**ESA – 2015 Preview**

**After a very fruitful 2014 ESA has no time to rest and another busy year in Space is starting. . In 2015 Rosetta will still be the star of the show and missions in most of space domains should show ESA’s excellence: from Earth Observation to Human Spaceflight, Sat Com and Navigation.**

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| 10:00:00 | ESA leader  |
| 10:00:10 | Title: ESA 2015 Mission preview |
| 10:00:10* Vega on the Launchpad –> Ariane Spaceport, KOUROU, French-Guiana – may 2013 – ESA
* IXV Mass property testing -> ESTEC, Noordwijk the Netherlands -July 2014 – ESA
* IXV cleanroom -> Thales-Alenia Space, Turin, Italy – March 2014
* Animation, IXV-journey from launch to splashdown – May 2011 – ESA
 |  **For ESA 2015 will start with a special payload for the 4th Vega launch from Kourou: the IXV, or the Intermediate eXperimental Vehicle. It has been designed to test technologies and critical systems for autonomous controlled reentry for space. A crucial test as return is one of the most critical phases during space missions. IXV will be sent at an altitude of 450 kilometer and, after a suborbital flight, will splash down in the middle of the pacific ocean.**  |
|  10:00:45* Galileo Sate 5-6 being prepared for launch with Soyuz –> Ariane Spaceport, KOUROU, French-Guiana – July-August 2014- ESA
* Sentinel Soyuz launch –> Ariane Spaceport, KOUROU, French-Guiana – April 2014- ESA
 | **ESA will also continue the deployment of the Galileo constellation with the addition of at least 4 more satellites. ESA is planning to launch them either with an Ariane 5 or two Soyuz launchers** |
| 10:00:58* Animation, Sentinel-1 scanning the globe -> December 2014 – ESA
* Animations, Sentinel-2, fly-over Europe and 360° view – December 2014 – ESA
* Animation, sentinel-3 360° view – December 2014 – ESA
* Animation, globe environment monitoring, maps – December 2014 - ESA
* Images of MSG-3 –> shot at Thales-Alenia Space Cannes – April 2012 – ESA
* Animation, MSG-satellite scanning the globe – April 2012 - EUMETSAT
 | **For Earth Observation ESA will launch two new Sentinel satellites. First a Vega launcher will send Sentinel-2A into space. It will be used for monitoring land surface conditions. Later the Sentinel-3A satellite will be launched with a Rockot. This satellite will measure surface topography, sea and land surface temperature, and ocean and land surface colour.** **These Sentinels are part of the Copernicus programme formerly known as GMES. This programme is a collaboration between ESA and the European Commission aiming at improving the management of the environment, and understand and mitigate the effects of climate change. Another Earth Observation satellites that ESA wil launch is the 4th Meteosat of second generation, another weather forecast satellite for Eumetsat.**  |
| 10:01:52* Airbus Defence & space, EDRS in cleanroom and people working on it –> Toulouse, France – 07/11/2014 and 11/11/2014– ESA
* ESTEC cleanroom, SmallGeo satellite -> ESTEC, Noordwijk, the Netherlands – November 2012 – ESA
* MSG-3 Ariane 5 launch –> Ariane Spaceport, KOUROU, French-Guiana – 05/07/2012 – ESA
* ESTEC cleanroom, SmallGeo satellite -> ESTEC, Noordwijk, the Netherlands – November 2012 – ESA
* Airbus Defence & space, EDRS in cleanroom and people working on it –> Toulouse, France – 07/11/2014 and 11/11/2014– ESA
* Animation, EDRS in orbit with sentinel receiving and sending data to the ground –> November 2014 – ESA
* Animation SmallGeo in space – November 2012 –ESA
 | **In 2015 ESA will once more contribute to the world of telecommunications satellites with the launch of ERDS-A node on a Eutelsat bird and later the launch of the first SmallGEO satellite, Hispasat AG1 on an Ariane 5. Both these innovative satellites are the result of public-private partnership between ESA and European industry. For example the EDRS-A node has a breakthrough laser link system for low earth orbiting satellite communication and smallGEO is a general-purpose small geostationary satellite platform allowing European industry to play a significant role in telecommunication.**  |
| 10:02:36* ESA astronauts in star city, Moscow–> October 2014 – ESA
* ESA astronaut S. Cristoforetti in training, –> star city, Moscow November 2014 – ESA
* ESA astronaut S. Cristoforetti in Soyuz to ISS and ISS press conference -> Space – November 2014 –ESA
* ESA astronaut A. Mogensen in star city, Moscow –> October 2014 – ESA
* ESA astronaut T. Peake in star city, Moscow –> October 2014 – ESA
 |  **It will be a very special year for ESA astronauts. In May astronaut Samantha Cristoforetti , the first Italian woman in space, will return to earth after a 6 month stay in the International Space Station, ISS. In September Andreas Mogensen will perform an eleven day taxi mission to the ISS, becoming the first Danish citizen in space. In November British Astronaut Timothy Peake will fly to the ISS for a long duration stay. He will be the first British astronaut aboard the ISS.**  |
| 10:03:12* Rosetta animations, Rosetta’s journey – November 2014 – ESA
* Rosetta animations, orbiting the comet – November 2014 – ESA
* Rosetta animations, Studying the comet – October 2014 – ESA
* Stills of LISA Patherfinder –> web - December 2014 – ESA
* Rosetta animations, Studying the comet – October 2014 – ESA
 | **ESA will also follow up on the very successful Rosetta mission to the comet Churyumov-Gerasimenko in 2015. Rosetta is still escorting the comet and will be the first spacecraft to scrutinize a comet while approaching the sun. In august when the comet will be at its closest to the sun, Rosetta will make unique observations of the comet’s coma and its tail streaming into space.** **Another science project will be the launch of the LISA-Pathfinder mission from Kourou. It will use a completely different method of observing the universe by trying to detect gravitational waves.. This endeavour should allow astrophysicists to address some of the most fundamental questions about the universe.**  |
| 10:03:59 | **B-ROLL** |
| 10:03:59* Galileo Sate 5-6 being prepared for launch with Soyuz –> Ariane Spaceport, KOUROU, French-Guiana – July-August 2014- ESA
* Galileo Soyuz launch –> Ariane Spaceport, KOUROU, French-Guiana – August 2014- ESA
 | **- Images of the Galileo launch campaign, preparation of Galileo satellites 5-6 for launch with Soyuz and Soyuz launch of Galileo 5-6 for Kourou (15 shots) july –august 2014** |
| 10:04:45* Animations, Sentinel-2, fly-over Europe and 360° view – December 2014 – ESA
* Animation, sentinel-3 360° view – December 2014 – ESA
 | **- Sentinel-2 and 3 animation (3shots)** |
| 10:08:02* ESTEC cleanroom, SmallGeo satellite -> ESTEC, Noordwijk, the Netherlands – November 2012 – ESA
 | **- SmallGeo Estec cleanroom (7 shots)** |
| 10:08:59* Animation SmallGeo in space – November 2012 –ESA
 | **- SmallGeo animation (2 shots)** |  |
| 10:09:50* ESA astronaut S. Cristoforetti in Soyuz to ISS and ISS pressconference -> Space – November 2014 –ESA
 | **- ESA Astronaut Samantha Cristoforetti Launch campaign, Soyuz-flight and Hatch opening. (12shots)** |
| 10:11:40 | **END** |