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Our solar system in the milky way galaxy

Earth was once the only world known to have volcanoes, but they were all over the place, spouting lava and ice plumes. Marina KorenMarch 12, 2020 Galileo spacecraft captured a volcano that erupted during the moon of Io Praise in 1997.NASARosalyn Lopes spent five years carefully checking the landscape unfolding where molten rock overflowed like a water fountain jet. Using data from an orbiting investigation, he chose to erupt across the volcanic surface, eventually detecting 71 active volcanoes that no one had ever detected before. People used to joke with me, "Oh, you find another active volcano!" Lopes told me. "You'll be in the Guinness Book of World Records—up to one day, one of those offhand comments makes its way to someone who actually works for Guinness World Records. Lopes ended in the 2006 edition, recognized for discovering the most active volcanoes anywhere. No volcanoes are on Earth, though. They were a few hundred million miles away, in Jovian moon called Io.Today, Io was known as the most volcanically active place in the solar system. Other volcanic spots are scattered across our neighboring planets and moons, too, and perhaps even more in other solar systems across the universe. Recently, NASA announced it would fund proposals for four new robotic missions, all heading to take a closer look at this type of world-Io, Venus, and Triton, the moon of Neptune.Not long ago, Earth held the title for the most volcanic spot in the solar system. As a rule, volcanic activity suggests that the world is cooling. After planets and moons form extreme and fiery processes they can spend billions of years pushing heat from their interior through cracks on the surface. Small bodies, like our moon, should go cold faster than others, and spurts on the surface can reveal the invisible contours of the deep world. The volcano is like a window into the planet's interior, said Sue Smrekar, an astronomer at NASA's Jet Citing Laboratory leading one of the proposed missions. In the 1970s, as Voyager's mission sailed toward an outdoor planet, scientists predicted that the spacecraft would find months like ourselves. The months around Jovian, for example, are about the size of our moon or smaller, so it stands for a reason that they, too, will be cold, still, and pose with craters. On the other hand, Voyager found the first evidence, surprising volcanic activity somewhere other than our planet. It's very difficult for people to accept that a small moon like Io can still have an active volcano, as Io should have cooled long ago, Lopes said. In the 40 years since, planetary scientists relocated from monitoring erupted on Earth to find them sprinkled across solar systems. Soon, perhaps, they'll take a closer look at what exactly makes this external explosion tick. The team that targeted Io knew about the phenomenon of Voyager scientists did not, called neat heating. Io orbits between and the other two moons on the planet, Europa and Ganymede, and this configuration means that Io is subject to gravity forces of all three. Tugging continues to warm the interior of Io, a melting stone to the lava. When the moon unfolds and shrinks throughout the fast 42-hour orbit, a crack appears on its surface, and the lava escapes through. It changes the shape of the whole planet, said Alfred McEwen, a planetary geologist at the University of Arizona who leads the concept of mission to Io. Lava, loose from the interior, flows like waters racing in flash floods and filling craters, regularly smoothing the moon's terrain. Many of the exoplanets discovered by astronomers so far orbit close enough to their stars to experience the same kind of warming, which makes to an analog ideal for understanding the world beyond our neighborhoods, McEwen said. Closer to home, there is Venus, where the surface is a characteristic mosaic of the volcano, from the top to the square, shaped from the eons of rolling activity. We saw a large field of small volcanoes in places in Venus that remind us of the little ones we've seen in Iceland, said James Garvin, chief scientist at NASA's Goddess Space Flight Center and lead on one of Venus' missions. The planet's volcano, numbered in hundreds, is thought to have gone out long ago, but scientists have found evidence that some activities may be under way now. A few years ago, infrared cameras on European spacecraft sucked through the planet's thick atmosphere and captured places on the surface suddenly heat up and cooling off again. Smrekar's mission to Venus will send the spacecraft to the planet's orbit, mapping its topography, and determining whether there is still a churning occurred. Another mission, led by Garvin, will drop the investigation through Venus' atmosphere into potentially volcanic areas, moving down as if we were down in a helicopter on our own, he said. The investigation will have the ability to analyze atmospheric gas and choose the recent explosive signature. Farth out, in Triton, lava plumes are made of ice. In 1989, Voyager's mission revealed a dispersed, cantaloupe-like world, with bruises and ridges, and so cool that nitrogen exists as a flirty frost on the surface. In enough of a fortune stroke, the spacecraft, as it flew past, caught particle geysers erupting from the surface and drifting down in a thin atmosphere of the moon. The spacecraft has not returned since, and scientists are eager to investigate Triton in greater depth—especially the apparel possibility that plumes can come from the hidden subsurface ocean. A fragile body of water, although this is far from the warmth of the sun, can wedge some basic components that can provoke life in the same way that the dark sea of the Earth has. (Triton) is five times more than Zuhai. Understanding that even the distant world in the solar system can still have some The world that can be celebrated will essentially revolutionise our understanding of what it means to be a peaceful world, said Louise Prockter, director of the Lunar and Planetary Institute in Houston and head of the proposed Triton mission. NASA has committed \$3 million to each team to develop their mission concept. Next year, the agency will choose one or two of them to move forward, towards the construction of space lights. Venus' mission will hit their targets in the 2020s, while the Io mission will not arrive until 2031 and the Trident mission until 2036, when the knowledge of this distant volcanic world scientist will be almost half a century old. At the time, it is possible that astronomers, using the most powerful telescopes, will discover volcanic plumes burst from a deep world in space, around other suns. The findings in our own solar system have shown that cosmos gamble with the rumbles of the church world. Someone has to find all that volcano—Lopes' record won't stand forever. Image: refer to hsw do you have more than interest passing in the night sky? Channel your aspiring inner astronomer and see if you can ace these quizzes on the Milky Way. WHAT PERSONALITY Does Galaxy Match Your Soul? 6 Minutes Quiz 6 Min TRIVIA Astronomical Basic Quiz 6 Minutes Quiz 6 Min TRIVIA You Can Identify Celestial Body Types From NASA Pictures? 6 Quiz Minutes 6 Min PERSONALITY What Kind of Galaxy Is You? 5 Minutes Quiz 5 Min TRIVIA You Can Answer This Simple Science-Peasay Question? 6 Minutes Quiz 6 Min TRIVIA If We Give You Regular Schedule Symbols, Can You Tell Us What Elements It Is? 6 Minutes Quiz 6 Min TRIVIA You Can Identify This Edible Flower From Just One Image? 6 Minutes Quiz 6 Min Constellation Personality Is You, Based on Your Food Preference? 5 Quiz Minutes 5 Min PERSONALITY What Flowers Bloom Night Corresponds to Your Personality? 6 Minutes Quiz 6 Min TRIVIA MEDIUM Can You Identify More than 11 Miles of This Gem? 6 6 Min Minutes Quiz How much do you know about dinosaurs? What is the octane rating? And how do you use the right noun? Lucky for you, HowStuffWorks Play is here to help. 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