

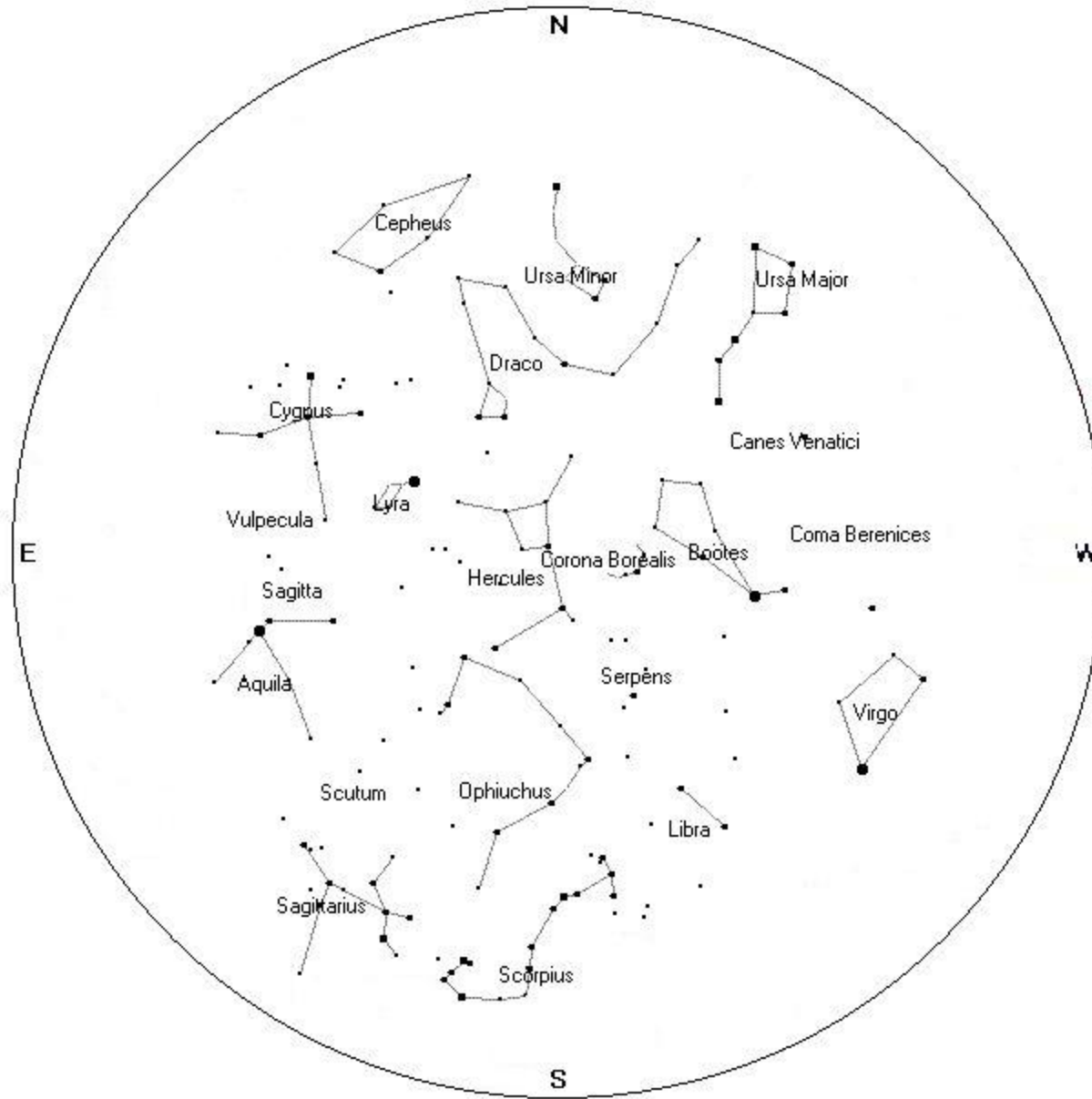
NHAC Observation Challenge - July

Object	Seen	Common Name	Type	AL Club	Action	RA	Dec	Naked Eye	Binocular	Telescope
Draco			Constellation	Constellations	Sketch			X		
M 6			Open Cluster	Messier Messier Binoc	Locate and Sketch	17 h 40.1 m	- 32 ° 13 '	X	X	X
M 7			Open Cluster	Messier Messier Binoc	Locate and Sketch	17 h 53.9 m	- 34 ° 49 '	X	X	X
M 92			Globular Cluster	Messier Messier Binoc	Locate and Sketch	17 h 17.1 m	+ 43 ° 08 '		X	X
NGC 6716			Open Cluster	Deep Sky Binoc	Locate and Sketch	18 h 54.6 m	- 19 ° 53 '		X	X
NGC 6819			Open Cluster	Deep Sky Binoc	Locate and Sketch	19 h 41.3 m	+ 40 ° 11 '		X	X
NGC 6823			Open Cluster	Deep Sky Binoc Herschel	Locate and Sketch	19 h 43.1 m	+ 23 ° 18 '		X	X
Ophiuchus			Constellation	Constellations	Sketch			X		
α Bootes		Arcturus	Star	none	Locate	14 15 39.6	+19 10 57	X		
α Ursa Minor		Polaris	Star	none	Locate	02 31 50.5	+89 15 51	X		
α Virgo		Spica	Star	none	Locate	13 25 11.5	-11 09 41	X		

