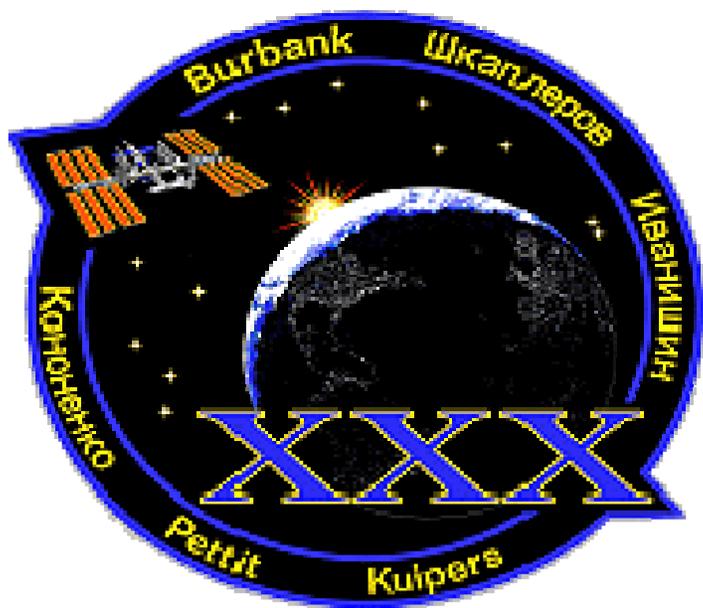


# EXPEDITION

29 & 30



**GC Notes Of Interest**

**Increment Lead GC: Ubaldo Garcia**

**Increment Backup GC: Dot Wert**

## Mission Overview

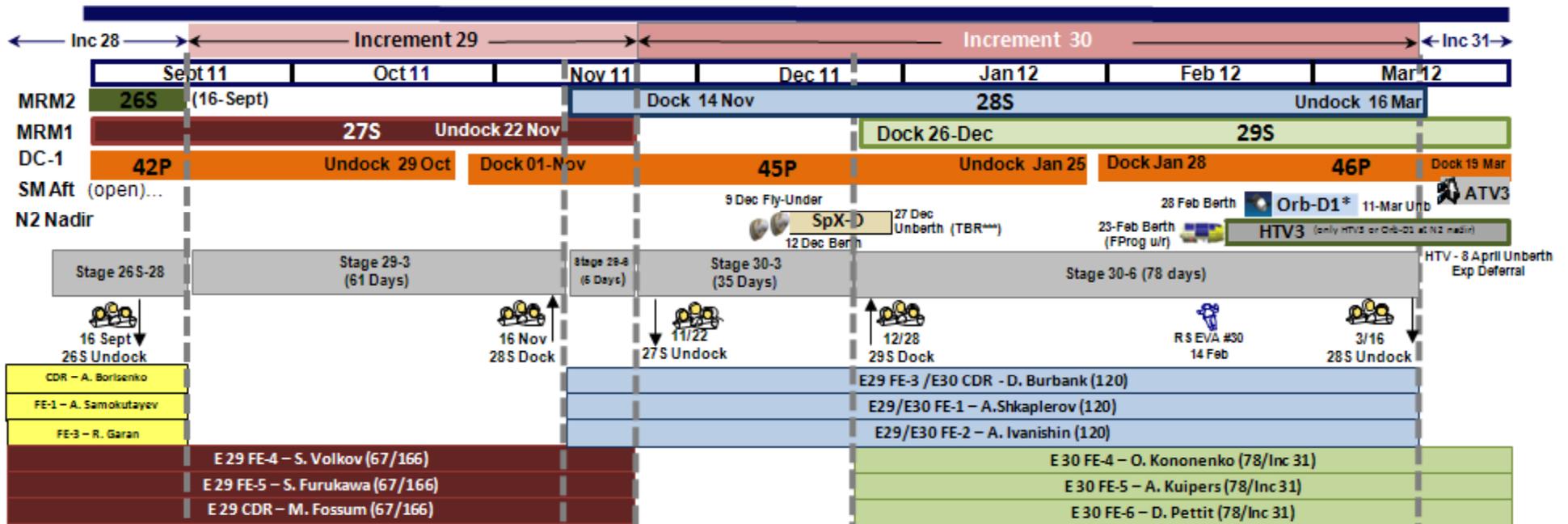
**Expedition 29 and 30 time frame began with the 26S Soyuz departure on September 16, 2011 and is scheduled to end in March 2012.**

