

## Abstract Submission

The 29<sup>th</sup> Asian Conference on Remote Sensing 2008

10-14 November 2008, Colombo, Sri Lanka

(Please fill and e-mail this form to [acrs2008@slt.net.lk](mailto:acrs2008@slt.net.lk))

Suggested Topic	Forestry/Ecosystem	
Title of the paper	The Application of Vegetation and Water Indices for Spatio-temporal Exploration of the Physiological State of Tropical Monsoon Forest as Related to Drought	
Authors name(s)	Mongkolsawat C., Mongkolsawat K., and Wattanakij N.	
Names of proposed presenter(s)	Mongkolsawat C.	
Postal Address	Geo-informatics Center for Development of Northeast Thailand, Computer Center building, Khon Kaen University, Khon Kaen 40002, Thailand	
Fax No(s)	6643348267	
Telephone No(s)	6643348268	
e-mail address	charat@kku.ac.th	
Preference for Oral and poster presentations	Poster	
<b>Abstract (Abstracts are limited to 300 words)</b>		
<p>Modis data of the Terra Satellite with high temporal resolution is promising for spatio-temporal pattern of the physiological state of forest. The objective of this study is to detect and evaluate the changes in physiological state of the tropical monsoon forest as related to drought. The study area, Phukieo Wildlife Sanctuary, is located in Northeast Thailand and has a diversity of forest types. The changes detection in Normalized Difference Vegetation Index (NDVI) and Normalized Difference Water Index (NDWI) image differencing technique were used for evaluating the variations of forest. The results indicate that the change detection in the physiological state of forest can be seen when using the NDVI and NDWI image differencing. The NDWI image differencing is more sensitive to vegetation liquid water change. The NDVI and NDWI images provide information on spatial and temporal analysis of drought through the physiological state of vegetation.</p>		

-----

**Following section to be filled by the organizing committee for registration purposes:**

Date received	
Abstract ID	