Sentinel-1B VNR:

Two years after the launch of sentinel-1A the European space agency ESA is ready to launch its twin-brother Sentinel-1B. Both satellites will operate as a pair mapping and imaging our planet at an unprecedented speed and resolution. The mission is a part of ESA’s and the European Union’s Copernicus programme for earth observation. It will offer numerous applications such as services that relate to the monitoring of Arctic sea-ice extent, routine sea-ice mapping, surveillance of the marine environment, including oil-spill monitoring and ship detection for maritime security, monitoring land-surface for motion risks, mapping for forest, water and soil management and mapping to support humanitarian aid and crisis situations.

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| Image | Text |
| 10:00:00:00  EXT – Soyuz launch of Sentinel-1A – Arianespace, Kourou, French-Guiana – 14/04/14 – ESA  INT – Sentinel-1B Preparation – Arianespace, Kourou, French-Guiana – 08/03/2016 - CNES | On 14 April 2014 the European Space Agency launched the first of its new line of sentinel earth observation satellites, Sentinel-1A. It was sent into orbit on top of a Soyuz rocket from the European spaceport in Kourou, French-Guiana.  Now, almost two years on, it’s time for Sentinel-1B, its identical twin brother. |
| 10:00:34  INT – Volker Liebig – Paris – 15/03/2016 - ESA | **ITW Volker Liebig – Director of Earth Observation Programmes**  **Sentinel-1B is the first of the second satellites so to speak we have already launched the so called A satellite and this will help us to have the double amount of data. Or only half of the time to wait. In practice we can get from any place on earth we can get within six days an image with the A and B unit together.** |
| 10:00:59  ANIMATION – Sentinel-1 satellites in orbit, Scanning. 360° view of the satellite, SAR instrument and scanning through clouds – Unknown Date –ESA | To achieve this, both satellites will be flying in the same polar orbit, 180° apart, working together as a constellation.  They carry a powerful Synthetic Aperture Radar or SAR instrument. This radar allows the satellite to provide images of the earth’s surface under all weather conditions, day and night. The unprecedented speed and resolution of the sentinel satellites is providing an unparalleled amount of data making it a true success for the scientific community worldwide. |
| 10:01:30  INT – Volker Liebig – Paris – 15/03/2016 - ESA | **ITW Volker**  **It has gone far beyond our expectations. Beside some 80 services which are operational and also supported by the European commission, there are now national services emerging. And we have 27000 self-registered users which have already downloaded half a million of images and I tell you don’t download a radar image if you don’t really need it.** |
| 10:01:54  -Animations Copernicus – sentinel-1 detecting changes in volcanic activity – unknown date – ESA  -Animations Copernicus – mapping Sea Ice, shipping routes – unknown date – ESA  -Animations Sentinel-1 SAR deployment – unknown date –ESA  -Animation Sentinel-1 total in space - Unknown date - ESA | The radar images provided by the sentinel-1 satellites will allow scientists to detect small changes in volcanic activity, routinely map sea ice to help ships navigate through our increasingly crowded polar seas and allow a better management of shipping routes worldwide. These are but a few examples of the services provided.  Sentinel-1A and 1B are not the first satellites monitoring our planet, but they will be the first ones to do this continuously as an operational tool within the Copernicus programme. |
| 10:02:28  INT – Volker Liebig – Paris – 15/03/2016 - ESA | **ITW Volker Liebig**  **This is a real game changer, if I can say that. We want to do now or we do now what we have done 35 years ago with the meteorological system. Operational satellites that mean we will ensure for many, many decades operational services. And this ensures on the other hand the users that they invest in new applications be it governmental or be it private.** |
| 10:02:52  -INT – Sentinel-1A in cleanroom – Arianespace, Kourou French-Guiana – March 2014 – CNES  - ANIMATION Copernicus Programme earth and Sentinel-1 in background – Unknown date -ESA  -Animation Sentinel-1 total in space - Unknown date - ESA | The Sentinel-1 satellite mission is an important part of the European union Copernicus programme for which ESA and the EU are planning to deploy 6 families of earth observation satellites. Each of these families will address specific needs and all will provide crucial information to better understand our planet. The information can help mankind to plan a sustainable future for itself and the planet we all share. |
| **10:03:20** | **B-Roll** |
|  | **ITW. Volker Liebig - FRENCH** |
| **10:05:20** | **ITW. Volker Liebig - GERMAN** |
| **10:07:47** | **IMAGES: Sentinel-1B opening of the container, Unpacking and prep in cleanroom – Arianespace, French-Guiana – 08/03/2016 - CNES** |
| **10:09:17** | **IMAGES Sentinel-1A Preparation in Cleanroom before Launch– Arianne Space, French-Guiana – March 2014 - CNES** |
| **10:10:46** | **TIMELAPSE: Sentinel-1A SAR Antenna Deployment – Cleanroom Thales Alenia Space – 20/01/2014** |
| **10:11:36** | **IMAGES SENTINEL-1A Launch Campaign – Arianespace, Kourou French-Guiana – 14/04/2014** |
| **10:12:59** | **ANIMATIONS: Sentinel-1 Launch and in space – Unknown date ESA** |
| **10:14:53** | **END** |
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