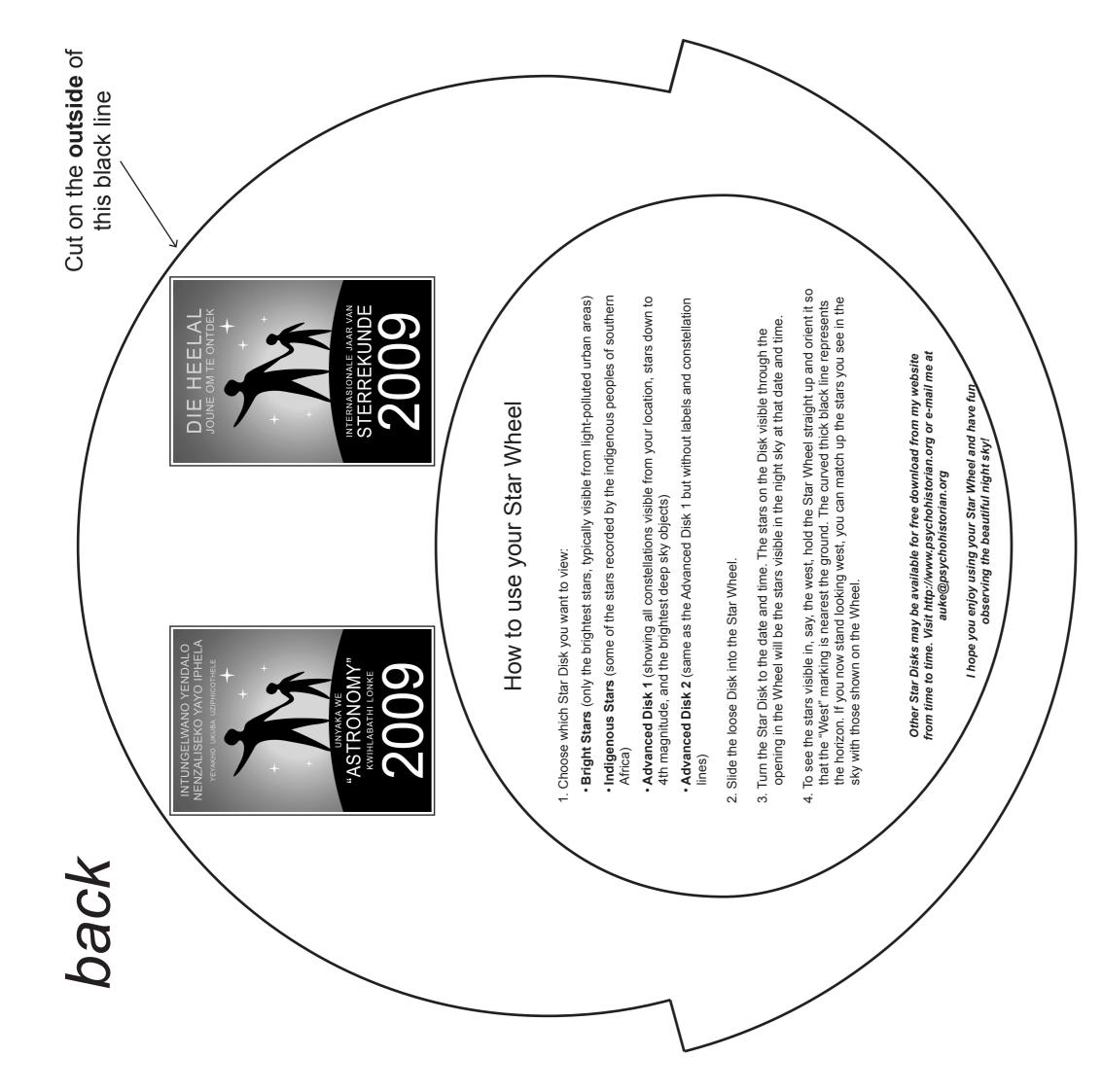


## How to assemble your Star Wheel

The neater you cut, the better your Star Wheel will work

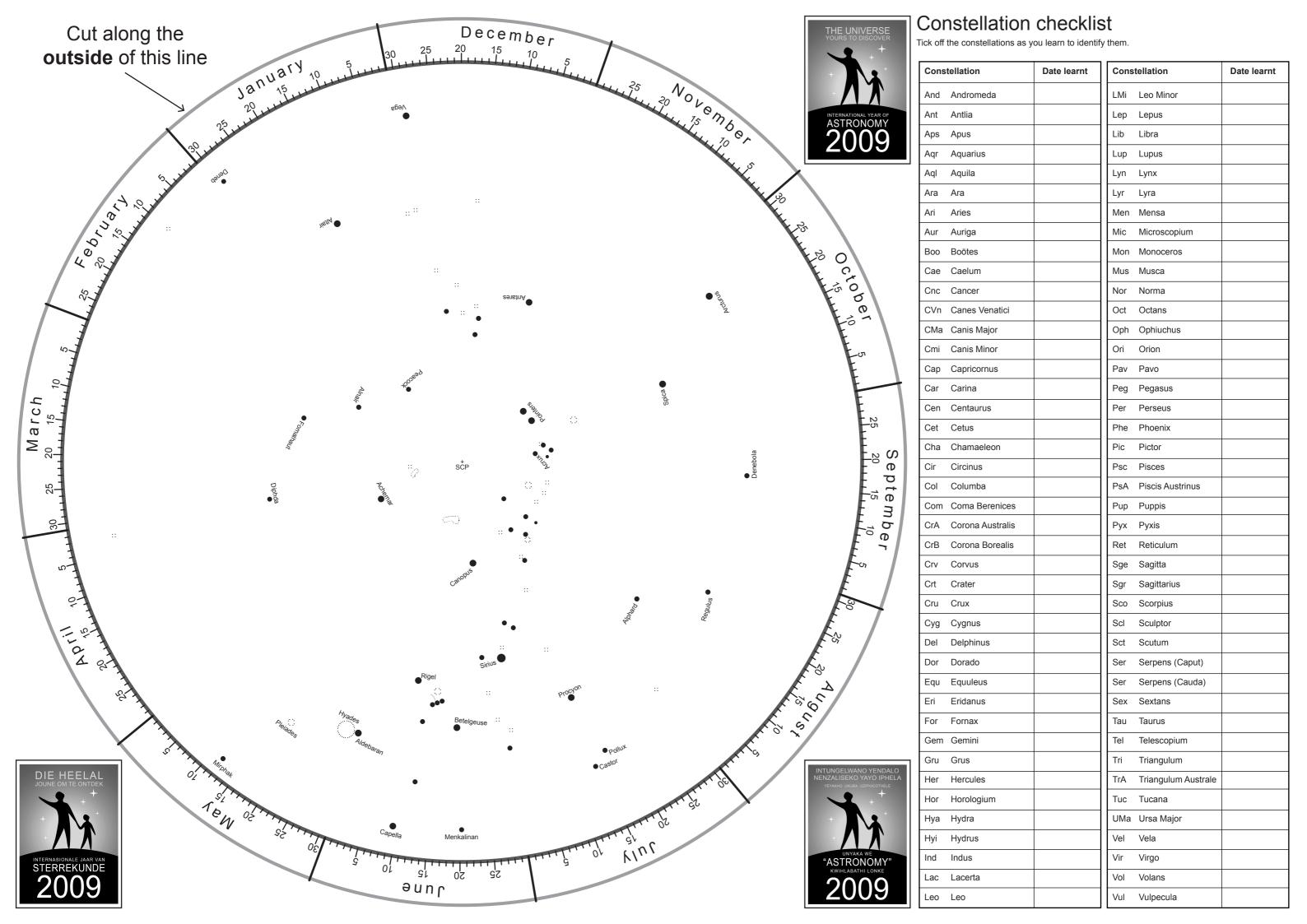
- 1. Cut out the front part of the Wheel but don't cut off the five tabs (marked "fold back")!
- 2. Carefully cut out the oval window by cutting along the inside of the black line; this will leave a black frame.
- 3. Cut out the back part of the Wheel.
- 4. Place the front part on top of the back, so that you can read the "How to use your Star Wheel" through the oval window you cut out in step 2.
- 5. Fold back the five tabs (marked "fold back") and glue them to the reverse side of the back part, creating a pocket.