Name: _____

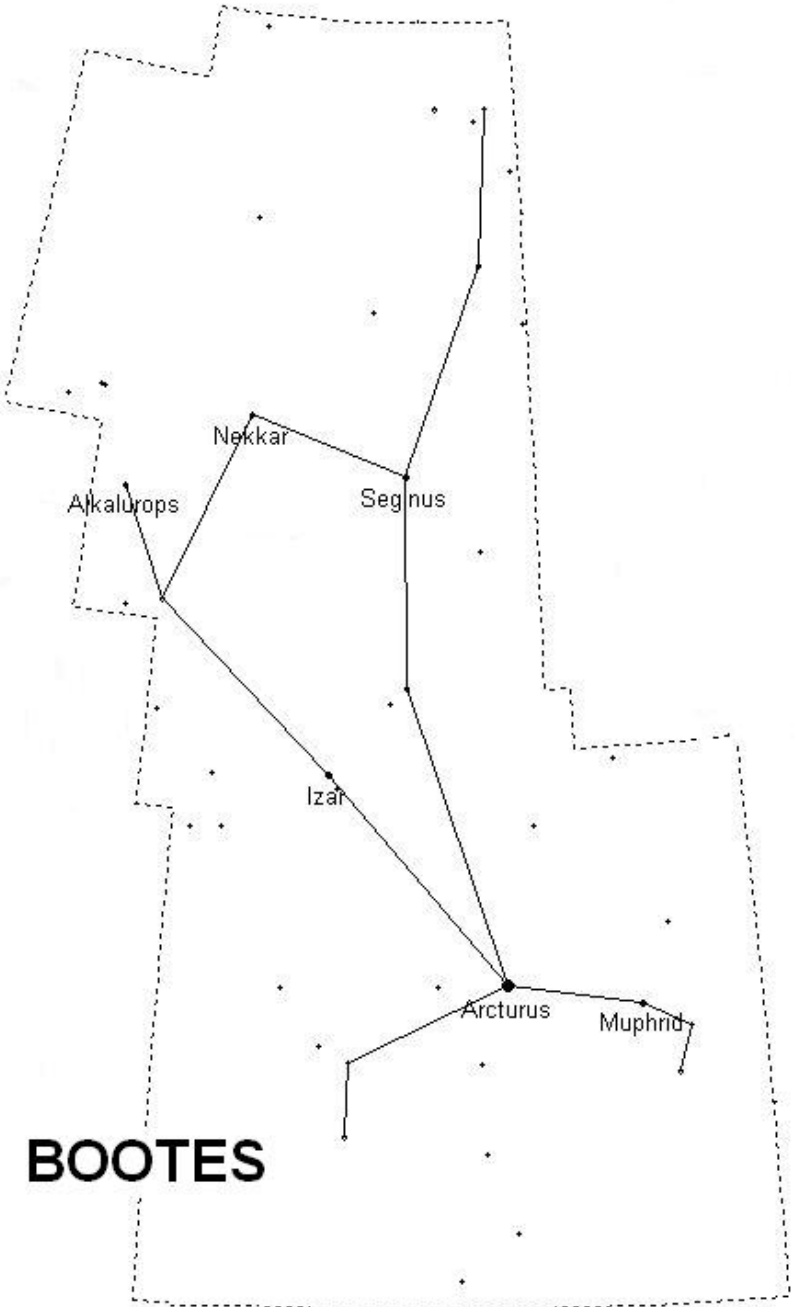
Date: _____

July – Whole Sky Chart

