

Understanding the Interplay of Land Surface Temperature, Soil Moisture, and Air Temperature in Diverse Ecosystems

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Chonprathanwittaya School





INTRODUCTION



is not like it was 10 or 20 years ago. In the past, it the city for a period of 30 to 40 minutes this fall. So I set out to do research. Find those areas by observe 4 dams and nearby places around To through proper management of the national budget







OBJECTIVE AND HYPOTHESIS

Objective

- Compare between the study points of satellite data from 2001-2023 to see how the land cover has changed and how much it affects temperature and soil humidity.
- Will the air temperature and humidity in the Kaeng Krachan Dam area from satellite measurements match with the air temperature and humidity in the Kaeng Krachan Dam area that we measured at that time?







OBJECTIVE AND HYPOTHESIS

Hypothesis

- Location has no effect on temperature. (Phetchaburi, Uttaradit, Khon Kaen, Surat Thani)
- Soil moisture has no influence on temperature.(forest above dam, dam, city)
- Land cover does not affect soil humidity. (forest above dam, dam, city)
- The province where the dam is located has no influence on soil moisture (Phetchaburi, Uttaradit, Khon Kaen, Surat Thani).
- Location and land are not related.







Kaeng Krachan

Study area around Kaeng Krachan Dam Study the temperature and humidity in Kaeng Krachan Dam. and compare with 3 other dams.

Sirikit Dam

Ubol Ratana Dam

ได้เนื้อนอุบกรักน์ Uboniat Dom

Kaeng krachan Dam

Under Kacng Krachan Dani Kacng Krachan Dan

ลหน้า, หลด สันดหรับ

Rajjaprabha Dam

Above Ratchaprapha Dom Ratchaprapha Dom

initiality in the New York of States

วันที่เก็บภาพ: 12/13/2015 10°57'41.92"น. 106°







แนวท่ออาคารรับน้ำ เขื่อนแก่งกระจาน Government office

Kaeng Krachan Dam Views of a reservoi from atop a dar

Kaeng Krachan Dam Electric งกระจาน

















Sirikit Dam

Ubol Ratana Dam

Kaeng krachanRajjaprabha DamDam





Satellite imagery





terra

smap









INFRARED THERMOMETER



• XIAOMI THERMOMETER







- Use an infrared thermometer to measure temperature. Both cement floor and ground.
- Measured by giving people 1, 2, and 3 Stand about 2 steps apart. Repeat 3 times, the same on both cement floor and ground.

METHODS (INFRARED THERMOMETER)





METHODS (INFRARED THERMOMETER)





Then wait another 10 minutes. Then measure again. Do it all 4 times Do it at the same time in both areas, namely the dam ridge area. Kaeng Krachan Dam and Rueanwaree Resort.



METHODS (INFRARED THERMOMETER)





• Record the results.





METHODS (XIAOMI THERMOMETER)





Install the xiaomi thermometer in the area of Kaeng Krachan Dam and ruanwaree resort.





METHODS (XIAOMI THERMOMETER)





Wait 10 minutes , When the time is up, come and see, Do all 4 distance.



METHODS (XIAOMI THERMOMETER)





Record results and summarize (got both temperature and humidity)







Graph showing the temperature of the ground / cement floor around the Kaeng Krachan Dam ridge.









Graph showing ground/cement temperature around the Ruanwaree Resort.



























RESULTS AND DISCUSSION













RESULTS AND DISCUSSION





Categories







RESULTS AND DISCUSSION



















Thank you

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