**Highlights 2018**

**As 2018 comes to a close the European Space Agency can look back at another exciting year for Europe in space. With launches of new Earth observation satellites, planetary explorer missions, fruitful collaborations and groundbreaking results in science. And in the perspective of 2019 Ministerial Conference ESA proposes a vision for European in Space for 2019 and beyond.**

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| 10:00:00 | ESA leader |
| 10:00:10 | Title: **Highlights 2018** |
| * EXT. ISS Timelapse of progress launch by A. Gerst – ESA -2018 (1shot) * EXT. Sentinel-3B Rokotlaunch – Plesetsk, Kazachtstan – ESA - April 2018 (1 shot) * ANIMATION. Sentinel-3B in orbit – ESA- 2018 (2shots) | 2018 has been another fulfilling year for the European Space Agency marked by many achievements. In Earth observation the first wave of Sentinel satellites in orbit was completed with the April launch of Sentinel-3B. As part of the EU’s Copernicus programme these Sentinels are an operational tool to better understand our planet and monitor climate change. |
| 10:00:34:01   * EXT. Aeolus Vega launch – Arianespace Kourou, French Guiana – ESA - August 2018 (1shot) * INT. Aeolus in Cleanroom – Airbus Defense and Space Toulouse, France – ESA – June 2018 (2shots) * ANIMATION. Aeolus Pan around – Airbus Defense and Space – 2017 (1shot) * INT. Aladin instrument in Lab – Airbus Defense and Space – unknown date (1shot) | In August another new Earth Explorer satellite was launched: the long awaited Aeolus Satellite. Launched from Kourou this polar orbiting satellite will provide wind data for the meteorological community. Aeolus is the first satellite ever to gather winds profiles from space using a lidar instrument. |
| 10:00:55:22   * INT. Metop-C in cleanroom – Arianespace Kourou, French Guiana – ESA - July 2018 (2shots) * ANIMATION. Metop-C in orbit – ESA – 2018 (2shots) * INT. Weather forecast – videoblocks – unknown date (1shot) | Also for meteorology METOP C was launched from Kourou in November. This Eumetsat satellite represents the end of a cycle as it is the last of three Metop first generation satellites.. The contribution of Metop satellites is so great that they account for thirty percent of the numerical weather prediction. |
| 10:01:16:15   * INT. Galileo sat in cleanroom for fitcheck – Arianespace, Kourou, French-Guiana – ESA – 2018 (1shot) * EXT. Araine 5 launch with 4 Galileo Satellites- Arianespace, Kourou French-Guiana - ESA -July 2018 (2 shots) * ANIMATION. Galileo deployment – ESA – 2017 (3 shots) * ANIMATION. Galileo sat in space n – ESA – 2017 (1 shot) | In July the flagship programme with the European Commission, Galileo, reached an important milestone. With another launch of an Ariane 5 from Kourou  there are now 26 satellites on orbit. Technically the constellation needs 24 satellites to be operational. This launch concluded 10 years of continuous deployment. A major achievement for Europe that now not only has the only publicly owned satellite navigation system in the world but also the one with the best performances for positioning services worldwide. |