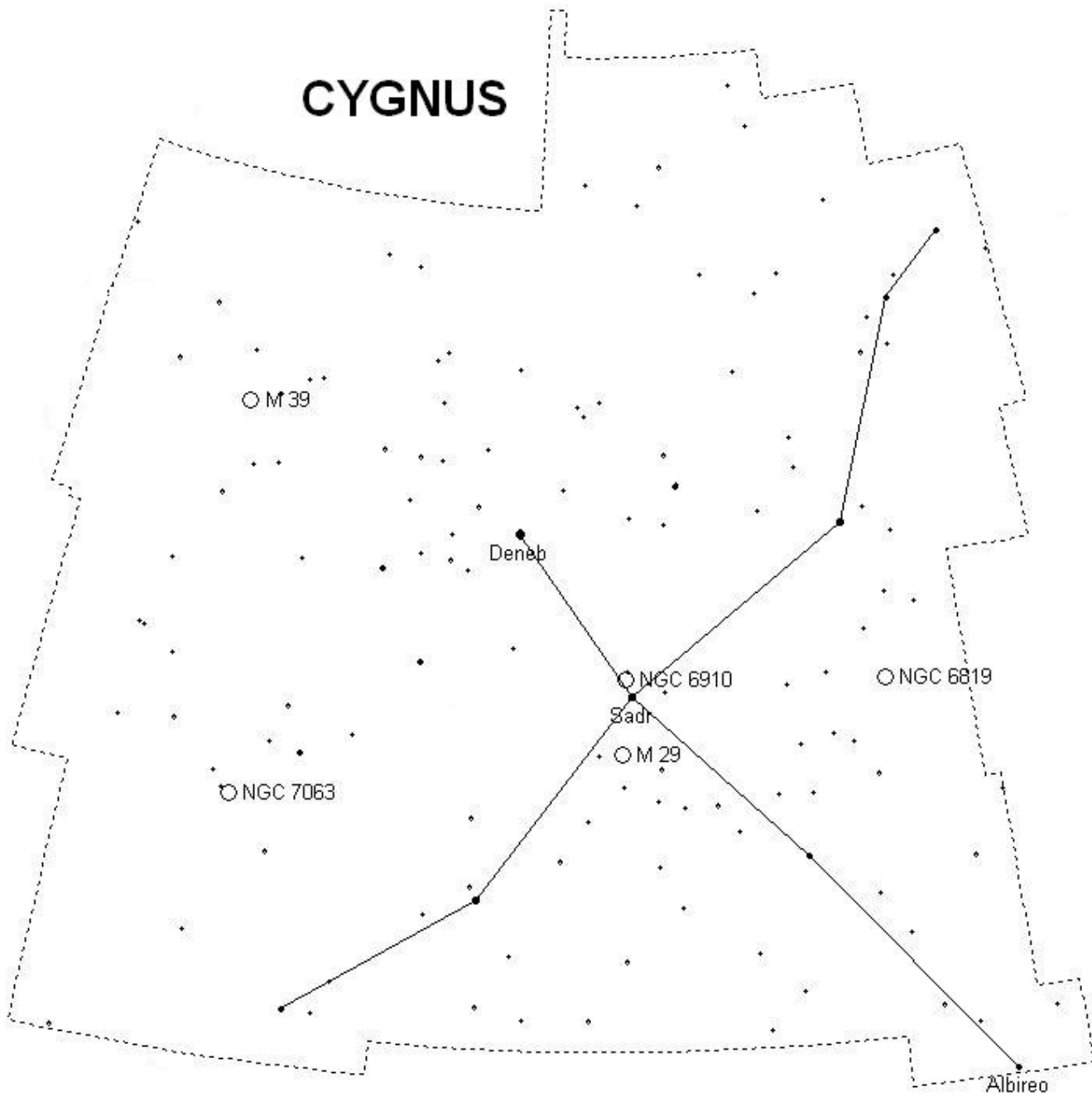


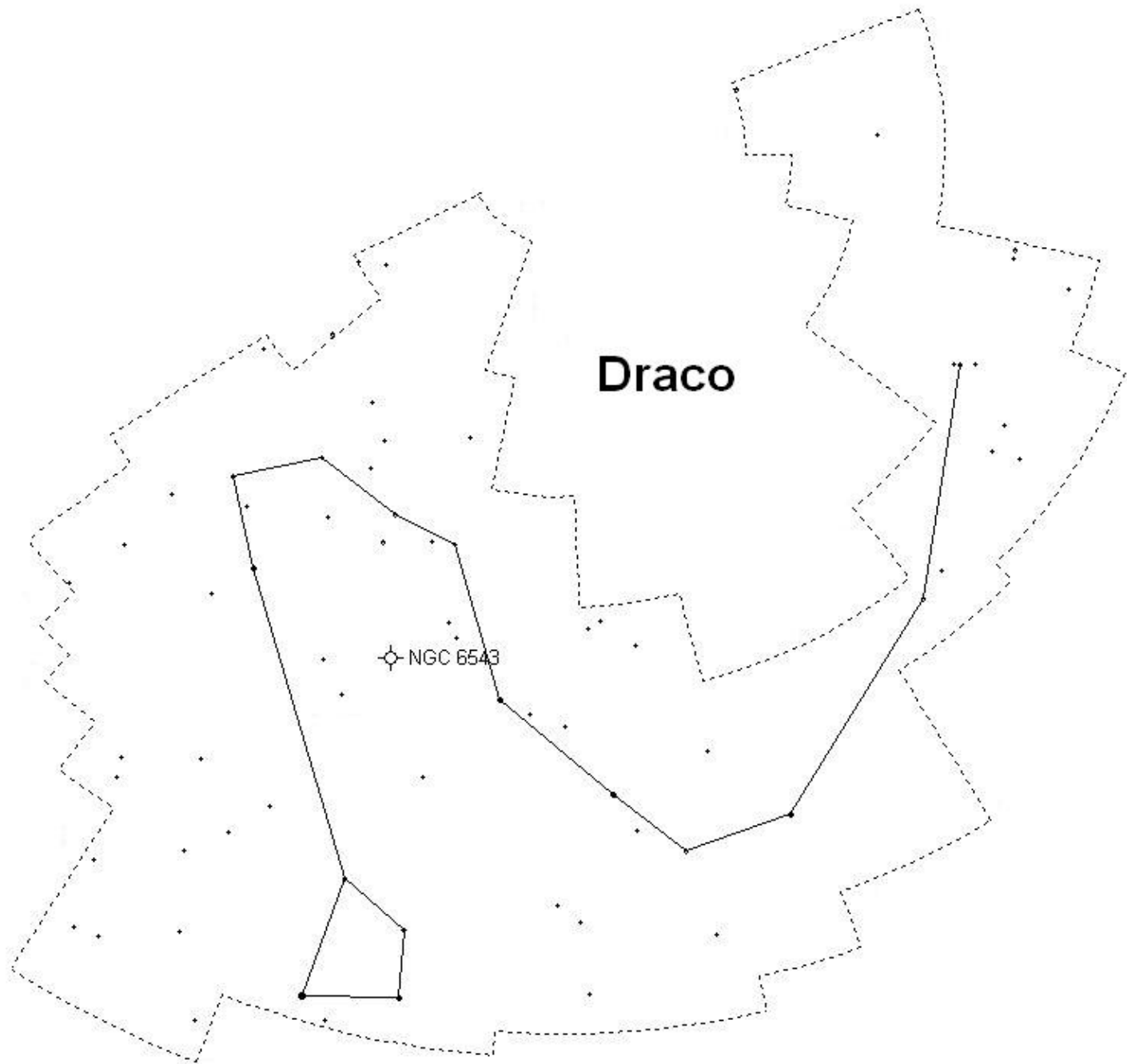
