

REPUBLIK INDONESIA
KEMENTERIAN HUKUM DAN HAK ASASI MANUSIA

SURAT PENCATATAN CIPTAAN

Dalam rangka pelindungan ciptaan di bidang ilmu pengetahuan, seni dan sastra berdasarkan Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta, dengan ini menerangkan:

Nomor dan tanggal permohonan	:	EC00202419964, 1 Maret 2024
Pencipta		
Nama	:	Nilna Amal
Alamat	:	Jalan Perjuangan No 37 Sungai Sipai Martapura, Banjar, Banjar, Kalimantan Selatan, 70612
Kewarganegaraan	:	Indonesia
Pemegang Hak Cipta		
Nama	:	Nilna Amal
Alamat	:	Jalan Perjuangan No 37 Sungai Sipai Martapura, Banjar, Banjar, Kalimantan Selatan 70612
Kewarganegaraan	:	Indonesia
Jenis Ciptaan	:	Karya Tulis Lainnya
Judul Ciptaan	:	Analysis Of Hydrology Parameters In A Tropical Wetland
Tanggal dan tempat diumumkan untuk pertama kali di wilayah Indonesia atau di luar wilayah Indonesia	:	1 Maret 2024, di Banjarbaru
Jangka waktu pelindungan	:	Berlaku selama hidup Pencipta dan terus berlangsung selama 70 (tujuh puluh) tahun setelah Pencipta meninggal dunia, terhitung mulai tanggal 1 Januari tahun berikutnya.
Nomor pencatatan	:	000595324

adalah benar berdasarkan keterangan yang diberikan oleh Pemohon.

Surat Pencatatan Hak Cipta atau produk Hak terkait ini sesuai dengan Pasal 72 Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta.



a.n. MENTERI HUKUM DAN HAK ASASI MANUSIA
DIREKTUR JENDERAL KEKAYAAN INTELEKTUAL
u.b

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Disclaimer:

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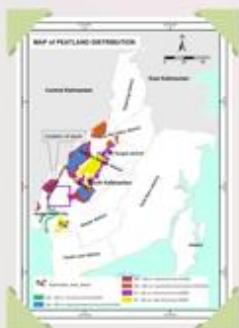


Analysis of Hydrology Parameters In a Tropical Wetlands

An Early Approach to Identify A Drought Risk In A Peatland Area



Abstract



The hydrological condition as a tool to assess a wetland condition can be determined by investigating actual local data or analyzing historical climatological records. Several methods can approach the wetland condition, including peatland in general. The definition of physical properties to assess critical groundwater table depths is one of them. Another way is to define the requirements in the area that can be approached by determining the condition of the wetland area for general.

Understanding and assessing the wetland state is necessary to measure and evaluate the wetland situation, and it can be done by analyzing wetland hydrology parameters. Due to the necessity to mitigate change conditions in a wetland, it is common to know that either flood or drought will derive a difficult situation both in a wetland and a peatland but especially for a peatland, drought condition is severe.



Study Purpose



to observe the water table elevation in a particularly peatland area



to analyze the hydrology parameters (rainfall and evapotranspirations)



to see the connection between the two and try to identify the drought risk by analyzing the relation between them



Methods

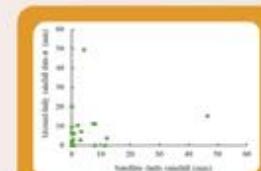
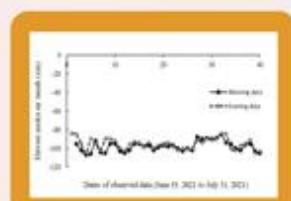
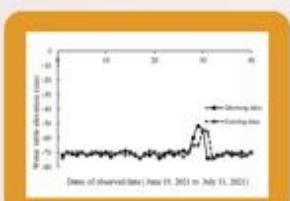
The primary data were obtained from installed equipment (installed for one and half months to collect daily water table elevation).

The secondary data were obtained from satellite data (local and regional).

Evapotranspiration was analyzed by Modified Blaney-Criddle method.

Rainfall Analysis was analyzed by Root Mean Square Error (RMSE) methods.

The value of the WTE is relatively high (even though the evapotranspiration was low) and bear to occur above 40 cm (in July), which is the limit of government regulation.



The most increased evapotranspiration occurred in J-J-A and S-O-N periods (this study).

