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Country	BRAZIL
Symposium	2 SYMPOSIUM ON SPACE DEVELOPMENT
Session	2.7 Mars, the Asteroid Belt and beyond
Abstract Title	Space analog virtual missions: the new frontier of space education
Abstract Code	SRIC3-SDE-2.7-04.079
Co-Authors	--

Abstract

This study explores the achievement of space analog virtual missions organized under the umbrella of Habitat Marte research station. Initially were developed in situ missions in the Northeast outback region of Brazil. These initiatives can be considered very creative, also inspiring other individuals to have explore their emotions and thoughts imagining concepts of art and science applied to an operation of a future space habitat on Mars and Moon. The methodology developed by Habitat Marte guides the participants be creative about future space habitats. This was a creation developed since COVID pandemics (March 2020). During 2020 happened 36 missions with more than 200 participants from 29 countries, participating in the virtual missions organised by Habitat Marte. As part of our creative process, was developed the channel www.youtube.com/HabitatMarte, now with more than 400 videos. Also it is very inspiring see content in the social media @HabitatMarte. Habitat Marte developed guidelines, protocols and routines applied to in situ and virtual missions that would be useful to future space missions and settlements. Since the beginning of Habitat Marte missions happened more than 10 thousand hours of simulations. The skills developed from this experience can be very useful to future space mission

A short bio

I have worked and researched on sustainability / circularity applied to cities and arid & semi-arid regions, also linking with space habitats. My topics of interests are related to management, psychology, engineering, food production and smart sanitation (water collection and management, sewage treatment and waste recycling) and food closed loop systems that support human coexistence in these self-sustaining habitats. I coordinate the analog space station Habitat Marte (@HabitatMarte) / Semi-aridLAB. I try to see in a practical way about how sustainability can be applied in our daily lives. I am interested to collaborate with projects in urban, rural and wild areas and also applied to space. The entrepreneurial discoveries of Habitat Marte had inspiring for lectures, lives, courses and consultancies to individuals, companies, public organizations and municipalities. I am a manager, psychologist, writer, director of FAPERN, professor at UFRN; doctor of administration (UFRN) and CFA councillor with post-doctorate at the University of Central Florida (UCF). Contact: juliofdrezende@hotmail.com / 55 84 99981-8160. Follow me in Twitter: @JulioFDRezende.