

Interactive Presentations (IP)  
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PROSPECTS FOR WATER PRODUCTION IN NEAR-EARTH SPACE

**Abstract**

Water is a vital expendable resource for manned space exploration and a very popular raw material for the production of oxygen and hydrogen as a rocket fuel components for jet engines. The search for water sources in space to ensure the development of astronautics is a task for lunar exploration and for Martian missions, but so far no methods have been proposed for producing water on an industrial scale directly in space. We propose the concept of intercepting minicomets in near-Earth space and processing their substances into pure components (water, carbon dioxide, methane) during the delivery of intercepted bodies to space consumers. About 30 thousand ice blocks fly annually through near-Earth space, at least 60