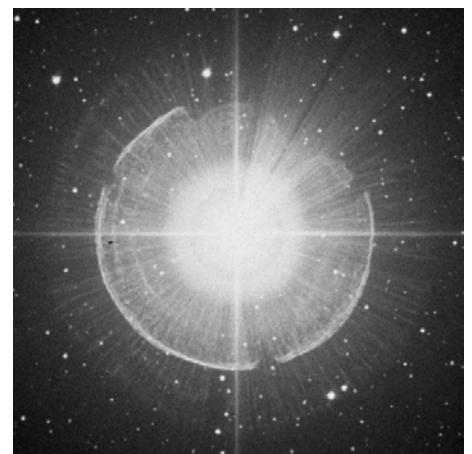
Episode	Name	Description
Pathways (VOY)		



Name	Catalogue	Long Lat	Visual Magnitude	Type
Vega	Alpha Lyrae	RA:18h36m56s DE:+38°47'0.1"	0.03	Star A (bluish-white)

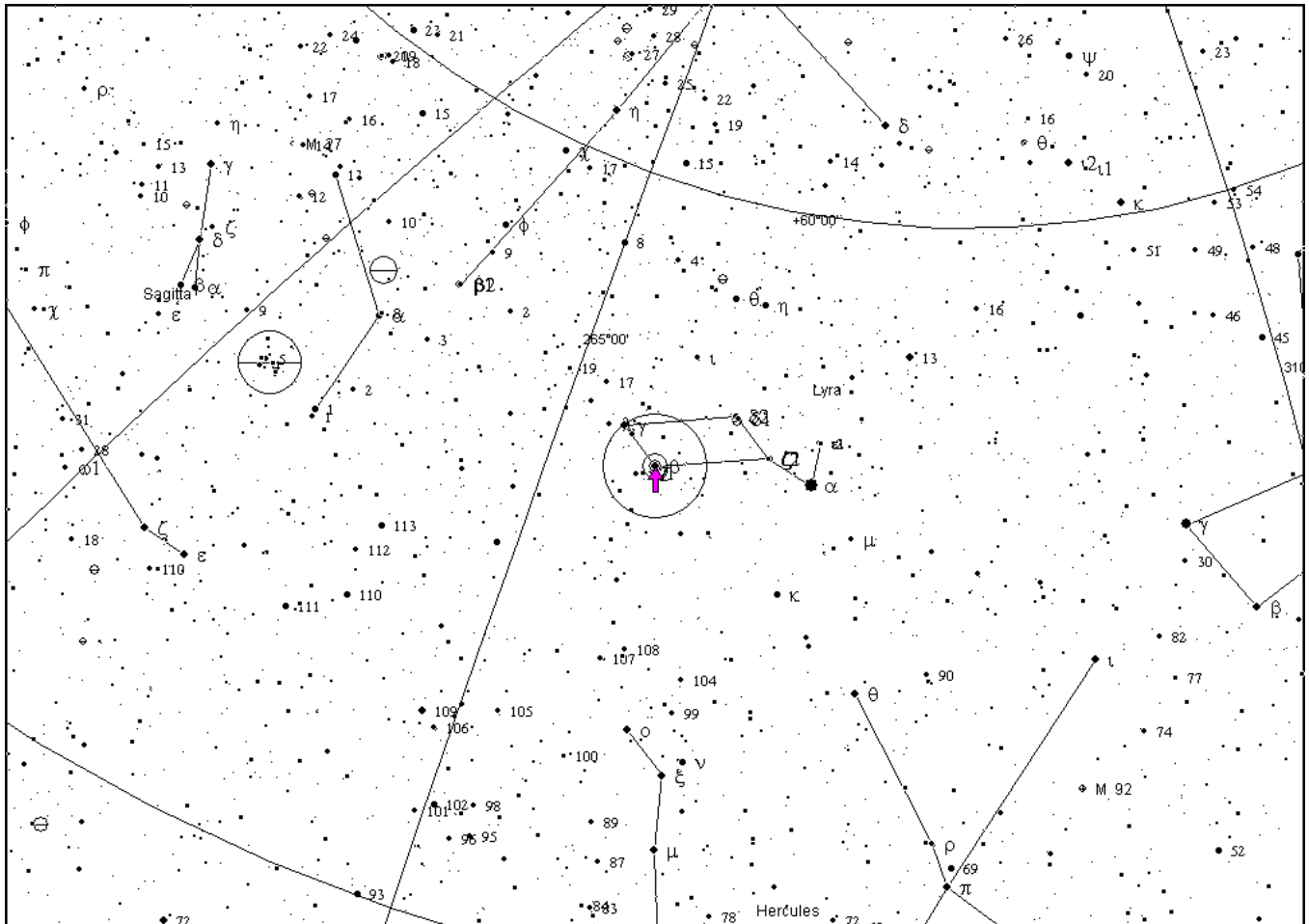


Episode	Name	Description
Where No Man Has Gone Before (TOS)	Delta Vega	Planet that processes ore and where Kirk attempts to leave Gary Mitchell.