- 6. Cut out the round Star Disks.
- 7. Sit back and admire your handiwork you're done.

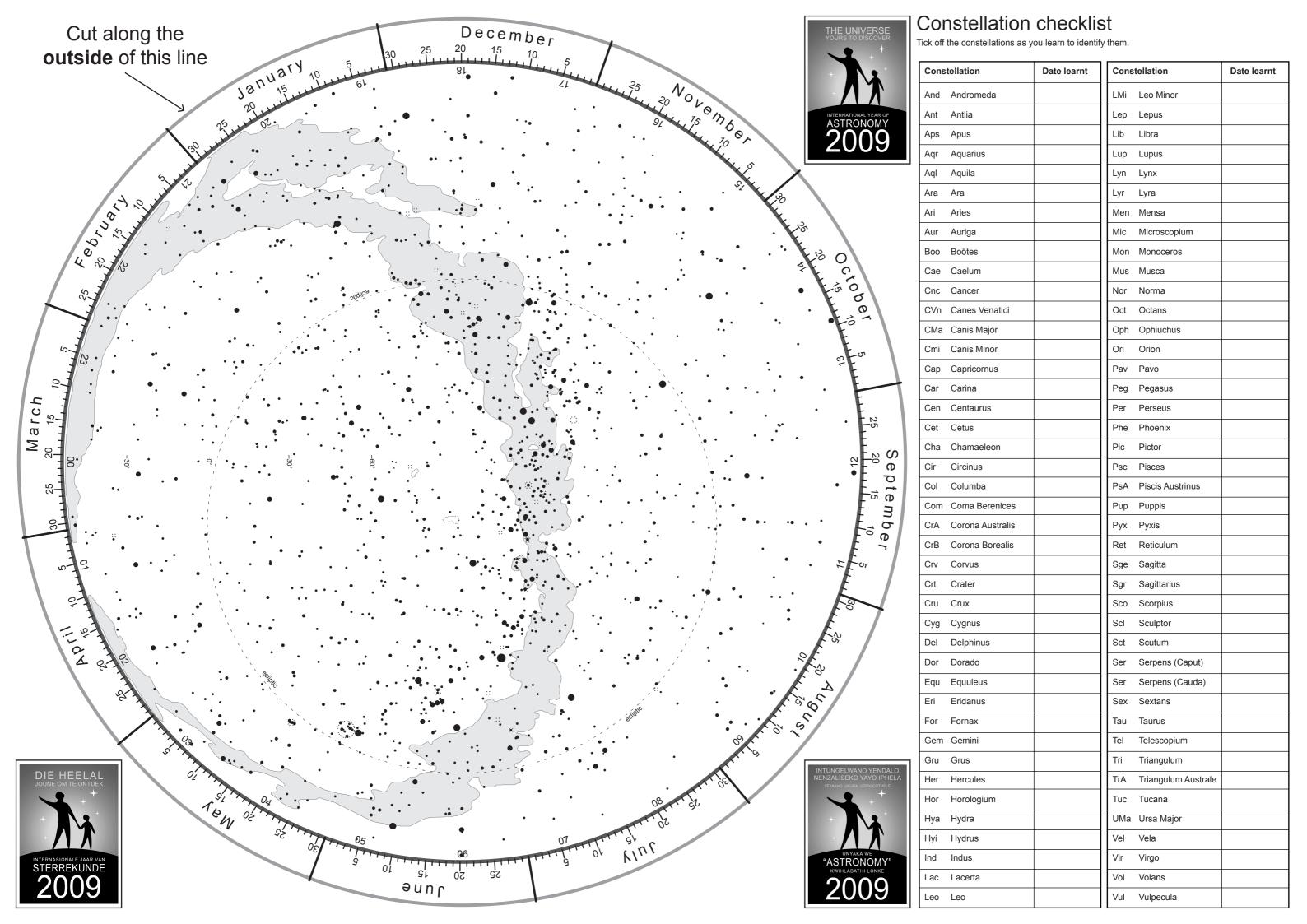


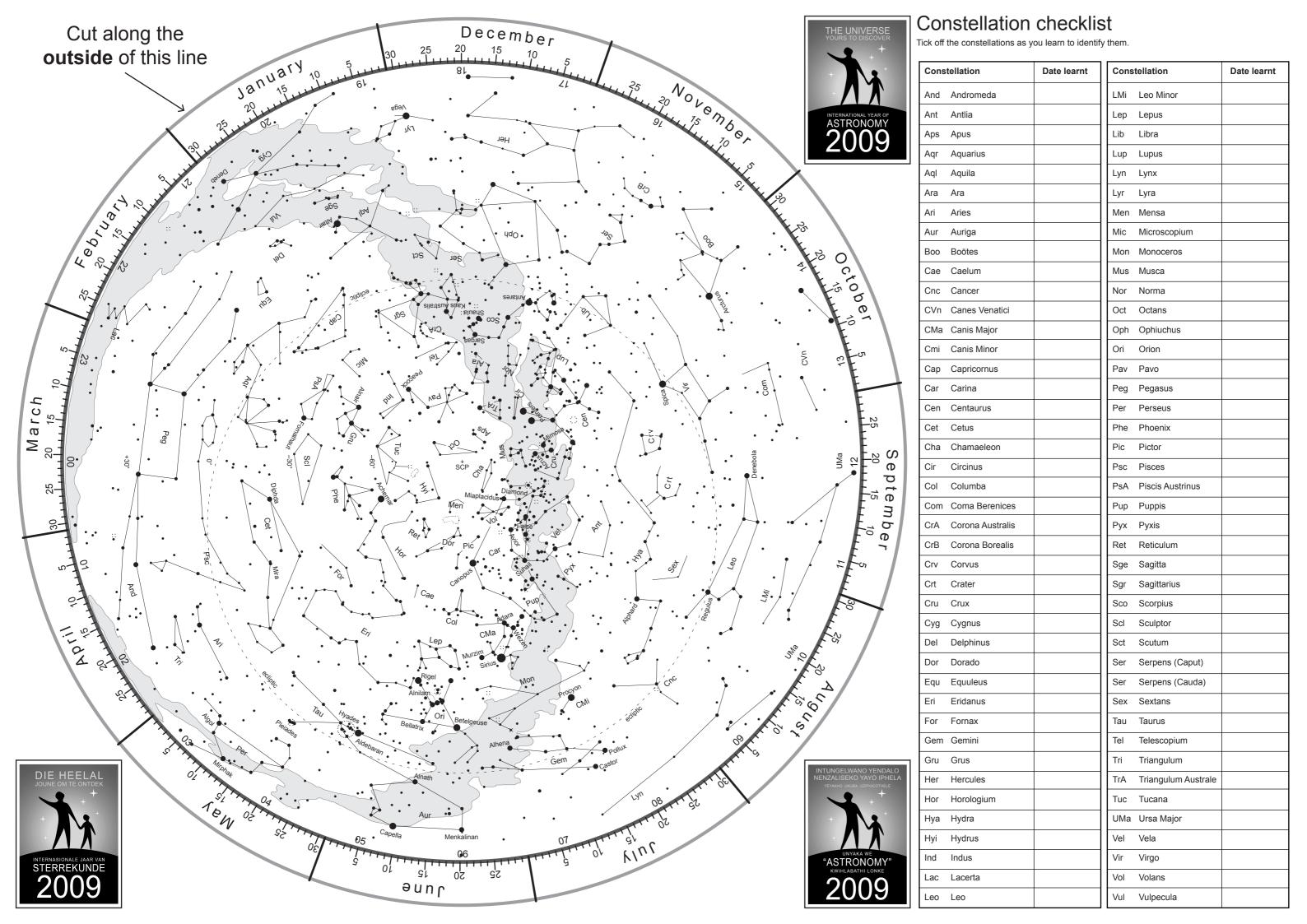
## Learning the constellations

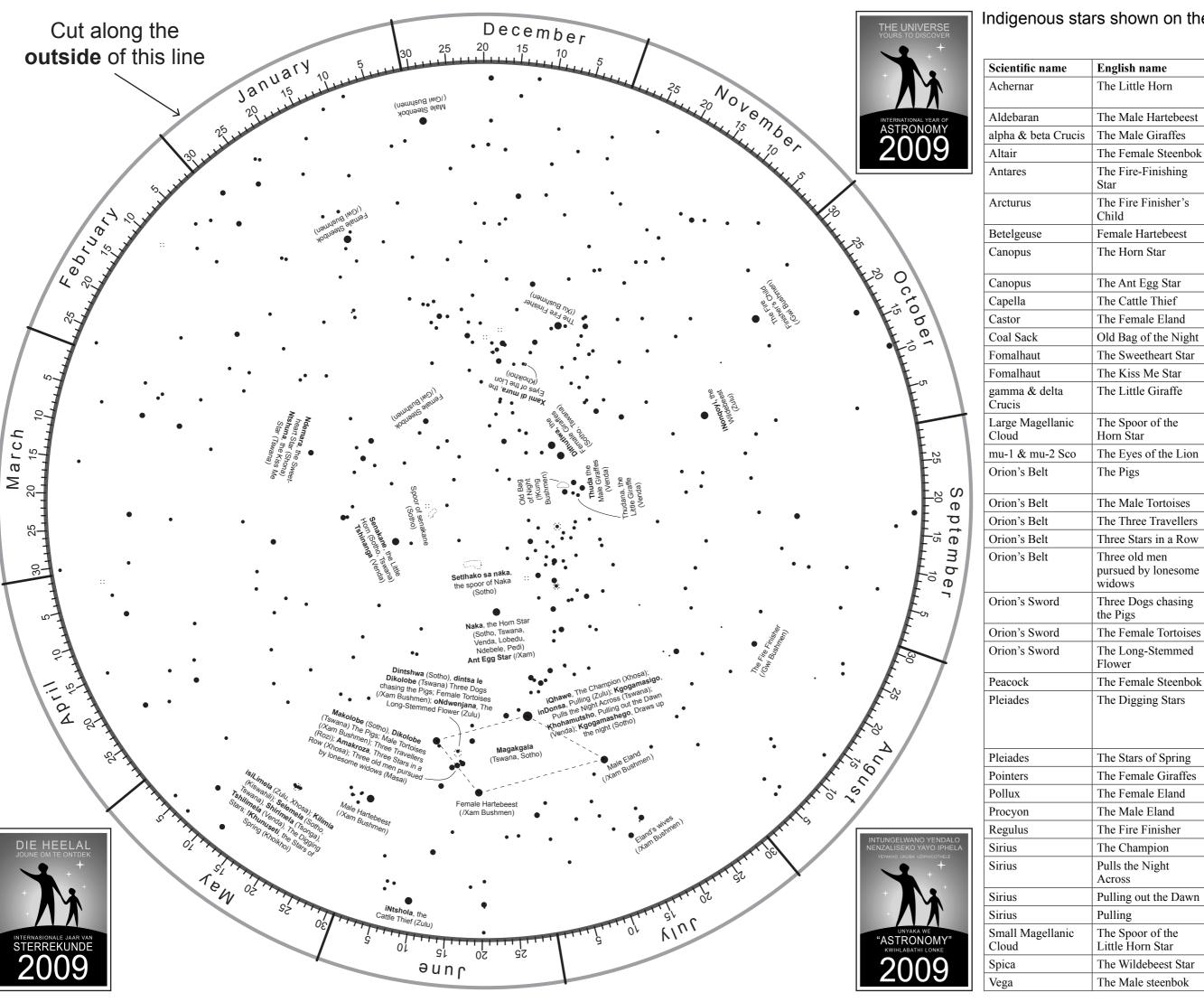
During the course of a single evening, new stars appear above the eastern horizon, while other stars set below the western horizon. This changing aspect is caused by the Earth's rotation on its own axis (once in 24 hours). During the course of a month, different stars can be seen as the nights follow each other. This more gradual change is caused by the Earth moving along its orbit around the Sun. The table below suggests approximate times of the year when individual constellations may be seen early in the evening:

Capriconus, Delphinus, Equuleus, Indus, Microscopium Perseus, Mensa, Reticulum, Horologium, Hydrus Aquila, Corona Australis, Scutum, Telescopium Pavo, Octans, Cygnus, Sagitta, Vulpecula Scorpius, Ophiuchus, Ara, Hercules Aquarius, Grus, Piscis