Sentinel-3A soon to be launched:

The preparations of ESA’s new earth observation satellite SENTINEL-3A is finished and the satellite will soon be shipped for launch. The satellite will be carried into orbit by a Rockot launcher departing from the Russian Cosmodrome of Plesetsk.

Sentinel-3A is set to play a key role in the Copernicus programme, the world’s largest environmental monitoring programme which is operated by the European Commission.

Carrying a suite of state-of-the-art instruments, Sentinel-3A It will provide highly accurate measurements of the Earth’s oceans, land, ice and atmosphere.

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| Image | Text |
| 10:00:10* INT. Sentinel-3A in cleanroom – Thales-Alenia Space -> Cannes, France – 29/09/2015 –TAS
* ANIMATION – Rockot ascent, opening, Breeze-Sentinel Separtion, Sentinel-3 Solar array deployment - 2015 - ESA
 | Cannes, south of France. In a Thales-Alenia cleanroom Sentinel-3A is undergoing its final preparations before being shipped to Russia for launch. The 3,7m high satellite weighs 1150 kg and will be launched from the Plesetsk cosmodrome on top of a Rockot launcher.Once in orbit Sentinel-3A will join the family of sentinel satellites and start collecting earth observation data, providing users around the globe with fast and reliable measurements. With these measurements Sentinel-3 will play a key role in the European commissions earth observation programme, Copernicus. |
| 10:00:48* ANIMATION – Rockot ascent, opening, Breeze-Sentinel Separtion, Sentinel-3 Solar array deployment – 2015 - ESA
* ITW Bruno Berruti – Sentinel-3A cleanroom, Thales-Alenia Space -> Cannes, France – 14/10/2015 -ESA
 | **ITW Bruno Berruti, Sentinel 3 Project Manager, ESA***The Sentinel 3 has a very specific role which is as we say “carpet mapping”. It is a global mission. It is a mission that is supposed to cover all of the earth’s surfaces land, water, ice as fast as possible. And to provide the basis for a lot of numerical modelling which are used for climate predictions, for human interaction with nature, with the land and with the ocean. So in that respect the Sentinel 3mission is supposed to become a kind of workhorse of the Copernicus programme.*  |
| 10:01:22* ANIMATION – Sentinel-3A halftechview - 2015 – ESA
* STILL – Ocean Topography map and Ocean temperature map – Unknonwn date – ESA
* INT. Sentinel-3A in cleanroom – Thales-Alenia Space -> Cannes, France – 29/09/2015 –TAS
 | Sentinal-3 is a multi instrument mission carrying both optical and microwave instruments to make high-end accuracy measurements of sea-surface topography, sea- and land-surface temperature and ocean- and land-surface colour. With this free of charge data for the users Sentinel 3 works in support of ocean forecasting systems and for environment and climate monitoring all of which benefit our day to day activities on the planet. Data of this kind provides us with data of how our climate is changing and helps us to better understand these changes. |
| 10:01:56* ITW Craig Donlon – Sentinel-3A cleanroom, Thales-Alenia Space -> Cannes, France – 14/10/2015 –ESA
 | **ITW Craig DONLON, Sentinel 3 Mission Scientist, ESA***So if you think about what we have got here, we have got a satellite making all these fantastic measurements for you and for me as citizens of Europe, it’s delivering its data within 3 hours and that data is available 24/7, 365 days a year and we are going to do this for the next 15 years. This is a quantum leap in terms of the amount of information that we can bring to bear on the problems that society faces today and Sentinel 3 is certainly there to give us the bigger picture.* |
| 10:02:23* ANIMATION – Sentinel-3A Flyby fires, Sentinel-3 solar array deployment, Sentinel 3 view over earth - 2015 – ESA
* EXT. Berlaymont Building, European Commission -> Brussels, Belgium – 20/08/2015 – ESA
* ANIMATION – Sentinel-3A Breeze undocking - 2015 – ESA
* EXT. EUMETSAT Building -> Darmstadt, Germany – 25/04/2012 – ESA
* INT. EUMETSAT Building -> Darmstadt, Germany – 25/04/2012 – ESA
 | The Sentinel 3 mission is based on a constellation of two identical satellites, sentinel 3A and sentinel 3B. They will fly in the same orbit but 180° apart from each other. In this way optimum global coverage and data delivery can be achieved. The Deployment of Sentinel-3 has been delegated to ESA by the European commission and once the satellite is in orbit and fully operational, ESA and Eumetsat, the European organisation for the exploitation of metereological satellites, will share the responsibility for the mission. Each focussing on their areas of expertise. |
| 10:03:01* ITW Susanne Mecklenburg – Sentinel-3A cleanroom, Thales-Alenia Space -> Cannes, France – 14/10/2015 –ESA
 | **ITW Susanne Mecklenburg; Sentinel 3 Mission Manager, ESA***We are getting ready from the operations side. So all the facilities to support the operations on a day to day basis are in place. We have also all the arrangements in place with Eumetsat with whom we collaborate on the operations for the mission which is an important point and you know we are looking forward to working with them to ensure we have the right data quality in the future for maintaining these operations and the scientific research.* |
| 10:03:26* INT. Sentinel-3A in cleanroom – Thales-Alenia Space -> Cannes, France – 29/09/2015 –TAS
 | After eight years of development, integration and testing with more than 100 companies involved Sentinel 3A will soon provide an unprecedented step forward for the marine, climate change, atmosphere and land services. Thanks to ESA and Sentinel 3 the world’s largest environmental monitoring programme, Copernicus, is now well on its way. |
| B-Roll |  |
| 10:03:49 | **ITW Bruno Berruti, Sentinel 3 Project Manager, ESA – ENGLISH**-The purpose of Sentinel 3 and it’s role in the Sentinel family |
| 10:06:03 | **ITW Bruno Berruti, Sentinel 3 Project Manager, ESA – ITALIAN**- Purpose of Sentinel 3, Role in the sentinel Family and Multi- instrument mission tech specs |
| 10:07:05 | **ITW Craig DONLON, Sentinel 3 Mission Scientist, ESA – ENGLISH**- Sentinel-3 and climate change, the big picture. |
| 10:09:42 | **ITW Kaiser Clemens, Director of development, EUMETSAT - GERMAN**- The role of Eumetsat in the sentinel-3 and Copernicus programme |
| 10: 10:37 | **INT. Sentinel-3A in cleanroom** – Thales-Alenia Space -> Cannes, France – 29/09/2015 –TAS |
| 10:12:40 | **INT. Sentinel-3A in cleanroom** – Thales-Alenia Space -> Cannes, France – 14/10/2015 –ESA |
| 10:13:24 | **ANIMATIONS – Sentinel-3:*** ROCKOT Breeze Reorientation
* ROCKOT Breeze Separation
* New Flyby algae bloom
* Detumbling
* Solar Array deploment
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| 10:14:49 | **END** |
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