



VIIRS 2011–2021: Ten Years of Success in Earth Observations

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Message from the Guest Editors

The new US polar orbiting system, JPSS, succeeds the heritage NOAA POES system, with the new generation VIIRS imager replacing the long-term POES AVHRR. The 1st VIIRS was launched onboard S-NPP in October 2011, and the 2nd sensor followed onboard JPSS-1/NOAA-20 in November 2017. Three more VIIRSs are planned to fly onboard JPSS-2, 3 and 4 satellites planned for launch in 2022, 2026 and 2031. This Special Issue aims to overview the initial VIIRS contributions during its first decade in space and place its products and performance in context of its historical counterparts (e.g., AVHRR, MODIS) and planned future sensors and data records (from, e.g., Metop-SG METImage and MTG FCI). Of special interest are Level 1 and derived Level 2–3 ocean, land, atmosphere and cryosphere data products, from VIIRS and other space sensors, and their use in downstream applications (such as, e.g., derivation of gap-free Level 4 analyses).





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Message from the Editor-in-Chief

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