**ESA – 2017 Mission Preview**

After a very exciting 2016 the European space agency ESA is already looking forward to a new year. 2017 is going to be a challenging year with many new launches that should show ESA’s excellence: from Earth Observation to Human Spaceflight, Sat Com and Navigation**.**

|  |  |
| --- | --- |
| 10:00:00 | ESA leader  |
| 10:00:10 | Title: ESA 2017 Mission preview |
| 10:00:10* INT. Timelapse SmallGEO IABG Cleanroom – IABG, Germany – unknown date – ESA
* INT. SmallGEO Satellite platform in cleanroom – ESTEC, Noordwijk, The Netherlands – nov 2012 – ESA
* INT. Timelapse SmallGEO IABG Cleanroom – IABG, Germany – ESA

10:00:44:12* Animation EDRS-C Artist impression ad Globe – DEC 2016 – ESA
* Still. EDRS-C Artist impression Pierre Carril – 2016 – ESA
* Animation. EDRS platform – 2016 –ESA
 | In January it will be the first launch of a satellite using the smallGEO platform, Hispasat 36W-1. SmallGEO is a telecommunications platform accommodating a wide range of payloads and missions. Developed by OHB System from Germany, under ESA’s Advanced Research in Telecommunication Systems programme – ARTES, SmallGEO is a Public- Private Partnership between ESA, OHB and the operator Hispasat. It will also be the first geostationary launch on a Soyuz from Kourou.Another event in the telecom area is the launch of EDRS-C by the end of the year. EDRS-C is also based on the smallGEO platform and will be the first dedicated satellite for EDRS, the European Data Relay Service. Launched from the European spaceport on an Ariane 5, it will be the 2nd element of the laser relay "space data highway”. |
| 10:01:09:16* EXT. Galileosat 15-16-17-18 Ariane 5 Launch – Kourou French-Guiana – 17/11/2016 – ESA
* Animation Galileo sat deployment in space – 2016 - ESA
 | An Ariane 5 will also be used to launch 4 more Galileo satellites in the second half of 2017. The addition of these satellites ensures the continued deployment of the constellation which will then be comprised of 22 satellites. With initial services declared and its infrastructure constantly expanding, the Galileo Programme is nearing completion. |
| 10:01:33:23* Animation Globe and opernicus Logo – EC
* Animation Sentinel overviewchart and globe – 2016 – ESA
* INT: Images of Sentinel-2B in estec cleanroom - NOORDWIJK, THE NETHERLANDS - 15/11/2016 – ESA
* Animation. Sentinel 2 in space –ESA

10:02:05:07* Animation. Sentinel 5P and 3B Artist impression + globe – Dec 2016 –ESA
* Animation Sentinel 5P –ESA
* Animation Sentinel 3B –ESA
* Stills. Sentinel-3A Data – 2016 – ESA
* Animation Sentinel 3B – ESA
* Animations ADM-Aeolus - 2016 - ESA
 | For earth observation and the Europe's Copernicus programme, 2017 will once again be an important year, with no less than 3 Sentinel satellite launches. In March, Sentinel-2B will be launched aboard a Vega from Kourou. Sentinel-2B carries a wide swath, high definition multispectral imager. With Sentinel-2A already on orbit, both sentinel-2 satellites will monitor land cover, vegetation and water pollution. Later in 2017 two more Sentinels will follow: Sentinel-5P and Sentinel-3B. The Sentinel-5 Precursor mission is a satellite dedicated to monitoring our atmosphere at a high temporal and spectral resolution. It also offers increased cloud-free observation.Sentinel-3B is a multi-instrument mission to measure sea-surface topography, sea- and land-surface temperature and ocean and land colour. Both Earth observation satellites will be launched on a Rokot from Plesetsk in Northern Russia. |
|  10:02:40:19* Animations ADM-Aeolus - 2016 - ESA
 | Aside from Copernicus ESA is working on its Earth explorers programme. ADM-Aeolus aeolus satellite is planned for launch from Kourou at the end of the year. ADM stands for Atmospheric Dynamics Mission and will provide global observation of wind profiles. With this mission ESA hopes to further our knowledge of the earth’s atmosphere and weather systems. Demonstrating new laser technology Aeolus is also seen as a pre-operational mission that can pave the way for new wind measurement satellites. |
| 10:03:14:05* INT. ISS Thomas Pesquet X-mas message – DEC 2016 – ESA
* INT. ISS Thomas Pesquet Daily life – Dec 2016 –ESA

10:03:24:08* INT. Paolo Nespoli at Astronaut training centre – Houston, USA – sept 2016 –ESA
* INT. Astronauts at Astronaut training centre – Houston, USA – sept 2016 –ESA
* Animation Galileo sat deployment in space – 2016 - ESA
 | In May French ESA astronaut Thomas Pesquet will land in Kazakhstan after a 6 month stay in the international space station ISS. Later in the same month Italian ESA astronaut Paolo Nespoli will return to the ISS for his 3rd space flight and the 10th ESA long duration mission. He is planned to come back mid-October**.** With 2 Astronauts and 10 satellites, 2017 will be another busy year for ESA. |
| 10:03:44:04 | **B-ROLL** |
|  | SmallGEO TimelapseIABG CleanroomESA |
| 10:05:17:04 | SmallGEO AnimationsESA |
| 10:06:08:22 | EDRS-C Artist ImpressionPierre CarrilESA - 2016 |
| 10:06:48:21 | EDRS - European Data Relay SystemAnimationsESA - 2016 |
| 10:08:38:08 | ADM - AeolusAnimationsESA - 2016 |
| 10:11:06:00 | Galileo Ariane 5 LaunchAnimationsESA - 2016 |
| 10:13:18:22 | **END** |