

esa HUMAN SPACEFLIGHT TODAY: THE ISS

Current ISS Crew



Expedition 42

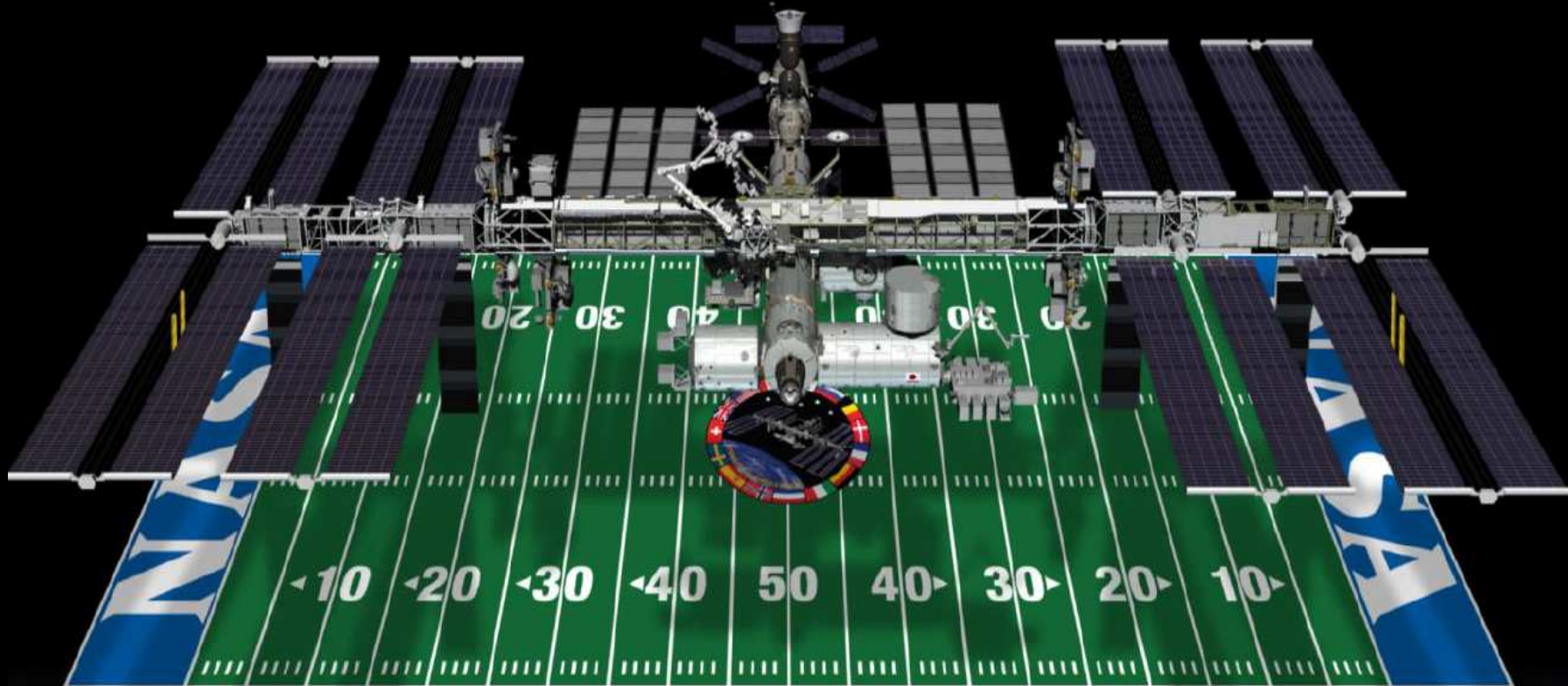
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ISS Crew Vehicle: *Союз TMA-M*



