

Press Release

8 November 2019

SSTL Announces NovaSAR-1 Data Deal with the Philippines

Surrey Satellite Technology Limited (SSTL) has signed an agreement with Republic of the Philippines' Department of Science and Technology-Advanced Science and Technology Institute (DOST-ASTI) to provide a share of the tasking and data acquisition services from NovaSAR-1, the innovative small S-Band radar satellite launched into a 580km sun synchronous orbit in September 2018.

The agreement gives DOST ASTI tasking priorities over the Philippines and the ability to access the raw data directly from the satellite, with a license to use and share the data with their partners over an initial 5 year period, extendable to the actual lifespan of the satellite. Synthetic Aperture Radar (SAR) has the ability to image the Earth through cloud cover and at night, and DOST-ASTI will use data from NovaSAR-1 in support of a number of applications, including disaster monitoring, agricultural and forestry management, and coastal and maritime applications such as ship detection.

Andrew Cawthorne, Director of Earth Observation at SSTL said "I am delighted to welcome DOST-ASTI colleagues to the NovaSAR-1 data team. I anticipate that the Philippines will benefit greatly from NovaSAR-1 data, particularly as the country has a tropical climate with frequent cloud cover, and an extensive coastline and maritime territory."

"The SAR imaging capability of NovaSAR-1 is a timely and powerful resource as we continue to push scientific data, computing and space technology in support of evidence-based politics and decision-making in the country" according to Dr Joel Marciano, Jr, Acting Director of DOST-ASTI. "For one, NovaSAR-1's simultaneous acquisition of SAR and Automatic Identification System (AIS) data targets enhanced maritime domain awareness that is expected to lead to more effective interventions" adds Mr Alvin Retamar, Chief Science Research Specialist at DOST-ASTI.

FINAL Page 1 of 3



Two sample SAR images of the Philippines acquired by NovaSAR-1 have been released. The target area for the first image acquisition was Cebu city and the nearby Mactan-Cebu International Airport. The captured image shows sea-going vessels around the shipping port together with the rugged terrain of the interior of Cebu Island. Masbate Island in the Bicol region of the Philippines serves as the target area of the second image acquisition. The resulting image reveals a crater site hidden by forest canopy that is not visible in optical satellite images. Other features such as aquaculture sites along the coast and the rolling hills in the central region of the island were also captured in the image.

NovaSAR-1 was designed and manufactured at SSTL, with an S-Band payload developed by Airbus Defence and Space in Portsmouth UK, and an Automatic Identification Receiver supplied by Honeywell Aerospace. The SAR payload has a dedicated maritime mode designed with a very wide swath area of 400km to enable the monitoring of the marine environment and will provide direct radar ship detection information simultaneously with AIS ship tracking data to assist with the identification and tracking of sea-going vessels.

Mission partners already under contract for NovaSAR-1 data include the UK Space Agency, Australia's Commonwealth Scientific and Industrial Research Organisation (CSIRO) and the Indian Space Research Organisation (ISRO).

NovaSAR-1 is owned and operated by SSTL.

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Notes to editor:

Full size accompanying images for this press release can be downloaded at https://www.sstl.co.uk//NovaSAR-1-Philippines

Image 1: NovaSAR-1 S-band SAR image of the Cebu city area of Cebu Island and shows Mactan-Cebu International airport, boats and sea-going vessels around the shipping port, and the rugged terrain of the interior of the island

FINAL Page 2 of 3



Image 2: NovaSAR-1 S-Band SAR image of Masbate Island in the Bicol region of the Philippines at 6 metres resolution. The image shows a crater site hidden by forest cover, a coastal aquaculture site and the rolling terrain in the central region of the island.

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About SSTL

Surrey Satellite Technology Limited (SSTL) is the world's leading small satellite company, delivering operational space missions for a range of applications including Earth observation, science, communications, navigation, in-orbit servicing and beyond Earth infrastructure. SSTL designs, manufactures and operates high performance satellites and ground systems for a fraction of the price normally associated with space missions, and employs 450 staff working on turnkey satellite platforms, space-proven satellite avionics, optical instruments and new mission concepts.

Since 1981, SSTL has built and launched more than 60 satellites for 20 international customers, as well as providing training and development programmes, consultancy services, and mission studies for ESA, NASA, international governments and commercial customers. Our innovative approach is changing the economics of space.

Headquartered in Guildford, UK, SSTL is part of Airbus. www.sstl.co.uk

FINAL Page 3 of 3