

# CANADA-U.S. SPACE COOPERATION

In 1962, the U.S. launched Canada's first satellite, Alouette-1, making Canada the third country in space. It marked the beginning of a **strong and lasting partnership**.

## UNLOCKING THE MYSTERIES OF THE UNIVERSE

Canada is one of five partners at the International Space Station (ISS) and played an instrumental role in its construction. We provided the Mobile Servicing System, a sophisticated robotics suite that included the Canadarm, critical to the ISS' assembly and ongoing operations. Canada and the U.S. are also working together to explore space with missions like the Mars Curiosity rover and we are contributing critical systems to the James Webb Space Telescope, the successor to the Hubble Telescope.



## INTEGRATING COMMERCIAL INDUSTRIES

U.S. companies entering the commercial space market rely on Canadian suppliers and expertise. Canadian space firm MDA is developing and manufacturing communications antenna subsystems for U.S.-based OneWeb. In the Fall of 2018, SpaceX's Falcon 9 rocket will launch Canada's Radarsat Constellation Mission, a series of satellites that will improve data collection of the Earth's surface — particularly of the Arctic.

## SECURING NORTH AMERICA

Canada's space infrastructure and assets contribute to North American and global security. For example:

- Canada launched Radarsat-1 in 1995 and Radarsat-2 in 2007 to capture images of the Earth's surface that show potential threats and contribute to maritime surveillance, disaster management, and ecosystem monitoring.
- In 2013, the Canadian Sapphire satellite was launched to help improve the U.S. Space Surveillance Network's tracking of space traffic and debris.
- Since 1979, Canada has contributed to the Search and Rescue Satellite Aided Tracking system by providing near-real-time signal detection of emergency distress beacons to search and rescue personnel, improving their ability to locate people and save lives.

