2011

Last mission of the Space Shuttle Program: Atlantis carries equipment for a new joint NASA-Canadian Space Agency robotic refueling test.

AuroraMAX, an initiative to monitor the intensity and frequency of the Aurora Borealis, is officially launched. The project features an online observatory that provides live access to images of the northern lights.

Canadarm2 successfully captured an unpiloted, free-flying Japanese vehicle - the first Canadian cosmic catch.

For the first time, two Canadian astronauts. Julie Pavette and Robert Thirsk, are aboard the International Space Station at the same time.

Expedition 20/21: Robert Thirsk becomes the first Canadian to live and work on the International Space Station for a period of six months.

ESA's Herschel Space Observatory and Planck Space Telescope are launched. Four Canadian science teams make important contributions to these projects.

Jeremy Hansen and David Saint-Jacques join Canada's Astronaut Corps.

and green lidar instrument

to accurately model Mars'

Launch of Dextre. This two-

rmed Special Purpose Dextrous

Manipulator completes Canada's

robots on the International Space

RADARSAT-2 is launched, offering

owerful technical advancements

that enhance marine surveillance,

ice monitoring, disaster manage-

nent, environmental monitoring,

resource management and mapping

Dave Williams performs three

pacewalks and spends over

for Canadian astronauts.

The Canadian Space Agency

19 hours outside the International

Space Station, setting a record

supports THEMIS (NASA) ground

mission investigates what causes

auroras in the Earth's atmosphere

operation sites in Canada. This

to dramatically change.

ontribution of a suite of advanced

climate and weather.

2007

around the world.

detect snow crystals and help

Phoenix Mars Lander (NASA) touches down on the Red Planet. Canada's meteorological station

Launch of a Canadian micro-satellite SCISAT, which improves our understanding of ozone layer depletion, with a special emphasis on the changes occurring over Canada, especially in the Arctic.

Launch of the world's smallest astronomical space telescope. MOST. This Canadian telescope is capable of measuring the age of stars in our galaxy. It opens its eye to the cosmos on August 4, 2003.

The Mobile Base System, designed and built in Canada, is launched to the International Space Station. It is fully operational on June 10, 2002 and provides a moveable robotics work platform and storage facility.

ENVISAT (ESA) is launched. Canadian partners play a key role by contributing significant scientific and technical components.

2001

Canadarm2 is delivered to the International Space Station. Chris Hadfield becomes the first Canadian astronaut to perform a space walk and plays a major role in installing Canadarm2. During this mission, Canadarm2 and robotic "handshake" in space.

2006

Astronaut Steve MacLean becomes the first Canadian to operate Canadarm2 in space.

2003

The Canadian Space Agency joins the European Space Agency and the French Space Agency (CNES) in founding the International Charter "Space and Major Disasters." From here on, satellite data supports rescue and humanitarian operations during major disasters.

Launch of Canada's first space

science experiment on the

International Space Station,

H-Reflex. This experiment studies

how the human body adapts to

Launch of the Canadian instru-

ment OSIRIS aboard Sweden's

scientific satellite, Odin. OSIRIS

observes ozone layer depletion.

weightlessness.

Marc Garneau, aboard the Space Shuttle *Endeavour*, sets a record among Canadian astronauts by carrying out a third space mission.

Canada's MOPITT sensor is launched aboard NASA's Terra satellite. MOPITT scans the Earth's atmosphere to track the origin and movement of carbon monoxide around the world.

Julie Pavette becomes the first Canadian astronaut to visit the International Space Station.

1998

At 77 years-old, U.S. astronaut John H. Glenn returns to space. Aboard the Space Shuttle Discovery, he carries out two Canadian experiments, among them the OSTEO experiment designed to grow bone cells in microgravity.

Dave Williams becomes the first Canadian astronaut assigned as official crew physician.

8,000 images.

First space mission for Canadian astronaut Bjarni Tryggvason, aboard the Space Shuttle Discovery. He tests the Microgravity Isolation Mount. This Canadian technology will later

Aboard the Space Shuttle Columbia.

1997

RADARSAT-1 captures the first high-resolution radar images of Antarctica in support of the Antarctic Mapping Mission. A mosaic of the entire continent, the first of its kind, is created in 1999, after two years of compiling

become essential for research conducted in microgravity.

1996

astronaut Robert Thirsk, aboard the Space Shuttle Columbia.

1995

Russian space station Mir.

1992

Second space mission for Canadian

Second space flight for Canadian astronaut Marc Garneau, aboard the Space Shuttle *Endeavour*.

Chris Hadfield becomes the fourth Canadian in space and the only Canadian to ever board the

Canada's first Earth Observation satellite RADARSAT-1 is launched to monitor environmental changes and the planet's natural resources.

in space, aboard the Space

First space mission for Canadian astronaut Steve MacLean, aboard Space Shuttle Columbia. Roberta Bondar becomes the first Canadian woman astronaut

Shuttle *Discovery*. 1991

Canada's Wind Imaging nterferometer (WINDII) is among

the instruments aboard the UARS satellite (NASA). WINDII is developed to improve our knowledge of wind circulation

1990

Canadarm deploys the Hubble Space Telescope (NASA), removing from the cargo bay of the Space Shuttle *Discovery*. Five Canadian universities gain access to the space telescope for their research

in the upper atmosphere.

1989

Creation of the Canadian Space Agency.

1988

Canada becomes a full partner of the International Space Station program.

Marc Garneau becomes the first Canadian astronaut in space, aboard Space Shuttle Challenger.

1981

Launched aboard Space Shuttle Columbia, the Canadarm makes ts space debut. NASA awarded Canada the responsibility of designing, developing, and building the Shuttle Remote Manipulator System in 1974.

1979

Canada becomes the only non-European cooperating member state of the European Space Agency (ESA). This provides a unique opportunity for Canadian scientists and industries to participate in ESA-led space

1976

Launch of the Satellite Hermes, the first satellite to be integrated and tested in Canada at the David-Florida Laboratory. Over four years of joint operations with the United States, Hermes explores new ways of using satellite technologies, notably for direct broadcasts.

1972

Anik A1 is launched. Canada becomes the first nation with a domestic communications satellite. This launch marks the beginning of an important series of communication satellites that connect communities.

American astronaut Neil Armstrong becomes the first man to set foot on the Moon. The lunar module's landing gear had been built by a Canadian company.

1962

Alouette-1 is launched. Canada becomes the third country to design and build its own satellite. Alouette-1 studies the ionosphere and inaugurates the partnership between Canada and NASA.