Austrinus Andromeda, Aries, Triangulum Pegasus, Lacerta, Tucana Sagittarius, Serpens, Lyra Lupus, Norma, Serpens Cetus, Fornax, Phoenix Pisces, Sculptor Early September Late September Early November Early December Late November Late December Early October Late October Early August Late August Early July Late July Centaurus, Triangulum Australe, Circinus, Apus Canis Major, Canis Minor, Gemini, Monoceros Virgo, Coma Berenices, Canes Venatici Crux, Musca, Chamaeleon, Ursa Major Boötes, Corona Borealis, Libra Corvus, Crater, Hydra, Antlia Carina, Volans, Hydra, Lynx Vela, Puppis, Pyxis, Cancer Taurus, Eridanus, Caelum Columba, Pictor, Dorado Leo, Leo Minor, Sextans Orion, Lepus, Auriga Early February Early January Late February Late January Early March Late March Early June Early April Early May Late June Late April Late May









## Indigenous stars shown on the Southern Star Wheel

Scientific name	English name	Indigenous name
Achernar	The Little Horn	Senakane (Sotho, Tswana); Tshinanga (Venda)
Aldebaran	The Male Hartebeest	/Xam Bushmen
alpha & beta Crucis	The Male Giraffes	Thuda (Venda)
Altair	The Female Steenbok	/Gwi Bushmen
Antares	The Fire-Finishing Star	!Xu Bushmen
Arcturus	The Fire Finisher's Child	/Gwi Bushmen
Betelgeuse	Female Hartebeest	/Xam Bushmen
Canopus	The Horn Star	Naka (Sotho, Tswana, Venda, Lobedu, Ndebele, Pedi)
Canopus	The Ant Egg Star	/Xam Bushmen
Capella	The Cattle Thief	iNtshola (Zulu)
Castor	The Female Eland	/Xam Bushmen
Coal Sack	Old Bag of the Night	Nyae Nyae !Kung Bushmen
Fomalhaut	The Sweetheart Star	Ndemara (Shona)
Fomalhaut	The Kiss Me Star	Ntshuna (Tswana)
gamma & delta Crucis	The Little Giraffe	Thudana (Venda)
Large Magellanic Cloud	The Spoor of the Horn Star	Setlhako sa naka (Sotho)
mu-1 & mu-2 Sco	The Eyes of the Lion	xami di mura (Khoikhoi)
Orion's Belt	The Pigs	Makolobe (Sotho); Dikolobe (Tswana)
Orion's Belt	The Male Tortoises	/Xam Bushmen
Orion's Belt	The Three Travellers	Rozi
Orion's Belt	Three Stars in a Row	Amakroza (Xhosa)
