

International Cooperation for Space Exploration (1)
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EVOLVING CHALLENGES AND PROPOSALS FOR SUSTAINABLE INTERNATIONAL
COORDINATION OF DEEP SPACE EXPLORATIONS WITH GLOBAL PARTICIPATION

Abstract

The exploration and utilization of deep space resources is essential to the sustenance of human life in the universe in the near future. The potential global economic, social value of planetary and deep space exploration has been very well studied while actual missions are gradually pushing the envelope but majority of space activities are still within near-Earth regions. Far distance missions at best are mainly scientific investigations and technology demonstrations. The Global Exploration Roadmap by the International Space Exploration Coordination Group, ISECG proposes interesting strategies of human presence on Mars in few decades. However, the global space arena is dynamic, constantly evolving with new actors (governments and privates), technologies, independent programs, policies and practices with significant effects on the coordinated exploration paradigm. This presentation analyzes these evolving challenges and mitigation approaches. A model of global deep space resource exploration and utilization beyond Mars that fits within the United Nations framework is also presented. Mechanisms of participation and benefits sharing with underdeveloped and developing regions like Africa is discussed.