

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

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DEVELOPMENT OF THE 813 HYPERSPECTRAL SATELLITE FOR EARTH OBSERVATION IN
UAE

Abstract

The UAE has launched a regional space collaboration programme that aims to empower the Arab world in the global space industry. The 'Arab Space Cooperation Group' includes partnership between the UAE and 10 other Arab countries, including Saudi Arabia, Bahrain, Oman, Egypt, Algeria, Morocco, Jordan, Lebanon, Sudan and Kuwait. These Eleven Arab countries will build the 813 satellite named after the date that marked the beginning of prosperity for the House of Wisdom in Baghdad under the reign of Al-Ma'mun. Representing the region, the House embraced scientists, translated notable texts and produced scientific capabilities. The development of the satellite will take three full years and will have a lifespan of about five years. It will also have a polar orbit of 600 kilometers. The data will be sent to a ground station in the UAE and receiving stations in some Arab countries for the benefit of a number of environmental authorities, municipalities and institutions concerned with the agricultural sector and urban planning industry. In this paper, an illustration of 813 satellite will be addressed and the role of the Working Arab Groups towards the development of the satellite