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Author: Dr. Irene Lia Schlacht
Freelance, Italy, irene.schlacht@mail.polimi.it

Mr. Daniel Schubert
Institute of Aerospace Systems, Germany, Daniel.Schubert@dlr.de
Prof. Bernard Foing
ESA/ESTEC, ILEWG & VU Amsterdam, The Netherlands, Bernard.Foing@esa.int

HUMAN FACTORS AND HABITABILITY IMPACT OF PLANTS ON ISOLATION

Abstract

The EDEN ISS project is the first European bio-regenerative system tested in Antarctica. The habitability impact on the crew emerged in term of both psychological and nutritional benefit, making an important contribution to the advancement of international research on bio-regenerative systems both for the exploration of the Universe and for Earth applications. Particularly, during the Crew 2018 and 2019 mission, the psychological and physiological impact of the plants on their well-being was assessed as positive by all crew members as also foreseen by the biophilia concept and presented in this paper. The investigation will be also be proposed at stations like Concordia in order to have a comparison crew without a greenhouse.