July – Constellation Maps

BOOTES



CYGNUS

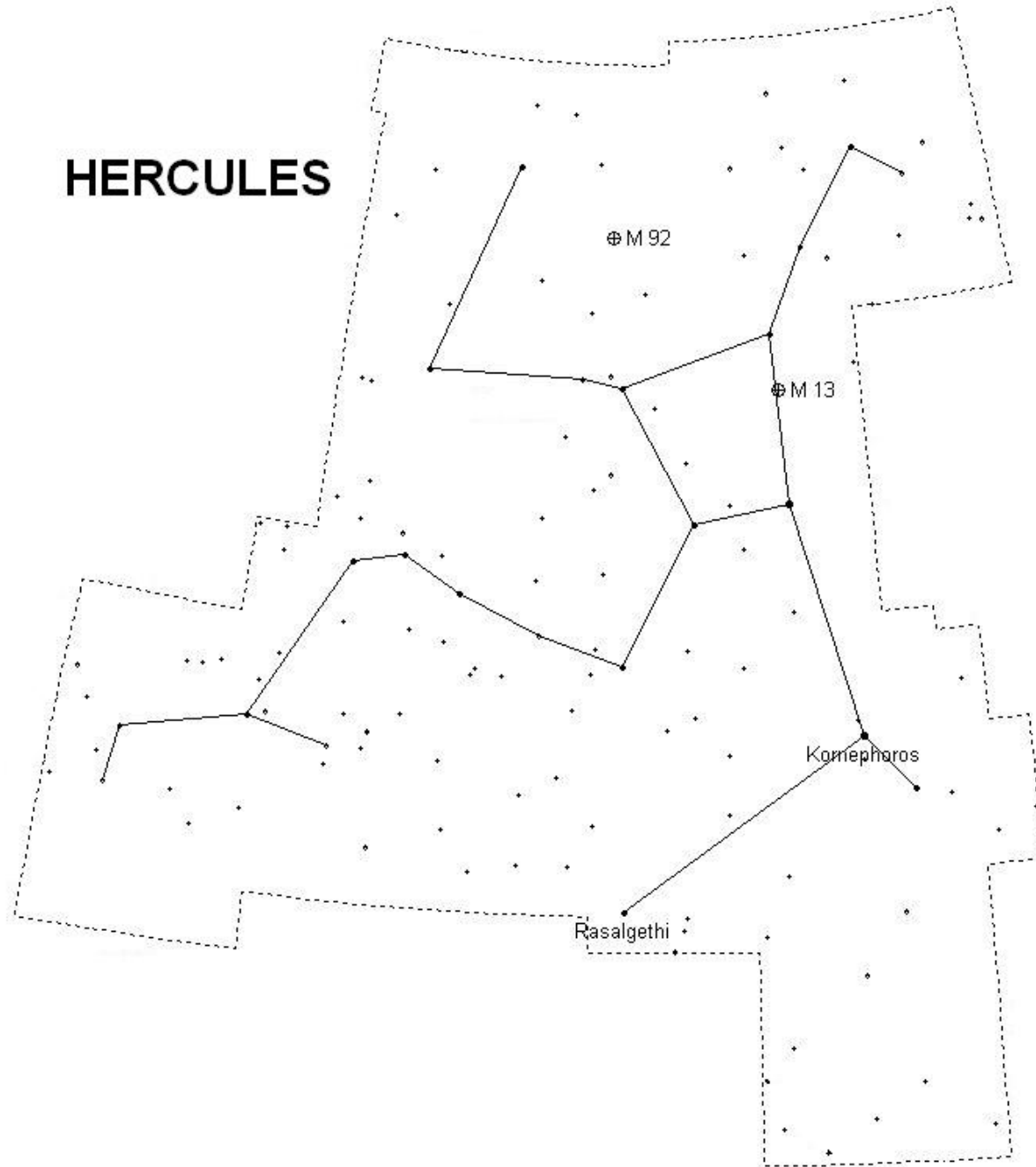


