## BBB HOW NEW TECH IS SOLVING THE OCEAN'S BIGGEST MYSTERIES Science Focus It's life. JM. BUT NOT AS WE KNOW IT

Meet the engineer BUILDING BIOLOGICAL ROBOTS Why are there so many COVID-19 SYMPTOMS?

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# IS THERE LIFE AROUND BLACK HOLES?

The theory that could redefine the hunt for alien worlds



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**Solar Orbiter** 

#### SOLAR SYSTEM

### Solar Orbiter captures closest-ever pictures of the Sun

#### ESA's Solar Orbiter probe photographs our star from a distance of just 77,000,000km

In February this year, the Solar Orbiter craft was launched aboard an Atlas V rocket from Cape Canaveral, Florida. With six remote-sensing telescopes and four in-situ instruments, the probe is on a mission to image and monitor the Sun and its surrounding environment. Led by the European Space Agency (ESA) and aided by NASA, the project soon encountered a number of challenges due to the coronavirus pandemic. However, in mid-June the team announced that the probe was ready to start performing science, and it's already delivering the goods. In mid-July, ESA released this set of images from a distance of 77 million kilometres from the Sun - the closestever photographs of our star. The probe is now in its cruise phase and will continue travelling towards the Sun. In late 2021, it will get as close as 42 million kilometres, when the main part of the mission will proceed.











**2.** The Sun,

at these

the Sun, taken

corona has a temperature of 1,000,000°C

with the EUI. The

4. The PHI took this visible light image of the Sun, representing as we would see it with the naked eye

photographed by the Extreme 5. The corona, Ultraviolet taken with the Metis Imager (EUI). Snapshots taken instrument. This blocks out the wavelengths Sun's light, to reveal the allow the corona Sun's upper to be imaged. atmosphere, Two bright the corona 'equatorial streamers' can 3. A full view of be seen on

either side

