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#### KEY WORDS

Privacy  
Personal Space  
Territoriality  
Defence  
Isolation  
Confinement  
Mars Habitation

\*Analog

NASA (2011): A situation on Earth that recreates extreme environments to trial interventions and prepare crew physically and psychologically for life within hostile and extreme conditions.

## SPATIAL STRATEGIES TO ALLEVIATE THE DEFENSIVE BEHAVIOURS ASSOCIATED WITH ISOLATED AND CONFINED SPACES; AN ANALOG FOR MARS HABITATION AT RED SANDS SEA FORT.

### ABSTRACT

As observed within high-rises and extreme working habitats, privacy, personal space and territoriality are central to understanding defensive behaviour within confined and isolated interior environments. I have focused my proposal on the current one-way mission to colonise Mars where psychological stability is detrimental to survival. The UK currently has a physical but lacks a psychological training facility and as seen in Antarctica research stations have had to be evacuated due to interpersonal conflict. One mistake could result in death and therefore interior strategies which allow for privacy, personal space and territoriality on Mars are crucial to the success of the mission and would be a significant contribution to the recent psychological research by NASA, showing their recognition of the importance of interior design in relation to alleviating the psychological stress of living within confined units isolated in Outer Space.

The appropriate strategies will be trailed within an \*analog which tests and prepares the crew before embarking on the mission. I compared the defensive qualities of the site (Red Sands Sea Fort) and defensive behaviours (Halls' personal space boundaries) to develop an interior strategy which can communicate public, semi-public and private vicinities. This is informed through contrasting materiality, appropriately chosen from the site analysis, which provides stimulation and orientation throughout a monotonous daily routine. Manipulating the routine, I determined the circulation and utilised the views which are crucial in replicating the overlook effect of Earth and Mars, critical in establishing a relationship with the hostilities of the site. Once tested, these strategies could also be applied to an everyday context, for example dense city living, as this research originally stemmed from reading the catastrophes of the 'High-Rise'.