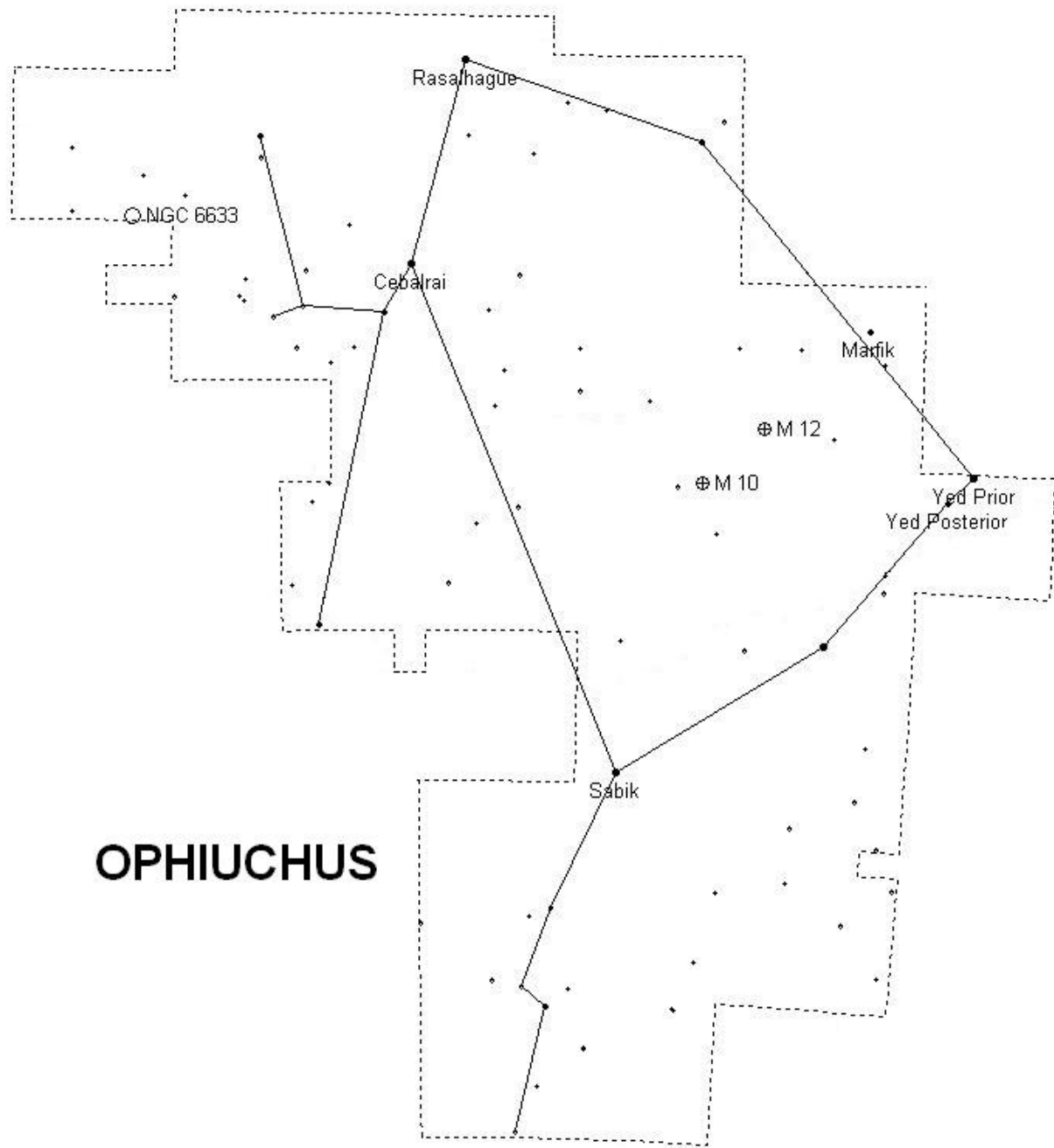


Draco

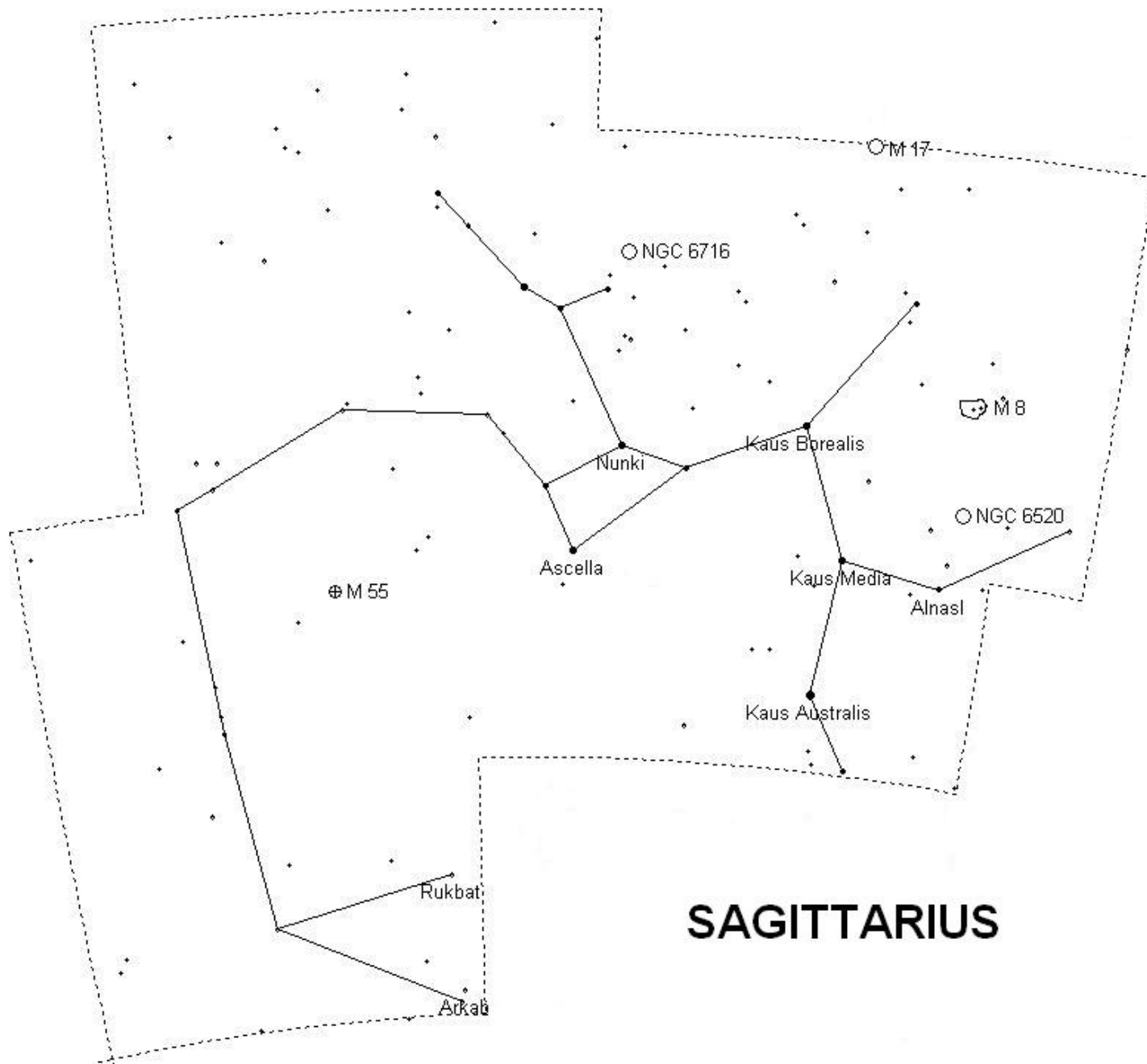