Mirror, Mirror (TOS)	Vega IX	In mirror universe, Kirk must assassinate the colonists of this planet or be killed.
Pathways (VOY)		

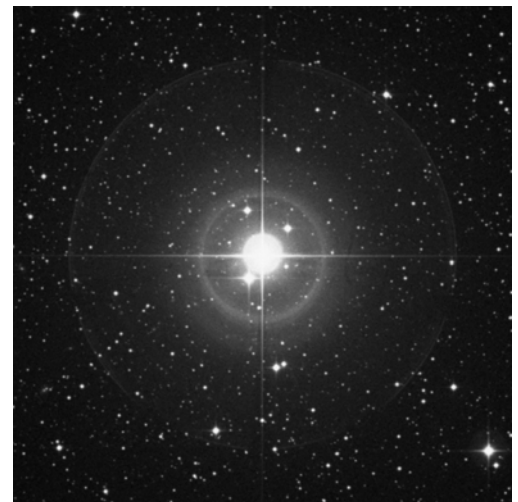


Star Trek 2009	Delta Vega	Icy planet where Spock attempts to maroon Kirk
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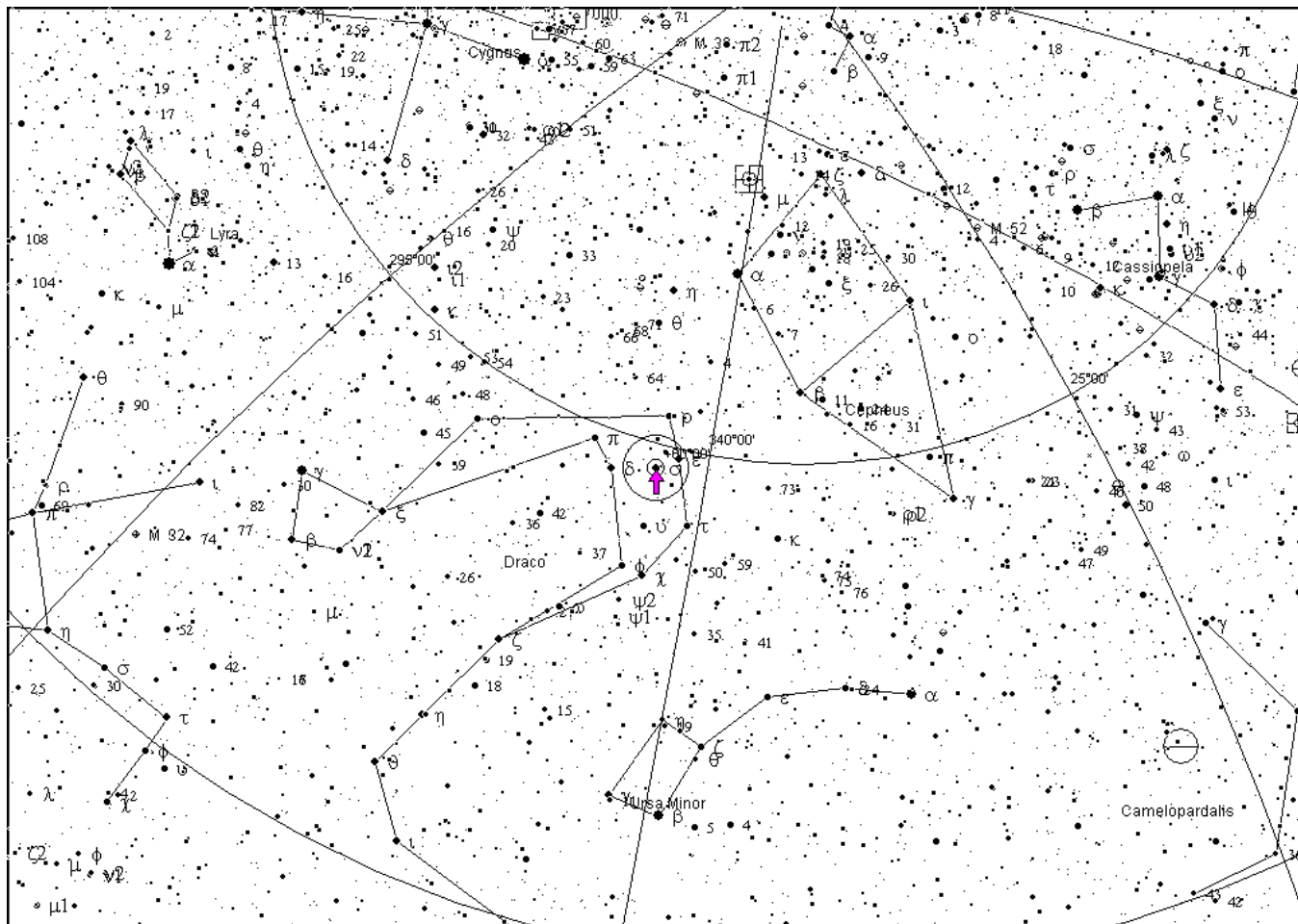
Name	Catalogue	Long Lat	Visual Magnitude	Type
Sheliak	Beta Lyrae	RA:18h50m04.79s DE:+33°21'45.6"	3.52	Star A (bluish-white)



