



(continued from the previous page)

The ISS Program brings together international flight crews; multiple launch vehicles; globally distributed launch, operations, training, engineering, and development facilities; communications networks; and the international scientific research community. Elements launched from different countries and continents are not mated together until they reach orbit, and some elements that have been launched later in the assembly sequence were not yet built when the first elements were placed in orbit.

Operating the ISS is even more complicated than other space flight endeavors because it is an international program. Each ISS partner has the primary responsibility to manage and run the hardware it provides. But the various elements provided by the ISS partners are not independent, and over time they must be operated as an integrated system.



National Aeronautics and Space Administration **United States**



Canadian Space Agency



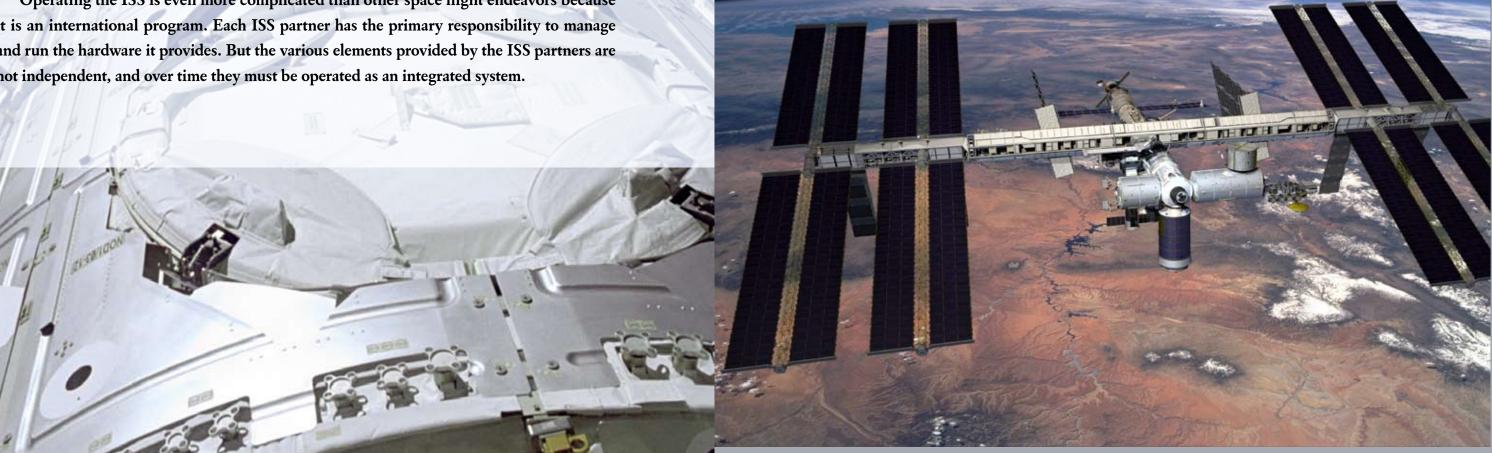
European Space Agency



Japan Aerospace Exploration Agency



Russian Federal Space Agency



ISS Operations and Management

Glenn Telescience Support Center Cleveland, Ohio, U.S.

Ames Telescience Support Center Moffett Field, California, U.S.

> ISS Training
> ISS Program Management
> ISS Mission Control Houston, Texas, U.S.

CSA Headquarters, Mobile Servicing System (MSS) Control and Training Saint-Hubert, Quebec, Canada

NASA Headquarters Washington, DC, U.S.

Payload Operations Center (POC) Huntsville, Alabama, U.S.

Shuttle Launch Control Kennedy Space Center, Florida, U.S.

Ariane Launch Control Kourou, French Guiana



ESA European Space Research and Technology Centre (ESTEC)
Noordwijk, Netherlands

ESA Headquarters
Paris, France

ISS Mission Control Korolev, Russia

> Gagarin Cosmonaut Training Center (GCTC)
> Star City, Russia

Roscosmos Headquarters Moscow, Russia

> JEM/HTV Control Center and Crew Training Tsukuba, Japan

Tokyo, Japan

JAXA Headquarters

Russian Launch Control

Baikonur Cosmodrome, Baikonur, Kazakhstan

H-II Launch Control Tanegashima, Japan

ATV Control Center

Toulouse, France

European

Cologne, Germany

Astronaut Centre

Columbus Control Center Oberpfaffenhofen, Germany

Module Development
Torino, Italy



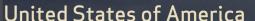












National Aeronautics and Space Administration (NASA)

NASA

DESCRIPTION OF THE PARTY OF THE

NASA HEADQUARTERS (HQ)

NASA Headquarters, in Washington, DC, exercises management over the NASA field Centers, establishes management policies, and analyzes all phases of the ISS Program.