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ISS Features



Size: 51x109x20 m

Volume Pressurized/Habitable: 901 m³ /387 m³

Mass: 419 400 Kg

Power: 84 kW

Altitude: 410 km +

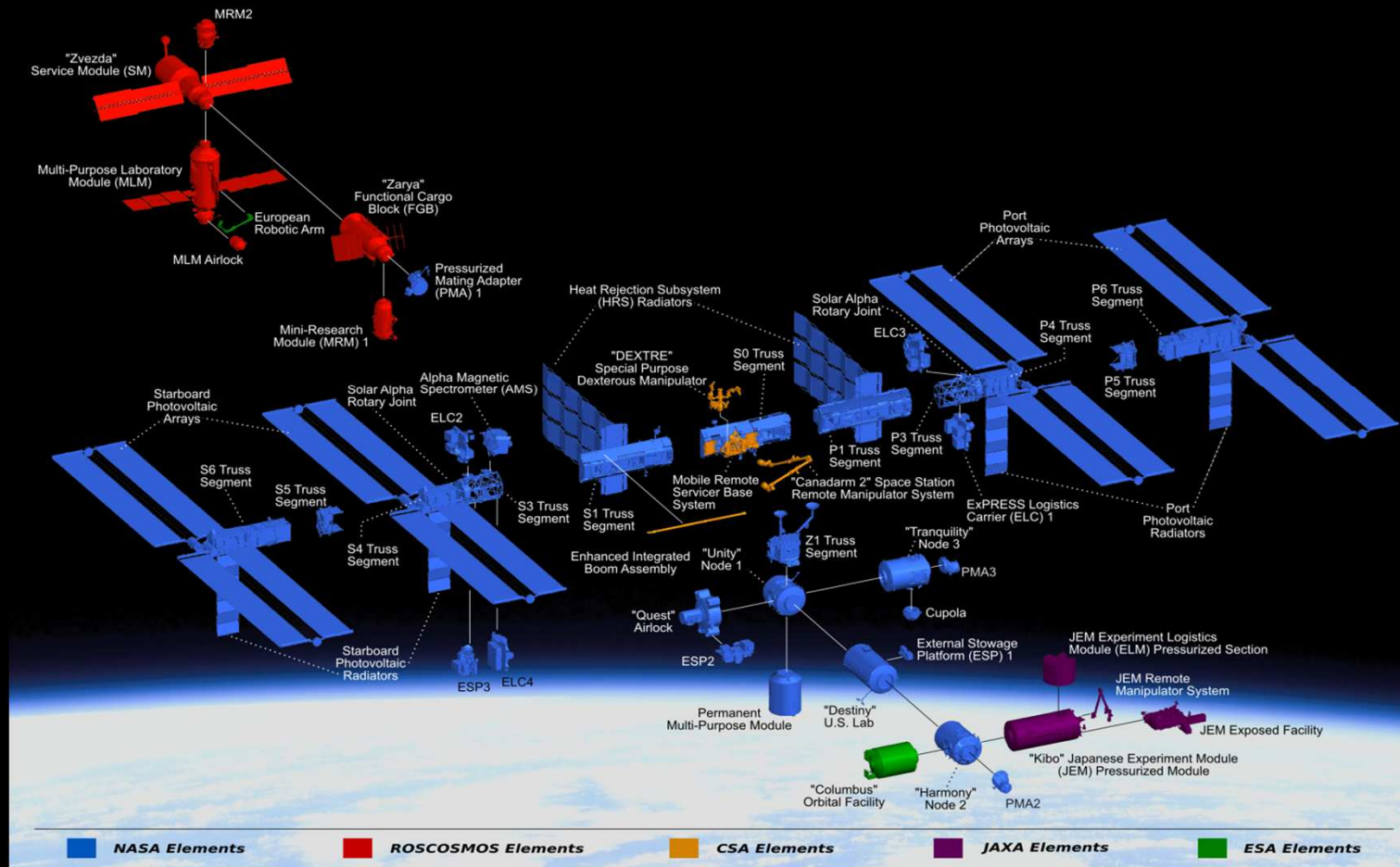
Velocity: 27 600 km/h or 7.66 km/s

Orbit Inclination: 51.65 deg

Orbital Period: 91 mn

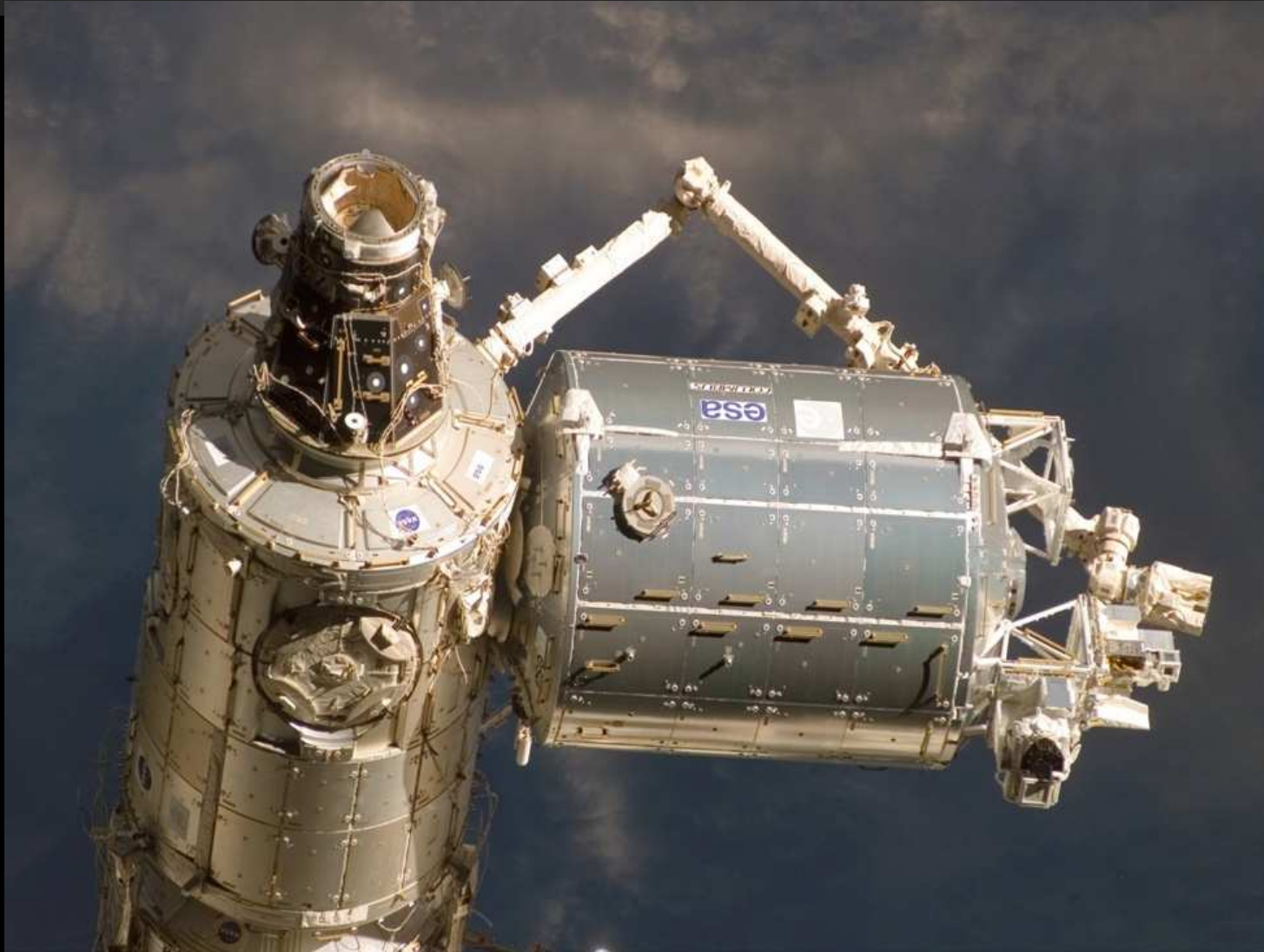
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ISS Elements



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Columbus Module Installation (Feb 2008)



04-Feb-2015

UN COPUOS - STSC

6

ESA Columbus Module



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Inside the Columbus Module



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ISS Control Centers



MCC-H (Houston)



