

Is Any Possibility of Quakes on Mars?

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In the scenario, the mars is a topic of research for our scientific community. NASA is the main agency who is actively working to explore mars features but yet now not found the main and correct information about that planet. Recently, Indian Space and Research Organization (ISRO) have established own space craft “Mars Orbiter Mission also called Mangalyaan” in mars orbit which was launched on 5 November, 2013 and orbiting since 24 September 2014 [1]. It will be highly useful for the exploration of mars planet. Indian scientists have achieved a great success in the mission of exploration of another planet. They have collected very important and useful information about the mars. The scientific community believes that the life exists on mars and it may be true after a long observations and information about it. The land structure of mars is highly variable huge mountains, dangerous ditches are existing there randomly according to the information provided by the previous missions of NASA [2]. Now, the question is arising that what is the formation of mars crust but we do not have the reliable information about that. Another question, is any possibility of quakes on mars? The answer is yes, they exist there and known as mars quakes. A recent study of NASA suggested that mars quakes occur every million years, none have been measured yet, but Mars could be active in terms of producing these quakes. The

quakes have been also occurred on different planets. The moon has moonquakes, seismometers that were planted on the moon during the Apollo 12, 14, 15, and 16 (Figure 1) which measured Moon quakes that reached 5.5 on the Richter scale [3]. The observations show that Venus quakes also happen, even though the standard plate tectonics as we know don't appear to be in process. A most recent study of NASA's Mars Reconnaissance Orbiter, researchers have estimated a quake on mars at magnitude 7 using a picture snapped by their research group. They suggested that if active volcanoes still exist on Mars, their heat could melt pockets of the planet's subterranean ice, perhaps forming reservoirs of liquid water which are hospitable to life [4]. This short opinion will help to motivate the scientific communities around the globe to explore the other planets for the search of quakes.

References

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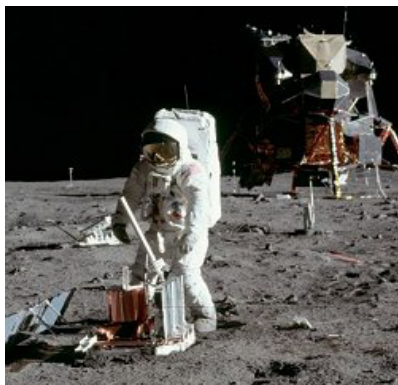


Figure 1: Apollo astronauts placed seismometers at their landing sites around the moon.

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