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CONFINEMENT STUDY REVIEW FOR FUTURE SPACE INFRASTRUCTURE

Abstract

The prospect of long-term habitation in space has now become a reality with the possibility of not only human space explorations, but also more frequent space flight opportunities open to many people in a variety of roles. However, greater numbers of space travelers will result in less dedicated training and the less strict selection criteria, unlike current astronaut selection and training processes. Previous confinement studies with the aim of long-term habitation in space and Antarctic wintering have provided helpful references for considering potential issues that may arise, including health control of travelers who will take part in future space flights. Here, we discuss possible obstacles to overcome with these previous experiments as examples.