ЦУП (Moscow)



POIC (Huntsville)



COL-CC (Munich)



ATV-CC (Toulouse)



SSIPC (Tsukuba)



ESA Astronaut Class 2009



2015

2014

2014-2015

2013

2015-2016

2016-2017

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L. PARMITANO (Expedition 36-37)



- **Launch:**
28-May-2013
- **Return:**
11-Nov-2013
- **Duration:**
167 Days



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A. GERST (Exp 40-41)



- **Launch:**
28-May-2014
- **Return:**
10-Nov-2014
- **Duration:**
166 Days



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S. Cristoforetti (Expedition 42-43)



- **Launch:**
23-Nov-2014
- **Return:**
11-May-2015
- **Duration:**
168 Days





Andreas Mogensen

- ISS short-duration mission
- Launch/Landing: 9/2015



Timothy Peake

- ISS long-duration mission **Expedition 46/47**
- Launch: 11/2015
- Eighth ESA astronaut long-duration mission to ISS



Thomas Pesquet

- ISS long-duration mission **Expedition 50/51**
- Launch: 11/2016
- Ninth ESA astronaut long-duration mission to ISS

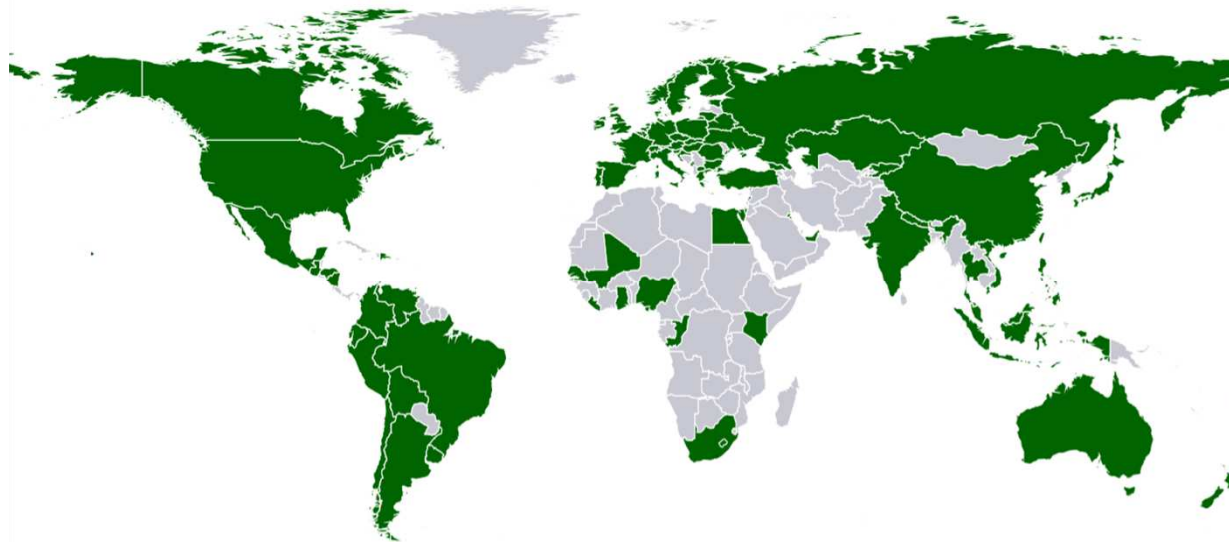


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Countries / Areas with ISS Investigations



Argentina
Australia
Austria
Belarus
Bermuda
Bolivia
Bosnia
Brazil
Bulgaria
Chile
China
Columbia
Croatia
Czech Republic
Democratic
Republic
of the Congo
Dominican
Republic
Ecuador
Egypt
Estonia
Fiji
Finland
Georgia
Ghana
Greece
Guatemala
Honduras
Hungary
India
Indonesia
Ireland
Israel
Kazakhstan
Kenya