JOHNSON SPACE CENTER (JSC)

Johnson Space Center, in Texas, directs the ISS Program. Mission Control manages activities aboard the U.S. segment of the ISS. JSC is the primary Center for spacecraft design, development, and mission integration. JSC is also the primary location for crew training.

KENNEDY SPACE CENTER (KSC)

Kennedy Space Center, in Florida, prepares the ISS modules and Space Shuttle orbiters for each mission, coordinates each countdown, and manages Space Shuttle launch and post-landing operations.

MARSHALL SPACE FLIGHT CENTER (MSFC)

Marshall Space Flight Center's Payload Operation Center (POC) is the ground control center for experiments and payloads being operated on the ISS. MSFC has also overseen development of most U.S. modules and the ISS ECLSS system.

TELESCIENCE SUPPORT CENTERS (TSCs)

Telescience Support Centers around the country are equipped to conduct science operations on board the ISS. These TSCs are located at Marshall Space Flight Center in Huntsville, Alabama; Ames Research Center (ARC) in Moffett Field, California; Glenn Research Center (GRC) in Cleveland, Ohio; and Johnson Space Center in Houston, Texas.

DESIGN, DEVELOPMENT, TESTING, EVALUATION, AND INTEGRATION (DDTE&I)

Boeing is NASA's prime ISS contractor. It oversees the development, testing, and preparation for launch of the ISS elements.

http://www.nasa.gov





MOBILE SERVICING SYSTEM (MSS) OPERATIONS COMPLEX (MOC)

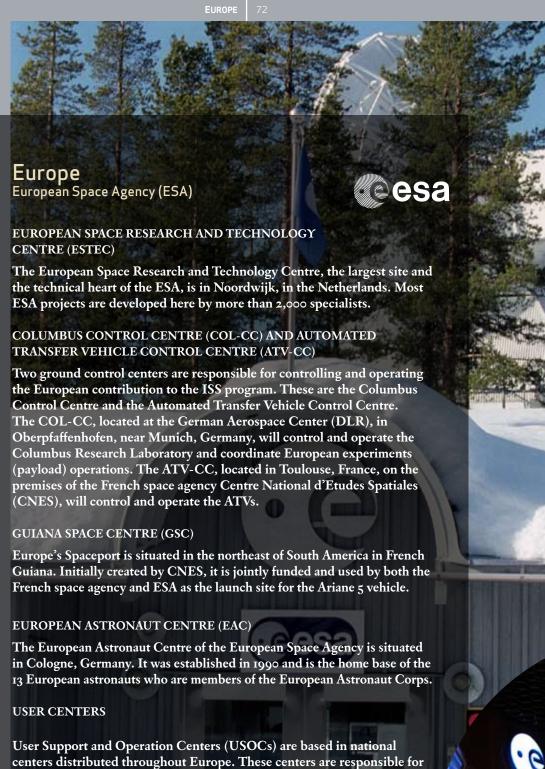
The MSS Operations Complex in Longueuil, Quebec, provides the resources, equipment, and expertise needed for the engineering and monitoring of the Mobile Servicing System as well as for crew training.

SPACE STATION REMOTE MANIPULATOR SYSTEM (SSRMS) DESIGN AND DEVELOPMENT

The SSRMS was designed and developed by MacDonald, Dettwiler and Associates, Ltd., in Brampton, Ontario.

http://www.space.gc.ca





the use and implementation of European payloads aboard the ISS.

http://www.esa.int

Japan Japan Aerospace Exploration Agency (JAXA) In addition to the JAXA headquarters in Tokyo and other field centers throughout the country, Tsukuba Space Center and Tanegashima Launch Facility are JAXA's primary ISS facilities. TSUKUBA SPACE CENTER (TKSC) JAXA's Tsukuba Space Center is located in Tsukuba Science City. As part of the International Space Station project, the Japanese Experiment Module (JEM) "Kibo" is developed and tested at TKSC. JAXA is preparing the Kibo Control Centre for support of the JEM once it is launched. Astronaut training for JEM will be conducted at JAXA. TANEGASHIMA SPACE CENTER (TNSC) The Tanegashima Space Center is the largest space-development facility in Japan and is located in the south of Kagoshima Prefecture, along the southeast coast of Tanegashima. The Osaki Range is onsite for J-I and H-IIA launch vehicles. There are also related developmental facilities for test firings of liquidand solid-fuel rocket engines. http://www.jaxa.jp/index_e.html