Episode	Name	Description
Slaver Weapon (TAS)	Beta Lyrae System	Home to the planet Kzin.



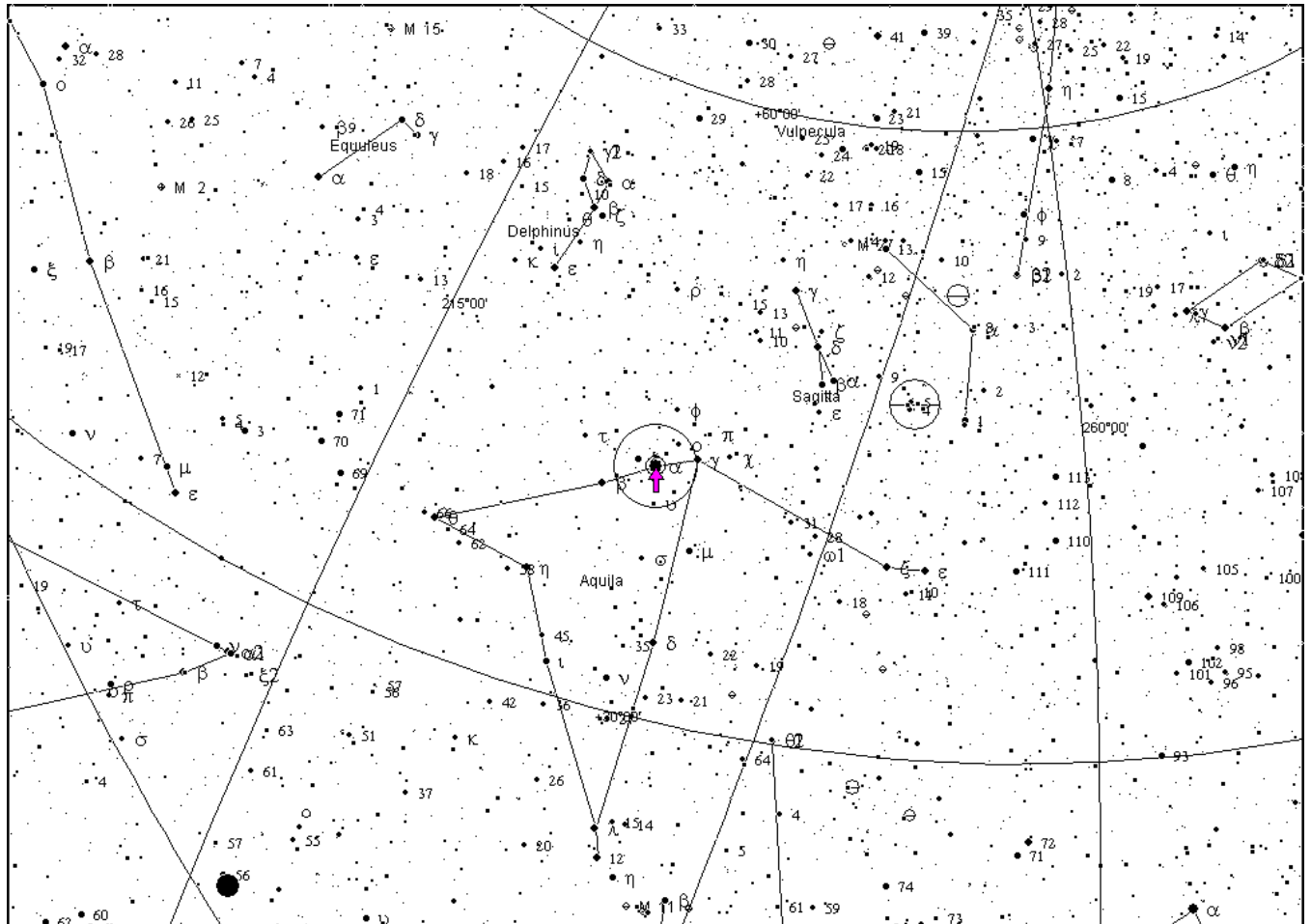
Name	Catalogue	Long Lat	Visual Magnitude	Type
Alsafi	Sigma Draconis	RA:19h32m20.59s DE:+69°39'55.4"	4.67	Star K0 (orangish)



Episode	Name	Description
Spock's Brain (TOS)	Sigma Draconis VI.	Planet where women rule and learn by using a computer called "Teacher" to learn what they need to know.