◇ NGC 6543

HERCULES

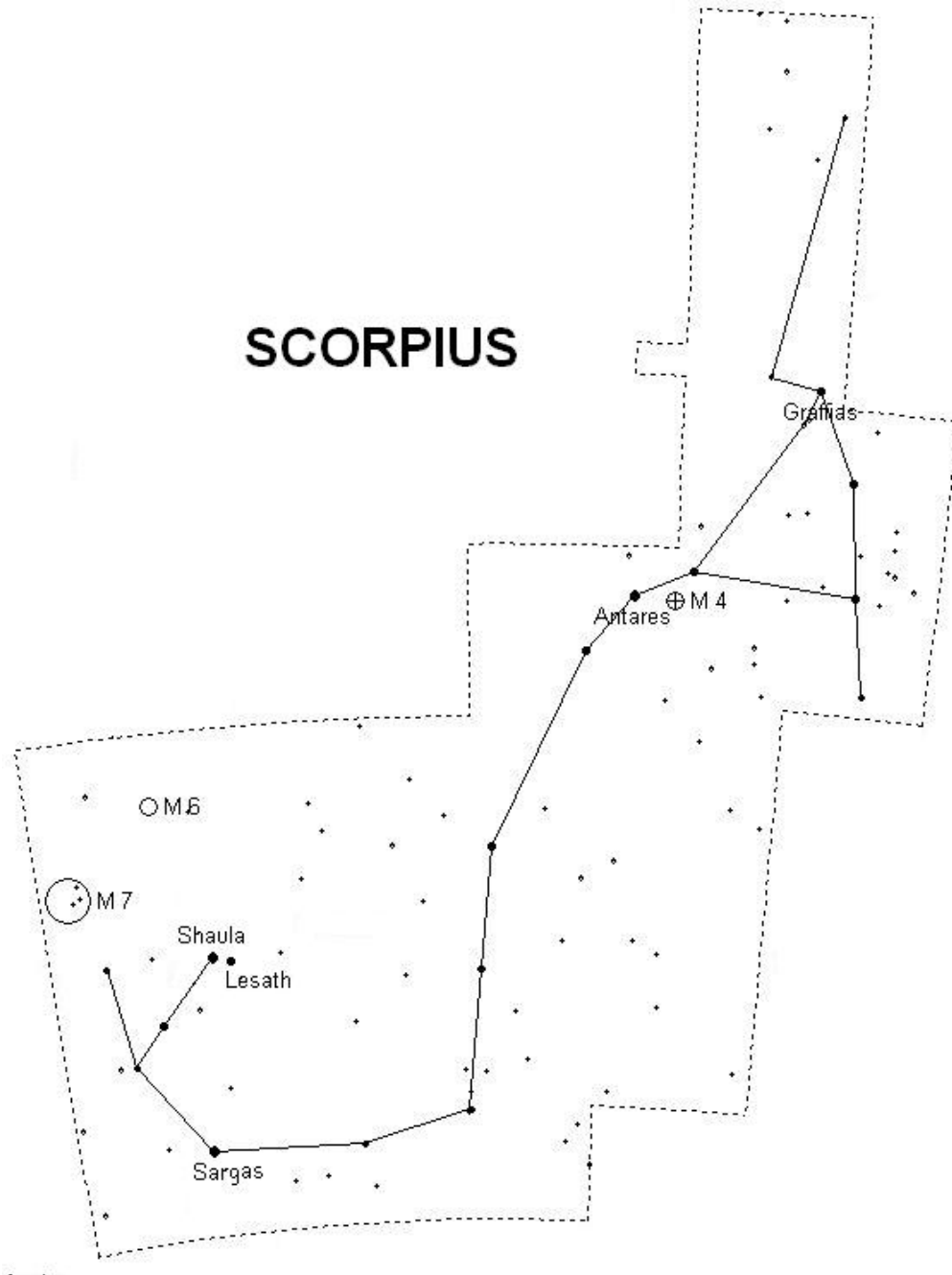