| 10:01:52:09   * EXT. STS-122 Launch, Kennedy Space Center, FL, USA – 07/02/2008 – NASA (2 shots) * EXT. Unloading and attachmentof Columbus to the ISS, ISS Space – Feb. 2008 – ESA/NASA (2 shots) * INT. Columbus interior, ISS Space – 2015 – ESA/NASA (1 shot) * EXT. Alexander Gerst Soyuz Launch – Baikonur, Kazachstan – Roscosmos – June 2018 (1shot) * INT. Alexander Gerst Soyuz Launch – Roscosmos – June 2018 (1 shots) * EXT. Alexander Gerst Soyuz Launch – Baikonur, Kazachstan – Roscosmos – June 2018 (1 shot) * INT. Alexander Gerst Horizons mssion inside ISS – ESA/NASA – 2018 (3 shots) | 2018 marked the 10th anniversary of the ESA Colombus module being attached to the ISS. This ESA space lab, was launched with the space shuttle Atlantis and is has since been home of to a multitude of experiments, in particular for ESA’s long duration missions.  The latest one, Horizons, started in June when German astronaut Alexander Gerst joined ISS from Baikonur. He performed many experiments aboard Columbus during his six months stay in orbit.  Since 10 years ESA has had a quasi-continuous presence with its ESA astronauts aboard the ISS. |
| 10:02:31:00   * INT. Orion capsule in NASA Cleanroom – Kennedy Space Center, FL, USA – NASA – 2018 (1shot) * INT. ESM in NASA Cleanroom – Kennedy Space Center, FL, USA – NASA – 2018 (2shots) * ANIMATION. Orionspacecraft in flight – NASA - 2017 | Looking beyond ISS, ESA is also working with NASA on the development of its future Orion spacecraft. In November the European service module that will support Orion was shipped to Kennedy Space Center. This interplanetary Mission spacecraft will fly beyond the moon and back in 2020. |
| 10:02:52:05   * INT. Bepi-Colombo Assembly in cleanroom – Arianespace , Kourou French-Guiana – ESA – June 2018 (3 shots) * EXT. Araine 5 Bepi-Colombo launch - Arianespace, Kourou French-Guiana - ESA - October 2018 (2 shots) * ANIMATION. Bepi-Colombo on route to mercury – ESA -2018 (1 shot) | In science 2018 will be remembered for the first ESA mission to Mercury, Bepi-Colombo, a cooperation with JAXA, the Japanese space agency. In October Ariane 5 launched 2 orbiters which are now on their way for a 7 year journey to the least studied planet of our solar system. |
| 10:03:13:12   * ANIMATION. Gaia scanning the heavens – ESA – unknown date (3shots) * ANIMATION. Images of galaxies and stars – ESA – 2018 (3shots) | In April ESA made history will the release of the GAIA catalogue, the richest star catalogue to date. It includes unprecedented high-precision measurements of nearly 1.7 billion stars and reveals previously unseen details of our home galaxy, the Milky Way. It provides mankind with most accurate information yet on star positions, brightness, distance, motion, colour and temperature. A strong basis for future discoveries. |
| 10:03:48:16   * EXT. ESAC site – Madrid, Spain – ESA – 2014 (2shots) * INT. ESAC conference room – Madrid, Spain – ESA - October2018 (3shots) * STILL Space19+ logo – ESA – 2018 * EXT. ISS Timelapse of Soyuz launch by A. Gerst – ESA -2018 (2shot) | Mid October Ministers, from ESA Member States in charge of space matters, endorsed in Madrid the vision for the future of Europe in space. This Meeting paves the way for ‘Space19+’, ESA’s Council at ministerial level next November in Spain. A milestone for a United Europe in space for 2019 and beyond. |
|  | **B-ROLL** |
| 10:04:10:14   * EXT. ESAC site – Madrid, Spain – ESA – 2014 | Exteriors ESAC Facility  Madrid  Spain  6 Shots |
| 10:05:27:22   * INT. ESAC conference room – Madrid, Spain – ESA - October2018 | Intermediate Ministerial at ESAC Facility  Madrid  Spain  October 2018  10 Shots |
| 10:07:29:18   * EXT. Araine 5 launch with 4 Galileo Satellites- Arianespace, Kourou French-Guiana - ESA -July 2018 (2 shots) | Galileo 23-26  Ariane 5 Launch  July 2018  8 Shots |
| 10:08:43:04   * ANIMATION. Bepi-Colombo – ESA -2018 | Bepi-Colombo Journey to Mercury  Animation  13 Shots |
| 10:11:42:03   * ANIMATION. Metop-C in orbit – ESA – 2018 | MetOp-C  Animation  5 Shots |
| **10:14:33:08** | **END** |