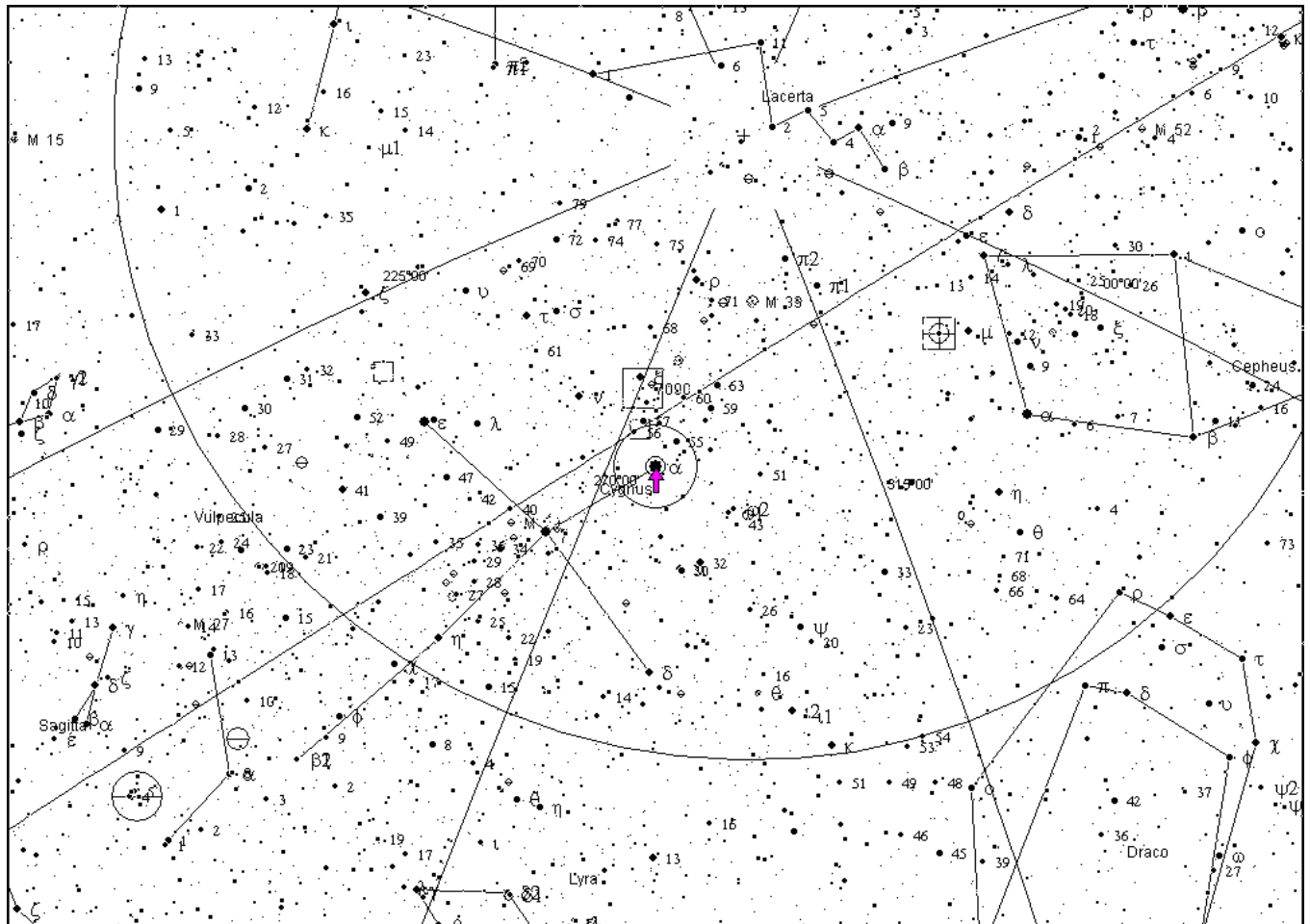
Name	Catalogue	Long Lat	Visual Magnitude	Type
Altair	Alpha Aquila	RA:19h50m46.9s DE:+08°52'0.6"	0.76	Star A (White)



Episode	Name	Description
Amok Time (TOS)	Altair VI	The Enterprise crew was scheduled to attend Klingon ceremony on this planet.
Encounter At Farpoint (TNG)	Altair III	The third planet in the system was Altair III, orbiting a star named Altair.
Prophet Motive (DS9)	Altair IV	A Federation population lives here.