83 countries and areas

Belgium
Canada
Denmark
France
Germany

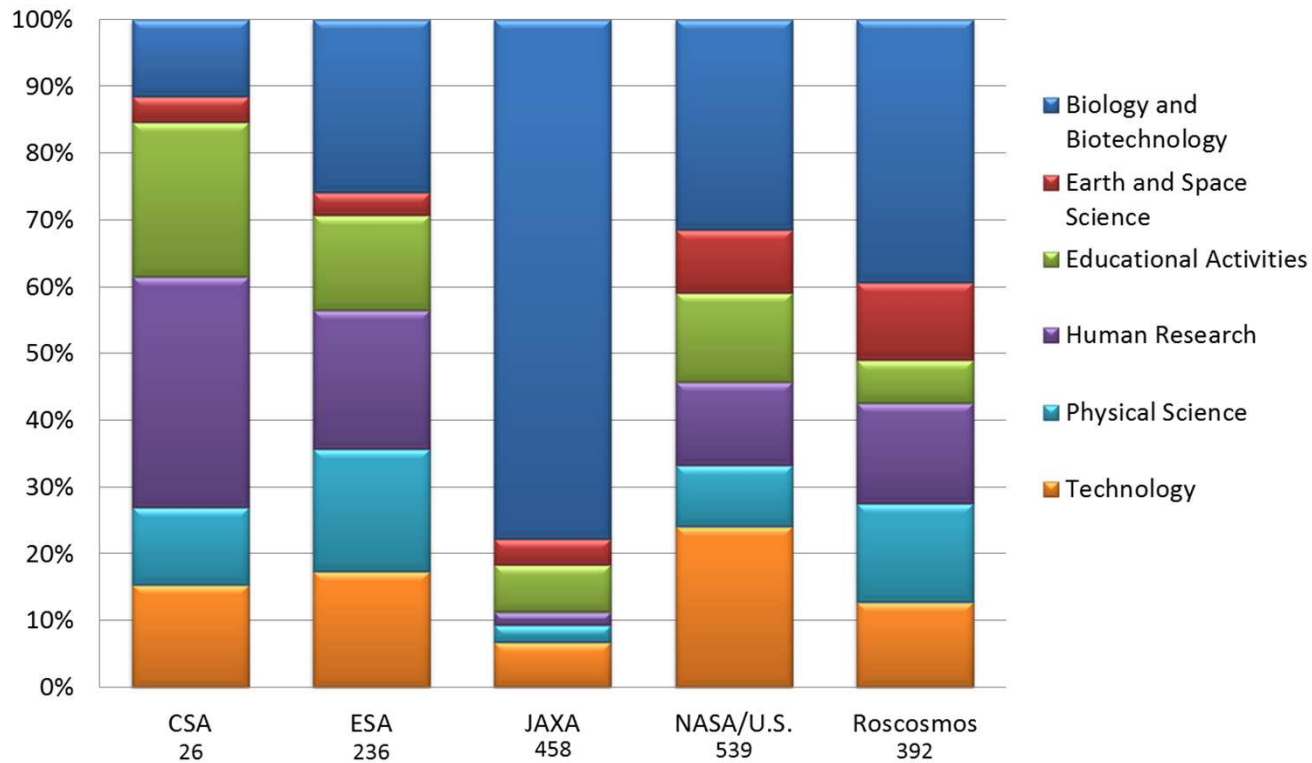
Italy
Japan
Netherlands
Norway
Russia

Spain
Sweden
Switzerland
United Kingdom
United States

Kuwait
Kyrgyzstan
Lebanon
Liberia
Lithuania
Luxembourg
Macedonia
Malaysia
Mali
Mexico
Montenegro
Nepal
New Zealand
Nicaragua
Nigeria
Peru
Philippines
Poland
Portugal
Republic of Korea
Republic of South
Africa
Romania
Senegal
Slovakia
Slovenia
Taiwan
Thailand
Trinidad and Tobago
Turkey
Ukraine
United Arab Emirates
Uruguay
Vatican City
Venezuela
Vietnam



**Research Discipline of ISS Investigations By Partner Agency:
Expeditions 0-38
December 1998 - March 2014**





Questions...

