see the Sun pass through from our viewpoint here on Earth. Astrology tends to recognize only 12 zodiac constellations; these 12 were identified over 2000 years ago. Since then the wobble of the Earth on its axis has meant that the position of the stars, as we see them, has changed ever so slightly. Now, the Sun also appears to pass through Ophiuchus on its journey across the sky, making him the 13th zodiac constellation.

There are many myths around who Ophiuchus is said to represent. In ancient Greek, the constellation was said to portray the god Apollo wrangling a huge snake. In Roman mythology, it was said that Ophiuchus represented Asclepius, the god of medicine. In this story, Asclepius figured out how to prevent death for humans. As the other Gods didn’t want the human race to become immortal, Asclepius was struck down with a bolt of lightning, but placed in the stars to honour his work.

Satellites

The stars and planets are not the only things to spot in the night sky. While stars move across our sky very slowly, almost imperceptibly, another group of objects can be seen moving with much more speed – satellites. The first artificial satellite was launched into space in 1957 by the Soviet Union. Since then, about 8,900 satellites have been launched, though not all of these are currently operational.

Satellites are used for a range of different operations, many of which we rely on every day, from communications and GPS, to weather monitoring and researching outer space. While satellites do not produce light on their own, they can be most easily seen in the hours just after sunset and before sunrise, when they are able to reflect light from the Sun while it’s close to the horizon.

A satellite passing across the sky, as it orbits Earth, will appear as a bright spot, like a star moving steadily through the sky for a few minutes.

Ophiuchus

The constellation Ophiuchus can be seen in the northeast sky this month. Ophiuchus is sometimes referred to as the 13th zodiac, as it is one of the constellations that crosses the ecliptic, which is the apparent path of the Sun across the sky. The zodiac constellations are defined as the constellations that we
How to use this chart: Hold the chart up to the sky and rotate it, so the direction you are looking matches the direction printed on the bottom. For example, if you are looking south, place ‘S’ at the lower edge. Stars rise in the east and set in the west like the Sun. As the Earth turns, the sky appears to rotate clockwise around the south celestial pole. The sky makes a small shift to the west every night, as the Earth rotates around the Sun.

MOON MARAMA PHASES

<table>
<thead>
<tr>
<th>Phase</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Full Moon</td>
<td>Sunday, 5 July</td>
</tr>
<tr>
<td>Third Quarter</td>
<td>Monday, 13 July</td>
</tr>
<tr>
<td>New Moon</td>
<td>Tuesday, 21 July</td>
</tr>
<tr>
<td>First Quarter</td>
<td>Tuesday, 28 July</td>
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SUN RĀ RISE / SUNSET

<table>
<thead>
<tr>
<th>Date</th>
<th>Rise</th>
<th>Set</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday, 1 July</td>
<td>8.20am</td>
<td>5.03pm</td>
</tr>
<tr>
<td>Wednesday, 15 July</td>
<td>8.14am</td>
<td>5.13pm</td>
</tr>
<tr>
<td>Friday, 31 July</td>
<td>7.58am</td>
<td>5.30pm</td>
</tr>
</tbody>
</table>

PLANETS WHETU ĀO

Jupiter
Hine-i-tiweka
1 July after 5.57pm
15 July all night
31 July after 7.09am
In Sagittarius

Saturn
Pareārau
1 July after 6.30pm
15 July all night
31 July after 7.34am
In Sagittarius

Mars
Matawhero
1 July after 11.58pm
15 July after 11.45pm
31 July after 11.21pm
In Pisces

JULY HONGONGOI 2020

RHO OPHIUCHI CLOUD COMPLEX

Located within the constellation Ophiuchus is the Rho Ophiuchi cloud complex, pictured on the front cover.

These beautiful, colourful clouds of cosmic gas and dust make up one of the closest star forming regions to our solar system, located around 460 light years from Earth. Regions such as this one are often referred to as 'stellar nurseries', as they are areas where new stars can be formed.

The cloud complex is roughly 3000 times as massive as the Sun. These interstellar clouds encompass emission nebula that are rich with glowing red hydrogen gas and blue reflection nebulas that are reflecting starlight from their surroundings, giving the complex its magnificent colours.

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