

The next generation

In May 2009 six new astronauts were selected as ESA astronauts and they began their basic training in September 2009.

They are:

- Samantha Cristoforetti of Italy
- Alexander Gerst of Germany
- Andréas Mogensen of Denmark
- Luca Parmitano of Italy
- Timothy Peake of United Kingdom
- Thomas Pesquet of France.

Since André Kuipers returned from the ISS in July 2012, all ESA missions have been flown by the new class of astronauts, starting with Luca Parmitano spending 165 days on board as a flight engineer for Expeditions 36 and 37 during his *Volare* mission in 2013.

That was followed by Alexander Gerst's *Blue Dot* mission as a member of Expeditions 40 and 41 in 2014, and Samantha Cristoforetti's *Futura* mission on Expeditions 42 and 43 in 2014–2015 during which she broke the record for the longest single spaceflight by a woman of any nation or agency. In the wake of Andréas Mogensen's 10 day *Iriss* mission in September 2015, Tim Peake, Britain's first ESA astronaut, launched on 15 December of that year to start his 6 month *Principia* mission.

With newcomer Thomas Pesquet and the veteran Paolo Nespoli scheduled to visit the ISS in 2016 and 2017 respectively, the future is bright for European spacefarers.



The ESA Astronauts Class of 2009. (ESA)

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Appendix 1

Charta of the European Astronaut Corps

Charta of the European Astronaut Corps

Our Vision

*Shaping and Sharing Human Space Exploration
Through
Unity in Diversity*

Our Mission

We Shape Space by bringing our European values to the preparation, support, and operation of space flights that advance peaceful human exploration.

We Share Space with the people of Europe by communicating our vision, goals, experiences, and the results of our missions.

Our Values

Sapientia: *We believe that Human Space Exploration is a wise choice by and for humankind. Sapientia reflects our commitment to pursue our goals for the advancement of humanity.*

Populus: *We put people first, in two ways: First, the purpose of our missions is to contribute to a better future for people on Earth. Second Populus serves as a reflection of our respect for the people with whom we work: that we value their opinions, praise their work and compliment them for their support.*

Audacia: *We acknowledge that Spaceflight is a dangerous endeavour. While accepting the risks inherently involved in space travel we work to minimize these risks whenever we can. Audacia reminds us that the rewards will be unparalleled if we succeed.*

Cultura: *We continue the exploration started by our ancestors. Conscious of our history and traditions, we expand exploration into space, passing on our cultural heritage to future generations.*

Exploratio: *We value exploration as an opportunity to discover, to learn and, ultimately, to grow. We are convinced that humankind must embrace the challenge of peaceful human space exploration. We, the European Astronauts, are willing to take the next step.*

Cologne, this fifteenth day of August twothousandone anno domini

Widati
[Signature]

Philippe
L. Gylharr

Uwe Huber
Amherst Ewald

Jean-François Chou
[Signature]

[Signature]
[Signature]

Chick Feyling
[Signature]

Pablo Lopez
[Signature]

[Signature]
Maurizio Quadri

Appendix 2

European missions to the ISS

| Mission | Astronaut | Launch Date | Launch Vehicle | Landing Date | Landing Vehicle |
|----------------|--------------------|--------------------|-------------------------------------|---------------------|-------------------------------------|
| STS-100 | Umberto Guidoni | 19 April 2001 | Space Shuttle Endeavour, STS-100 | 1 May 2001 | Space Shuttle Endeavour, STS-100 |
| Andromède | Claudie Haigneré | 21 October 2001 | Soyuz TM-33 | 31 October 2001 | Soyuz TM-32 |
| Marco Polo | Roberto Vittori | 25 April 2002 | Soyuz TM-34 | 5 May 2002 | Soyuz TM-33 |
| STS-111 | Philippe Perrin | 5 June 2002 | Space Shuttle Endeavour, STS-111 | 19 June 2002 | Space Shuttle Endeavour, STS-111 |
| Odyssea | Frank de Winne | 30 October 2002 | Soyuz TMA-1 | 10 November 2002 | Soyuz TM-34 |
| Cervantes | Pedro Duque | 18 October 2003 | Soyuz TMA-3 | 28 October 2003 | Soyuz TMA-2 |
| DELTA | André Kuipers | 19 April 2004 | Soyuz TMA-4 | 30 April 2004 | Soyuz TMA-3 |
| Eneide | Roberto Vittori | 15 April 2005 | Soyuz TMA-6 | 24 April 2005 | Soyuz TMA-5 |
| Astrolab | Thomas Reiter | 4 July 2006 | Space Shuttle Discovery, STS-121 | 22 December 2006 | Space Shuttle Discovery, STS-116 |
| Celsius | Christer Fuglesang | 10 December 2006 | Space Shuttle Discovery, STS-116 | 22 December 2006 | Space Shuttle Discovery, STS-116 |
| Esperia | Paolo Nespoli | 23 October 2007 | Space Shuttle Discovery, STS-120 | 7 November 2007 | Space Shuttle Discovery, STS-120 |
| Columbus I | Hans Schlegel | 7 February 2008 | Space Shuttle Atlantis, STS-122 | 20 February 2008 | Space Shuttle Atlantis, STS-122 |
| Columbus II | Léopold Eyharts | 7 February 2008 | Space Shuttle Atlantis, STS-122 | 27 March 2008 | Space Shuttle Endeavour, STS-123 |
| Oasiss | Frank de Winne | 27 May 2009 | Soyuz TMA-15 | 1 December 2009 | Soyuz TMA-15 |
| Alissé | Christer Fuglesang | 29 August 2009 | Space Shuttle Discovery, STS-128 | 12 September 2009 | Space Shuttle Discovery, STS-128 |
| Magistra | Paolo Nespoli | 15 December 2010 | Soyuz TMA-20 | 24 May 2011 | Soyuz TMA-20 |
| DAMA | Roberto Vittori | 16 May 2011 | Space Shuttle Endeavour, STS-134 | 1 June 2011 | Space Shuttle Endeavour, STS-134 |
| Promise | André Kuipers | 21 December 2011 | Soyuz TMA-3M | 1 July 2012 | Soyuz TMA-3M |

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