

## IAF EARTH OBSERVATION SYMPOSIUM (B1)

Late breaking abstracts (LBA)

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## CONTRIBUTION OF SAR IMAGES FOR STUDYING THE UAE'S MANGROVE DISTRIBUTION.

**Abstract**

Mangrove ecosystems are one of the most productive ecosystems, with unique ecological characteristics and great social and economic value. Mangroves are estimated to cover more than 150 square kilometers of the United Arab Emirates coastline, function as the "green lungs" of major cities, while providing wildlife habitats and recreational areas for people. Accurate mangrove mapping is very important for dynamic mangrove monitoring and management. Many studies have shown good results with mangrove mapping. However, less information is available for optical images affected by clouds and fog. This study produced a SAR analysis for capturing mangroves along the UAE coast. Mangrove data is taken from government databases and analyzed to conduct investigations. The results show close monitoring of mangroves using SAR technology. In addition, the introduction of VV polarization mode information will help improve the accuracy of mangrove extraction.