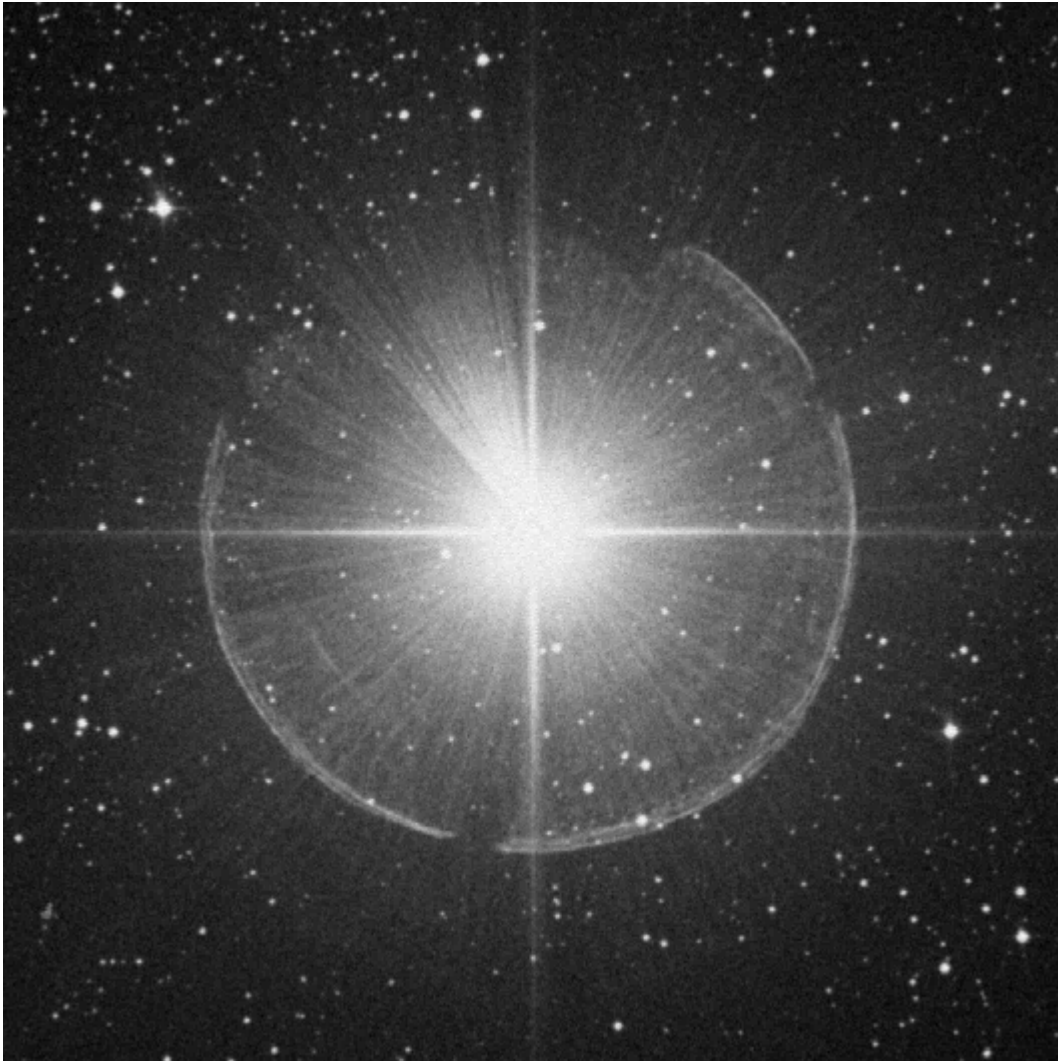


Name	Catalogue	Long Lat	Visual Magnitude	Type
Deneb	Alpha Cygni	RA:20h41m25.91s DE:+45°16'49.2"	1.25	Star A (blue-white)

