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Save our planet earth song

Unlike most astronomers, Tennyson has spent his career looking at very small things. His experience in quantum mechanics can further illuminate the search for Earth 2.0 because he works with a technique called spectroscopy to assess the planet's atmosphere. The idea is that when a planet transits in front of a star, it blocks light. With a planet like Earth, light will be blocked by a rocky, solid little planet, but the atmosphere will block light to some extent too. And because the different wavelengths of light correspond to different molecules, you can analyze the light to find out what molecules are in the planet's atmosphere. For example, if you look at the starlight at wavelength, where water absorbs a lot of light, and there is a lot of water in the planet's atmosphere, the planet will seem very large, says Tennyson. A ten years ago, Tinetti and Tennyson, along with colleagues from France, Spain and the United States, used this technique to find water vapor in the atmosphere of an exoplanet. Their findings were published in the journal Nature - only the second time water has been found on a planet outside the solar system. The planet on which it was discovered is far from habitable. HD 189733b is 64 light-years away and orbits a star in the constellation Vulpecula. The gas giant is 30 times closer to its star than we are to the Sun, with an estimated temperature of more than 900°C on the side facing the Sun - in short, a hot Jupiter. If, for example, you look at the water in Jupiter's hot exoplanet, this water will be about a thousand degrees, says Tennyson. We know a lot about how water absorbs light in the Earth's atmosphere at room temperature, but it is very different by a thousand degrees. It is much easier to do spectroscopy using the transit method on hot Jupiters, because their atmosphere is much larger. Using the Earth-like method on a planet is more difficult. The Earth is 12,000 km long and has an atmosphere of only 480 km. Using the transit method, the variations you will see in the light to give you hints about the atmosphere will be very small. You need tools that can choose that from each other. You have to be very sensitive. At this point we can't do that - it's much easier to look at planets like Jupiter to start with, says Tennyson. Once you know that the molecular fingerprint of the planet's atmosphere and the temperature of the planet, you can start working on what its climate might be, and then you start to get a hint of whether it's really habitable or not. Tinetti explains: If you have a lot of greenhouse gases your planet will be much hotter. If you have a lot of clouds and they are very reflective it can be cooler. There are many factors that can change the climate on the planet, and to learn about it, you need to observe the atmosphere. The Twinkle team has a target list of molecules they want to look for, most of which have not been seen on exoplanets used to. Before. In terms of what they see, it's a really open book, Tennyson says. I can't tell you what we'll find because we fish in a pond that no one has fished in before. The subject is only 20 years old; it happens very quickly. So I think it's just a stepping stone - we're going to get to the next stage very quickly, Tennyson said. The science of taking action, not giant horse racing. These British projects could make significant strides towards discovering Earth 2.0 in the near future, along with others like NASA's James Webb Space Telescope, Hubble's successor, which launches next October. In the next decade, Pollacco hopes that Plato will find several Earth-sized planets around solar stars that we could directly look at with our powerful ground-based telescopes. By this point we should also be able to explore their atmosphere. It's about 10 years old, he says. In a new video, Greta Tunberg and George Monbiot explain that we must use nature to correct our disturbed climate. There is a new short film starring 16-year-old climate activist Greta Tunberg and Guardian journalist George Monbiot - and it should be a must-see for those living on planet Earth. While some people disagree over whether artificial climate change even exists, we are witnessing extremes that climatologists have predicted that we will see. Meanwhile, we go along plunging excessive amounts of money into fossil fuels, while we watch the planets burn. In just over three and a half minutes, the new video outlines the challenges and offers solutions. Tunberg says, To survive, we need to stop burning fossil fuels. But that alone won't be enough, she continues. A lot of decisions are being talked about, but what about the solution that's right in front of us? At this point, Monbiot takes over: There is a magic machine that sucks the carbon out of the air, costs very little, and builds itself. It's called a tree. Investing in nature can remove huge amounts of carbon dioxide from the atmosphere as plant systems grow, think: forests, mangroves, peatlands, jungles, swamps and seabed. But these methods receive only 2 percent of the funding spent on reducing emissions. Meanwhile, we go in the opposite direction and actively destroy these living systems that are critical to our survival. 1. PROTECTION. 2. RESTORE. 3. FUND We need to protect scaffolding (and other living systems) that are cut down at a rate of 30 football fields per minute; we must LOVE the natural world that we have destroyed; and we need to fund these natural solutions, not the fossil fuel industry. Nature is a tool we can use to repair our broken climate, says Monbiot. These decisions can make a huge difference, but only if we leave fossil fuels in the ground. Also, the film was produced by Tom Mustill of Gripping Films - and right on the brand, they walked. Mustill said: We tried to make the film have the tiniest of the tiniest influence is possible. We took trains to Sweden to interview Greta, charged our hybrid car at George's house, used green energy to power editing and recycled archival footage rather than shooting new ones. Look, absorb it, re-ing. From complex weather systems to outdoor recreation and how to save it, Planet Earth is the home we share with all living things. Andreas Schott (Bonnix)/Moment/Getty Images Earth is unique in that scientists have discovered that the planet is the only one, it has liquid water, intelligent life forms living on it, a moon that helps regulate surface temperature, atmosphere with 21 percent oxygen and plate tectonics, according to Space.com. Scientists believe that the Earth exists in the Goldilocks zone, where the conditions are just to support life. Liquefied water allowed life to develop on Earth billions of years ago. Plate tectonics help to maintain water in liquid form, while the carbon silicate cycle retains the right amount of carbon in the atmosphere. This atmospheric oxygen keeps the Earth warm enough to support copious amounts of liquid water on its surface. Until now, scientists have not been able to detect intelligent life on other planets and believe that humans are the only intelligent life in the universe. In the solar system, Earth is the only planet that feeds any type of life. Most living things on the planet require oxygen to survive. Earth is the only place where scientists know about enough oxygen in their atmosphere to support life. The planets closest to Earth are either too hot or too cold to support the oxygen-filled atmosphere. Using telescopes, scientists have discovered many exoplanets outside the solar system. The chances of finding Earth-like planets in the future may increase with the help of new technologies. Follow the latest daily buzz with buzzFeed Daily Newsletter! Weihnachten mit HGTV Dareber fraich sich jeder! Weihnachten mit HGTV Drey Idin! Weihnachten mit HGTV Nichts wegwerfen! Weihnachten mit HGTV Kinderleicht gemacht. Weihnachten mit HGTV Du musst keine neue kaufen! Weihnachten mit HGTV Super Upcycling! Weihnachten mit HGTV Schnell y unkompliziert Weihnachten mit HGTV Mt viel Glitzer - Fyur den Kleinen Geldbutel! Weihnachten mit HGTV Ideen - Inspiration Weihnachten mit HGTV Fuhr Sede Wohnung! 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