

Haughton-Mars Project
Project Summary
Report for 2006 and Plans for 2007

The Haughton-Mars Project (HMP) is an international field research project centered on the scientific study of the Haughton meteorite impact crater and surrounding terrain on Devon Island, Nunavut, viewed as a site similar in many ways to the Moon and Mars. The HMP is managed and operated by the Mars Institute and is currently supported by the Canadian Space Agency and NASA. (Reminder: The HMP is separate from the more recent activity at the same site involving the Mars Society).

The HMP Science Program in 2006 included:

- Investigations of the geology and microbiology of Haughton Crater and Devon I.
- Preparation of the Mars Greenhouse for 1 year of autonomous operation.
- Field tests of spacesuit systems and procedures for future human Moon and Mars exploration.
- Field tests of long-range communication technologies for remote groups.
- Field studies of Moon and Mars exploration logistics.

The HMP Exploration Program in 2007 includes:

- Further investigations of the geology and microbiology of Haughton Crater and Devon I.
- Further work on the Mars Greenhouse to prepare it for one full year of autonomous (robotic) operation.
- Field tests of future Moon and Mars rovers designed to search for ground ice in permafrost using a ground penetrating radar and a Canadian-built lidar.
- Field studies of human biology for future long-distance spacesuit walks on the Moon and Mars.
- Field tests on long-range communications technologies for remote groups.
- Field studies of Moon and Mars exploration logistics.

These research activities will take place with continued adult and student employment and educational opportunities for the Communities of Grise Fiord and Resolute Bay. Employment opportunities include positions as camp manager, camp cook, field guides, field assistants, and direct participation in environmental monitoring and research. The HMP Research Station will also continue to undergo a modest level of maintenance and upgrading at its present site.