Orion's Belt	Three old men pursued by lonesome widows	Masai
Orion's Sword	Three Dogs chasing the Pigs	Dintshwa (Sotho); dintsa le Dikolobe (Tswana)
Orion's Sword	The Female Tortoises	/Xam Bushmen
Orion's Sword	The Long-Stemmed Flower	oNdwenjana (Zulu)
Peacock	The Female Steenbok	/Gwi Bushmen
Pleiades	The Digging Stars	isiLimela (Zulu, Xhosa); Kilimia (Kiswahili); Selemela (Sotho, Tswana); Shirimela (Tsonga); Tshilimela (Venda)
Pleiades	The Stars of Spring	!Khunuseti (Khoikhoi)
Pointers	The Female Giraffes	Dithutlwa (Sotho, Tswana)
Pollux	The Female Eland	/Xam Bushmen
Procyon	The Male Eland	/Xam Bushmen
Regulus	The Fire Finisher	/Gwi Bushmen
Sirius	The Champion	iQhawe (Xhosa)
Sirius	Pulls the Night Across	Kgogamasigo (Tswana); Kgogamashego (Sotho)
Sirius	Pulling out the Dawn	Khohamutsho (Venda)
Sirius	Pulling	inDonsa (Zulu)
Small Magellanic Cloud	The Spoor of the Little Horn Star	Setlhako sa senakane (Sotho)
Spica	The Wildebeest Star	iNonqoyi (Zulu)
Vega	The Male steenbok	/Gwi Bushmen