

IAF EARTH OBSERVATION SYMPOSIUM (B1)
International Cooperation in Earth Observation Missions (1)

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NOVASAR-1 - FIRST YEAR OF AN INTERNATIONAL PARTNERSHIP

Abstract

The NovaSAR-1 small radar imaging satellite was launched in September 2018, and employs a novel sharing concept to allow each user to own and operate the spacecraft as if it was their own. Imaging at night time or through cloud cover from space using radar has traditionally required large and expensive spacecraft. NovaSAR-1 is a first attempt to create a radar spacecraft that provide economically sustainable radar imaging, and utilises S-band as the transmission band and an AIS receiver to widen the range of applications to include maritime surveillance, forestry, agriculture and mapping. This paper focuses on the partnership approach that has been implemented on the NovaSAR mission.