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HUMAN PERFORMANCE TRAINING FOR SPACE ANALOG MISSIONS

Abstract

This paper presents a training methodology to meet the needs of future analog missions and astronauts by providing human performance training to mitigate risks and grow participants' skill sets. Unfortunately, there is no statistical data on mission failures or discrepancies of a crew. This is largely due to protecting the privacy of individuals involved. However, there is anecdotal evidence within the space analog community pointing to the need for human performance training prior to a mission. To address these needs, our patent-pending training includes individual development, team dynamics, and human factors. This training was implemented with a crew preparing for a 7-day mission inside a lava tube to enable them to better prepare for the mission, feel confident in their abilities, and optimize mission success. From a safety perspective, this study emphasizes the necessary training elements to consider when preparing a crew for analog missions in hostile and extreme environments.