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KARYA ILMIAH : JURNAL ILMIAH

Judul Jurnal Ilmiah (Artikel)	:	ACCURACY PERFORMANCE OF SATELLITE-DERIVED SEA SURFACE TEMPERATURE PRODUCTS FOR THE INDONESIAN SEAS		
Jumlah Penulis	:	Tiga (Restu Tresnawati, Anindya Wirasatriya, **Adi Wibowo**)		
Status Pengusul	:	penulis ke 3 (tiga)		
Identitas Jurnal Ilmiah	:	a. Nama Jurnal	:	Geographia Technica
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   Data yang digunakan terkini, dan hasil yang diperoleh dalam penelitian baik dengan didukung metodologi yang tepat dengan jumlah referensi kurang dari 5 tahun sejumlah 26.
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Semarang, 2 April 2023
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   Ruang lingkup artikel ini membahas validasi dan perbandingan enam dataset penginderaan jauh/satelit untuk mempelajari fluktuasi suhu permukaan laut (SST) pada badai tropis di perairan Indonesia. Keakuratan SST yang diperoleh dari data penginderaan jauh sangat penting untuk memahami fluktuasi SST yang dihasilkan oleh kondisi cuaca ekstrem yang terkait dengan pemanasan global, seperti siklon tropis.
3. **Kecukupan dan kemutakhiran data/informasi dan metodologi:**
   Data remote sensing digunakan dalam studi tersebut, dan telah diperoleh sekumpulan informasi yang didukung oleh metodologi yang tepat dan didukung oleh referensi yang terbaru, yaitu kurang dari 5 tahun yang lalu, dengan total sebanyak 26.
4. **Kelengkapan unsur dan kualitas terbitan:**
   Artikel ini dipublikasikan di sebuah jurnal berkualitas Q3 Computer in Earth Science dengan SJR 0,21 serta H-Index12 yang diterbitkan oleh Cluj University Press. Artikel tersebut memiliki semua unsur yang diperlukan dan memiliki kualitas yang sangat baik.

Semarang, 3 April 2023
Reviewer 2

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ACCURACY PERFORMANCE OF SATELLITE-DERIVED SEA SURFACE TEMPERATURE PRODUCTS FOR THE INDONESIAN SEAS

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Abstract

The precision of sea surface temperature (SST) from remote sensing data is essential to recognize SST fluctuations prompted by extreme weather conditions due to global climate warming, such as tropical cyclones (TCs). Since 1981 the active remote sensing of satellite-based SST measurements has been around and proliferating to date in Indonesia. However, there has not been much research on the validation of several remote sensing datasets in Indonesia's seas that has limited coverage of buoy observations. Moreover, no studies correspond to which data are the most precise in describing SST fluctuations in tropical storms. In this study, six remote sensing/ satellite (Operational Sea Surface Temperature and Sea Ice Analysis (OSTIA), Regional Australian Multi-Sensor SST Analysis (RAMSSA), Global Australian Multi-Sensor SST Analysis (GAMSA), Microwave Infrared Optimally Interpolated (MWIROI), Multi-scale Ultra-high Resolution (MUR), and K10) data are validated and compared to analyze SST fluctuations in TC as a case study. The validation method uses the Haversine distance formula to reach the highest quality iQuam data with satellite data. The comparison analysis is performed by plotting the SST and wind slop in a TC area. Based on the validation, The OSTIA, RAMSSA, GAMSSA, and MWIROI datasets ranked in the top 4 of the smallest RMSEs with values < 0.5. Moreover, in the SST and wind slop in a TC area, TC affects SST cooling as detected in the MUR and K10 datasets where there is a decrease of > 2 ºC. In the MWIROI, the decline is more noticeable significant > 3 ºC.

Author keywords

Remote Sensing; Sea Surface Temperature ; Tropical Cyclone; Validation

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12

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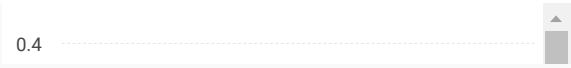