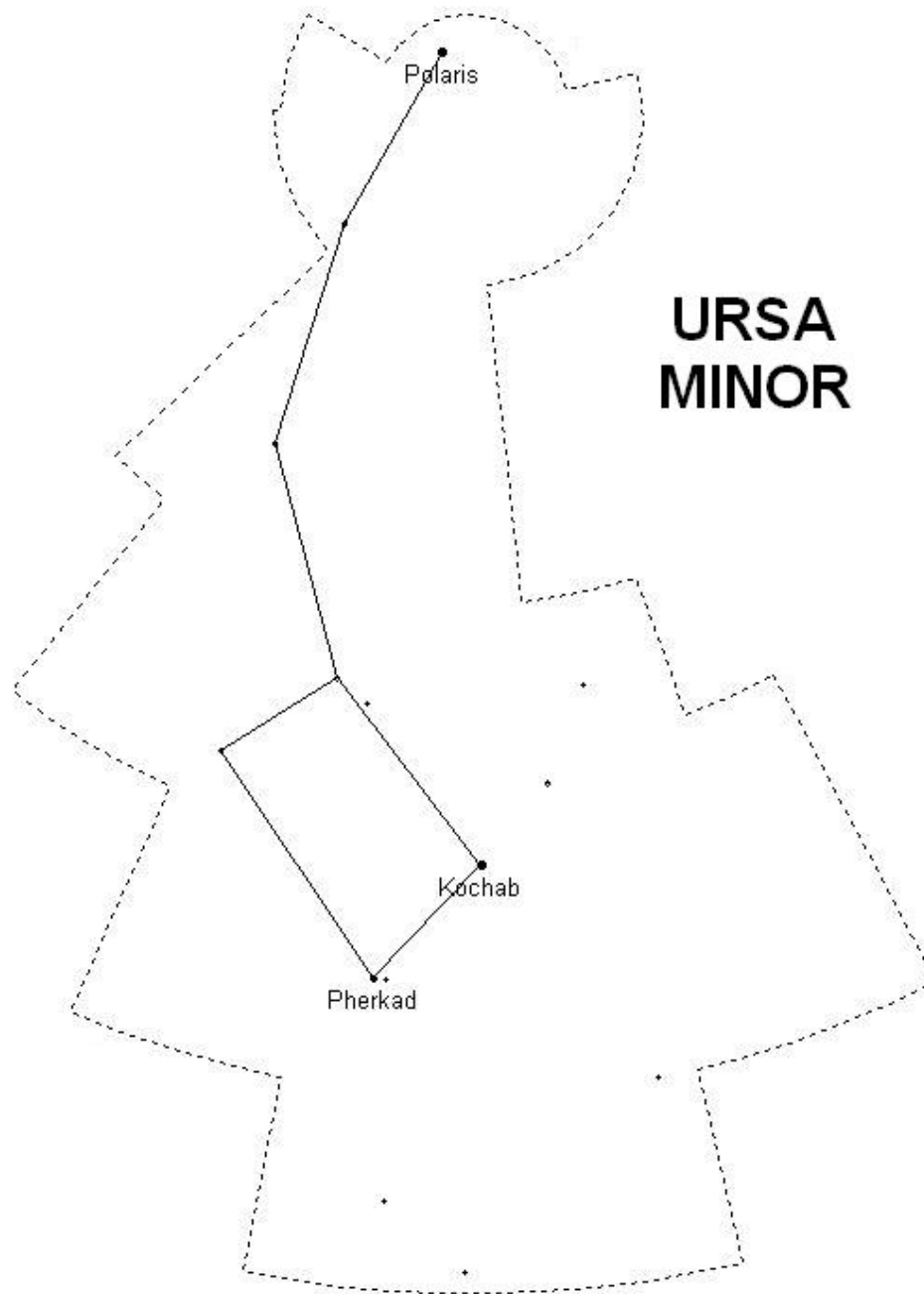


OPHIUCHUS



SCORPIUS