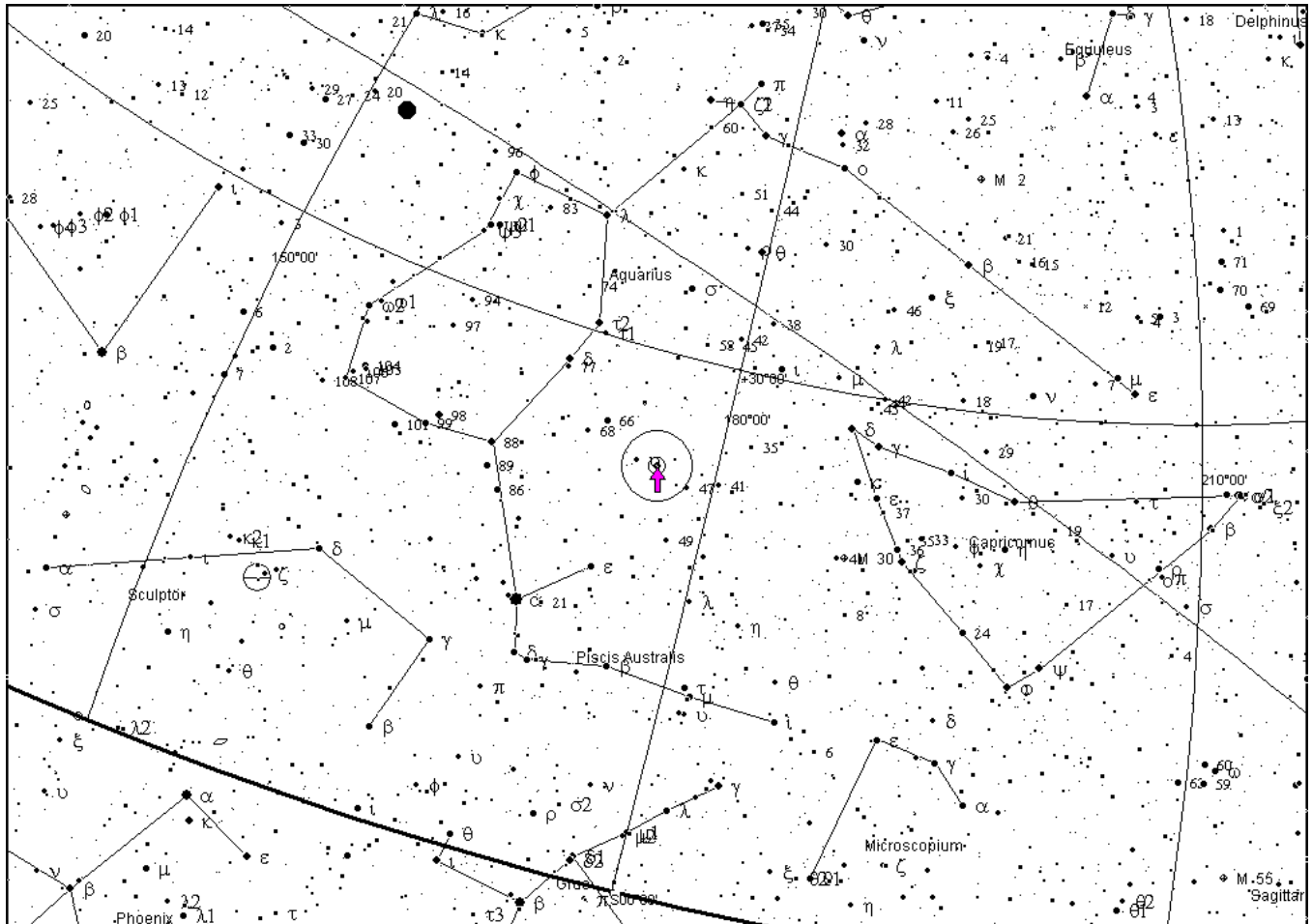


Episode	Name	Description
Where No Man Has Gone Before (TOS)	Deneb IV	A planet visited by young Kirk and Gary Mitchell
Wolf In The Fold (TOS)	Deneb II	Deneb II was the site of several murders of women committed by the Redjac entity,
Encounter At Farpoint, Parts 1 and 2	Deneb IV	Home planet of the Bandi.
Pirates of Orion (TAS)	Deneb	A place with the new science academy.

I Mudd (TOS)	Deneb V	In 2267, this planet still uses the death penalty for such crimes as fraud it could be death by electrocution, by gas, by phaser or death by hanging.
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Name	Catalogue	Long Lat	Visual Magnitude	Dimension	Type
Helix Nebula	NGC7293	RA:22h29m36.00s DE:-20°50'00.0"	6.30	16.0'x 12.0'	nebula



Episode	Name	Description
Mosaic (VOY)	Helix Nebula	



