

EXPEDITION

25_26



GC Notes Of Interest

Leads: Dot Wert/Karen Rogers

09/15/10

Mission Overview

Expedition 25 and 26 time frame starts from when the crew arrives in October and ends in March. Characterized by a lot of visiting vehicles, a lot of logistics, transfer of supplies to and from various vehicles. Visiting vehicles consist of one Soyuz that arrives with the remainder of the Expedition 26 crew in December, two Progress resupply vehicles, an ATV [Automated Transfer Vehicle], which is a European resupply vehicle, that docks to the Russian segment of the space station, and the Japanese HTV [H-II Transfer Vehicle], as well as two of the last space shuttle missions, unless a third is added.



ISS Crew Expedition 25_26 Soyuz 24/25 Crew Exchange



U.S. Army Colonel Doug Wheelock will fly aboard the Soyuz TMA-19 spacecraft to serve as an Expedition 24 flight engineer and commander of Expedition 25 on the International Space Station



Air Force Colonel Catherine Coleman will fly aboard the Soyuz TMA-21 spacecraft to serve as a flight engineer for Expeditions 26 and 27.



Flight Engineer Fyodor Yurchikhin
Commander of the Soyuz TMA-19 spacecraft, cosmonaut Fyodor Yurchikhin will serve as a flight engineer for Expeditions 24 and 25 aboard the International Space Station.



As commander of Soyuz TMA-21, cosmonaut Dmitri Kondratyev will travel to the International Space Station to serve as an Expedition 26 flight engineer and Expedition 27 commander.



NASA astronaut Shannon Walker will fly to the International Space Station aboard the Soyuz TMA-19 spacecraft to serve as a flight engineer for Expeditions 24 and 25.



Cosmonaut Alexander Kaleri will serve as the Soyuz TMA-01M commander and flight engineer for Expeditions 25 and 26.



European Space Agency astronaut Paolo Nespoli will travel to the International Space Station aboard the Soyuz TMA-21 spacecraft and serve as a flight engineer for Expeditions 26 and 27.



U.S. Navy Captain Scott Kelly will fly to the International Space Station aboard the Soyuz TMA-01M spacecraft to serve as an Expedition 25 flight engineer and commander of Expedition 26.



Cosmonaut Oleg Skripochka will fly aboard the Soyuz TMA-01M spacecraft to the International Space Station to serve as a flight engineer for Expeditions 25 and 26.



ISS025-S-001 (June 2010) --- The mission patch design for the 25th Expedition to the International Space Station (ISS) pays tribute to the rich history of innovation and bold engineering in the quest for knowledge, exploration and discovery in space. The patch highlights the symbolic passing of the torch to the ISS, as the vehicle that will carry us into the future of space exploration. The Space Shuttle Program emblem is the foundation of the patch and forms the Greek letter 'Alpha' with a new dawn breaking at the center, symbolizing a new vision for space exploration. The Alpha symbol is overlaid by the Greek letter 'Omega', paying tribute to the culmination of the Space Shuttle Program. The mission designation '25' is shown centered at the bottom of the patch, symbolizing the point in time when the Space Shuttle, the workhorse of the ISS assembly process, will make its final visit to the ISS. Between the '25' and the Earth crescent, the orbiter is shown returning to Earth on its final journey, during the Expedition 25 mission. Above Earth and the breaking dawn, the ISS takes center-stage, completed and fully equipped to carry us beyond this new dawn to new voyages and discoveries. The orbit connecting the ISS and the Earth is drawn in the colors of the United States and Russian flags; paying tribute to the blended heritage of the crew. The two largest stars in the field represent the arrival and departure of the crews in separate Russian Soyuz vehicles. The six stars in the field represent the six crew members. The International Space Station abbreviation 'ISS' and 'MKC' – in English and Russian, respectively- flank the mission number designation, and the names of the crew members in their native languages border the ISS symbol.



ISS026-S-001 (June 2010) --- In the foreground of the patch, the International Space Station is prominently displayed to acknowledge the efforts of the entire International Space Station (ISS) team - both the crews who have built and operated it, and the team of scientists, engineers, and support personnel on Earth who have provided a foundation for each successful mission. Their efforts and accomplishments have demonstrated the space station's capabilities as a technology test bed and a science laboratory, as well as a path to the human exploration of our solar system and beyond. The ISS is shown with the European Space Agency's (ESA) Automated Transfer Vehicle (ATV-2), the Johannes Kepler, docked to resupply it with experiments, food, water, and fuel for Expedition 26 and beyond. This Expedition 26 patch represents the teamwork among the international partners – USA, Russia, Japan, Canada, and the ESA - and the ongoing commitment from each partner to build, improve, and utilize the ISS. Prominently displayed in the background is our home planet, Earth - the focus of much of our exploration and research on our outpost in space. The two stars symbolize two Soyuz spacecraft, each one carrying a three -member crew, who for four months will work and live together aboard the ISS as Expedition 26. The patch shows the crewmembers' names, and it's framed with the flags of their countries of origin - United States, Russia, and Italy.

Visiting Vehicles

- 2 Soyuz dock 2 undock
- 2 Progress dock 3 undock
- 2 Shuttle dock/undock
- ATV
- HTV

Increment 25

- 24 Soyuz Docking 10/10
- RS EVA 26 11/12
- 37 Progress Undock 10/26
- 40 Progress Docking 10/29
- RS EVA 27 11/17
- ULF5 Dock 11/3
- ULF5 Undock 11/10
- 23 Soyuz Undocking 11/30

Increment 26

- 25 Soyuz Docking 12/16
- 39 Progress Undocking 12/20
- ATV2 Dock 12/24
- 40 Progress Undock 01/24
- 41 Progress Dock 01/31
- HTV Capture 1/27
- ULF 6 Dock 12/26
- HTV Release 2/24
- ULF 6 Undock TBD
- 24 Soyuz Undocking 3/16

*** All dates subject to change