APRIL ĀPERIRA SKY GUIDE

Virgo and Libra

Libra, the scales, is the only zodiac constellation represented by an object instead of a person or animal. This wasn't always the case: the ancient Greeks saw Libra as part of Scorpius, with the two brightest stars representing the scorpion's claws. The Romans, however, associated Virgo with balance as it was where the sun could be found during the autumnal equinox, when day and night were of equal lengths.

Once the association with Scorpius began to fade, an association with another adjacent zodiac, Virgo, started to grow. Virgo depicts a winged maiden holding an ear of grain (the star Spica). It is said to represent the goddess Dike who lived on Earth and ruled over human justice during a time of prosperity and peace. But when war erupted, Dike flew to the heavens, leaving Earth altogether.

Virgo is the second largest constellation in the sky, but is doesn't have a well-defined pattern, making it difficult to find. To locate it, face north and look high in the eastern sky for the bright star of Spica. The rest of Virgo extends north of Spica. To find Libra, look directly above the eastern horizon for Libra's two brightest stars, Zubenelgenubi and Zubeneschamali.



Sombrero Galaxy

Pictured on the front cover, the Sombrero galaxy is a spiral galaxy about 28 million light years away from Earth. We view this galaxy nearly edgeon, giving us a beautiful view of its bright core and surrounding dust tracks which make up the main structure and act as a site where new stars are made. The swirling dust holds nearly 2000 globular clusters (spherical groups of stars held together loosely by gravity), ten times more than we have in our Milky Way galaxy. Using X-ray emissions we can see a smaller dust disc that is slowly collapsing into the core – a black hole one billion times larger than our sun.

The Sombrero galaxy is located in Virgo and is part of the Virgo Supercluster, an area where many galaxies have begun to group together due to gravity. The way galaxies in superclusters interact with each other is one of the main arguments in favour of the existence of dark matter. Galaxies will seem to string between clusters, like beads on a necklace, suggesting these paths have a higher mass than surrounding areas, although it's a mass we're unable to see (called dark matter).

The Sombrero galaxy (highlighted in yellow on the star chart) is visible through binoculars or amateur telescopes. Look west from Virgo's brightest star, Spica, and stop just before the constellation of Corvus.

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