

Abstract

The thesis focuses on psychosocial dynamics of teams in isolation and its development over time. Literature review summarises various psychosocial and psychological aspects of human coexistence in extreme environments. It includes the risks and psychological countermeasures, description of stressors and other challenges, the intragroup issues and their development over time. It puts emphasis on defining the most challenging parts of missions and tries to identify patterns. Additionally, the relationship between the crew and MCC is addressed. The literature review is followed by a study focused on the development of intragroup relations and the crew-MCC relations in two analogue missions, Lunar Expedition-0 and Lunar Expedition-1. The research design consisted of a questionnaire, an interview with the whole crew, and the individual interviews with all respective astronauts. Additionally, a new visualization method, *Dotty Overview of Team Interactions* (DOTI), has been created as a part of this research. DOTI was described and used to visualize the data relating mutual interactions among the crewmembers. All of the results are presented, described and discussed.

Keywords: team dynamics, crew, analogue space missions, interactions, relationship between crew and mission control