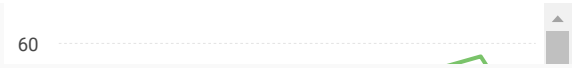

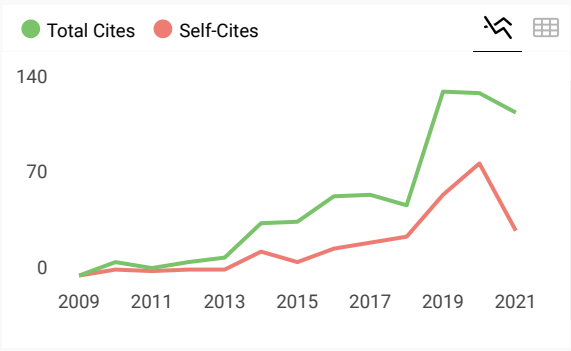

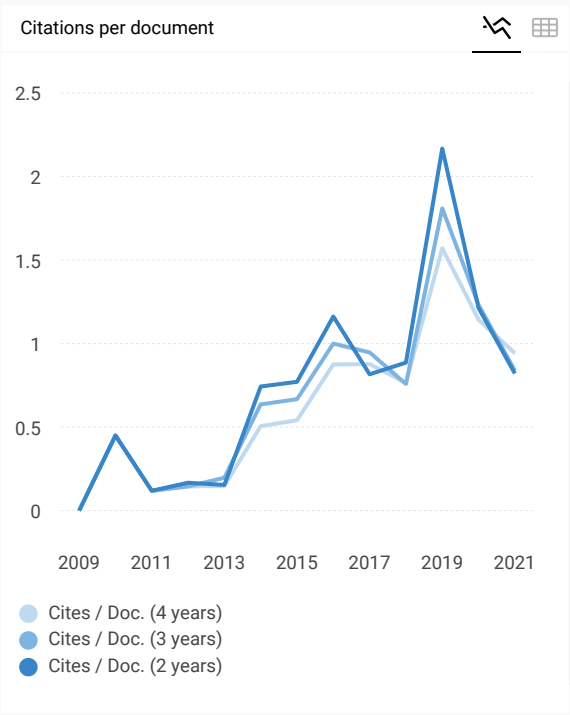

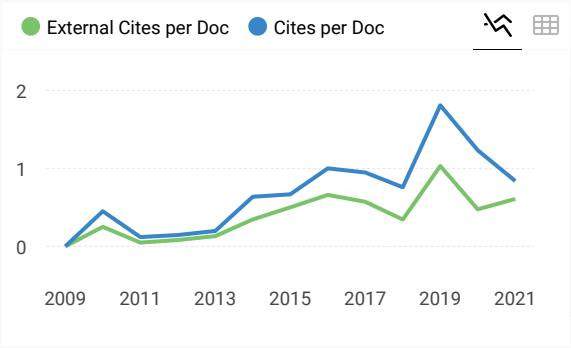

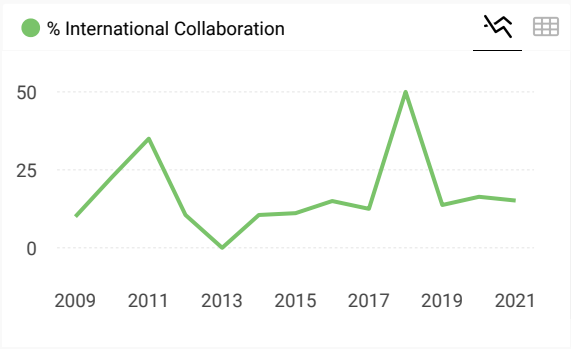

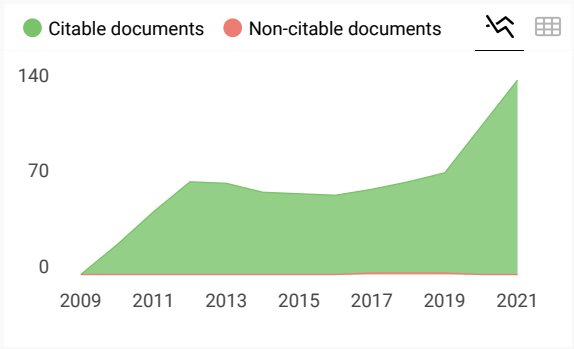

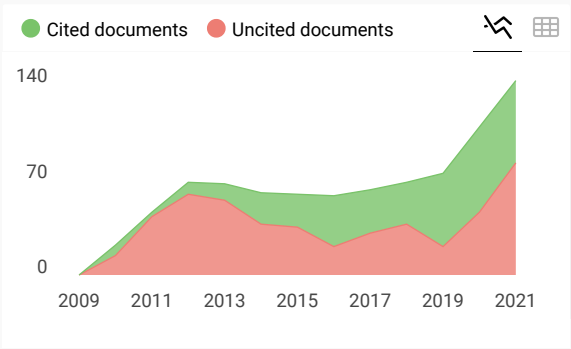

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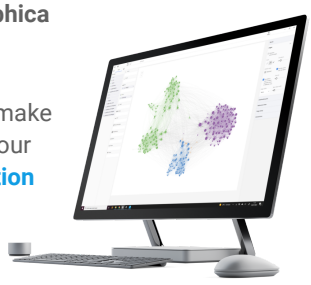

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