

The potential for colonization of Mars

For many years, scientists have been studying Mars because it has similar atmosphere to earth. The red planet has been considered the major target of colonization and studying is still continuing. However, in our opinion, due to the affection on human body, the radiation of environment and the difficulties of transportation, the colonization of Mars is impossible for humans.

To begin with, it is hard to move from earth to Mars with current technology. The main reason for this is that the environment in the Mars is not as same as Earth and we do not have any specific methods to solve this problem in nowadays. For example, Mars is far away from the sun so the temperature may be lower than Antarctic. It is hard for us to stay in a cold weather all the time. The second example is that Mars has less atmosphere that only 1% of the earth and 96% of which is carbon dioxide. Moreover, radiation intensity is stronger on Mars because there is no magnetic field which can protect our body. The last example is that there is no place on Mars covered with water and it's almost frozen. At present, we don't have any technology that can change the environment of other planets.

If humans succeed in flying to Mars, our human bodies will not be able to adapt the load. One of the main reasons is Low gravity. It has an effect on body height, muscle and bone calcium. The gravity on Mars is 0.375 that of Earth. Which means a 80 kilograms person will be less than 30 kilograms on Mars. It may sound like a small problem. However, this kind of environment would create chaos to human body after a long time. It would effect on human fertility. Secondly, food source is an important issue. The atmosphere on Mars has a very large amount of carbon dioxide. There is a lack of oxygen as well. The respiration of trees and other plants will not work on Mars. Therefore, the air conditions of Mars cannot satisfy the survival of trees and other plants.

Even if human conquer the problems that our body needs, we also have to deal with the money supply. We need a lot of amount of spaceships, fuels and so on. It is not affordable by every human being on earth. In order to send people to the Mars we need to build many huge spaceships and this may cost a lot of money. Furthermore, the distance between earth and Mars is far that the exciting space technology can't let the spaceships fly to Mars through the shortest path. Consequently, human will not able to colonize Mars in the near future.

In 2007, the Russian space agency announced a plan to send a man to Mars by 2035, but as time gets closer, more and more researchers have said that they need more time to complete the plan. Although many people are still working on how to

immigrate to Mars, for the reasons that we mentioned above, we think the potential for colonization of Mars is very low.

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