WHAT CAN BE OBSERVED FROM MONTREAL IN ORDER OF RA.

Name:	Catalogue number:
Andromeda Galaxy	M31
Pinwheel Galaxy	M33
	Tau Ceti
	Delta Trianguli
	Gamma Trianguli
Mira	Omicron Ceti
Acamar	Theta Eridani
Menkar	Alpha Ceti
	Epsilon Eridani
Pleiades	M45
Keid	40 Eridani
Hyadum I	Gamma Tauri
Aldebaran	Alpha Tauri
Rigel	Beta Orionis
Capella	Alpha Auriga
Mintaka	Delta Orionis
Crab Nebula	M1
Menkalinan	Beta Auriga
Pollux	Beta Gemini
Ashlesha	Epsilon Hyadrae
Regulus	Alpha Leo
	Wolf 359
Merak	Beta Ursa Majoris
Cor Caroli	Alpha Canes Venatici
Cauda Hydrae or Dhanab al Shuja Gamma Hydrae	Gamma Hydrae

Mizar	Zeta Ursa Majoris
Izar	Epsilon Bootes
Antares	Alpha Scorpio
Barnard's Star	Ophiuchus
Vega	Alpha Lyrae
Sheliak	Beta Lyrae
Alsafi	Sigma Draconis
Altair	Alpha Aquila
Deneb	Alpha Cygni
Helix Nebula	NGC 7293

HERE ARE SOME ERRORS IN THE NAMING OF TAS.