**Characterized by visiting vehicles, logistics, transfer of supplies to and from various vehicles, and Avionics and Software updates.**

**Visiting vehicles consist of two Soyuz, 28S which arrives with the remainder of the Expedition 29 crew in November 16, and 29S which will bring the rest of the Expedition 30 crew in December 12.**

**Other vehicles are two Progress resupply vehicles, the SPACE-X Dragon, ORBITAL D1 and the 28S Undock**





	Stage 29-3	Stage 29-6	Stage 30-3	Stage 30-6
<b>Vehicle Traffic</b>	<ul style="list-style-type: none"> <li>42P Undock</li> <li>45P Dock</li> </ul>	<ul style="list-style-type: none"> <li>28S Dock</li> <li>27S Undock</li> </ul>	<ul style="list-style-type: none"> <li>Prep and checkout for Space X-D</li> </ul>	<ul style="list-style-type: none"> <li>29S Dock</li> <li>SpX-D Fly-Under</li> <li>SpX-D Berth nadir</li> <li>45P Undock, 46P Dock</li> <li>SpX-D Unberth</li> <li>HTV3 Berth (expect move to May/June)</li> </ul>
<b>Other Activities</b>	<ul style="list-style-type: none"> <li>Payloads</li> <li>JAXA NHK SSHD TV Event</li> <li>ARFTA Mod Kit install</li> <li>Prep for 28S Arrival</li> <li>WOOV 3,4,5</li> </ul>	<ul style="list-style-type: none"> <li>Payloads</li> <li>Russian Resupply</li> </ul>	<ul style="list-style-type: none"> <li>Payloads</li> <li>Space X-D prepack, OBT</li> <li>Prep for 29S Arrival</li> </ul>	<ul style="list-style-type: none"> <li>Payloads</li> <li>RS EVA #30: SM Debris panels, Vynoslivost experiment, Test experiment, Strela relo?</li> <li>HTV3 EP Robo Ops: MCE to ELC3, SCAN Testbed to JEM EF</li> <li>ATV3 OBT and PCE checkout</li> <li>JEMRMS Ground Control Demos</li> <li>ARFTA &gt; RFTA transition</li> <li>WOOV Encapsulation</li> </ul>
<b>Software/ Avionics Updates</b>	<ul style="list-style-type: none"> <li>SM 8.05 (TBD**)</li> <li>CUCU software R3.1 upgrade</li> <li>HRCS Upgrades cable routing</li> </ul>		<ul style="list-style-type: none"> <li>PEP R10 (EPICs)</li> <li>PMM 1.3, UPA 6.1, IAPS 6.2</li> </ul>	<ul style="list-style-type: none"> <li>HCP/PROX c/o on R11</li> <li>PEHGs in LAB, COL (TBD****)</li> <li>COL Cycle 13 (possible slip to Inc 31)</li> <li>X2R10 (EPICs)</li> <li>X2R11: CCS R11, PCS R14, MSS R7.1, PMCA R4, NZSYS1 R3, NZSYS2 R3, INTSYS R7, EXT R7, S3P3 R</li> </ul>

**27 Soyuz Crew**



**Volkov**



**Furuikawa**



**Fossum**

**28 Soyuz Crew**



**Shkaplerov**



**Ivanishin**



**Burbank**

**29 Soyuz Crew**



**Kononenko**



**Kuipers**



**Pettit**

\* FP TBR 3-63: Fwd work to coordinate Or-D1- HTV3 Spacing  
 \*\* TBD - SM 8.05 schedule vs X2\_R11 and PEP R10  
 \*\*\* FP TBR-6-67: SpX-D unberth date - cargo & utilization crew time  
 \*\*\*\* PEHGs currently no longer manifested for launch