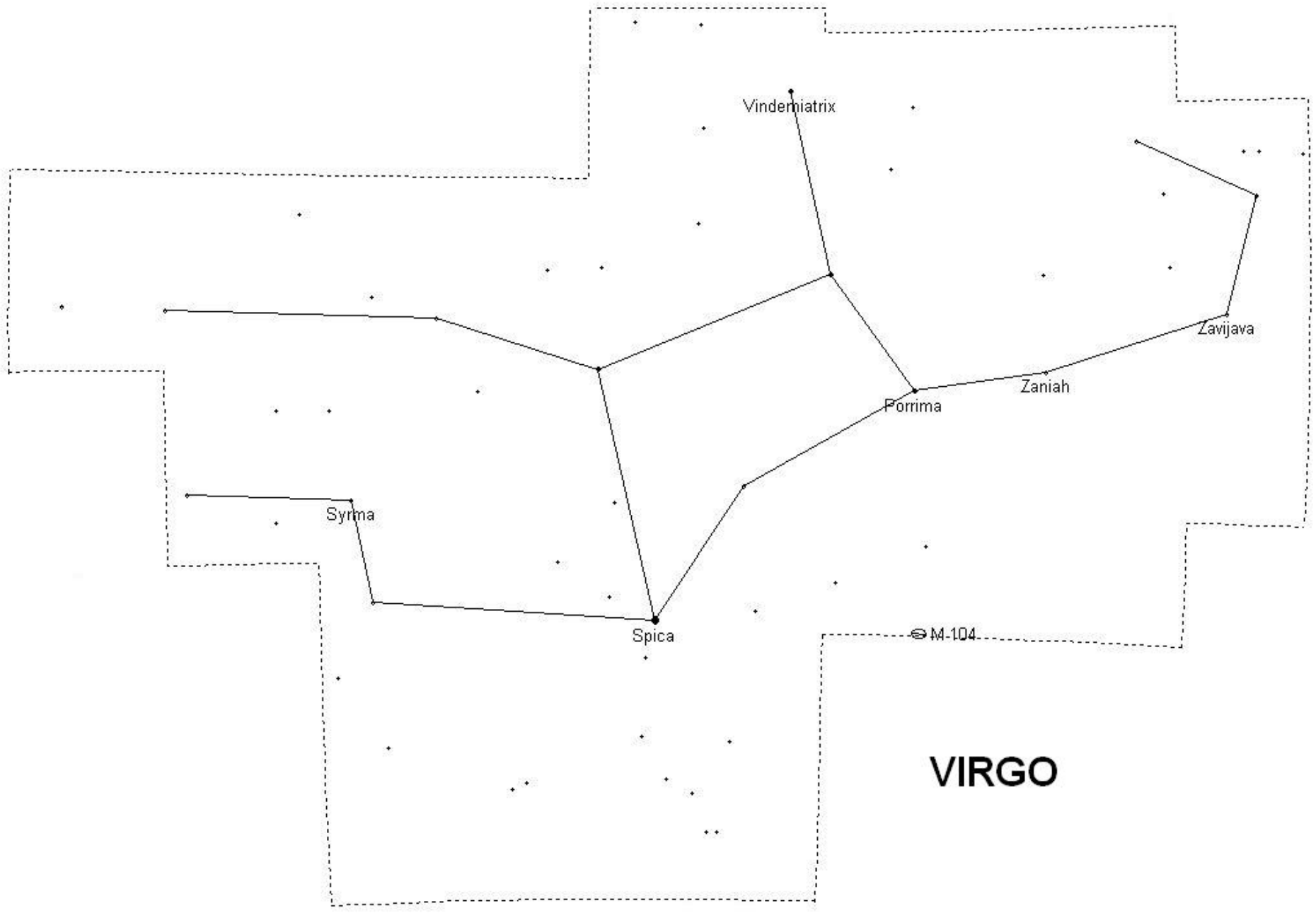


Polaris

**URSA
MINOR**

Kochab

Pherkad



VIRGO

VULPECULA