Questar M 17 is supposed to be a piece of uncharted space in the episode "Beyond the Farthest Star". In reality, it's the Messier Object M17.

In TAS Palas 14 is a system with the planets Alandra and Mantilles in the episode "One of Our Planets is Missing". Palas 14 is really an asteroid.

In "The Lorelei Signal" the planets name is Taurus II in the Taurean System. Taurus is really a constellation.

Acadian was a mining planet in the episode "Mudd's Passion". Acadians are people who are the descendants of seventeenth century French colonists.

In the episode "Terratin Incident" it is said that Terra 10 orbited the star Cepheus, Cepheus is really a constellation.

Argo, from "The Ambergris Element" is the name of a planet. Argo was also the name of a boat from Greek Mythology.

In "Bem" the planet's name is Pandro This is also happens to be the name of S. Bermas Pandro, a film producer who died four years before the release of this episode.

Dramia II is the name of a planet in "Albatross". Dramia is also a fishing village in Greece.

Also in "Bem", there is a planet named Delta Theta III. This is incorrect planet name. Planets are given the name of their star with a number. Delta Theta are two Greek letters and this is an incorrect star name which should be one Greek letter and a constellation name.

REGIONS OF SPACE

Omicron Delta quadrant is from "Once Upon a Planet" (TAS) and "Manhunt" (TNG). In "Once Upon a Planet" a planet of pleasure was located here. In "Manhunt" it was simply part of one of Data's complicated calculations.

The Delta quadrant is the home of the Borg. It is also where the ship Voyager is stranded.

The Alpha quadrant is home of the federation.

SUPER NOVAS

Beta Niobe from "The Counter Clock Incident" was a star going nova in our universe as well as in an opposite universe.

HERE ARE TWO STARS THAT HAVE REAL PLANETS IN ORBIT...

Epsilon Eridani

It is said that Epsilon Eridani really has a planet. It was discovered by a man named W. Cochran on August 7th, 2000. His name is a real coincidence because a man named Zefram Cochrane, according to Star Trek TNG First Contact movie and TOS episode Metamorphosis, was the inventor of the warp drive which led to the first meeting between the Vulcans and humans. Also, just as the Voyager episode Pathways states, Epsilon Eridani really has a fourth planet.

Closest to Epsilon Eridani, is an asteroid belt, the second planet (b), another asteroid belt the forth planet (c) and last but not least, is a dust disk. The most interesting part is the fourth undetermined planet. It is about 0.1 of Jupiter's mass and takes approximately 6.85 Earth years to orbit its sun. The mass of this planet is about the same as any other habitable planet. The odds of this planet being a "class M" planet is about 3.3%, unlike Jeri Taylor (the author of the episode) had suspected.

Pollux

Pollux B is the planet that is believed to orbit the star Pollux (Beta Geminorum). This planet's mass is about 2.3 times Jupiter's mass. It takes approximately 1.614 Earth years to orbit its star. The man who discovered this planet is named A. Hatzes, and this planet was officially announced on June 16th, 2006. This star sits 33.6 light years away from Earth.

The star Beta Geminorum is slightly cooler than our sun and varies from orange to red in color. This star is categorized as K and is 5,000 degrees Kelvin. It is also about 1.7 times the size of our sun.

HERE IS SOME INFORMATION ABOUT THE PHOTOS:

All the photographs are either: HTS Phase S (GSC1) or
HTS Phase S (GSC2)

Acamar Theta Eridani, Rigel Beta Orionis and Canopus Alpha
Carinae are Poss2/UKSTU IR

The source of the photos is : <http://archive.stsci.edu>

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- For the maps: Cartes du ciel

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