# ISS Crew Expedition 29 & 30 Soyuz 28/29 Crew Exchange



**As commander of Increment 29, NASA astronaut Mike Fossum traveled to the International Space Station aboard the Soyuz TMA-02M spacecraft to serve as an Expedition 28 flight engineer and Expedition 29 commander.**



**JAXA Astronaut Satoshi Furukawa flew aboard the Soyuz TMA-02M spacecraft to serve as a flight engineer for Expeditions 28 and 29.**



**Russian Space Agency Cosmonaut Sergei Volkov traveled to the International Space Station aboard the Soyuz TMA-02M spacecraft to serve as a flight engineer for Expeditions 28 and 29.**



**NASA astronaut Dan Burbank will fly to the International Space Station aboard the Soyuz TMA-22 to serve as an Expedition 29 flight engineer and as the Expedition 30 Commander.**



**Cosmonaut Anatoly Ivanishin will fly to the International Space Station aboard the Soyuz TMA-22 to serve as an Expedition 29 flight engineer and as the Expedition 30 flight Engineer.**



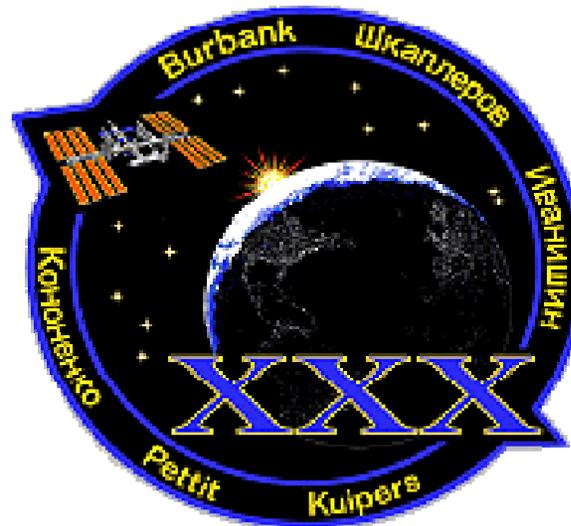
**Cosmonaut Anton Shkaplerov will fly to the International Space Station aboard the Soyuz TMA-22 to serve as an Expedition 29 flight engineer and as the Expedition 30 flight Engineer.**

## Increment 27 Patch



▪ On the ISS Expedition 29 patch, the ISS is pictured following the path of James Cook, an 18-Centurey Explorer, and his Ship Endeavour. Cook explored and mapped large portions of the oceans and coastlines that are now under the flight path of the International Space Station. As the Station sails a stardust trail toward the dark unknown and new dimensions enlightening Earth that passes below, just like Endeavour did under James Cook. ISS Expedition 29 and its crew – their names pictured in the patch – will proudly continue the journey of exploration.

## Increment 30 Patch



**The International Space Station program is completing the transition from assembly to full utilization as humankind celebrates the golden anniversary of human space exploration.**

**In recognition of these milestones and especially of the contributions of those whose dedication and ingenuity make spaceflight possible, a fully assembled ISS is depicted rising above a sunlit earth limb. Eastward of the sunlit limb, the distinctive portrayal of the earth's surface illuminated by nighttime city lights is a reminder of mankind's presence on the planet, most readily apparent from space only by night, and commemorates how humans have transcended their earthly bonds throughout the preceding 50 years of space exploration.**

**The ISS, a unique space-based outpost for research in biological, physical, space and earth sciences, is an impressive testament to the tremendous teamwork of the engineers, scientists and technicians from 14 countries and five national space agencies.**

**The six crewmembers of Expedition 30, like those who have gone before them, are honored to represent their countries and the international ISS team in conducting research aboard the ISS and adding to the body of knowledge that will enable the world's space faring countries to more safely and more productively live, work and explore outer space, paving the way for future missions beyond low earth orbit, and inspiring young people to join in this great adventure**

# Increment 29/30

## 2011/2012 Significant Events

